

Llano Disposal, LLC
P.O. Box 250
Lovington, NM 88260

Date: June 14, 2022

To: Jim Griswold -Environmental Bureau Chief
Carl Chavez -Environmental Engineer
1220 South St. Francis
Santa Fe, New Mexico 87505

Re: NOTICE OF INTENT TO DISCHARGE
WQCC 20.6.2.1201 NMAC

Dear Sirs:

I, Darr Angell, Owner, Llano Disposal, LLC, am formally notifying the New Mexico Oil Conservation Division of Llano's intent to permit a Class III brine well located in Lea County, New Mexico. Pursuant to the Water Quality Control Commission Regulations 0/VQCC)

20.6.2.1201.B and C. NMAC, the following information is provided:

- 1) The name of the person making the discharge:
Llano Disposal, LCC, Mr. Darr Angell, owner
- 2) The address of the person making the discharge:
P.O. Box 250 (783 Highway 483)
Lovington, NM 88260
- 3) The location of the discharge:
Brine Well Location: NW/4 NW/4, UL 'D', Section 26, T17S, R36E
Proposed Brine Station Location: SW/4 SW/4, UL 'M', Section 27, T17S, R36E
- 4) An estimate of the concentration of water contaminants in the discharge:
Injection Water: fresh water from nearby fresh water well with approximately 400 mg/l
TDS Produced Brine Water: approximately 320,000 mg/l TDS
- 5) The quantity of the discharge:
Estimated Instantaneous Flow Rate: 1 -3 barrels per minute
Estimated Monthly Total: 0 -58,000 barrels per month

Pursuant to 20.6.2.3114 NMAC attached is Llano's check number 3308 in the amount of \$100 made payable to the "Water Quality Management Fund" as filing fee for the discharge permit application. Two copies of the discharge permit application along with pertinent attachments and a completed form C108 are attached.

If OCD requires additional information concerning this notice of intent or discharge permit application, please contact me at 575-704-2777 or email darrangell@gmail.com. Thank you for your consideration of this application.

Sincerely,

Darr Angell

Darr Angell
Llano Disposal, LLC
575-704-2777

Attachments

3308

Llano Disposal, LLCPO Box 250
Lovington, NM 88260**VALLEY BANK**
OF COMMERCE
623-2265
217 West Second • Roswell, New Mexico 88201
95-312/1122

6/7/2022

PAY TO THE
ORDER OF

Water Quality Management Fund

\$ **100.00

One Hundred and 00/100*****

DOLLARS

Water Quality Management Fund
New Mexico Oil Conservation Division
1220 South St Francis Drive
Santa Fe, New Mexico 87505

MEMO

Filing fee for Brine Well BW-35


AUTHORIZED SIGNATURE

⑈003308⑈ ⑆112203122⑆ 001198408⑈

Llano Disposal, LLC

3308

Water Quality Management Fund

6/7/2022

100.00

Checking Account - V Filing fee for Brine Well BW-35

100.00

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Revised August 1, 2011

Submit Original
Plus 1 Copy
to Santa Fe
1 Copy to Appropriate
District Office

DISCHARGE PLAN APPLICATION FOR BRINE EXTRACTION FACILITIES

(Refer to the OCD Guidelines for assistance in completing the application)

☒ New ☐ Renewal

I. Facility Name: Siringo ACS State

II. Operator: Llano Disposal, LLC

Address: P.O. Box 250 (783 HWY 483), Lovington, NM 88260

Contact Person: Marvin Burrows Phone: 575-631-8067

III. Location: NW /4 NW /4 Section 26 Township 17S Range 36E
Submit large scale topographic map showing exact location.

IV. Attach the name and address of the landowner of the facility site.

V. Attach a description of the types and quantities of fluids at the facility.

VI. Attach a description of all fluid transfer and storage and fluid and solid disposal facilities.

VII. Attach a description of underground facilities (i.e. brine extraction well).

VIII. Attach a contingency plan for reporting and clean-up of spills or releases.

IX. Attach geological/hydrological evidence demonstrating that brine extraction operations will not adversely impact fresh water.

X. Attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.

XI. CERTIFICATION:

I hereby certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Name: Darr Angell

Title: Owner

Signature: Darr Angell

Date: 6/14/22

E-mail Address: darrangell@gmail.com

Siringo ACS State #1 and Siringo Brine Station Discharge Plan

I. Name of Facility

Provide complete name. Indicate whether this is a new or renewal application.

Answer – This is a new application. The proposed brine well name is Siringo ACS State #1 and the proposed surface facility name is Siringo Brine Station.

II. Name of Operator or Legally Responsible Party and Local Representative

Include address and telephone number.

The operator/legally responsible party name is Llano Disposal, LLC, P. O. Box 250 (783 Highway 483), Lovington, NM 88260. The operator's OGRID number is 370661. The owner of Llano Disposal, LLC is also the owner of all the surface lands that the brine well and brine station will be situated upon. Additionally, the owner's personal residence is within a mile of the proposed brine well and brine station. Llano Disposal's office will be at 783 Highway 483, Lovington, NM 88260. The local representative is Marvin Burrows at 575-631-8067.

III. Location of Facility

Give a legal description of the location (i.e. 1/4, 1/4, Section, Township, Range) and county. Use state coordinates or latitude/longitude on unsurveyed land. Submit a large scale topographic map, facility site plan, or detailed aerial photograph for use in conjunction with the written material. It should depict the location of the injection well, storage tanks, process equipment, relevant objects, facility property boundaries, and other site information required in Sections V through IX below.

Answer – The brine well was originally drilled and abandoned in 1989. It is named the Siringo ACS State #1 (API # 30-025-30701) located at 660 FNL X 660 FWL, Unit Letter 'D', Section 26, T17S, R36E, Lea County, New Mexico. It has been re-completed as a brine well in the Salado (Salt) Formation between 2063' – 3253'. The brine station is located in the SE corner of UL 'M', Section 27, T17S, R36E, Lea County, New Mexico at latitude 32.798816°, longitude -103.347123°. The water source well is located approximately 0.62 miles SW of the proposed brine well. The water source well is located in UL 'J', Section 27, T17S, R36E, Lea County, New Mexico at latitude 32.804305°, longitude -103.338230°. See maps, facility site plan and aerial photographs in Attachments "A" – "F" and Attachment "O".

IV. Landowners

Attach the name and address of the landowner(s) of record of the facility site.

Answer – The landowner of record for the proposed brine well, water source well and brine station location is the Angell #2 Family LP, P. O. Box 250 (783 Highway 483), Lovington, NM 88260. Mr. Darr Angell of the Angell #2 Family LP is also the principal owner of Llano Disposal, LLC, the proposed brine well owner and operator.

Siringo ACS State #1 and Siringo Brine Station Discharge Plan

V. Type and Quantities of Fluids Stored or Used at the Facility

List all fluids stored or used at the facility (e.g. High TDS salt water, fresh water, chemicals, etc.). Include source, average daily volume produced, estimated volume stored, location, and type of containers.

Anticipated daily average volumes produced are 1500 BWPD of brine water and 1550 BWPD of fresh water. Anticipated volumes stored are 1500 bbls of brine water, 300 bbls of fresh water and 100 gallons of Baker Techni-Hib 606 corrosion chemical. An MSDS for the corrosion chemical is included in Attachment "H".

VI. Transfer, Storage and Disposal of Fluids and Solids

A. Provide sufficient information to determine what water contaminants may be discharged to the surface and subsurface within the facility. Information desired includes whether tanks, piping, and pipelines are pressurized, above ground or buried. Provide fluid flow schematics with sufficient detail to show individual units (pumps, tanks, pipelines, etc.).

1. Tankage and Chemical Storage Areas – Storage tanks for fluids other than fresh water must be bermed to contain a volume one-third more than the largest tank. If tanks are interconnected, the berm must be designed to contain a volume one-third more than the total volume of the interconnected tanks. Chemical and drum storage areas must be paved, curbed and drained such that spills or leaks from drums are contained on the pads or in lined sumps.

Answer – At the proposed brine station, there will be six interconnected 500 bbl fiberglass brine water storage tanks and one 210 bbl steel catch tank. All seven tanks will be located within a secondary containment. Each tank will have an isolation valve and will remain unpressurized. The secondary containment consists of an earthen berm with a 20 mil string reinforced LLDPE liner capable of holding a minimum of 4000 bbls. There will be a 32' X 60' concrete loading pad with a concrete sump that is situated on top of the concrete loading pad. Any fluids entering the sump will be pumped to the 210 bbl catch tank inside the lined secondary containment. At the proposed well location, there will be a poly chemical storage tank with a poly secondary containment below it capable of holding a minimum of one-third more than the size of the chemical tank. The chemical tank

Siringo ACS State #1 and Siringo Brine Station Discharge Plan

will remain unpressurized. See schematics in Attachment "L". There will be a buried 3" SDR-11 polyethylene fresh water pipeline between a water supply well and the brine well location. There will also be a buried 3" SDR-11 polyethylene pipeline between the brine well and the brine station. Both pipelines will remain unpressurized while pumps are not running. See section E below for detailed pipeline specifications.

2. Surface impoundments - Date built, use, type and volume of materials stored, area, volume, depth, slope of containments, sub-grade description, liner type and thickness, compatibility of liner and stored materials, installation methods, leak detection methods, freeboard, run-off/run-on protection.

Answer – There are no existing surface impoundments at this facility. If permit application is approved, a new secondary containment around storage tanks discussed in section VI.A.1 above will be built. A berm using caliche hauled in from an offsite pit will be used. This bermed area will then be lined with a 20 mil LLDPE liner with UV protection. Although, storm water run-on/run-off is expected to be minimal due to the level nature of the surrounding terrain, an earthen berm of topsoil dirt will be installed along the western, northern and eastern boundaries of the brine station. This storm water berm will contain or divert any storm water run-on from entering the brine station area.

3. Leach fields - Type and volume of effluents, leach field area and design layout. If non-sewage or mixed flow from any process units or internal drains is, or has been, sent to the leach fields, include dates of use and disposition of septic tank sludges.

Answer – Not applicable, no leach fields are planned.

4. Solids disposal - Describe types, volumes, frequency, and location of on-site solids dried disposal. Typical solids include sands, sludges, filters, containers, cans and drums.

Answer – Routine domestic household type trash or other similar non-domestic waste pursuant to 19.15.35.8 NMAC will be stored in common trash dumpsters that are supplied and picked up routinely by the local waste management trucking company. This waste will be disposed of at a New Mexico Environmental Department permitted solid waste disposal facility.

B. For each of the transfer/storage/disposal methods listed above:

1. Describe the existing and proposed measures to prevent or retard seepage such that ground water at any place of present or future use will meet the WQCC Standards of Section 3-103, and not contain any toxic pollutant as defined in Section 1-101.UU.

Siringo ACS State #1 and Siringo Brine Station Discharge Plan

Answer – All storage tanks at the proposed brine station will be protected by a secondary containment area lined with a 20 mil LLDPE liner. This liner is a smooth, high quality, linear low density polyethylene (LLDPE) geomembrane with excellent chemical resistance, outstanding stress crack resistance, low permeability and excellent UV radiation resistance. This secondary containment area will be capable of holding one-third more than the combination of interconnected tanks within. The 32 foot by 60 foot concrete loading pad will be curbed on the edges and sloped to a grating covered 20" wide by 55' long by 20" deep sump which is constructed in a single pour with the concrete loading pad. This sump will catch any spills/leaks occurring on the loading pad. The sump level will be automated and excess fluids will be pumped through above-ground piping to a 500 bbl steel catch/slop tank located within the secondary containment area. All process piping at the brine station will be installed above-ground.

2. Provide the location and design of site(s) and method(s) to be available for sampling, and for measurement or calculation of flow.

Answer - Samples can be taken either at each individual tank valve, on the load lines or at the wellhead manifold. Fresh water measurement will occur at the brine well near the injection pump and at the brine station sales load line. Brine water measurement will occur at the brine wellhead and at the brine station sales load line. Electronic accumulating flow meters with an accuracy of $\pm 1\%$ will be utilized.

3. Describe the monitoring system existing or proposed in the plan to detect leakage or failure of any discharge system. If ground water monitoring exists or is proposed, provide information on the number, location, design, and installation of monitoring wells.

Answer –The brine station will be controlled by a SCADA system to monitor and manage pressures, flows and upset conditions. Automated alarms and shutdowns are included in this system including communication to responding personnel during unattended operations.

Upon permit approval, a ground water quality monitoring program will be initiated on three existing fresh water wells near the proposed brine well and brine station. These wells are located southeast of the brine well and brine station. These water wells were selected due to their proximity to the facilities and the southeasterly flow of the aquifer. See Attachment "C" for location of the three proposed ground water wells. Water samples from these three wells would be tested quarterly for general chemistry parameters, BTEX and TPH. This would establish the ground water quality over time.

Siringo ACS State #1 and Siringo Brine Station Discharge Plan

C. Off-Site Disposal

If wastewaters, sludges, solids etc. are pumped or shipped off-site, indicate general composition (e.g. waste oils), method of shipment (e.g. pipeline, trucked), and final disposition (e.g. recycling plant, OCD-permitted or domestic landfill, Class II disposal well). Include name, address, and location of receiving facility. If receiving facility is a sanitary or modified domestic landfill show operator approval for disposal of the shipped wastes.

Answer - Routine domestic household type trash or other similar non-domestic waste pursuant to 19.15.35.8 NMAC will be stored in common trash dumpsters that are supplied and picked up routinely by the local waste management trucking company. This waste will be disposed of at a New Mexico Environmental Department permitted solid waste disposal facility. Liquid waste generated onsite, primarily from the sump catch tank, will be transported by third party trucking companies to an approved Class II SWD well permitted by the NMOCD. Any contaminated soil waste will be transported by third party trucking companies to an approved NMOCD surface waste management facility (i.e. Sundance, et al).

D. Proposed Modifications

1. If protection of ground water cannot be demonstrated pursuant to Section B.1. above, describe what modification (including closure) is proposed to meet the requirements of the Regulations. Describe in detail the proposed changes. Provide the information requested in A. and B. above for the proposed modified facility and a proposed time schedule for construction and completion. (Note: OCD has developed specific guidelines for lined surface impoundments that are available on request.)

Answer – This facility will be built after approval of this discharge plan and brine well application. No existing facility now exists that would require current modifications.

2. For ponds, pits, leach fields, etc. where protection of ground water cannot be demonstrated, describe the proposed closure of such units so that existing fluids are removed, and emplacement of additional fluids and run-off/run-on of precipitation are prevented. Provide a proposed time schedule for closure.

Answer - This would be a newly built facility with no ponds, pits, or leach fields in the design.

E. Underground Piping

If the facility contains underground piping, the age and specification (i.e., wall thickness, fabrication material, etc.) of said piping should be submitted. Upon evaluation of such information, mechanical integrity testing of piping may be necessary as a condition for discharge plan approval. If such testing (e.g. hydrostatic tests) has already been conducted, details of the program should be submitted.

Siringo ACS State #1 and Siringo Brine Station Discharge Plan

Answer – This plan would include approximately 6600 feet of new 3" SDR-11 HDPE pipeline for transportation of brine water to be installed between the brine well and the brine station. This SDR-11 HDPE pipe has a 160 psi rating, 0.318" minimum wall thickness, 2.825" ID and 3.500" OD. It ships in 500' or 1000' coils and is seamless pipe that would be thermally fused at the ends. This newly installed pipeline will be hydrostatically pressure tested per the NMOCD's HST Guidelines. Testing frequency would include an initial test at 100% of manufacturer's MAOP during installation and subsequent tests on an annual basis or sooner if leakage is ever suspected. An NMOCD representative can be notified to witness all tests.

This plan also includes approximately 3250 feet of new 3" SDR-11 HDPE pipeline for transportation of fresh water to be installed a minimum of 36" underground between the fresh water source well and the brine well. No fluids other than fresh water are planned to be used in this pipeline.

These two HDPE pipelines would be designed to minimize the use of 90 degree fittings by making turns via long radius sweeps where possible.

F. Inspection, Maintenance and Reporting

1. Describe proposed routine inspection procedures for surface impoundments and other transfer, storage, or disposal units including leak detection systems. Include frequency of inspection, how records are to be maintained and OCD notification in the event of leaks.

Answer – Routine inspections of surface equipment and automation systems would occur daily by an onsite facility supervisor. Inspection logs would be documented and maintained onsite for subsequent review.

2. If ground water monitoring is used to detect leakage or failure of the surface impoundments, leach fields, or other approved transfer/storage/disposal systems provide:

a. The frequency of sampling, and constituents to be analyzed.

Answer – Per WQCC and NMOCD requirements, the brine water would be tested for general chemistry parameters, BTEX and TPH on a quarterly basis. Three nearby ground water wells located southeast of the brine well and brine station would also be tested for the same parameters on a quarterly basis. This would establish the baseline ground water conditions over time. These wells were selected due to their proximity to the facilities and the southeasterly flow of the aquifer. See Attachment "C" for location of the three proposed ground water wells.

b. The proposed periodic reporting of the results of the monitoring and sampling.

Siringo ACS State #1 and Siringo Brine Station Discharge Plan

Answer – We propose that the periodic reporting of both the brine water quality and ground water quality occur annually in the January 31 annual report.

c. The proposed actions and procedures (including OCD notification) to be undertaken by the discharger in the event of detecting leaks or failure of the discharge system.

Answer – The NMOCD would be notified via Form C-141 upon discovery of a leak detection or failure of the discharge system. The brine well would be shut in pending evaluation and correction of the failure or leak.

3. Discuss general procedures for containment of precipitation and runoff such that water in contact with process areas does not leave the facility, or is released only after testing for hazardous constituents. Include information on curbing, drainage, disposition, notification, etc.

Answer – As discussed in section VI.A.2 above, a storm water run-on berm will be installed around the western, northern and eastern side of the brine station to protect from storm water run-on at the brine station. As for run-off, the facility will contain all precipitation that occurs inside the tankage secondary containment. Any rain water collected in this containment area will be vacuumed up and either recycled within the facility or disposed of in an NMOCD approved manner. Heavy rain on the concrete loading pad will be collected into the sump by curbing and pump transferred to the 500 bbl catch tank. Any water collected in this catch tank will be hauled to a Class II SWD well approved by the NMOCD. The well location at the brine well will be contoured so that standing water is not allowed to pond near or around the wellhead. See Attachment "O" for USGS 7.5 minute quadrangle drainage map of the impacted area.

4. Describe methods used to detect leaks and ensure integrity of above and below ground tanks, and piping. Discuss frequency of inspection and procedures to be undertaken if significant leaks are detected.

Answer – Routine visual inspections of surface equipment and automation systems would occur daily by an onsite facility supervisor. Inspection logs will be documented and maintained onsite to insure any necessary repairs are completed and for subsequent review. The buried 6600 foot SDR-11 polyethylene brine pipeline will initially be hydrostatically pressure tested upon installation to insure mechanical integrity. It will be hydrostatically retested annually as long as no leakage is suspected. If leakage is ever suspected, the pipeline would be removed from service and tested. All pipeline tests will be logged into the inspection logs onsite. Storage tanks will be visually inspected internally when emptied for maintenance. Tanks will be visually inspected externally during daily routine inspections.

Siringo ACS State #1 and Siringo Brine Station Discharge Plan

5. Submit a general closure plan describing what actions are to be taken when the facility discontinues operations. These actions must include:

a. Removal of all fluids, contaminants and equipment.

Answer – When the facility permanently discontinues operations, all stored fluids in equipment will be removed and either sold, reused or disposed. All ground contaminants will be recovered and disposed of per State, Federal and local regulations in effect at the time of closure. All surface equipment and infrastructure will be properly removed from the site. Underground pipelines will be flushed with fresh water, capped on both ends and abandoned in place.

b. Grading of facility to as close to the original contour as is practical.

Answer – After all surface equipment and concrete is removed, the brine station surface area and the brine well location will be re-contoured to original slope and reseeded with native grasses.

c. Proper disposal of fluids, sludges and solids pursuant to rules and regulations in effect at the time of closure.

Answer – All disposal of fluids, sludges and solids will be performed per State, Federal and local regulations in effect at the time of closure.

See section X.B for additional closure plan details.

VII. Brine Extraction Well(s)

Insitu brine extraction wells must meet the requirements of Part 5 of the Water Quality Control Commission Regulations in addition to other applicable requirements of WQCC and Oil Conservation Division Rules and Regulations.

A. Drilling, Deepening, or Plug Back Operations

Before drilling, deepening, or plug back operations, the operator of the well must file the following plans, specifications, and pertinent documents with the Oil Conservation Division 90 days prior to start-up of the planned operation.

1. Form C-101 "Application for Permit to Drill, Deepen, or Plug Back" (OCD Rule 1101).

Answer – Forms C-101, C-102 and C-103 for the Siringo ACS State #1 (API #30-025-30701) were submitted to the NMOCD District 1 Office on July 9, 2015. They were approved January 19, 2016.

Siringo ACS State #1 and Siringo Brine Station Discharge Plan

2. A "Notice of Intent to Discharge" in accordance with WQCC regulation 1-201 (New facilities only).

Answer – Llano submitted a formal "Notice of Intent to Discharge" attached to this discharge permit application. When the application is determined by the NMOCD to be administratively complete, the review process starts toward a final discharge permit by the NMOCD.

3. A map showing the number, name, and location of all producing oil and gas wells, injection wells, abandoned holes, surface bodies of water, watercourses, springs, mines, quarries, water wells, and other pertinent surface features within one mile from the wellbore(s).

Answer – See Attachment "D" for a map of the oil/gas wells and fresh water wells within the one mile area of review. This map also indicates the general topography of the area. The area elevation is relatively flat with a slight slope from northwest to southeast. There are no identifiable surface bodies of water, watercourses, springs, mines or quarries within the area of review.

4. Maps and cross-sections indicating the general vertical and lateral limits of all ground water having 10,000 mg/l or less TDS within one mile of the site. Show the position of such ground water within this area relative to the injection formation. Indicate the direction of water movement, where known, for each zone of ground water.

Answer – Underground aquifers in this area are the Ogallala and Quaternary Alluvium formations. The ground water in these formations is unconfined where the underlying red beds are relatively impermeable. This underlying layer prevents further vertical movement within the aquifer. Based on information reviewed, the ground water flow within the Ogallala is generally to the southeast. According to OSE records in the subject section and contiguous 8 sections, water depths range in a band at approximately 50 – 70 feet below ground level with average depth of water wells in this area being 107'. With the base of the reported red beds being at 1547' in the proposed brine well, the nearest ground water would be a minimum vertical distance of 496' above the proposed injection zone. The primary water bearing depth of 50 – 70 feet would be a minimum vertical distance of 1973' above the proposed injection zone. No additional ground water zones are evident in the area.

5. List all abandoned wells/shafts or other conduits in the area of review which penetrate the injection zone. Identify those which may provide a pathway for migration of contaminant through being improperly sealed, completed or abandoned. Detail what corrective action will be taken prior to start-up of operations to prevent any movement of contaminants into ground water of less than/equal to 10,000 mg/l TDS through such conduits due to the proposed

Siringo ACS State #1 and Siringo Brine Station Discharge Plan

injection activity (e.g. plugging open holes). Include completion and plugging records.

If information becomes available after operations have begun, which indicates the presence of a conduit that will require plugging then the injection pressure will be limited to avoid movement of contaminants through such a conduit into protected ground water.

Answer – See Attachment “D” for a map of all oil and gas wells within the area of review that penetrate the injection zone (2043’ – 3253’ MD). There are six plugged and abandoned wells and one permitted, but yet undrilled well in the area of review. They are listed below:

API Well Number	Well Status	Location	TD	Plugs Near Salt
30-025-31473	P&A	G-26-17S-36E	11,150	@ 1504’, 3100’
30-025-03950	P&A	B-26-17S-36E	8,298	@ 774’, 4873’
30-025-20616	P&A	I-22-17S-36E	5,525	@ 2100’, 3300’
30-025-27108	P&A	P-23-17S-36E	5,140	@ 1900’, 3180’
30-025-20775	P&A	D-25-17S-36E	11,305	@ 950’, 4655’
30-025-30110	P&A	B-27-17S-36E	12,355	@ 2945’, 4530’
30-025-42319	Permitted, Not Drilled	L-26-17S-36E	Proposed 8,833 TVD	N/A

All of these plugged wells have cement plugs above and below the salt formation which should eliminate any pathway for migration. The nearest of these offset wells is located ½ mile away from the subject well. Plugging records for these offset wells within the 1 mile area of review are provided in Attachment “G”.

6. Maps and cross-sections detailing the geology and geologic structure of the local area.

Answer – See North-South and East-West cross-sections in Attachment “N”.

7. A proposed formation testing program to obtain an analysis or description of fluids in the receiving formation.

Answer – Llano Disposal proposes to obtain brine well fluid samples at the wellhead manifold quarterly. These samples will be laboratory tested for general chemistry parameters, BTEX and THP. Test results would be reported to the NMOCD during the January 31 annual report.

8. Schematic drawings of the surface and subsurface construction details.

Answer – See Attachment “L” for surface facility and subsurface schematics.

Siringo ACS State #1 and Siringo Brine Station Discharge Plan

9. The proposed drilling, evaluation, and testing, programs. Include logging procedures, coring program, and deviation checks.

Answer – This information exists in NMOCD files. See Attachment “I” for copies. Llano Disposal reports all well completion information via Form C-105 and provide new logs run. In early February, 2016, at the NMOCD’s request, Llano obtained approval and drilled out the top two cement plugs in this well. This allowed a cement bond log to be obtained which indicated the well has good cement behind casing. The lower cement plugs remain in place pending approval of this discharge permit application.

10. The proposed stimulation, injection, and operation procedures (Note WQCC 5-206 limitations).

Answer – No initial stimulation is proposed. Fresh water will be injected down the tubing and circulate brine water up the tubing/casing annulus. The brine water will be transported by pipeline to a nearby brine station and stored in surface tanks for subsequent sale.

11. A plan for plugging and abandonment of the well that meets the requirements of WQCC regulations section 5-209. A plugging bond pursuant to OCD Rule 101 is required prior to commencement of any new well drilling operations.

Answer – The plugging plan includes swabbing approximately one foot of water out of the cavern, removing the tubing string, then setting a cast iron bridge plug at 10 feet above the casing shoe and filling the casing with a Class C high strength salt resistant cement. The wellhead will be cut off and a dry hole marker installed. Llano Disposal currently has single well plugging bond number RLB0016073 issued by RLI Insurance Company accepted and approved by the NMOCD. However, as discussed in section X.C below, additional bonding will be required for adequate well plugging, surface restoration and surface subsidence monitoring. Llano will obtain additional bonding as outlined in section X.C.

B. Workover Operations

Before performing remedial work, altering or pulling casing, plugging or abandonment, or any other workover, approval of OCD must be obtained. Approval should be requested on OCD Form C-103 "Sundry Notices and Reports on Wells" (OCD Rule 1103-A).

Answer – Llano will file Notice of Intent C-103 prior to future workover operations.

C. Additional Information Required with Discharge Plan

In addition to all of the information required above in Part VII.A. (Drilling, Deepening, or Plug Back Operations), include the following with your discharge plan application.

Siringo ACS State #1 and Siringo Brine Station Discharge Plan

1. Provide evaluation, completion and well workover information. Include all logs, test results, completion reports and workover descriptions.

Answer – Please see Attachment “I” for the drilling, completion and testing reports to-date by the previous operator. Llano Disposal will file C-103 NOI's prior to and Subsequent Notice C-103s following any downhole work. Llano will also file form C-105 reports after completion operations have been performed.

2. Provide the proposed maximum and average injection pressures and injection volume. If one well is to be used for injection and extraction, fresh water must be injected down the annulus and brine must be recovered up the tubing. Reverse flow will be allowed for up to once a month for 24 hours for clean out. If an alternative operating method is desired then a written request must be submitted to the OCD which describes the proposed operating procedures and how the mechanical integrity of the casing will be guaranteed.

Answer – Llano proposes to inject fresh water down the tubing and circulate brine water up the tubing-casing annulus. Below are our proposed injection pressures and volumes which are well below the fracture gradient of 0.75 psi/ft:

Maximum injection pressure – 408 psi

Average injection pressure – 250 psi

Maximum injection volume – 1900 BWPD

Average injection volume – 1550 BWPD

3. Submit a proposed mechanical integrity testing program. OCD requires a casing pressure test isolating the casing from the formation using either a bridge plug or packer prior to start of operation, and repeated at least once every five years or during well work over. In addition, OCD requires an open hole pressure test to 500 PSI for 4 hours on an annual basis.

Answer – Llano proposes to test the casing to 300 psi using a packer or bridge plug during completion operations. Additionally, Llano proposes to pull production tubing and run a packer or bridge plug to test the casing to 300 psi at intervals of five years or less. NMOCD personnel will be notified in advance for witnessing. Concerning the open hole pressure test, Llano believes 500 psi surface pressure is too much pressure to put on the well/cavern. We propose to perform this annual test at 300 psi surface pressure for 4 hours. This would minimize the intensity of sudden pressure surges and releases which may cause damage to the formation.

4. Provide an analysis of the injection fluid and brine. Include location and design of site(s) and method(s) of sampling. Analysis will be for concentrations of Total Dissolved Solids, Sodium, Calcium, Potassium, Magnesium, Bromide, Carbonate/Bicarbonate, Chloride and Sulfate.

Siringo ACS State #1 and Siringo Brine Station Discharge Plan

Answer – When the brine well is in operation, fresh water and brine samples can be taken from sample ports at the wellhead or at the brine station load line. Brine samples can also be taken from these same locations. Recently Llano sampled two fresh water wells within the area of review. These tests represent the aquifer quality in the area of review. These test results are included in Attachment “J”.

5. Compare volumes of fresh water injected to volume of brine to detect underground losses and specify method by which volumes are determined. After approval, submittal of a quarterly report listing, by month, the volume of fluids injected and produced will be required.

Answer – Llano proposes to measure both fresh water injected and brine water produced by installing individual electronic flow meters with totalizers on the brine well manifold. The totalizer volumes will be recorded monthly and provide the records for evaluating underground losses. If the volumes exceed a 10% tolerance, the NMOCD would be notified and the discrepancy would be investigated.

6. For renewal application for facilities in operation in excess of 15 years, provide information on the size and extent of the solution cavern and geologic / engineering data demonstrating that continued brine extraction will not cause surface subsidence of catastrophic collapse.

Answer – Llano would address this section during future renewal application processes as operational experience with the formation in this well is gathered.

VIII. Spill/Leak Prevention and Reporting Procedures (Contingency Plans)

It is necessary to include in the discharge plan submittal a contingency plan that anticipates where any leaks or spills might occur. It must describe how the discharger proposes to guard against such accidents and detect them when they have occurred. The contingency plan also must describe the steps proposed to contain and remove the spilled substance or mitigate the damage caused by the discharge such that ground water is protected, or movement into surface waters is prevented. The discharger will be required to notify the OCD Director in the event of significant leaks and spills. This commitment and proposed notification threshold levels must be included in the contingency plan.

A. Prevention

Describe how spills and leaks will be prevented at the facility. Include specifically how spillage/leakage will be prevented during truck loading and at major transfer points within the facility. Discuss general "housekeeping" procedures for areas not directly associated with the above major processes.

Siringo ACS State #1 and Siringo Brine Station Discharge Plan

Answer – See the Emergency Contingency and Response Plan in Attachment “K” for proposed actions to spill/leak prevention and general housekeeping actions.

B. Containment and Cleanup

Describe procedures for containment and cleanup of major and minor spills at the facility. Include information as to whether areas are curbed, paved, and drained to sumps; final disposition of spill materials; etc.

Answer – Spills will be contained by secondary containments around the brine station tanks. Spills at the loading pad will be contained in the concrete sump then pumped to a catch tank located inside the lined secondary containment. The concrete loading pad will be curbed to direct flow of spills to the sump. The liquid spills recovered in the catch tank will be trucked to a Class II disposal well permitted by the NMOCD.

C. Notification

Propose a schedule for OCD notification of spills. The OCD requires the discharger to notify the director within 48 hours of the detection or suspected detection of a spill, and provide subsequent reports as required.

Answer – See Attachment “K” for the NMOCD notification plan listed within the proposed facility contingency plan.

IX. Site Characteristics

A. The following hydrologic/geologic information is required to be submitted with all discharge plan applications. Some information already may be included in this application or may be on file with OCD and can be provided to the applicant on request.

1. Provide the name, description, and location of any bodies of water, streams (indicate perennial or intermittent), or other watercourses (arroyos, canals, drains, etc.); and ground water discharges sites (seeps, springs, marshes, swamps) within one mile of the outside perimeter of the facility. For water wells, locate wells within one mile and specify use of water (e.g. public supply, domestic, stock, etc.).

Answer – Due to the flat nature of the terrain within the 1 mile area of review, there are no bodies of water, streams, arroyos, canals, drains, seeps, springs, marshes or swamps evident. Six fresh water wells have been identified on the ground and via the OSE data base. Three of them are utilized for cattle production and three are used for domestic household supply by the landowner who is also the principal owner of Llano Disposal, LLC. See Attachment “D” for location of these water wells.

Siringo ACS State #1 and Siringo Brine Station Discharge Plan

2. Provide the depth to and total dissolved solids (TDS) concentration (in mg/l) of the ground water most likely to be affected by any discharge (planned or unplanned). Include the source of the information and how it was determined. Provide a recent water quality analysis of the ground water, if available, including name of analyzing laboratory and sample date.

Answer – New water samples were obtained from two water wells within the 1 mile area of review. See Attachment “J” for test results. The results for the well titled “House”, is located west of the subject brine well and used for domestic household supply by the principal owner of Llano Disposal, LLC. The results for the well titled “Windmill” is located east of the subject brine well and used for cattle production. OSE data base indicates the average depth to water in the area of review is 50 – 70 feet.

3. Provide the following information and attach or reference source information as available (e.g. driller's logs):

a. Soil type(s) (sand, clay, loam, caliche);

Answer – Soil types are alluvium sand, red beds and anhydrite per C-105 Formation data on wells within the 1 mile area of review.

b. Name of aquifer(s);

Answer – Ogallala and Quaternary Alluvium formations

c. Composition of aquifer material (e.g. alluvium, sandstone, basalt, etc.); and

Answer – Alluvium medium sand.

d. Depth to rock at base of alluvium (if available).

Answer - The aquifer is generally located at a depth of 50 – 70 feet in this area. There is an underlying impermeable red bed layer that prevents further vertical movement within the aquifer. Red beds are evident immediately below the aquifer and extend for a depth of about 1550' across the area of review.

4. Provide information on:

a. The flooding potential at the discharge site with respect to major precipitation and/or run-off events; and

Answer – The area of review is not listed as a Flood Plain by FEMA. Average annual rainfall for this site is 10-12” per year. There is a very slight slope northwest to southeast across the area of review. The area could be

Siringo ACS State #1 and Siringo Brine Station Discharge Plan

occasionally inundated with locally heavy rainfall, but it is very unlikely that storm water runoff events from other areas would impact the proposed site. New Mexico Highway 483 runs north/south on the western edge of the proposed site. This highway with developed barrow ditches helps control runoff events coming from the west and northwest.

b. Flood protection measures (berms, channels, etc.), if applicable.

Answer – The brine station will have a storm water runoff berm installed on the uphill western and northern edges plus the eastern edge of the site. This berm should direct any approaching runoff events away from the station. The brine well location will be graded so that rain water will not pond around the well head.

B. Additional Information

Provide any additional information necessary to demonstrate that approval of the discharge plan will not result in concentrations in excess of the standards of WQCC Section 3-103 or the presence of any toxic pollutant (Section 1-101.UU.) at any place of withdrawal of water for present or reasonably foreseeable future use. Depending on the method and location of discharge, detailed technical information on site hydrologic and geologic conditions may be required to be submitted for discharge plan evaluation. Check with OCD before providing this information. However, if required it could include but not be limited to:

1. Stratigraphic information including formation and member names, thickness, lithologies, lateral extent, etc.

Answer – The location of the proposed brine well is near the geologic region known as the San Simon Channel of the Permian Basin. This channel separated the Central Basin Platform from the Northwestern Shelf during Leonardian and early Guadalupian times. The subsurface formations are transitional between the Northwestern Shelf, Central Basin Platform and the Midland Basin. The brine well target formation is the Salado formation of the Ochoa series. This series is part of the upper Permian Age and extends across the Delaware Basin and Central Basin Platform. It thins and finally pinches out on the eastern shelf. Layers in this series are predominately evaporates which contain strings of dolomite, shale, siltstone and sandstone. The thickness of the salt section averages around 1000'. The Triassic rock overlying the Permian formations is the Dockum group and is divisible into the Santa Rosa sandstone and Chinle formations. The Tertiary rocks are represented by the Ogallala formation and ranges in thickness from 0' to 300' within this general area. It is primarily made up of calcareous, unconsolidated sand, clay, silt and gravel. This formation is the primary ground water source within this area. See Attachment "M" for area geology and general lithology.

Siringo ACS State #1 and Siringo Brine Station Discharge Plan

2. Generalized maps and cross-sections;

Answer – See a map and cross-section in Attachment “M”.

3. Potentiometric maps for aquifers potentially affected;

Answer – No potentiometric maps were found for this water basin in Lea County.

4. Porosity, hydraulic conductivity, storativity and other hydrologic parameters of the aquifer;

Answer – No pumping tests, slug tests or constant-head tests were performed. However, values for these parameters were calculated using standard variables for an unconfined aquifer with medium sand as the aquifer material. Results are:

Porosity – 29-49%

Hydraulic Conductivity – 305 gal/day/ft²

Storativity – 0.2

Specific Yield – 32%

Specific Retention – 3%

5. Specific information on the water quality of the receiving aquifer; and

Answer – The receiving formation is the Salado Formation (salt) which is not an aquifer. The Salado Formation is generally a solid formation with no in situ water evident. There are no records in the well file indicating that the Salado formation contained any water when this well was drilled.

6. Information on expected alteration of contaminants due to sorption, recipitation or chemical reaction in the unsaturated zone, and expected reactions and/or dilution in the aquifer.

Answer – The surface in the area of review is grassland utilized for cattle production. Other than animal waste, there are no contaminants or man-made agricultural chemicals utilized on this surface. The proposed brine well operation will include minimal man-made chemicals which will have secondary containment protection. Brine storage tanks will also have secondary containment protection. Infiltration of contaminants through the unsaturated or vadose zone to the aquifer is not expected during the proposed brine well operation. Additionally, no alteration of contaminants due to sorption, recipitation or chemical reaction in the unsaturated zone is expected. Finally, no reactions and/or dilution in the overlying aquifer are expected from brine operations.

X. Other Compliance Information

Attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders. Examples include previous Division orders or letters authorizing operation of the facility or any surface impoundments at the location.

Siringo ACS State #1 and Siringo Brine Station Discharge Plan

Answer – A C-108 Application to Inject has been prepared and will be submitted to the NMOCD Engineering Bureau with this proposed Discharge Plan. Additionally, new forms C-101, C-102 and C-103 for the subject well have already been approved by the NMOCD District 1 Office.

A. Surface Subsidence Monitoring

To monitor potential changes in surface conditions at the proposed brine well, Llano proposes to establish three surface subsidence monuments suitable for three dimensional surface monitoring as well as establishing an X, Y, and Z position on the proposed brine well. The monuments will be Berntsen's 9/16" stainless steel floating sleeved rod monuments (see Attachment "P") which are well suited for monitoring positional changes in the ground surface. The monuments are designed so that frost heave and swelling and shrinking soil conditions have no effect on the stainless steel rod on which measurements will be made. A location point on the well will be established so that the well itself will be used as a fourth subsidence monument. Rod monuments will be installed in a triangular configuration around the brine well wellhead at a maximum distance of 150 feet from the well.

1. Monument Installation Procedure

A 12" diameter hole will be augered to a depth of about 3-1/2 feet. The stainless steel rod will be manually driven into the ground, a section at a time, to a depth of 8 feet. The top of the rod would be about 6" below ground level. A finned floating sleeve (filled with NO-TOX grease) is placed over the rod and the datum point added on the rod end. A 6" diameter x 42" long PVC pipe conduit with access cover glued to top end is then placed over the finned sleeve. The inside of the PVC conduit is then filled with fine sand to a level about 3" below the top of the rod. The outside of the PVC conduit will be filled with sand to about 1 foot below ground level, then concrete will be placed from 1 foot depth to ground level.

2. Annual Subsidence Surveys

The survey contractor will use modern survey equipment to establish X, Y, Z positions on the surface subsidence monuments on an annual basis. Survey grade GPS equipment will be utilized to establish the horizontal position of each subsidence monument relative to the New Mexico Coordinate System North American Datum 1983 (2007). Using Static and Fast Static observations the expected horizontal accuracy of the GPS equipment as established by the manufacturer for the subsidence monuments is ± 0.01 ft. A digital level will be utilized to establish the vertical position of the surface subsidence monuments relative to the North American Vertical Datum of 1988 (NAVD88). Using differential leveling techniques the expected vertical accuracy of the equipment as established by the manufacturer for the subsidence monuments is ± 0.01 ft.

Siringo ACS State #1 and Siringo Brine Station Discharge Plan

The initial survey will be conducted prior to first injection into the proposed brine well. This survey will establish horizontal and vertical coordinate baseline values on the three monuments and the well. Additional surveys will be performed annually in order to compare coordinate values checking for movement in the monuments and well. After cease of operations of the proposed brine well, annual surface subsidence surveys will be conducted for a minimum of five additional years. Reports of these surveys will be submitted to the NMOCD in the annual (January 31) operating report.

B. Closure Plan

Upon cease of operations and after regulatory approval, Llano will plug and abandon the brine well, remove all surface equipment, restore the surface to original contour and reseed it with native grasses. In addition, Llano will continue surface subsidence monument surveys for a minimum of 5 years after well plugging.

1. Well Plug and Abandonment

The brine well will be plugged and abandoned per WQCC regulations section 5-209 and NMOCD rules in place at that time. As discussed in Section VII.A.11 above, the plugging plan includes swabbing approximately one foot of water out of the cavern, removing the tubing string, setting a cast iron bridge plug at 10 feet above the casing shoe and filling the casing with a Class C high strength salt resistant cement. The wellhead will be cut off and a dry hole marker installed. Over time, large portions of the resulting salt cavern will re-solidify.

2. Surface Restoration

All surface equipment at the brine well location and brine station will be emptied, decommissioned and removed either through recycle, scrapping, sale or used by the owner elsewhere. The disturbed surface at the well location and brine station will be reclaimed and re-contoured to near original condition. The disturbed area will be reseeded with a BLM grass seed mixture to establish 70% minimum regrowth coverage.

3. Surface Subsidence Monitoring

The annual surface subsidence monitoring program discussed in section X.A.2 above will be continued for a minimum of 5 years following plugging and abandonment of the brine well.

C. Financial Assurance Plan

Llano currently has a single well plugging bond for the proposed brine well approved by the NMOCD in the amount of \$10,450. However, Llano proposes to provide financial assurance for the Siringo Brine Well and Station via a single surety bond in the amount of \$102,836 covering well plugging and abandonment, surface restoration and surface subsidence monitoring for 5 years after ceasing operations as detailed below. Upon acceptance and approval by the NMOCD/WQCC of this

Siringo ACS State #1 and Siringo Brine Station Discharge Plan

\$102,836 bond that is in place, Llano will keep it active for the duration of the well.

1. Well Plugging - \$39,500

Based on recently obtained bids and experience in plugging wells, Llano proposes a well plugging bond amount of \$39,500. See cost breakdown below.

\$16,569	Well plugging contractor labor/equipment including cement
\$8,500	Equipment rental (workstring, flowback tanks, BOPE, porta-john, etc)
\$4,500	Transportation of equipment
\$3,000	Supervision
\$2,600	Purchase/transportation of brine and fresh water
\$2,000	Disposal of tank fluids
\$1,200	Excavate/cutoff wellhead and anchors; weld on flat plate and PxA marker
\$1,131	Miscellaneous

2. Surface Restoration - \$45,336

Based on recently obtained surface restoration cost quotes, these costs total \$45,336 as detailed below:

\$8,000	Equipment/Labor – washout tanks for disposal, haul fluids and solids to disposal
\$2,100	Backhoe/Labor - 2 days to crush fiberglass tanks and PVC components at brine station
\$2,400	35 Yd Roll-off Dumpsters - delivery, rental and hauling to landfill
\$536	Lea County Landfill Charges – 3 ea 35 yd dumpsters = 105 cy x 300 lbs = 15.75 tons @ \$34/ton
\$1,600	Onsite Supervision
\$19,100	Equipment/Labor – pull all fencing, remove all concrete, disassemble all metal components, re-contour land to original grade, rebuild barbed wire fence to original ranch configuration, remove underground piping, electrical conduit, wiring, high line poles, wiring and signage
\$2,200	Trucking/Disposal – of concrete to Lea County Landfill @ \$34/ton
\$3,500	Trucking – haul metal components to Hobbs Iron & Metal for recycle
\$4,500	Decommission buried polyethylene brine pipeline - costs include fresh water, trucking and pumping to wash pipeline clean and disposal of brine and wash water, then leave pipeline in place for ranching, fresh water sales use
\$1,400	Reseeding BLM mix grass on estimated 2 acres at well location and brine station

3. Surface Subsidence Monitoring - \$18,000

Based on recently obtained surface subsidence survey cost quotes, these costs total \$18,000 for 5 years of follow-on subsidence monument monitoring. Cost estimate is \$1200 per year per monument surveyed. Annual cost to survey three monuments is \$3600 per year or \$18,000 for 5 years.

D. Notification Plan

Pursuant to 20.6.2.3108 NMAC, Llano Disposal proposes the following public notice plan to be implemented within 30 days upon the department's determination that the discharge permit application is deemed administratively complete.

Siringo ACS State #1 and Siringo Brine Station Discharge Plan

1. Public Notice Onsite Signage (minimum 2' x 3' size) Pursuant to 20.6.2.3108.B.1 NMAC

Llano will install one (1) sign meeting the above requirements in both English and Spanish to be located on private land adjacent to the eastern right-of-way of Hwy 483 (Arkansas Jct) at the southwest corner of Section 27, T17S, 36E. This site is approximately 900 feet west of the proposed brine station location. This notice will be posted for a minimum of 30 days. The proposed text on this sign is included in Attachment "Q".

2. Public Notice Offsite Pursuant to 20.6.2.3108.B.1 NMAC

Llano will post a notice of the discharge application in English and Spanish on a public bulletin board in the Lea County Courthouse. This notice will be posted for a minimum of 30 days. The proposed text of this notice is included in Attachment "R".

3. Notice to Adjoining Property Owners Pursuant to 20.6.2.3108.B.2 NMAC

Llano will provide written notice of the discharge application in English by certified mail, return receipt requested, to owners of record of all properties adjacent to the property owned by the discharger. There are seven adjacent property owners identified in property tax records. The proposed text of these notices, attachments and a listing of the owners are included in Attachment "S".

4. Notice to the Property Owner of the Discharge Site Pursuant to 20.6.2.3108.B.3 NMAC

Notice to the landowner is not required since the owner of Llano is also the owner of the discharge site surface property. Although the surface ownership is private land, the mineral ownership is State of New Mexico owned. Llano will provide written notice in English by certified mail, return receipt requested, to the New Mexico State Land Office, the mineral owner of the discharge site. In addition, Llano will notice the current mineral lessee of the State owned minerals since there are no offset wells within 1/3 mile of the proposed class III brine well. As of April 20, 2016, the State mineral lessee of record is Devon Energy Production Co, LP. Llano will provide written notice in English to Devon by certified mail, return receipt requested. Text of both of these letters is included in Attachment "S".

5. Public Notice Newspaper Display Ad (minimum 3" x 4") Pursuant to 20.6.2.3108.B.4 NMAC

Llano will publish one (1) newspaper advertisement meeting the above requirements in both English and Spanish in the "Lovington Leader", a

Siringo ACS State #1 and Siringo Brine Station Discharge Plan

newspaper of general circulation nearest the location of the proposed discharge. The proposed text of these newspaper advertisement notices is included in Attachment "T".

6. Proof of Notice Pursuant to 20.6.2.3108.D NMAC

Within 15 days of completion of public notice requirements listed above, Llano will submit to the department proof of notice, including an affidavit of mailings and the list of property owners, proof of publication in the newspaper, and an affidavit of public posting onsite the discharge location and offsite in the Lea County Courthouse.

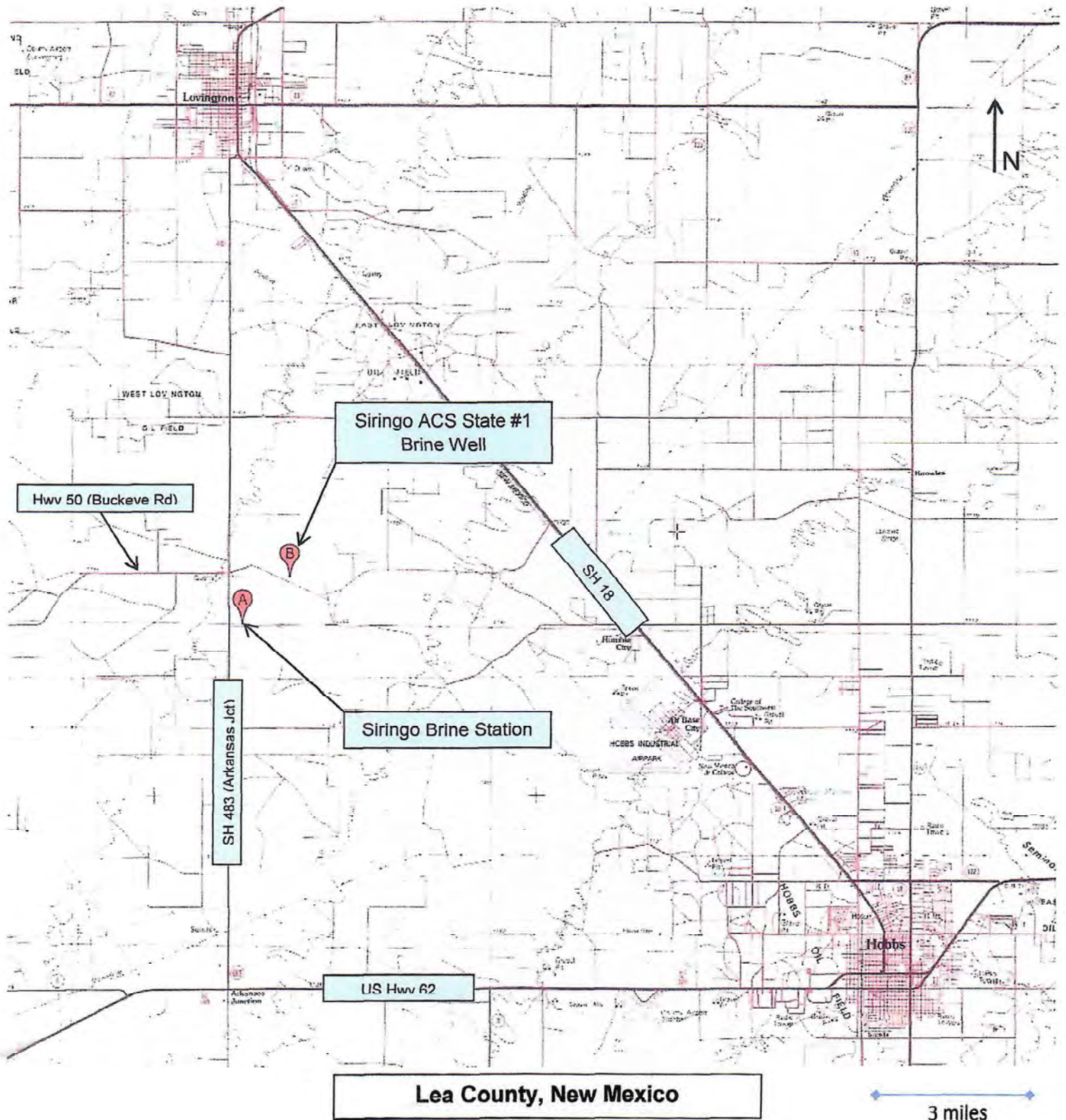
Llano Disposal, LLC
Siringo ACS State #1
Discharge Plan

Attachment Index

Attachment	Description
A	Overview Map of General Area
B	USGS Topo Map of Area
C	Aerial Photo with Ground Water Monitor Wells
D	1 Mile Area of Review with Oil/Gas Wells and Fresh Water Wells
E	Brine Well Location Site Plan
F	Brine Station Site Plan
G	Plugging Records for Offset Wells Within the 1 Mile Area of Review
H	MSDS for Corrosion Inhibitor Utilized on Brine Well Location
I	NMOCD Drilling, Comp, P&A Records for Siringo ACS State #1
J	Water Analysis Test Results on Area Fresh Water Wells
K	Siringo Emergency Contingency and Response Plan
L	Schematics for Brine Station, Brine Well Location and Brine Well
M	Area Geology Map and General Lithology
N	Cross-sections of Geologic Structure at Siringo ACS State #1
O	USGS Drainage Map of Project Area
P	Subsidence Monument Design and Installation Procedure
Q	Public Notice for Onsite Sign Posting
R	Public Notice for Offsite Posting (Lea County Courthouse)
S	Public Notice Letters to Adjoining Property Owners, SLO, Mineral Lessee
T	Public Notice in Lovington Leader Newspaper

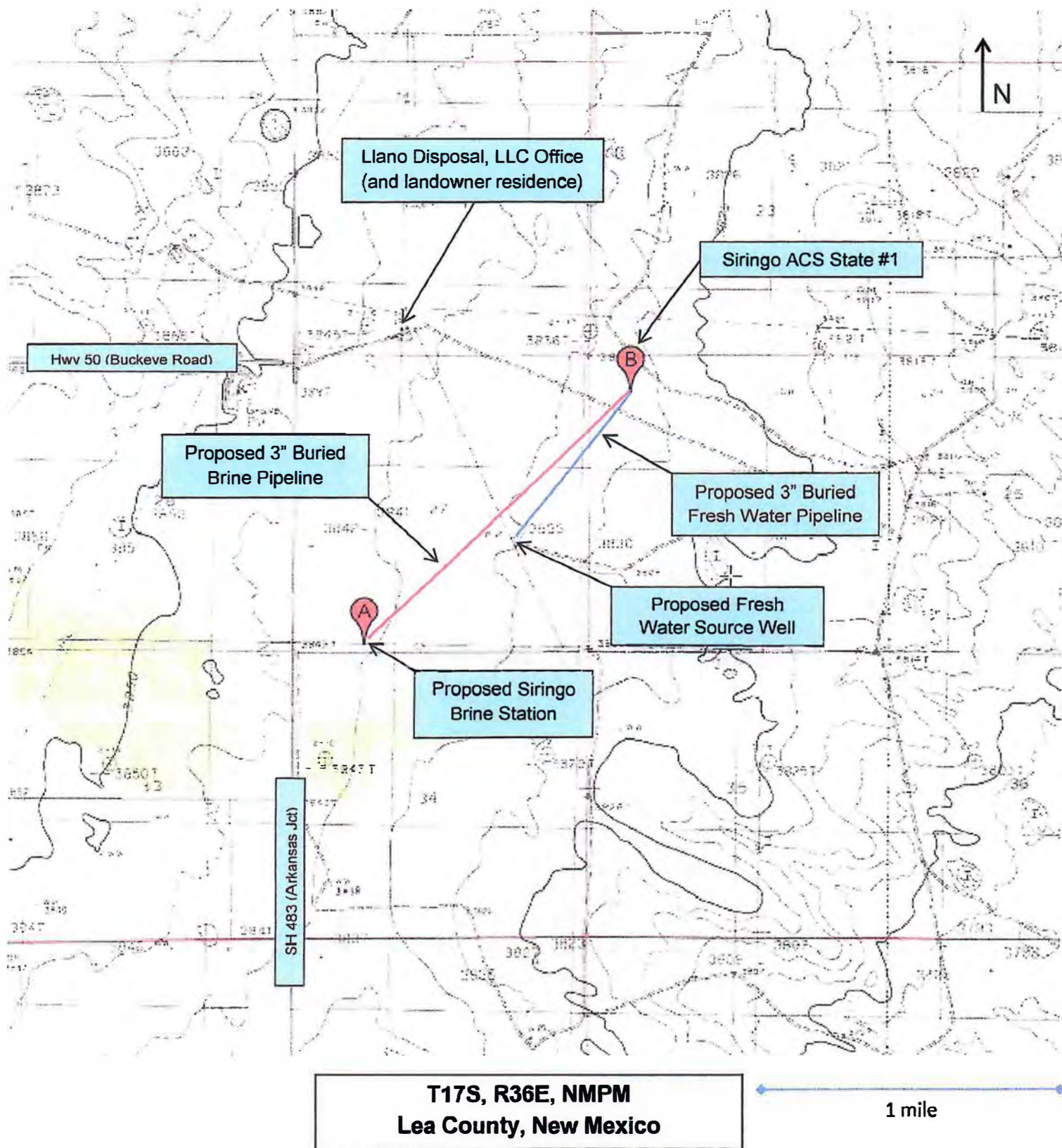
Siringo ACS State #1
API # 30-025-30701
Discharge Plan Attachments

Attachment A – General Area Overview Map



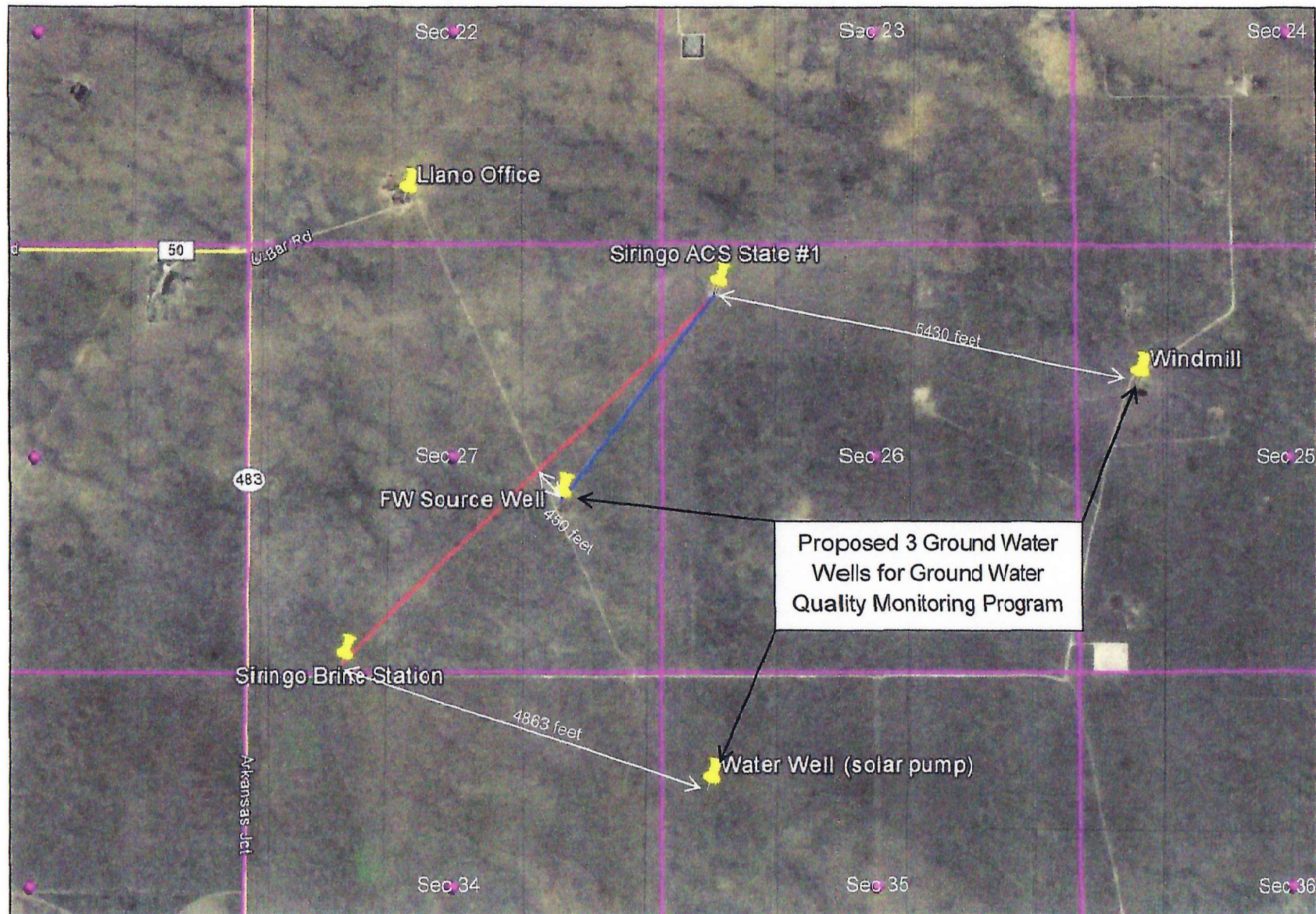
Siringo ACS State #1
API # 30-025-30701
Discharge Plan Attachments

Attachment B – Area USGS Topo Map



Siringo ACS State #1
API # 30-025-30701
Discharge Plan Attachments

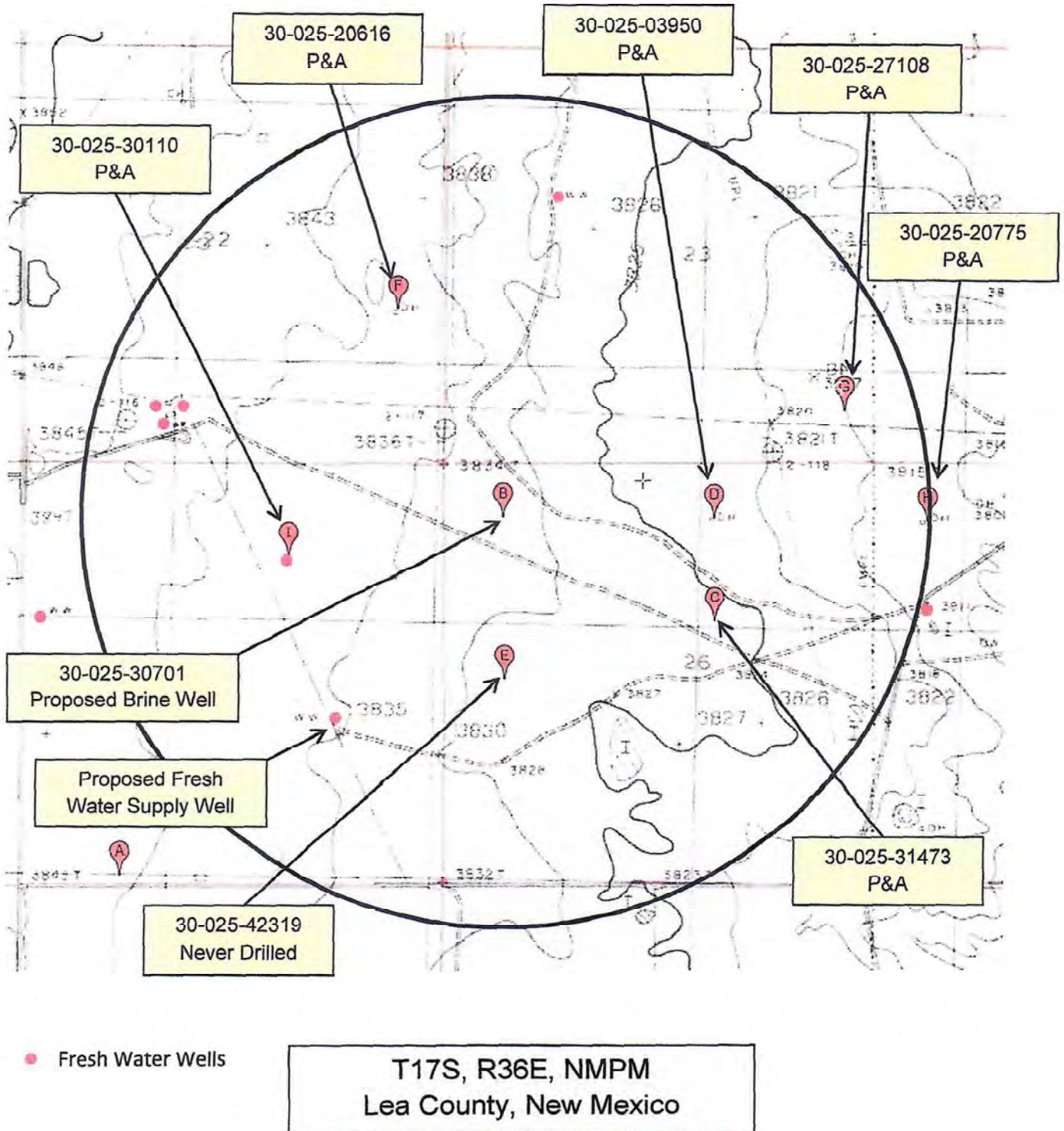
Attachment C – Aerial Photo with Ground Water Monitoring Wells



**T17S, R36E, NMPM
Lea County, New Mexico**

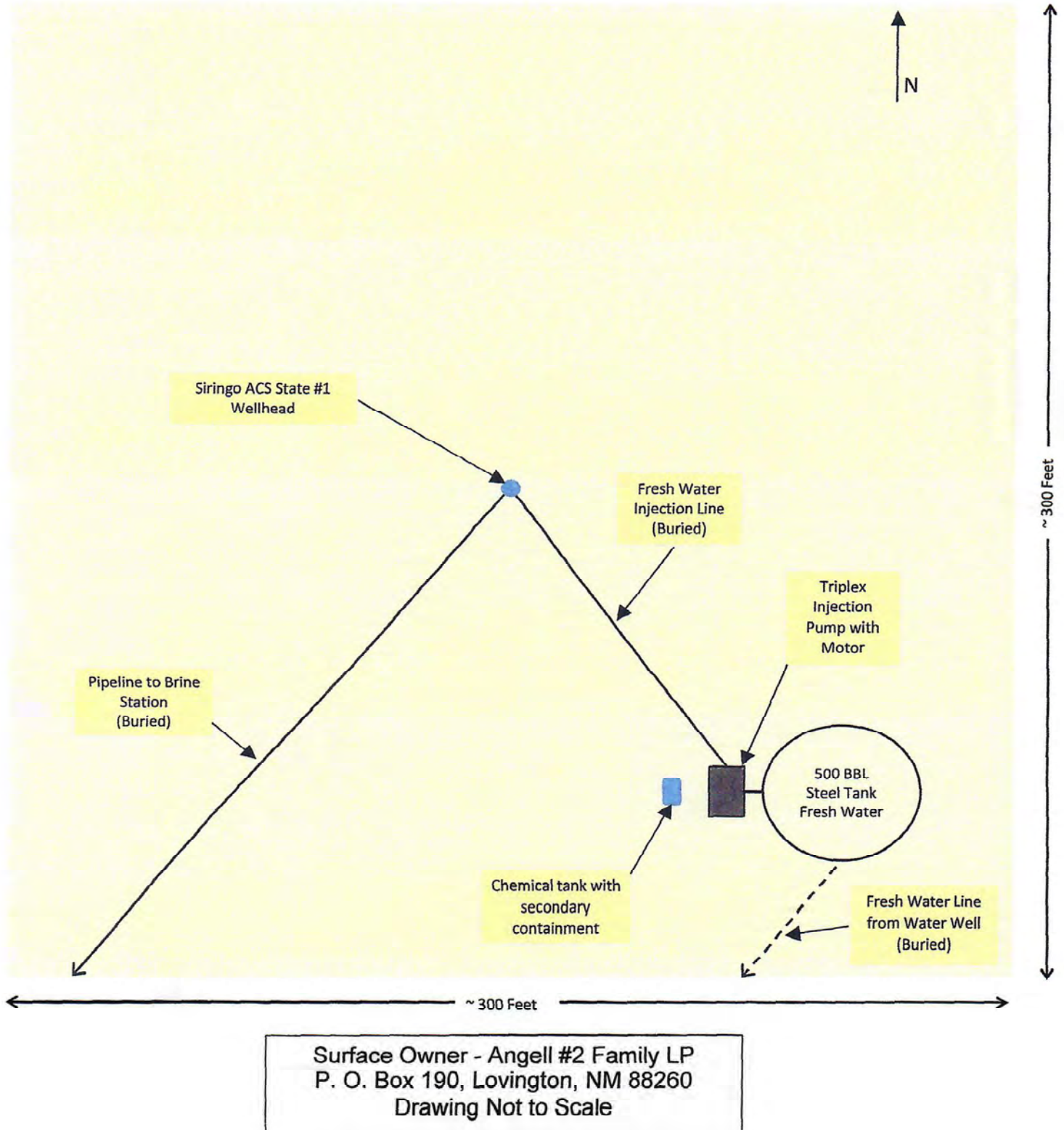
Siringo ACS State #1
API # 30-025-30701
Discharge Plan Attachments

Attachment D – 1 Mile AOR with Oil/Gas Wells and Fresh Water Wells



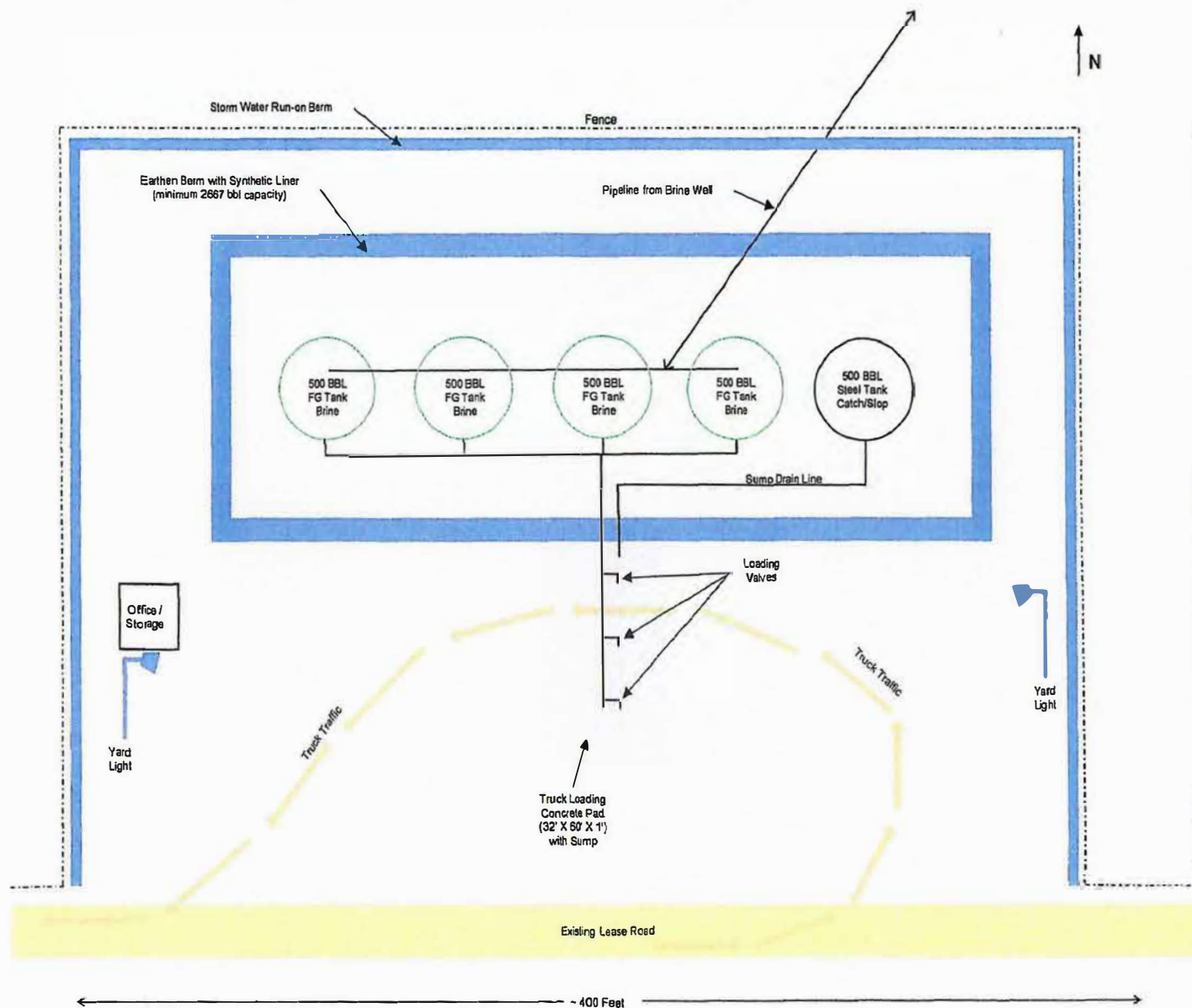
Siringo ACS State #1
API # 30-025-30701
Discharge Plan Attachments

Attachment E – Well Location Site Plan



Siringo ACS State #1
 API # 30-025-30701
 Discharge Plan Attachments

Attachment F – Brine Station Site Plan



Surface Owner - Angell #2 Family LP
 P. O. Box 190, Lovington, NM 88260
 Drawing Not to Scale

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.
30-025-31473

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

V-3762

7. Lease Name or Unit Agreement Name

Persians 26 State

8. Well No.

9. Pool name or Wildcat
Spencer (Penn)

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS)

1. Type of Well

OIL

WELL ☒

GAS

WELL ☐

OTHER ☐

2. Name of Operator

Miralo, Inc.

3. Address of Operator

P. O. Box 832, Midland, TX 79702

4. Well Location

Unit Letter G : 1980 Feet From The East Line and 1980 Feet From The North Line

Section 26 Township 17S Range 36E NMPM Tea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

3827'

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

REMEDIAL WORK ☐

ALTERING CASING ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

COMMENCE DRILLING OPNS. ☐

PLUG AND ABANDONMENT ☒

PULL OR ALTER CASING ☐

CASING TEST AND CEMENT JOB ☐

OTHER ☐

OTHER ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

2-3-93 PU & GIH w/ 15# jts tbg CIBP @ 10,010. Mix & circ 10# mud laden fluid. Jack Griffin, OCD on location.
2-4-93 POH w/ 2 7/8" tbg to 7512'. Load hole w/10# mud laden fluid. Mix & pump 25 sx Cl. "C" cement & displace w/43 bbls. 10# mud. RU WL. Set CIBP @ 4900' & dump 35' cement on top of plug.
GIH w/ 2 7/8" tbg to 4800'. Load & circ hole w/10# mud laden fluid. Pull tbg up hole to 4500'.
2-5-93 Pump 25 sx Cl. "C" cement @ 4537'. Displace hole w/26 bbls 10# mud laden fluid. RU WL.
GIH w/GI charge & cut csg @ 3137'. TOH w/76 jts 5 1/2" csg. GIH w/100 jts 2 7/8" tbg to 3172'.
Pump 50 sx Cl. "C" cement plug @ csg stub 50' in & 50' out. Buddy Hill, OCD witnessed 1st plug.
2-8-93 GIH w/20 jts. 2 7/8" tbg. Tag csg stub plug @ 3078'. OCD rec ok'd. Pumped 50 sx plug @ 1504'. Displaced hole w/8.5 bbls 10# mud laden fluid. TOH in singles. Pumped 50 sx plug @ 450'. Displaced hole w/2.5 bbls 10# mud laden fluid. TOH in singles. Cut 13 3/8" + 8 5/8" wellheads off. Set 5 sx plug @ surface. Installed dry hole marker. Cut off dead men. Well P & A'd.

I hereby certify that the information above is true and complete to the best of my knowledge and belief

SIGNATURE

Dorothea Owens

TITLE

Agent

DATE

February 16, 1993

TYPE OR PRINT NAME

Dorothea Owens

TELEPHONE NO. 915 684-74411

(This space for State Use)

APPROVED BY

[Signature]

TITLE

DATE

MAR 25 1993

CONDITIONS OF APPROVAL, IF ANY

ATTACHMENT "G"

Page 1 of 7

ATTACHMENT "G"

Form C-103
(Revised 3-55)

Page 2 of 7
NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS

30-025-03950

(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY Monsanto Chemical Company P. O. Box 492, Snyder, Texas
(Address)

LEASE State OK WELL NO. 1 UNIT B S 26 T 17 S R 36 E

DATE WORK PERFORMED 9-13-57 POOL Undesignated
Lea County, New Mexico

This is a Report of: (Check appropriate block) ☐ Results of Test of Casing Shut-off
☐ Beginning Drilling Operations ☐ Remedial Work
☒ Plugging ☒ Other Drill Stem Test

Detailed account of work done, nature and quantity of materials used and results obtained.
9-12-57 DST #3 8114 to 8298, Recovered 4050' Brackish Sulfur Water, FP 425#-1995#, SIP
(30 min.) 2225#.

9-13-57 Plugged and abandoned well - cement plugs as follows:

8162-8298 w/40 sxs., total depth 8298
6062-6190 w/40 sxs.
5175-5365 w/60 sxs.
4873-4923 w/20 sxs., bottom of 9-5/8" csg. @ 4898'.
729-779 w/30 sxs., Rec. 754' 9-5/8" csg. T/Salt @ 2130'
291-341 w/40 sxs., bottom of 13-3/8" csg. @ 316'
0-30 w/30 sxs.

A 4" pipe marker extending 4' above ground w/location description and name was placed in top of well.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____

Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____

Peri Interval (s) _____

Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:

BEFORE

AFTER

Date of Test _____

Oil Production, bbls. per day _____

Gas Production, Mcf per day _____

Water Production, bbls. per day _____

Gas Oil Ratio, cu. ft. per bbl. _____

Gas Well Potential, Mcf per day _____

Witnessed by T. H. Foster, Prod. Foreman

Monsanto Chemical Company
(Company)

OIL CONSERVATION COMMISSION

I hereby certify that the information given above is true and complete to the best of

30-025-20616

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103
(Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

Name of Company Campana Petroleum Company		Address P.O. Box 1652, Midland, Texas					
Lease Bumble - State	Well No. 1	Unit Letter I	Section 22	Township 17-S	Range 36-E		
Date Work Performed July 1, 1964	Pool Wildcat		County Lea				
THIS IS A REPORT OF: (Check appropriate block)							
<input type="checkbox"/> Beginning Drilling Operations		<input type="checkbox"/> Casing Test and Cement Job		<input type="checkbox"/> Other (Explain)			
<input checked="" type="checkbox"/> Plugging		<input type="checkbox"/> Remedial Work					
Detailed account of work done, nature and quantity of materials used, and results obtained.							
<p>T. D. 5525 Dolomite. Plugged and abandoned well as follows:</p> <p>Spotted 40 sack plug 5300 to T. D. across San Andres. Spotted 25 sack plug 3300 to 3400 across base of Salt. Spotted 25 sack plug 2000 to 2100 across top of Salt. Spotted 25 sack plug 250 to 350 in and out of surface casing. Spotted 10 sack plug at surface, installed proper dry hole marker. Spotted drilling mud between all plugs and back filled pits and cleaned up location.</p> <p>This work was performed by Dowell, Hobbs New Mexico Office.</p>							
Witnessed by A. D. Bell		Position Partner		Company Campana Petroleum Company			
FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY							
ORIGINAL WELL DATA							
D F Elev.	T D	P B T D		Producing Interval		Completion Date	
Tubing Diameter		Tubing Depth		Oil String Diameter		Oil String Depth	
Perforated Interval(s)							
Open Hole Interval				Producing Formation(s)			
RESULTS OF WORKOVER							
Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD	
Before Workover							
After Workover							
OIL CONSERVATION COMMISSION				I hereby certify that the information given above is true and complete to the best of my knowledge.			
Approved by <i>A. D. Bell</i>				Name (A. D. Bell)			
Title				Position Partner			
Date				Company Campana Petroleum Company			

ATTACHMENT "G"

Page 3 of 7

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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LAND OFFICE	
OPERATOR	

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

30-025-27108

Form O-103
Revised 12-1-

5a. Indicate Type of Lease
State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.
NM-5411-01

SUNDRY NOTICES AND REPORTS ON WELLS
DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR RE-DRILL OR PLUG WELLS IN A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT TO DRILL" (FORM O-101) FOR SUCH PROPOSALS.

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. Month Acquisition Year
2. Name of Operator	8. Name of Lease Owner
Cotton Petroleum Corporation	Scharbauer State
3. Address of Operator	9. Well No.
One Petroleum Center, Suite 201, Bldg. 6, Midland, Texas 79701	1
4. Location of Well	10. Field and Pool, or Wildcat
UNIT LETTER P 660 FEET FROM THE South LINE AND 330 FEET FROM	Spencer (San Andres)
THE East CORNER SECTION 23 TOWNSHIP 17-S RANGE 36-E N.M.	
11. Elevation (Show whether DF, RT, GR, etc.)	12. County
3814' GR	Lea

13. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE NAME <input type="checkbox"/>	COMMENCE DRILLING OPER. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input type="checkbox"/>	
OTHER <input type="checkbox"/>			

14. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

- (1) Set CIBP @ 3180' and cap with 5 sxs.
- (2) Spot the following neat cement plugs: 1900'-2000' 20 sxs.; surface 10 sxs.
- (3) Erect P&A Marker, clear and level location.

THIS WELL WAS PLUGGED ON MAY 1, 1982.

15. I hereby certify that the information above is true and complete to the best of my knowledge and belief

SIGNED [Signature] TITLE Production Engineer DATE June 15, 1982

APPROVED BY [Signature] TITLE OIL & GAS INSPECTOR DATE NOV 3 1982

CONDITIONS OF APPROVAL, IF ANY:

ATTACHMENT "G"

Page 4 of 7

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LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

30-025-20775

RE - ENTRY

5a. Indicate Type of Lease	State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	LG-498

SUNDRY NOTICES AND REPORTS ON WELLS

DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. SEE APPLICATION FOR PERMIT - FORM C-103 FOR SUCH PROPOSALS.

6. <input checked="" type="checkbox"/> WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER	7. Unit Agreement Name
8. Farm or Lease Name	8. Farm or Lease Name
9. Well No.	9. Well No.
10. Field and Pool, or Wildcat	10. Field and Pool, or Wildcat
11. Location of Well	11. Location of Well
12. County	12. County
13. Fluviation (show whether LF, RT, GR, etc.)	13. Fluviation (show whether LF, RT, GR, etc.)

TEXAS CRUDE, INC.,

508 Wall Towers East, Midland, Texas 79701

C.W. Trainer "25" State

One

Wildcat

Wildcat

Wildcat

Wildcat

Wildcat

Wildcat

Wildcat

Wildcat

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

REPAIR OR REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING OPER.	PLUG AND ABANDONMENT
PULL OR ALTER CASING	OTHER	CASING TEST AND CEMENT JOB	
		OTHER	

Re-Entry of Permcoil United - State
25 Well #1 (drilled in 1964, P&A 3-23-72)

17. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

12-1-72 - The following procedure was approved by OCC Office in Hobbs, N.M., before work was done: Cleaned out to 7226' - Straddle Tested from 6845-7010 and 6645-6845. No Oil or Gas recovered. Spotted the following cement plugs: 40 sacks from 6600-6455; 40 sacks from 5600-5465; 40 sacks in bottom of 8 5/8" 4790-4655. Pulled 8 5/8" casing from approximately 1020', set 50 sacks from 1050-950'; 50 sacks in bottom of 13 3/8" from 340-240; 10 sack plug in top of 13 3/8" casing. Welded plat in top of 13 3/8" casing. Erected dry hole marker. Work completed 12-1-72

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED: W. H. Littlejohn TITLE: Dist. Supt DATE: 12-1-72

APPROVED BY: Thomas C. Clegg TITLE: DATE:

CONDITIONS OF APPROVAL, IF ANY:

ATTACHMENT "G"

Page 5 of 7

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Geology, Minerals and Natural Resources Department

30-025-30110

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO

30-025-30110

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

V-1687

7. Lease Name or Unit Agreement Name

Marathon State

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

OIL
WELL ☒

GAS
WELL ☐

OTHER Re-entry

2. Name of Operator

Tom Schneider

8. Well No.

1

3. Address of Operator

505 N Big Spring St., Suite 204 Energy Sq. Midland, TX

9. Pool name or Wildcat

Wildcat

4. Well Location

Unit Letter B 1300 Feet From The North Line and 1980 Feet From The East Line

Section 27

Township 17-S

Range 36-E

NMPM

Lea

County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

2835.8 GL

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

REMEDIAL WORK ☐

ALTERING CASING ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

COMMENCE DRILLING OPNS. ☐

PLUG AND ABANDONMENT ☒

PULL OR ALTER CASING ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details and give pertinent dates, including estimated date of starting any proposed work.) SEE RULE 1103.

n 6/25/90...Laid down rods and pump. Pumped 25 sx. of C cement at 5169 feet.
Pulled up and WOC.

6/26/90...Trip into hole with tubing and tagged plug at 4,936. Circulated
hole and mixed mud. Pumped 25 sx. of C cement at 4,530. Cut and pulled 2,994
feet of 5 1/2" casing. Trip into hole, circulate and mix mud, pumped 40 sx.
of C cement at 3,050 feet. SIFN.

6/27/90...Trip into hole with tubing and tagged plug at 2,945 feet.
Pulled to surface and set 10 sx. of C cement at Surface.

Ray Smith with Commission witness all operations. Cementing by Triple
"N" Services, Inc. Midland, Texas.

I hereby certify that the information above is true and complete to the best of my knowledge and belief

SIGNATURE

Thomas Schneider

TITLE operator representative

DATE 7/17/90

TYPE OR PRINT NAME

Thomas Schneider

TELEPHONE NO (915) 682-633

(This space for State Use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY

ATTACHMENT "G"

Page 6 of 7

OIL CONSERVATION DIVISION

P.O. BOX 2028
SANTA FE, NEW MEXICO 87501

30-025-30110

Form O-103
Revised 10-1-78

NO. OF COPIES REQUIRED	
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SANTA FE	
FILE	
U.S. M.S.	
LAND OFFICE	
OPERATOR	

1. Lease Type of Lease	Other <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
2. State Oil & Gas Lease No.	V-1687

DO NOT USE THIS FORM FOR SURVEY PURPOSES AND REPORTS ON WELLS
USE FORM O-103 FOR SURVEY PURPOSES AND REPORTS ON WELLS

Arkansas Junction
Voluntary WI Unit

Marathon State V-1687

Marathon Oil Company

Address of Operator

P.O. Box 552 Midland, Texas 79701

Lease No.

UNIT LETTER B 1300 1980 North

Wildcat

East 27 Section 11-S Range 36-E

3835.6' GL

Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF ABANDONMENT

SUBSEQUENT PLUGGING OF

PERFORM REMEDIAL WORK

FIELD AND REPAIR

REMEDIAL WORK

ALTERING CASES

TEMPORARY ABANDON

CHANGE PLUG

COMMENCE DRILLING WORK

PLUG AND ABANDON

PLUG OR ALTER CASE

CHANGE PLUG

OTHER TEST AND CORRECTION

OTHER

1. Complete and submit this form to the Oil & Gas Inspector, State of New Mexico, within 30 days of the date of the event or action reported on this form. 2. Submit this form to the Oil & Gas Inspector, State of New Mexico, within 30 days of the date of the event or action reported on this form.

Verbal approval received from Jerry Sexton for P & A procedure on 12-31-87.

1-1-88: RIH open-ended. Set Plug #1 from 12,355'-12,255' w/50 sxs Class "H" Neat, Set Plug #2 from 11,910'-11,777' w/50 sxs Class "H" Neat, Set Plug #3 from 10,270'-10,162' w/50 sxs Class "H", Set Plug #4 from 7100'-6992' w/50 sxs Class "H" Neat, Set Plug #5 from 5285'-5045' w/100 sxs Class "H" Neat, Set Plug #6 from 4525'-4387' w/50 sxs Class "H" Neat, Set Plug #7 from 2070'-1932' w/50 sxs Class "H" Neat, & Plug #8 from 30'-0' w/20 sxs Class "H" Neat.

1-2-88 ND BOPE & install dry-hole marker.

I, I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed *Jerry D. Lucas*

Dist. Dir. Superintendent

DATE 1-7-88

OIL & GAS INSPECTOR

OCT 16 1987

CONDITIONS OF APPROVAL, IF ANY:

ATTACHMENT "G"

Page 7 of 7

TECHNI-HIB™ 606 Corrosion Inhibitor

CHEMICAL

Product Information

PRODUCTS
AND
SERVICES

Description

TECHNI-HIB 606 corrosion inhibitor is a water-soluble combination of a cationic filming corrosion inhibitor and sulfite-based oxygen scavenger.

Uses

TECHNI-HIB 606 corrosion inhibitor has been developed for use as a packer fluid inhibitor, hydrostatic test inhibitor and general purpose filming corrosion inhibitor for water injection systems, water disposal operations, power water pumping systems and high water/oil ratio producing oil wells where a small amount of oxygen is present.

Application

TECHNI-HIB 606 corrosion inhibitor can be injected continuously into a system at a rate of 60 to 120 ppm (1 to 2 quarts per 100 barrels of water). When used as a packer fluid inhibitor, 2500 to 5000 ppm (10 to 20 gallons per 100 barrels of water) is required. When used as a hydrostatic test fluid inhibitor, TECHNI-HIB 606 corrosion inhibitor injected at a rate of 500 to 3500 ppm is typically recommended dependent on conditions.

Technical Data

Specific Gravity @ 60°F	0.991 - 1.027	SOLUBILITIES:	
Pounds Per Gallon @ 60°F	8.26 - 8.56	Fresh Water	Soluble
Freeze Point	-5°F	2% Brine	Soluble
Flash Point(TCC)	98°F	15% Brine	Soluble
pH	6 - 6.5	Crude Oil	Insoluble
Appearance	Dark Brown Liquid		

Safety Precautions

WARNING! FLAMMABLE. Keep away from heat, sparks, and open flame. Keep container closed when not in use. Do not breathe vapors, use with adequate ventilation. Avoid contact with eyes, skin, and clothing.

References

TECHNI-HIB 606 corrosion inhibitor is available in 55-gallon drums and bulk quantities. Refer to Material Safety Data Sheet for additional information and first aid.

ATTACHMENT "H"

Page 1 of 5

The above features and/or data are supplied solely for informational purposes and BJ Services Company makes no guarantees or warranties, either expressed or implied, with respect to their accuracy or use. All product warranties and guarantees shall be governed by the BJ Services Company standard at the time of sale or delivery of service. Actual product performance or availability depends on the timing and location of the job, the type of job and the particular characteristics of each job. This document is controlled by the reference date. To ensure that this is the current version, please reference the Services section of the BJ Services Website (www.bjservices.com) or ask your BJ representative.

January 12, 2005



MATERIAL SAFETY DATA SHEET

Product Name: Techni-Hib 606

Page 1

BJ CHEMICAL SERVICES MATERIAL SAFETY DATA SHEET



Section: 01 PRODUCT IDENTIFICATION

BJ CHEMICAL SERVICES	Emergency Telephone	CHEMTREC (800) 424-9300
707 N. LEECH	Previous Version Date	5/20/03
HOBBS, NM 88241-1499	Date Prepared	10/30/03
TELEPHONE: (575) 393-7751	Version: 0000009	
Product Name: TECHNHI-HIB 606		
Trade Name: Packer Fluid Inhibitor		
Chemical Description:		
Combination oxygen scavenger/corrosion inhibitor		

Section: 02 HAZARDOUS INGREDIENTS

Component Name	CAS#	% Range
methanol	000067-56-1	< 15%
isopropyl alcohol	000067-63-0	< 10%
ammonium bisulfite	010192-30-0	< 10%

Section: 03 PHYSICAL DATA

Freezing Point: - 5 Deg.F. pH: 6 - 6.5
Boiling Point, 760 mm Hg: approx. 200 Deg.F
Specific Gravity(H₂O=1) : 1.009 Solubility in water: Soluble
Appearance and Odor: Dark brown liquid; pungent odor.

Section: 04 FIRE AND EXPLOSION HAZARD DATA

Flash Point (Test Method): 98 Deg.F TCC
Extinguishing Media
CO₂, dry chemical, water spray or fog, or foam. Use water to keep containers cool. Isolate "fuel" supply from fire. Contain fire fighting liquids for proper disposal.
Special Fire Fighting Procedures
Do not enter confined fire space without proper personal protective equipment including NIOSH approved self-contained breathing apparatus with full facepiece operated in the positive pressure demand mode. Do not inject a solid stream of water or foam into hot, burning pools; this may cause splattering and increase fire intensity. Evacuate personnel to a safe area. Keep unnecessary people away.
Unusual Fire and Explosion Hazards
This material is volatile and readily gives off vapors that may travel along the ground or be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electrical motors, static discharge, or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Containers may explode from internal pressure if confined to fire. Keep containers cool. Keep unnecessary people away.

Section: 05 HEALTH HAZARD DATA

Effects of Overexposure

Eye Contact: causes moderate to severe conjunctival irritation, (including burning sensation, tearing, redness or swelling), corneal injury and iritis. Corneal injury may be marked, extensive, and if not promptly treated, may possibly lead to permanent impairment of vision.

Skin Contact: causes local redness, swelling and chemical burns. May cause immediate skin irritation, blistering and/or dermatitis in some individuals. Prolonged or widespread exposure may result in the absorption of potentially harmful amounts of material.

Inhalation: vapors are irritating and may cause excessive tear formation, intoxication, burning sensation of the nose

ATTACHMENT "H"

Page 2 of 5

MATERIAL SAFETY DATA SHEET

Product Name: Techni-Hib 606

Page 2

and throat, coughing, wheezing, shortness of breath, nausea, vomiting, headache, dizziness, narcosis, unconsciousness, cardiac depression or coma. May also cause symptoms of lack of oxygen leading to collapse and possible death. Extremely high vapor concentrations may cause lung damage. Some individuals may develop asthma. Repeated exposure may cause liver and kidney injury.

Ingestion: may cause blindness, narcosis, nausea, vomiting, throat and abdominal pain, acidosis, diarrhea, dizziness, weakness, thirst, collapse and possible coma or death. The nature and severity of these signs and symptoms will be dependent on the amount swallowed.

Additional Information: methanol is a component of this product. It can be highly toxic, even lethal, in inhalation exposures, but most of the literature on methanol poisoning deals with accidental or intentional ingestions. There are three stages of toxicity from acute exposures (either by inhalation or ingestion) to methanol: (1) a rapid narcotic effect involving drowsiness or fatigue with mild irritation of the eyes and mucous membranes, (2) a latent period of 10-15 hours, followed by (3) more severe CNS effects including nausea, vomiting, dizziness, headache, failing eyesight, visual disturbances, metabolic acidosis, and deep respiration. The last stage is thought to be due to the formation of toxic metabolite(s) of methanol. Permanent toxic effects can be produced from a single exposure. The effects include damage to both central and motor nerves and blindness due to damage to the optic nerve. Other symptoms to exposure to methanol include roaring in the ears, insomnia, rapid eye movements, tremor, dizziness, loss of coordination, dilated pupils, itching of the skin, skin irritation, and dermatitis caused by removal of skin oils. As little as 15mL can cause blindness and 30-250mL can be fatal. Methanol can be absorbed through the skin in toxic amounts. Since it is eliminated slowly from the body, it can have cumulative toxic effects from daily exposures. Subacute ingestion of methanol has caused liver damage in laboratory animals. It has shown to be a teratogen and a fetotoxin in tests on laboratory animals. It has shown some genetic effects in laboratory tests.

Target Organs: eyes, skin, lungs, CNS, liver and kidneys.

Emergency and First Aid Procedures

SKIN

Wash with soap and water. Remove contaminated clothing and launder contaminated clothing before reuse. Get medical attention if redness or irritation develops.

EYES

Flush eyes immediately with large amounts of water for at least 15 minutes. Lift lower and upper lids occasionally. Get medical attention.

INHALATION

Remove victim to fresh air. Give artificial respiration if not breathing. If breathing is difficult, administer oxygen. Keep person warm, quiet and get medical attention.

INGESTION

Call a physician immediately. Give victim a glass of water. Do NOT induce vomiting unless instructed by a physician or poison control center. Never give anything by mouth to an unconscious person.

Section: 06 REACTIVITY DATA

Stable (Y=Yes/N=No): Y

Stability -- Conditions to Avoid

None known.

Incompatibility (Materials to Avoid)

Avoid contact with strong oxidizing agents, strong alkalis, and strong mineral acids.

Hazardous Decomposition Products

Smoke, carbon dioxide, carbon monoxide, oxides of nitrogen.

Hazardous Polymerization May Occur (Y=Yes/N=No): N

Hazardous Polymerization -- Conditions to Avoid

None

ATTACHMENT "H"

Page 3 of 5

MATERIAL SAFETY DATA SHEET

Product Name: Techni-Hib 606

Page 3

Section: 07 SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled

Eliminate sources of ignition. Persons not wearing suitable personal protective equipment should be excluded from area of spill until clean-up has been completed. Shut off source of spill if possible to do so without hazard. Prevent material from entering sewers or watercourses. Provide adequate ventilation. Contain spilled materials with sand or earth. Recover undamaged and minimally contaminated material for reuse or reclamation. Place all collected material and spill absorbents into DOT approved containers.

Advise authorities. If this product is an EPA hazardous substance (see Section 10), notify the U.S.EPA and/or the National Response Center. Additional notification pursuant to SARA Section 302/304 (40 CFR 355) may also be required.

Waste Disposal Method

Treatment, storage transportation and disposal must be in accordance with EPA or State regulations under authority of the Resource Conservation and Recovery Act (40 CFR 260-271). If product requires disposal, ignitability (D001) would be applicable.

Section: 08 SPECIAL PROTECTIVE INFORMATION

Respiratory Protection

If workplace exposure limit(s) of product or any component is exceeded, an NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure organic vapor type) under specified conditions. Engineering or administrative controls should be implemented to reduce exposure.

Ventilation

The use of mechanical dilution ventilation is recommended whenever this product is used in confined spaces, is heated above ambient temperatures or is agitated. When applicable, sufficient local ventilation should be provided to maintain employee exposures below safe working limits (TWA's).

Protective Gloves

Neoprene, nitrile, polyvinyl alcohol (PVA), polyvinyl chloride (PVC)

Eye Protection

Chemical splash goggles or face shield in compliance with OSHA regulations is advised; however OSHA regulations also permits safety glasses under certain conditions. The use of contact lenses is not recommended.

Other Protective Equipment

Eye wash and safety shower

Section: 09 SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing

Avoid contact with eyes, skin or clothing. Avoid breathing vapors or mist. Keep away from heat, sparks, and open flames and never use a cutting torch on or near container (even empty) or explosion may result. Vapors may travel to areas away from the work site and ignite.

Other Precautions

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Do not transfer to improperly marked container. Do not use pressure to empty container. Do not cut, heat, weld, or expose containers to flame or other sources of ignition. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Containers should be grounded and bonded to receiving container(s) when being emptied. Containers should not be washed out and used for other purposes.

FOR INDUSTRIAL USE ONLY

Section: 10 REGULATORY INFORMATION

Superfund Amendments and Reauthorization Act Of 1986(SARA) Title III
Section 302/304-Extremely Hazardous Substances (40 CFR 355)

ATTACHMENT "H"

Page 4 of 5

MATERIAL SAFETY DATA SHEET

Product Name: Techni-Hib 606

Page 4

SARA requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312). These values are subject to change and the regulations should be consulted to verify current statutory requirements.

Components present in this product at a level which could require reporting under the statute are:

Component Name	RQ	TPQ	% Range
NONE			

Section 311/312 Chemical Inventory Reporting Requirements (40 CFR 370)

The Superfund Amendments and Reauthorization Act (SARA) may require submission of reports (chemical list, MSDS, Tier I & Tier II) to the State Emergency Response Commission, Local Emergency Response Committee and the local fire department. The SARA physical and health hazards related to this product are:

X Acute Health Hazard	Sudden Release of Pressure	X Fire
X Chronic Health Hazard	Reactive	

Section 313-List of Toxic Chemicals (40 CFR 372)

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40 CFR 372). This information should be included in all MSDSs that are copied and distributed for this material.

Component Name	CAS #	% Range
methanol	000067-56-1	< 15%

CERCLA, 40 CFR 261 AND 302.

The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center 1-800-424-8802 of any release of a Hazardous Substances equal to or greater than the reportable quantities (RQs) listed in 40CFR 302.4. Values are given in pounds for the component and not the mixture, if applicable. (These values are subject to change and the regulations should be consulted to verify current statutory levels.)

Component Name	CAS #	CERCLA RQ
methanol	000067-56-1	5000
ammonium bisulfite	010192-30-0	5000

OSHA Exposure Limits

Component Name

methanol

TWA ppm: 200.0 TWA MG/M3: 260.0 STEL ppm: 250.0 STEL MG/M3: 325.0 Skin: X

isopropyl alcohol

TWA ppm: 400.0 TWA MG/M3: 980.0 STEL ppm: 500.0 STEL MG/M3: 1225.0

National Fire Protection Agency

2 Health

3 Fire

0 Reactive

Other

Department of Transportation Shipping Information

Proper Shipping Name: Flammable liquids, n.o.s.

Hazard Class: 3

Identification: UN1993

Packaging Group: PG III

Contains: methanol, isopropyl alcohol

Hazardous Substance RQ: 33333#

Emergency Response Guide Number: 128

Labels: Flammable liquid

Toxic Substances Control Act (TSCA), 40 CFR 261

This product, or components if product is a mixture, is/are listed on the Toxic Substances Control Act (TSCA) inventory.

Section 10 information is to remain attached to the material safety data sheet for this product.

While BJ CHEMICAL SERVICES believes that the above data is correct, BJ CHEMICAL SERVICES expressly disclaims liability for any loss or injury arising out of the use of this information or the use of any materials designated.

END OF MSDS

ATTACHMENT "H"

Page 5 of 5

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Geology, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

API NO. (assigned by OCD on New Wells)

30-025-30701

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

LG 7270

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒

RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL

WELL ☒

GAS

WELL ☐

OTHER ☐

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

7. Lease Name or Unit Agreement Name

STRINGO "ACS" STATE

2. Name of Operator

YATES PETROLEUM CORPORATION

8. Well No.

1

3. Address of Operator

105 South Fourth Street, Artesia, NM 88210

9. Pool name or Wildcat

Spence San Andres

4. Well Location

Unit Letter

D

660

Feet From The

North

Line and

660

Feet From The

West

L

Section 26

Township 17 South

Range 36 East

NMPM

Lea

County

10. Proposed Depth

5500'

11. Formation

San Andres

12. Rotary or C.T.

Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

3830.0' GR

14. Kind & Status Plug. Bond

Blanket

15. Drilling Contractor

Undesignated

16. Approx. Date Work will start

ASAP

17.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4"	8 5/8"	32# J-55	350'	300 SX	Circulate
7 7/8"	5 1/2"	15.5# J-55	TD	400 SX-AS	Warranted

We propose to drill and test the San Andres and Intermediate formations approximately 350' of surface casing will be set and cement circulated to surface. If commercial, production casing will be run and cemented with adequate cover, perforated, and stimulated as needed for production.

MUD PROGRAM: FW GEL/ICM to 350', Bring to TD

BOP PROGRAM: BOP's will be installed on 8 5/8" casing and test daily for operational.

Cased on the 5 1/2" casing must be
perforated from the top of the salt or
perforated to the surface casing by
either circulating with cement or a
pilot tool at the top of the salt

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVITY ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Clifton R. May

TITLE

Permit Agent

DATE

10-11-89

TYPE OR PRINT NAME

Clifton R. May

TELEPHONE NO. 748-1471

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON

APPROVED BY

DISTRICT I SUPERVISOR

TITLE

DATE

OCT 12 1989

CONDITIONS OF APPROVAL, IF ANY:

ATTACHMENT "I"

Permit Expires 6 Months From Approval
Date Unless Drilling Underway.

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DIRECTOR
FBI, NEW YORK, Bureau, NEW YORK

DISTRICT OF COLUMBIA

DETROIT **24** **APR** **1940**

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Did—none would be given the water temperature of the reaction

YATES PETROLEUM CORPORATION			SIRINGO "ACE" STATE		
Unit Letter	Section	Township	Range	County	
D	26	17 South	36 East	Lea	

Actual Postage Location of Well:

660	East from the	North	Line and	660	East from the	West
3830.6	SAN ANTONIO		Foot	SPENCE SAN ANTONIO		40

1. Confirm the average defined to the subject well by actual ground or bottom made on the plot below.

2. If more than one bore is defined to the well, outline each and identify the ownership (both as to welling interest and, if any).

3. If more than one bore of different depth is defined to the well, have the interest of all owners here on this date 10-11-89, unpublished, surveying, etc.

☐ Yes ☐ No If answer is "yes" type of unpublished

If answer is "no" the unpublished and unpublished which have actually been consolidated. (Use reverse side of this form if necessary).

No allowance will be assigned to the well until all interests have been consolidated (by communication, unpublished, surveying, or otherwise) or until a new and test, eliminating each interest, has been approved by the Division.

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature Clifton R. May

Printed Name Clifton R. May

Position Permit Agent

Company Yates Petroleum Corp.


Date 10-11-89

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plot was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed 10/6/89

Signature & Seal of Professional Surveyor Herschel L. Jones



ATTACHMENT "I"

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO. 30-025-30701
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. LG-7270
7. Lease Name or Unit Agreement Name SIRINGO "ACS" STATE
8. Well No. 1
9. Pool name or Wildcat SPENCE SAN ANDRES

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM G-101) FOR SUCH PROPOSALS.)

1. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	2. Name of Operator YATES PETROLEUM CORPORATION
3. Address of Operator 105 South Fourth Street	4. Well Location Unit Letter D : 660 Feet From The North Line and 660 Feet From The West Line Section 26 Township 17 South Range 36 East NMPM Lea County
10. Elevation (Show whether DF, RKB, RT, GR, etc.)	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Yates Petroleum Corporation request permission to extend the setting depth of the 8 5/8" casing from 350' to 2125'. The cement will be circulated to surface. Tim Russell with Yates discussed this with Paul Kortz of the OCD.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.
SIGNATURE Clifton E. May TITLE Permit Agent DATE 10-23-89
TYPE OR PRINT NAME Clifton E. May TELEPHONE NO. (505) 748-147

(This space for ORIGINAL SIGNED BY JEREMY S. FISH
DISTRICT I SUPERVISOR

APPROVED BY _____ TITLE _____ DATE OCT 25 1989

CONDITIONS OF APPROVAL, IF ANY:

ATTACHMENT "I"

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO. 30-025--30701
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. LG-7270
7. Lease Name or Unit Agreement Name SIRINGO ACS STATE
8. Well No. 1
9. Pool name or Wildcat Und. Spence San Andres

SUNDY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	
2. Name of Operator YATES PETROLEUM CORPORATION	
3. Address of Operator 105 South 4th St., Artesia, NM 88210	
4. Well Location Unit Letter <u>D</u> : <u>660</u> Feet From The <u>North</u> Line and <u>660</u> Feet From The <u>West</u> Line Section <u>26</u> Township <u>17S</u> Range <u>36E</u> NM/PM <u>Lea</u> County 10. Elevation (Show whether DF, RKB, RT, GR, etc.) <u>3830.6' CR</u>	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input checked="" type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Spudded 26" hole 8:15 AM 10-27-89. Set 40' of 20" conductor. Notified Evelyn (Answering Service) with OCD, Hobbs, NM of spud. Resumed drilling 12 1/2" hole 4:30 AM 10-28-89. Notified, OCD, Hobbs, NM. Ran 47 joints 8-5/8" 24# J-55 casing set 2043'. Guide shoe set 2043', insert float set 1999'. Cemented w/900 sx Pacesetter Lite w/5#/sx Hyseal, 1/2#/sx Celloseal and 37 CaCl2 (yield 1.97, wt 12.6). Followed w/200 sx Class "C" w/2% CaCl2 (yield 1.32, wt 14.8). PD 3:30 AM 11-1-89. Bumped plug to 1000 psi, float held okay. Cement circulated 100 sx to pit. WOC. NU and tested to 1000 psi, OK. Drilled out 10:00 PM 11-1-89. WOC 18 hrs and 30 minutes. Reduced hole to 7-7/8". Drilled plug and resumed drilling.

Note: Notified Eddie Seay, OCD, Hobbs, NM, to witness surface casing, did not witness.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Juanita Goodlett TITLE Production Supervisor DATE 11-6-89
TYPE OR PRINT NAME Juanita Goodlett TELEPHONE NO. 505/748-1471

(This space for State Use)

Original Signed by
P. J. J.

NOV 8 1989

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

ATTACHMENT "I"

ARTESIA FISHING TOOL COMPANY

P.O. BOX 470 PHONE (505) 746-6651

470

ARTESIA, NEW MEXICO 88210

November 22, 1989

Yates Petroleum Corporation
 105 South Fourth Street
 Artesia, NM 88210

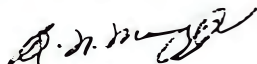
Re: Siringo ACS State #1
 660' FNL & 660' FWL
 Sec. 26, T17S, R36E
 Lea County, New Mexico

Gentlemen:

The following is a Deviation Survey for the above
 captioned well.

DEPTH	DEVIATION
465'	1/2°
970'	1/4°
1470'	1/2°
1939'	1/2°
2043'	3/4°
2655'	1/2°
3150'	1°
3650'	2°
4190'	1 1/2°
4456'	1 1/2°
4980'	1 1/4°
5450'	1 3/4°

Very truly yours,



B. N. Muncy Jr.
 Secretary

STATE OF NEW MEXICO
 COUNTY OF EDDY

§
 §

The foregoing was acknowledged before me this 22nd day
 of November, 1989.

NOTARY PUBLIC

ATTACHMENT "I"



Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1280, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Hondo Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO. 30-025-30701
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. LC--7270
7. Lease Name or Unit Agreement Name SIRINGO ACS STATE
8. Well No. 1
9. Pool name or Wildcat Und. Spence San Andres
10. Elevation (Show whether DE, R&R, RT, CR, etc.) 3830.6' GR

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER <input type="checkbox"/> P&A <input type="checkbox"/>	2. Name of Operator YATES PETROLEUM CORPORATION
3. Address of Operator 105 South 4th St., Artesia, NM 88210	4. Well Location Unit Letter <u>D</u> : <u>660</u> Feet From The <u>North</u> Line and <u>660</u> Feet From The <u>West</u> Line Section <u>26</u> Township <u>17S</u> Range <u>36E</u> NMPM <u>Lea</u> County <u></u>
10. Elevation (Show whether DE, R&R, RT, CR, etc.) 3830.6' GR	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data			
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

TD 5450'. Reached TD 11-10-89.

Received verbal permission from Eddie Seay, NMOCD, Hobbs, NM, to plug well as follows:

Plug #1 5350-5450' w/25 sx Class C Neat
#2 4514-4614' w/35 sx Class C Neat
#3 3253-3353' w/55 sx Class C Neat
#4 1933-2093' w/30 sx Class C Neat
#5 Surface-63' w/25 sx Class C Neat

Cement yield 1.32, weight 14.8. Last plug down at 3:45 AM 11-16-89. Installed dry hole marker. Released rig 4:00 AM 11-16-89.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Juanita Goodlett TITLE Production Supervisor DATE 11-21-89

TYPE OR PRINT NAME Juanita Goodlett

TELEPHONE NO. 505/748-14

(This space for State Use)

OIL & GAS INSPECTOR

APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

ATTACHMENT "I"

WRS COMPLETION REPORT

COMPLETIONS SEC 26 TWP 17S RGE 36E
PI# 30-I-0011 12/08/89 30-025-30701-0000 PAGE 1

NMEX LEA # 660FNL 660FWL SEC NW NW
YATES PET D D
1 SILINGO "ACS" STATE
3889KB 3881GR SPENCER
API 30-025-30701-0000
10/27/1989 11/16/1989 ROTARY VERT D&A-OG
5500 SN ANDRS ARTESIA FSHG TOOL 2 RIG SUB 7
DTD 5450 FM/TD SN ANDRS

LOCATION DESCRIPTION

6 MI W HUMBLE CITY, NM

CASING/LINER DATA

CSG 20 # 40
CSG 8 5/8 # 2043 W/ 1100 SACKS
CMT PLUGS @ 5350-5450 W/25 SX, 4514-4614 W/35 SX,
3253-3353 W/55 SX, 1933-2093 W/30 SX, SURF-63 W/25 SX

TYPE	FORMATION	LTH	TOP DEPTH/SUB	BSE DEPTH/SUB
LOG	RUSTLER		2052	1837
LOG	YATES		3353	536
LOG	QUEEN		4392	-503
LOG	GRAYBLRG		4614	-725
LOG	SN ANDRS		5210	-1321

SUBSEA MEASUREMENTS FROM KB

FORMATION TEST DATA

DST 1 5298- 5450 SN ANDRS S
REC 2914.0 FT OG&MCW .5 CFT GAS
REC 80.0 CC OIL 1340.0 CC FWIR
INIT OP 20M IFP 244 FFP 621 OP W/GD BLOW
FINAL OP 1H IFP 658 FFP 1402 GD BLOW
ISIP 1825 1H FSIP 1825 3H IHP 2964 FHP 2973
SPL CHAM PRESS FINAL 30
WS 33000 PPM CL
OP W/GD BLOW ON BTM OF BUCKET, INCR TO 2.5 PSI IN 10

CONTINUED IC# 300257029689

Petroleum Information

BB a company of
The Tank & Transport Corporation

ATTACHMENT "I"

COMPLETIONS SEC 26 TWP 17S RGE 36E
PI# 30-T-0011 12/08/89 30-025-30701-0000 PAGE 2

YATES PET
1

SIRINGO "ACS" STATE

D D

FORMATION TEST DATA

MINS

RE-OP W/GD BLOW. INCR TO 2.25 PSI IN 30 MINS

DST 2 - SN ANDRS MISRUN

DST 3 5054- 5084 SN ANDRS
REC 150.0 FT FLUD 2600.0 CC FLUD
INIT OP 30M IFP 83 FFP 95 OP W/WK BLOW
FINAL OP 1H IFP 95 FFP 95 WK BLOW
ISIP 95 1H 1HP 2808 FHP 2808
SPL CHAM PRESS FINAL 60
WS170000 PPM CL
OP W/WK BLOW, DECR TO V-WK BLOW IN 30 MINS
RE-OP ON 2ND FLOW W/WK BLOW, DIED IN 5 MINS
RE-OP ON 3RD FLOW W/WK BLOW, DIED IN 5 MINS
OP 30 MINS SI 1 HR; OP 1 HR SI 3 HRS; OP 1 HR
IFP 82-95, 95-95, 95-95
ISIP 95, 95

DST 4 5269- 5362 SN ANDRS S
REC 570.0 FT O&GCW 2100.0 CC O&GCW
REC .3 CFT GAS
INIT OP 30M IFP 69 FFP 120 OP W/FAIR BLOW
FINAL OP 1H IFP 188 FFP 222 FAIR BLOW
ISIP 1436 1H FSIP 1604 2H 1HP 2819 FHP 2853
SPL CHAM PRESS FINAL 220
WS115000 PPM CL
OP W/FAIR BLOW, INCR TO BTM OF BUCKET IN 8 MINS, INCR
TO 13 OZ IN 30 MINS
RE-OP W/FAIR BLOW, INCR TO 7.25 OZ IN 1 HR
SPL REC 2100 CC O&GCDFLUD + .34 CFT GAS
DP REC 570 FT O&GCDFLUD
WS 115000 PPM CL @ TOP OF SPL

LOGS AND SURVEYS /INTERVAL,TYPE/

LOGS CNL FDC DLL
LOGS MSFL

DRILLING PROGRESS DETAILS

YATES PET

CONTINUED

ATTACHMENT "I"

COMPLETIONS SEC 26 TWP 17S RGE 36E
PI# 30-T-0011 12/08/89 30-025-30701-0000 PAGE 3

YATES PET

D D

1 SIRINGO "ACS" STATE

DRILLING PROGRESS DETAILS

105 S 4TH ST
ARTESIA, NM 88210
505-748-1471
10/12 LOC/1989/
10/31 DRIG SURF
11/03 DRIG 2231
11/06 DRIG 2375
11/15 5450 TD. HOLDING FOR DATA
11/15 DEVIATION SURVEYS @ 465 (1/2 DEG), 970 (1/4 DEG)
1470 (1/2 DEG), 1939 (1/2 DEG), 2043 (3/4 DEG),
2655 (1/2 DEG), 3150 (1 DEG), 3650 (2 DEG),
4190 (1 1/2 DEG), 4456 (1 1/2 DEG), 4980 (1 1/4
DEG), 5450 (1 3/4 DEG)
TD REACHED 11/10/89 RIG REL 11/16/89
12/05 5450 TD
COMP 11/16/89, D&A
NO CORES, FOUR DSTS RPTD

ATTACHMENT "I"



ATTACHMENT J

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 06, 2022

ELIZABETH PICKEREL
LLANO DISPOSAL, LLC
125 W. ST. ANNE
HOBBS, NM 88240

RE: SIRINGO ACS STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 05/20/22 14:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:LLANO DISPOSAL, LLC
125 W. ST. ANNE
HOBBS NM, 88240Project: SIRINGO ACS STATE #1
Project Number: U BAR BRINE STATION D-26-17S-
Project Manager: ELIZABETH PICKEREL
Fax To: NONEReported:
06-Jun-22 10:57

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
U - BAR BRINE	H222168-01	Water	20-May-22 06:32	20-May-22 14:27
U - BAR FRESH	H222168-02	Water	20-May-22 06:40	20-May-22 14:27
U - BAR MONITOR WELL	H222168-03	Water	20-May-22 06:42	20-May-22 14:27

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

LLANO DISPOSAL, LLC
125 W. ST. ANNE
HOBBS NM, 88240

Project: SIRINGO ACS STATE #1
Project Number: U BAR BRINE STATION D-26-17S-
Project Manager: ELIZABETH PICKEREL
Fax To: NONE

Reported:
06-Jun-22 10:57

U - BAR BRINE H222168-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories

Inorganic Compounds

Chloride*	180000		4.00	mg/L	1	2051801	AC	23-May-22	4500-Cl-B	
pH*	1.04		0.100	pH Units	1	2052039	GM	20-May-22	150.1	
Temperature °C	20.0			pH Units	1	2052039	GM	20-May-22	150.1	
Specific Gravity @ 60° F	1.194		0.000	[blank]	1	2052301	GM	23-May-22	SM 2710F	
TDS*	305000		5.00	mg/L	1	2051303	GM	24-May-22	160.1	

Green Analytical Laboratories

Total Recoverable Metals by ICP (E200.7)

Sodium*	107000		500	mg/L	500	B221383	AES	31-May-22	EPA200.7	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

LLANO DISPOSAL, LLC
125 W. ST. ANNE
HOBBS NM, 88240

Project: SIRINGO ACS STATE #1
Project Number: U BAR BRINE STATION D-26-17S-
Project Manager: ELIZABETH PICKEREL
Fax To: NONE

Reported:
06-Jun-22 10:57

U - BAR FRESH H222168-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories

Inorganic Compounds

Chloride*	96.0		4.00	mg/L	1	2051801	AC	23-May-22	4500-Cl-B	
pH*	7.65		0.100	pH Units	1	2052039	GM	20-May-22	150.1	
Temperature °C	20.3			pH Units	1	2052039	GM	20-May-22	150.1	
Specific Gravity @ 60° F	0.9991		0.000	[blank]	1	2052301	GM	23-May-22	SM 2710F	
TDS*	449		5.00	mg/L	1	2051303	GM	25-May-22	160.1	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LLANO DISPOSAL, LLC
 125 W. ST. ANNE
 HOBBS NM, 88240

 Project: SIRINGO ACS STATE #1
 Project Number: U BAR BRINE STATION D-26-17S-
 Project Manager: ELIZABETH PICKEREL
 Fax To: NONE

 Reported:
 06-Jun-22 10:57

U - BAR MONITOR WELL
H222168-03 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride*	92.0		4.00	mg/L	1	2051801	AC	23-May-22	4500-Cl-B	
pH*	7.61		0.100	pH Units	1	2052039	GM	20-May-22	150.1	
Temperature °C	20.3			pH Units	1	2052039	GM	20-May-22	150.1	
Specific Gravity @ 60° F	0.9998		0.000	[blank]	1	2052301	GM	23-May-22	SM 2710F	
TDS*	429		5.00	mg/L	1	2051303	GM	25-May-22	160.1	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

LLANO DISPOSAL, LLC
125 W. ST. ANNE
HOBBS NM, 88240

Project: SIRINGO ACS STATE #1
Project Number: U BAR BRINE STATION D-26-17S-
Project Manager: ELIZABETH PICKEREL
Fax To: NONE

Reported:
06-Jun-22 10:57

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2051303 - Filtration										
Blank (2051303-BLK1)				Prepared: 13-May-22 Analyzed: 17-May-22						
TDS	ND	5.00	mg/L							
LCS (2051303-BS1)				Prepared: 13-May-22 Analyzed: 17-May-22						
TDS	492		mg/L	500		98.4	80-120			
Duplicate (2051303-DUP1)				Source: H222024-01 Prepared: 13-May-22 Analyzed: 17-May-22						
TDS	1930	5.00	mg/L		1980			2.56	20	
Batch 2051801 - General Prep - Wet Chem										
Blank (2051801-BLK1)				Prepared & Analyzed: 18-May-22						
Chloride	ND	4.00	mg/L							
LCS (2051801-BS1)				Prepared & Analyzed: 18-May-22						
Chloride	104	4.00	mg/L	100		104	80-120			
LCS Dup (2051801-BSD1)				Prepared & Analyzed: 18-May-22						
Chloride	104	4.00	mg/L	100		104	80-120	0.00	20	
Duplicate (2051801-DUP1)				Source: H222083-01 Prepared & Analyzed: 18-May-22						
Chloride	3500	4.00	mg/L		3300			5.88	20	
Matrix Spike (2051801-MS1)				Source: H222083-01 Prepared & Analyzed: 18-May-22						
Chloride	5800	4.00	mg/L	2500	3300	100	80-120			
Batch 2052039 - General Prep - Wet Chem										
LCS (2052039-BS1)				Prepared & Analyzed: 20-May-22						
pH	2.06		pH Units	2.00		103	90-110			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

LLANO DISPOSAL, LLC
125 W. ST. ANNE
HOBBS NM, 88240

Project: SIRINGO ACS STATE #1
Project Number: U BAR BRINE STATION D-26-17S-
Project Manager: ELIZABETH PICKEREL
Fax To: NONE

Reported:
06-Jun-22 10:57

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 2052039 - General Prep - Wet Chem

Duplicate (2052039-DUP1)	Source: H222168-01		Prepared & Analyzed: 20-May-22							
pH	1.06	0.100	pH Units		1.04			1.90	20	
Temperature °C	20.1		pH Units		20.0			0.499	200	

Batch 2052301 - General Prep - Wet Chem

Duplicate (2052301-DUP1)	Source: H222168-01		Prepared & Analyzed: 23-May-22							
Specific Gravity @ 60° F	1.199	0.000	[blank]		1.194			0.392	20	

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Celey D. Keene, Lab Director/Quality Manager

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LLANO DISPOSAL, LLC
125 W. ST. ANNE
HOBBS NM, 88240

Project: SIRINGO ACS STATE #1
Project Number: U BAR BRINE STATION D-26-17S-
Project Manager: ELIZABETH PICKEREL
Fax To: NONE

Reported:
06-Jun-22 10:57

Total Recoverable Metals by ICP (E200.7) - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B221383 - Total Recoverable by ICP										
Blank (B221383-BLK1)										
				Prepared: 26-May-22 Analyzed: 31-May-22						
Sodium	ND	1.00	mg/L							
LCS (B221383-BS1)										
				Prepared: 26-May-22 Analyzed: 31-May-22						
Sodium	1.72	1.00	mg/L	1.62		106	85-115			
LCS Dup (B221383-BSD1)										
				Prepared: 26-May-22 Analyzed: 31-May-22						
Sodium	1.64	1.00	mg/L	1.62		101	85-115	4.92	20	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



(575) 393-2326 FAX (575) 393-2476

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Llano Disposal, LLC

Siringo Brine Operations

Emergency Contingency and Response Plan

Location of Facilities:

Both the Siringo ACS State Brine Well #1 and the Siringo Brine Station are located approximately 8.6 miles south of Lovington, New Mexico via SH 483 (Arkansas Jct) then east on dirt roads. See attached map.

Facility	Latitude	Longitude	UL, S, T, N
Siringo ACS State #1	32.811503°	-103.331634°	D-26-17S-36E
Siringo Brine Station	32.798816°	-103.347123°	M-27-17S-36E

Emergency Response Agencies	Emergency	Direct Number
Lovington Fire and EMS	911	575-396-2359
Hobbs Fire and EMS	911	575-397-9308
Lea County Sheriff's Dept	911	575-396-3611
New Mexico State Police	911	575-392-5588

Llano Responder	Cell Phone	Home Phone
Marvin Burrows – Fac. Operator	575-631-8067	575-392-4384
Darr Angell - Owner	575-704-2777	575-396-4418

Reporting Agencies	Phone
NMOCD – Santa Fe	505-476-3440
NMOCD – Hobbs (Emergency Cell)	575-370-3186
National Response Center	800-424-8802
EPA Region 6 Emergency Response	214-665-6428
Chemtrec	800-424-9300

Materials Stored or Transferred Onsite	Location of Anticipated Leaks/Spills
Fresh and brine water (Non-hazardous)	Brine station inside secondary containment, concrete loading pad, pipelines, and at brine well
Corrosion Chemical (Combustible, Oxidizer)	At poly storage tank on brine well location
Contaminated Soil (Non-hazardous)	Sealed drums at brine station
Trash (Non-hazardous)	Trash bins at brine station

Leak/Spill Prevention Actions

Brine water storage tanks have a synthetic liner secondary containment and level controls
Corrosion chemical tank has a poly secondary containment
Concrete loading pad has curbs and an automated concrete sump
Buried brine polyethylene pipeline will be pressure tested annually to insure mechanical integrity

Containment and Clean up Actions

1) Incidental drips, leaks and spills will be picked up routinely and placed back into the system or in waste containers by the facility operator.
2) Releases of more than 5 bbls of brine water or 1 bbl of chemical or 1 bbl of waste outside secondary containment will be handled per the Emergency Procedures/Notification listed below.

Emergency Procedures and Notification

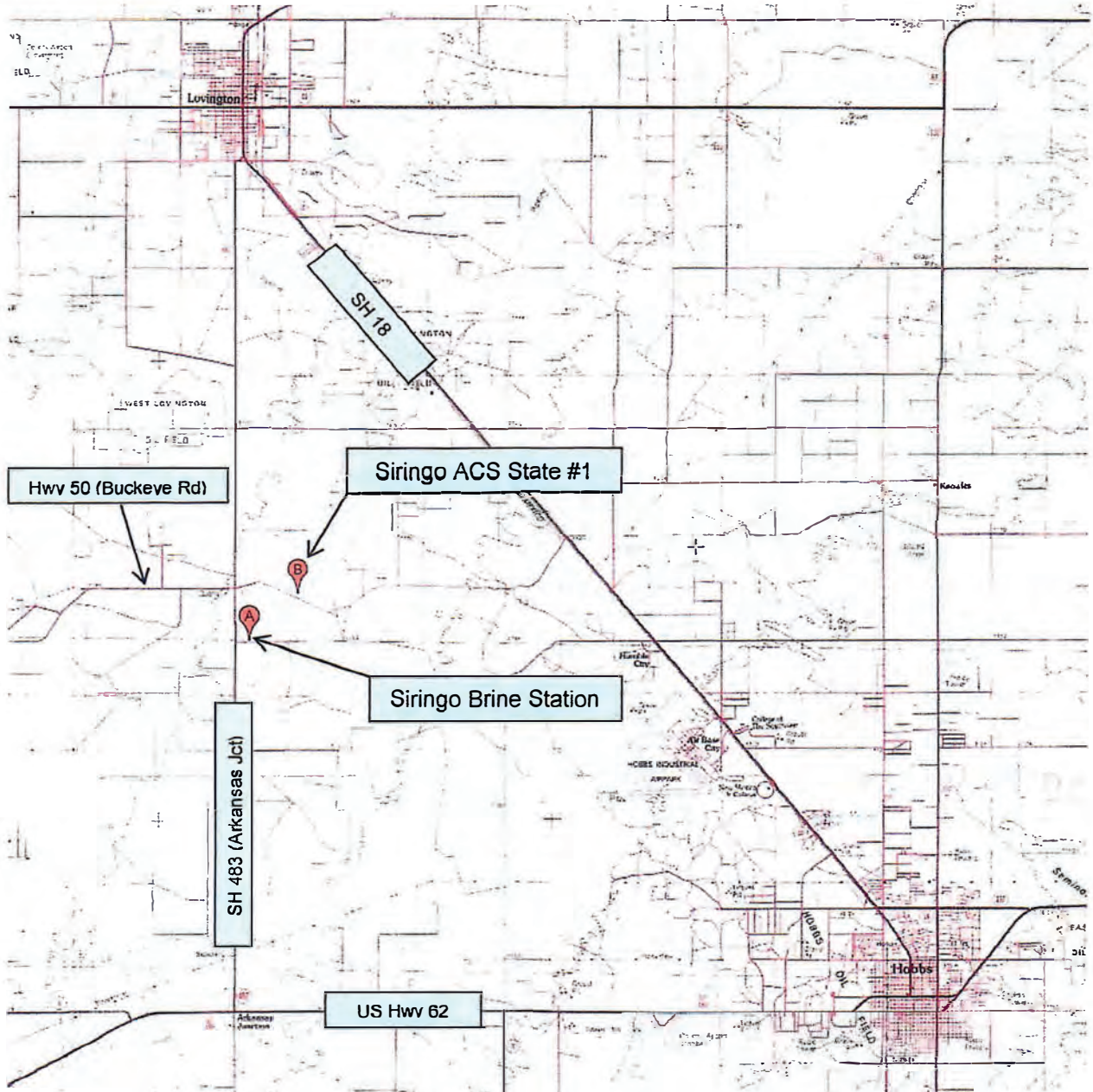
1) Assess the situation (if it is safe to do so) and notify Llano Supervisor for assistance and additional personnel, if needed. Stop the leak/spill as directed by the Llano Supervisor (if it is safe to do so).
2) Notify one of the Emergency Response Agencies noted above if there is a life threatening situation.
3) Provide assistance to Emergency Responders and/or Llano Supervisor.
4) Barricade any spill area to protect the public, if necessary and if it is safe to do so.
5) Llano Supervisor will direct all available resources to stop, contain and mitigate the emergency situation.
6) Llano Supervisor will notify NMOCD District Office by phone and subsequent form C-141 for brine spills <25 bbls or chemical spills <1 bbl.
7) Llano Supervisor will verbally notify NMOCD Director (Santa Fe) for brine spill >25 bbls or chemical spills >1 bbl.

Posted Date - _____

Attachment K

Llano Disposal, LLC
Siringo Brine Operations
Emergency Contingency and Response Plan

Emergency Response Map

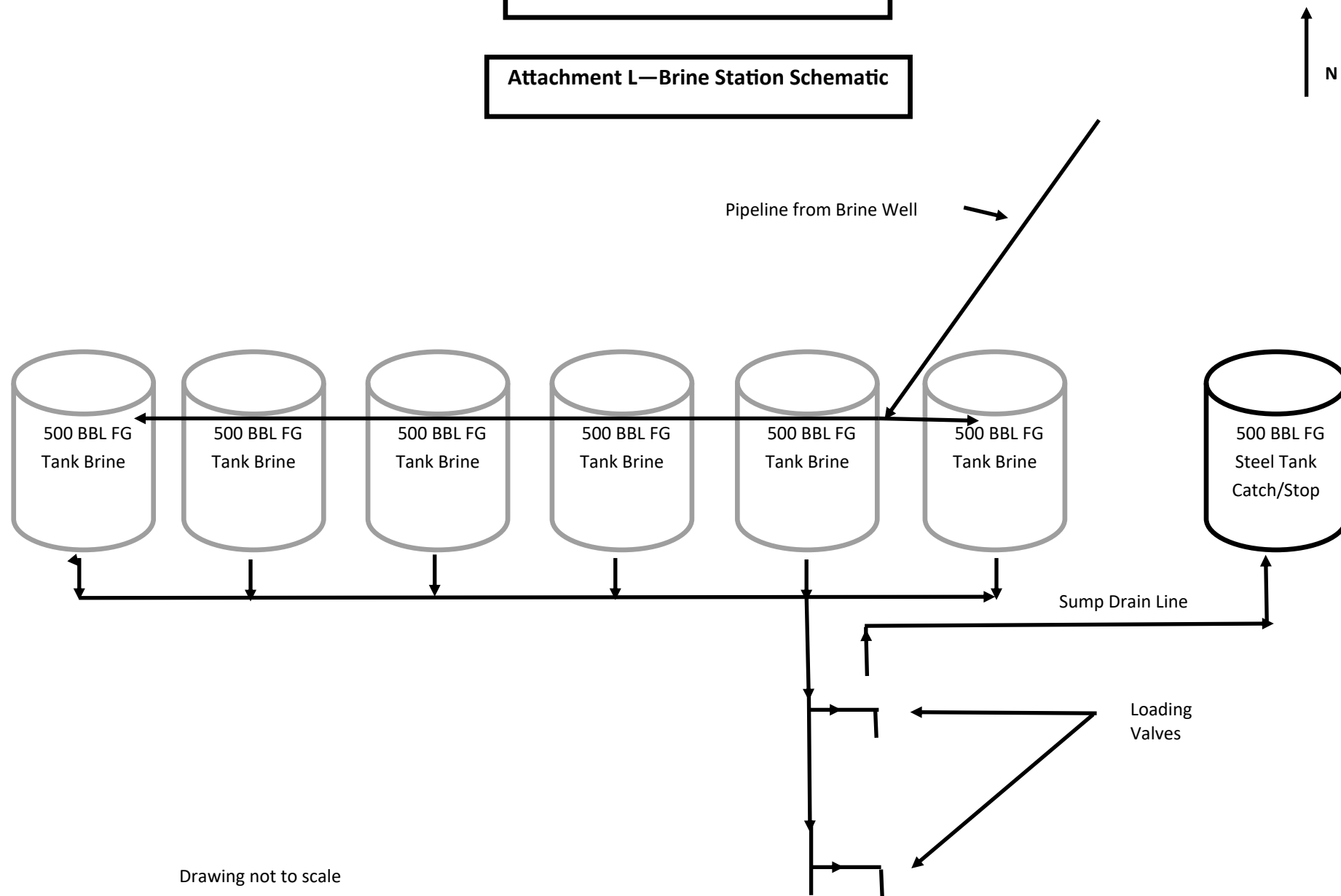


Attachment K

Posted Date - _____

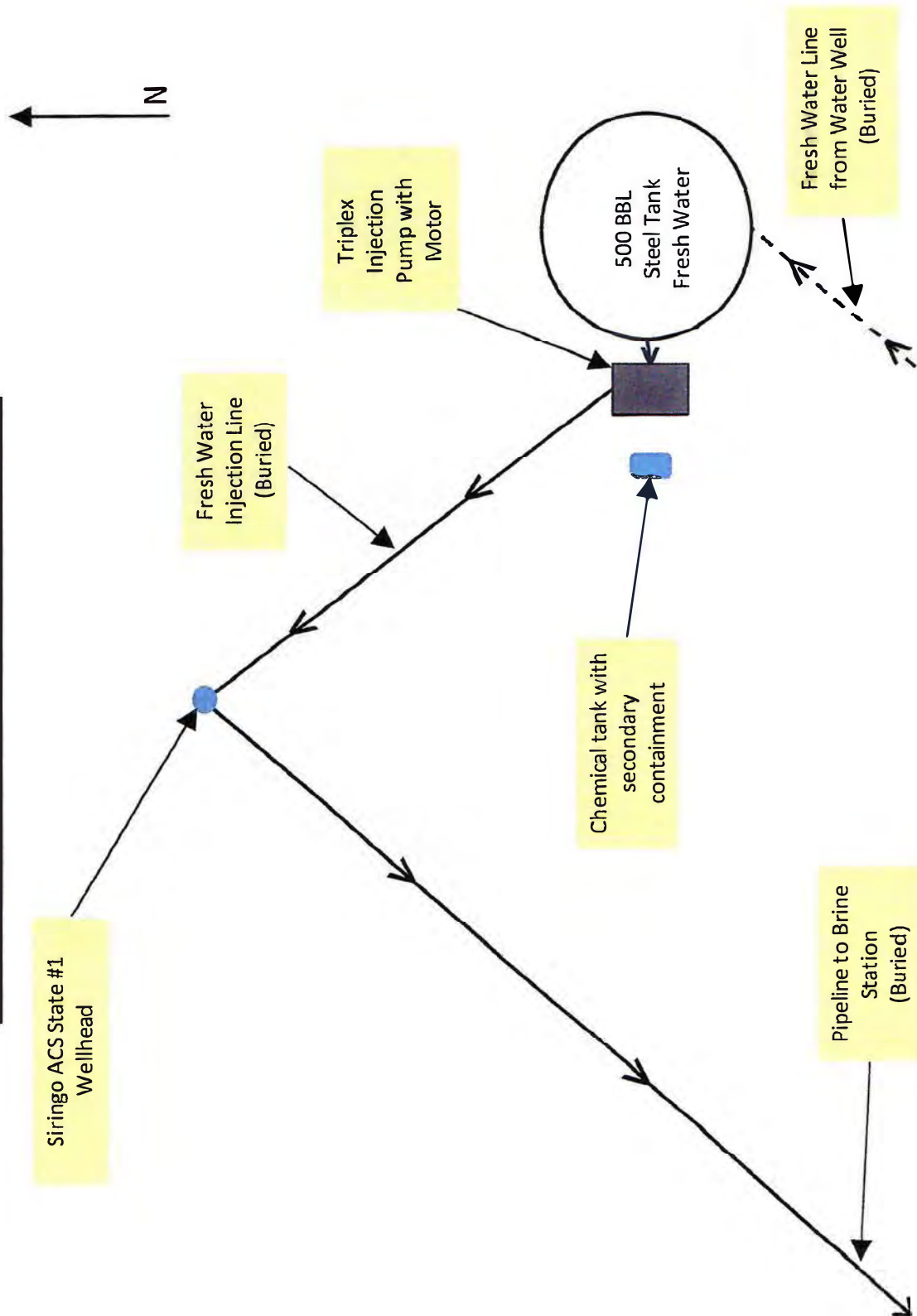
Siringo ACS State # 1
API # 30-025-30701
Discharge Plan Attachments

Attachment L—Brine Station Schematic



**Siringo ACS State #1
API # 30-025-30701
Discharge Plan**

Attachment L - Well Location Schematic



Drawing Not to Scale

PROPOSED WELLBORE

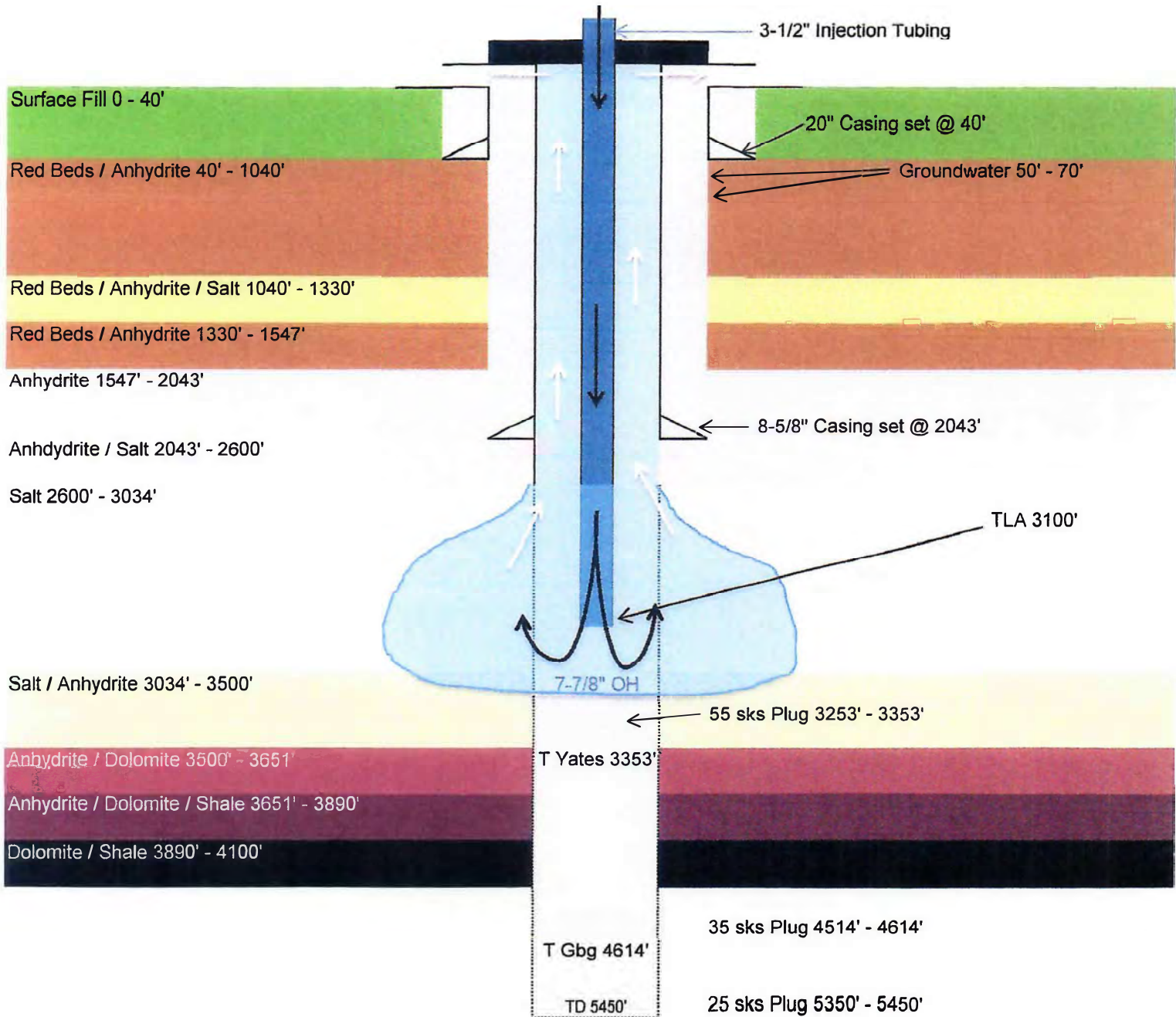
Configured for Brine Well

Llano Disposal, LLC

Siringo ACS State #1

API # 30-025-30701

660' FNL x 660' FWL, UL 'D', Sec 26, T17S, R36E, Lea County, NM

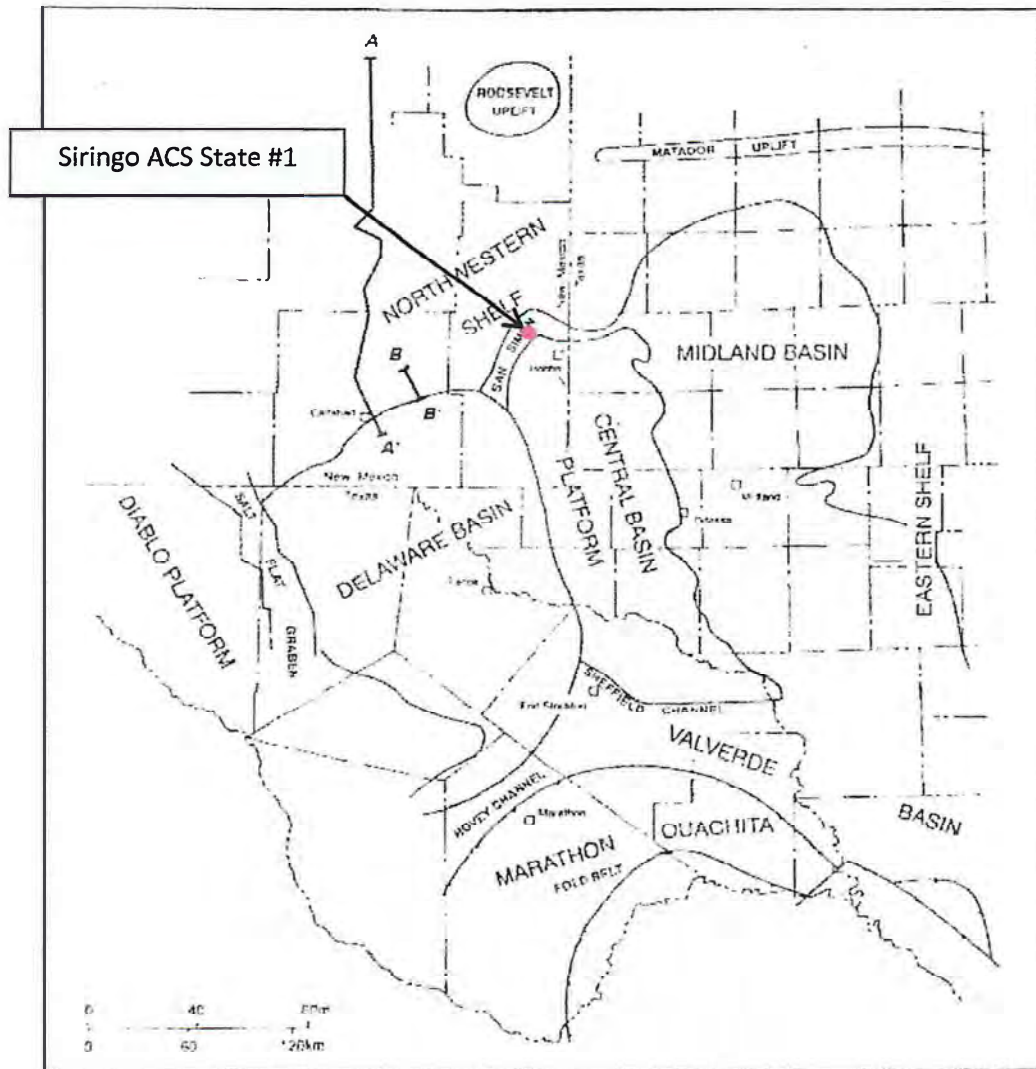


Attachment L
Drawing Not to Scale

Siringo ACS State #1
API # 30-025-30701
Discharge Plan Attachments

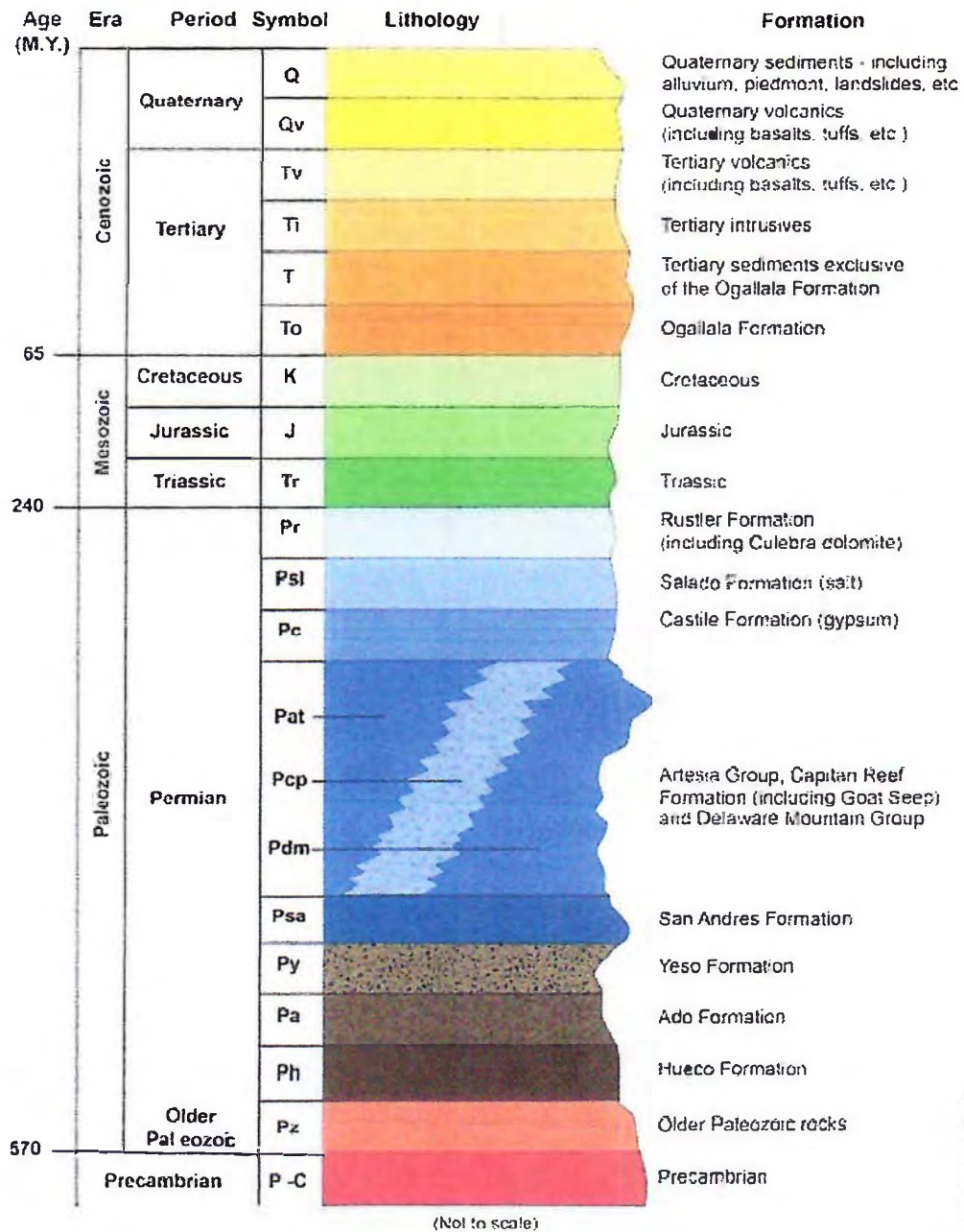
Attachment M – Area Geology

BROADHEAD and SPEER

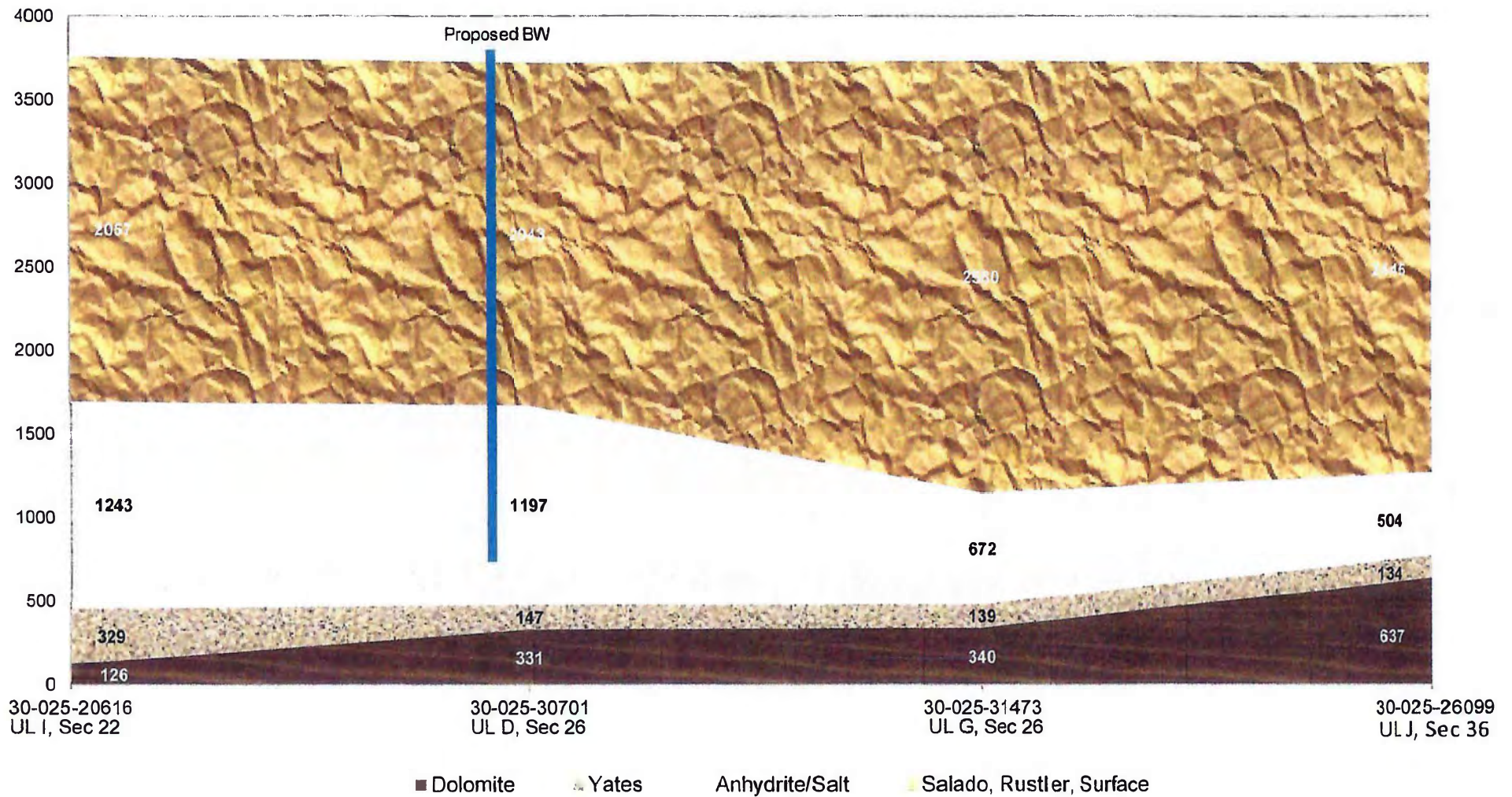


Siringo ACS State #1
API # 30-025-30701
Discharge Plan Attachments

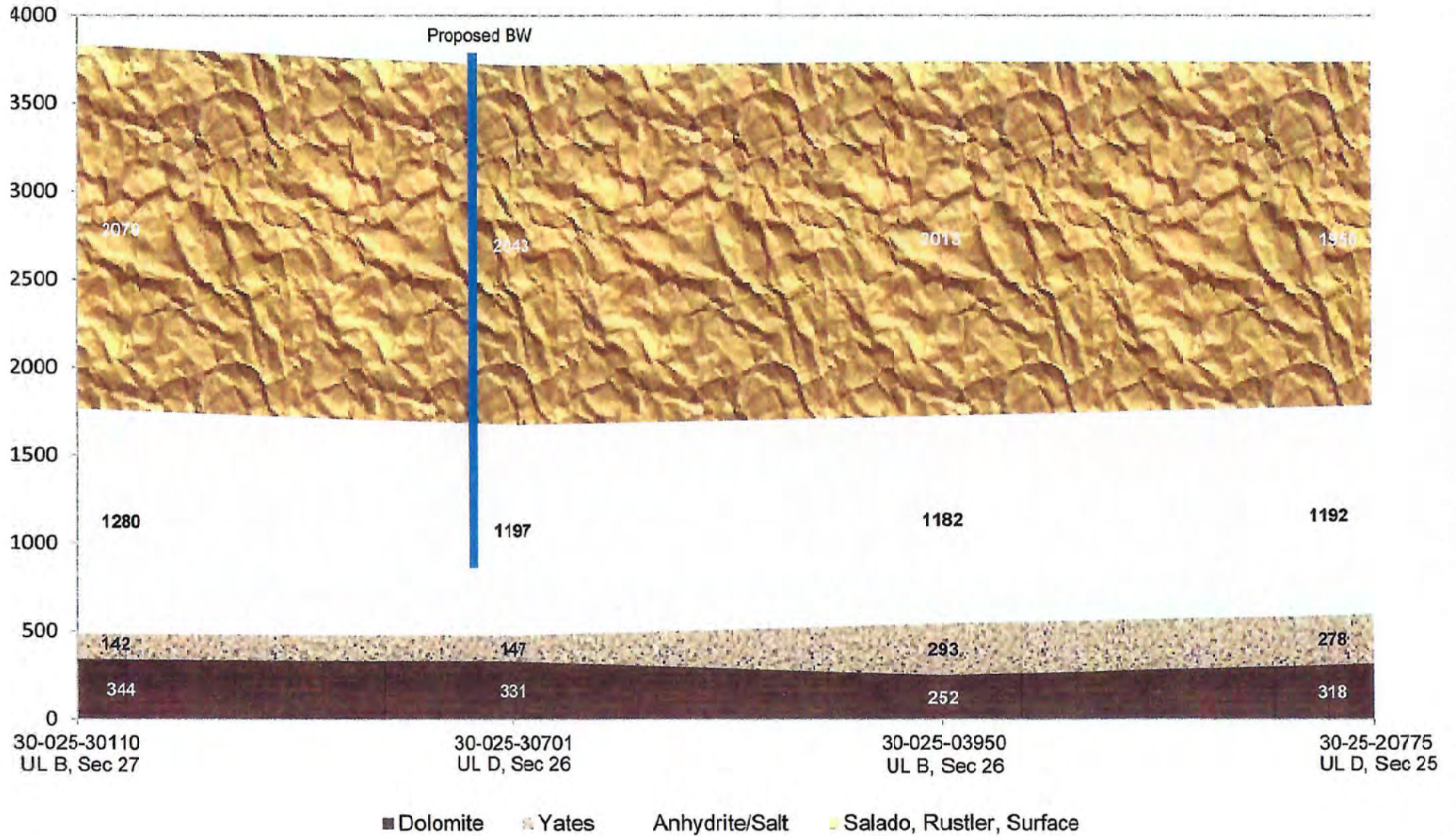
Attachment M – General Lithology



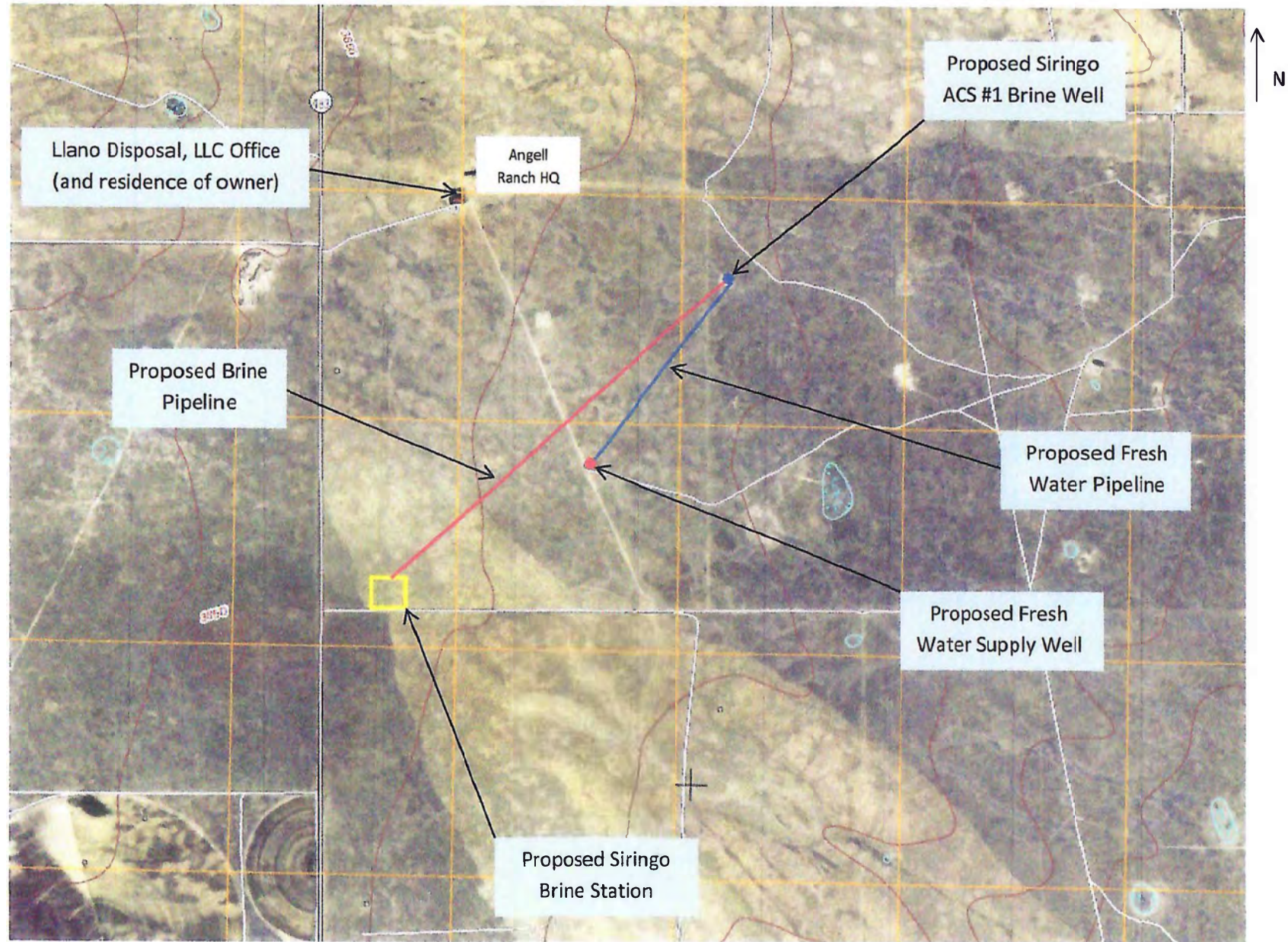
**Siringo ACS State #1
North to South Cross Section
Attachment N**



**Siringo ACS State #1
East to West Cross Section
Attachment N**



Siringo ACS State #1
API # 30-025-30701
Discharge Plan Attachments



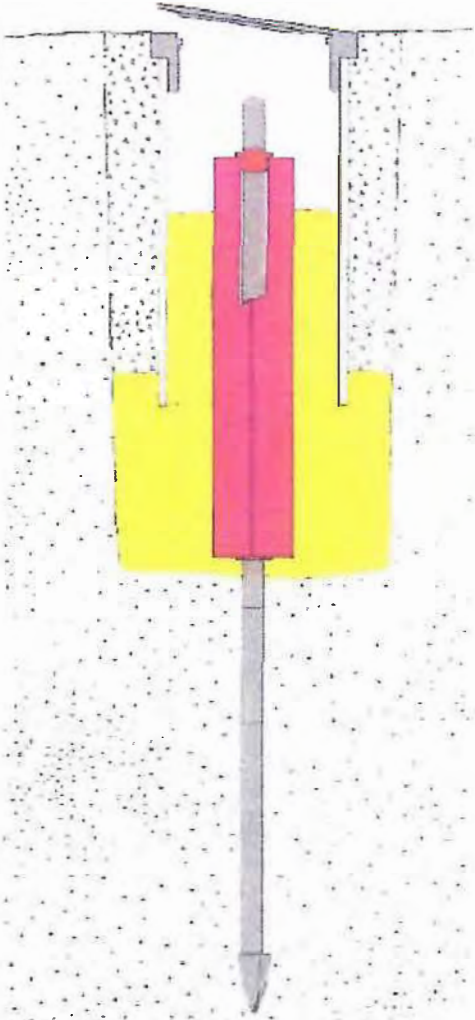






Attachment O – USGS Drainage Map of Project Area

1 mile



Sectional Rod Monuments

Berntsen
Survey Markers

Monument Design	Monument Installation Procedure
<p>SLEEVED ROD MONUMENT WITH FLOATING SLEEVE</p> 	<div data-bbox="701 420 1055 730">  <p>A 12 inch (300 mm) hole is augered to a depth of about 3 1/2 feet (1050 mm).</p> </div> <div data-bbox="1128 420 1485 730">  <p>The rod monument is driven into the ground, a section at a time, to refusal. The top of the last rod should be about 6 inches (150 mm) below the surface. *See page 15</p> </div> <div data-bbox="701 888 1055 1192">  <p>The finned sleeve (filled with grease) is placed over the rod and the datum point added (or filed onto the rod end).</p> </div> <div data-bbox="1128 888 1485 1192">  <p>A 6 inch (150 mm) diameter PVC pipe 3 feet (915 mm) long, with access cover glued on, is placed over the finned sleeve (pipe should not touch the fins). Back-fill (INSIDE the PVC Pipe) with sand.</p> </div> <div data-bbox="701 1354 1055 1659">  <p>The hole and pipe are carefully back-filled with sand. The top 12 inches (300 mm) of the hole (OUTSIDE of the PVC Pipe) are back-filled with concrete.</p> </div> <div data-bbox="1128 1354 1485 1659">  <p>The finished mark - a well protected first-order benchmark.</p> </div>

Attachment P –Subsidence Monument Rod Design and Installation Procedure

Discharge Plan Attachments – Attachment Q

Public Notice

Legal notification for 2' X 3' (min) signage per Water Quality Control Commission Regulations 20.6.2.3108.B.1 NMAC

Llano Disposal, LLC, 783 highway 483, Lovington, NM 88260, Mr. Darr Angell has filed an application with the New Mexico Oil Conservation Division (OCD) to install and operate a Class III brine well and brine station.

The new brine station will be located approximately 900 feet east of this sign. A detailed description and map of the proposed facilities are hereby attached below.

Brine wells are wells completed into salt formations for the purpose of solution mining the salt to create brine water. Fresh water is pumped into deep salt zones thereby producing concentrated salt water called "brine water". This brine water is used in the oilfield primarily for drilling and completion operations. It is anticipated that brine water will be produced at a rate of less than 1900 barrels per day with a total dissolved concentration of 320,000 mg/l (primarily NaCl). Groundwater in this area is present at depths of approximately 40 – 80 feet. The concentration of total dissolved solids in this groundwater is generally about 400 mg/l. The permit requires that the brine well and associated operations must be constructed and operated in a manner that will not adversely affect groundwater quality.

The New Mexico Oil Conservation Division (OCD) will accept comments and statements of interest regarding this application and will create a facility-specific mailing list for persons who wish to receive future notices. Interested persons may contact:

Environmental Bureau Chief
Oil Conservation Division (OCD)
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505
Telephone: 505-476-3440

Siringo ACS State #1

API # 30-025-30701

Discharge Plan Attachments - Attachment Q

Laminated Attachments (8-1/2" x 11" ea) Posted to Bottom of Sign

Page 1 of Detailed Notification	Page 2 of Detailed Notification	Map of Area of Review
<p>Llano Disposal, LLC (Mr. Danny Angel), 783 Highway 483, Lovington, NM 88260 has submitted an application to the New Mexico Oil Conservation Division (NMOCD) for installation and operation of a Class III brine well to be located in Unit Letter D of Section 26, Township 17 South, Range 36 East (Lat. 32.8115005°, Long. -103.3317795°), Lea County, New Mexico. The brine injection wells are located approximately 6.3 miles south of Lovington, New Mexico or 1.1 mile east of the intersection of State Hwy 483 (Arkansas Jct.) and County Road 50 (Buckeye Rd.).</p> <p>The application proposes to produce fresh water from an existing water source well located in Unit Letter J of Section 27, Township 17 South, Range 36 East (Lat. 32.804305°, Long. -103.338220°), Lea County, New Mexico. This fresh water would be transported via a buried polyethylene pipeline approximately 3250 feet north east to a 500 barrel steel water tank located at the brine well location detailed above. From time to time when brine is needed, the fresh water in this tank would be pumped down the tubing within the proposed brine well casing to an approximate depth of 20-43 feet to 3253 feet below ground level at a rate of approximately 40 - 120 GPM and an normal operating pressure of 200 to 250 psi. The maximum allowable surface injection pressure would be 410 psig. Dissolution brine water (H₂O) would then be produced up the well casing backed by cement to surface. This "normal flow" routine fluid flow process is required by the NMOCD to maintain proper salt cavern configuration and development over the operational life of the brine well.</p> <p>The produced brine water could be metered then transported via a second buried polyethylene pipeline approximately 6600 feet south west to four 500 barrel fiberglass storage tanks at the proposed Siringo Brine Station located in Unit Letter M of Section 27, Township 17 South, Range 36 East (Lat. 32.798816°, Long. -103.347123°), Lea County, New Mexico. This brine station is located approximately 9.3 miles south of Lovington, New Mexico or 1 mile south-south-east of the intersection of State Hwy 483 (Arkansas Jct.) and County Road 50 (Buckeye Rd.) and 1/4 mile east of SH 483. The brine water would be transferred sold by delivery into water trucks on a concrete loading pad with containment curbing and a sump to prevent spills. There would be a synthetic liner and secondary containment underneath the brine storage tanks. All of the above listed infrastructure is located on private land owned by the applicant.</p> <p>Brine water is used in the oil and gas industry to supply concentrated salt water (i.e. brine water) with a total dissolved concentration of approximately 320,000 mg/l and a density that is 20% higher than fresh water. Typical brine water is 10 pounds per gallon (ppg) with the increased weight due to dissolved salt. Heavy brine water is essential in preventing blow-outs in high pressure gas wells and prevents loss of circulation when drilling through salt zones typically found in southeastern New Mexico.</p> <p>The brine well will be designed to produce approximately 13 million barrels of brine water over a 20 year life period. The anticipated cavern radius will not exceed 150 feet. The well has been located on private land and provides a minimum of 2000 feet separation from any significant features, such as houses, roads, utilities, pipelines, water supplies, buildings, schools, businesses, etc.</p> <p>Groundwater possibly affected by an unintentional spill or leak is located at a depth of approximately 40-60 feet below ground level. Typical groundwater in this area has a total dissolved solids concentration of</p>	<p>approximately 400 mg/l. According to the Office of the State Engineer, average water well depths in the area are 107 feet below ground level. The brine facility will be designed and permitted to have no intentional water contaminants discharged to the surface or subsurface for the protection of groundwater. The brine station will have a concrete loading pad for trucks and will have a synthetic liner underneath tank areas to prevent any spills or leaks from reaching the ground surface. The brine well will have cemented casing and tubing strings to protect groundwater.</p> <p>The owner and operator of the proposed facility will be:</p> <p style="text-align: center;">Llano Disposal, LLC 783 Highway 483 Lovington, NM 88260</p> <p>Comments and inquiries about the application may be directed to Llano Disposal, LLC c/o Mr. Danny Holcomb at 806-471-5628 or email danny@cwlc.net. Mr. Holcomb is a consultant to Llano Disposal providing assistance obtaining the regulatory permits for this project.</p> <p>The New Mexico Oil Conservation Division (OCD) will accept comments and statements of interest regarding this application and will create a facility-specific mailing list for persons who wish to receive future notices. Persons interested in obtaining further information, submitting comments or requesting to be on a facility-specific mailing list for future notices may contact:</p> <p style="text-align: center;">Environmental Bureau Chief New Mexico Oil Conservation Division 1220 South Saint Francis Drive Santa Fe, New Mexico 87505 Telephone: 505-476-3440</p>	<p style="text-align: center;">Siringo State BW and Facility</p> <p>December 15, 2015</p> <p>1173, R36E Lea County, New Mexico</p> <p>Legend: <input type="checkbox"/> PLSS Township <input type="checkbox"/> PLSS Section Division</p> <p style="text-align: right; font-size: small;">Source: BLM, USGS, and other data sources Scale: 1 inch = 1 mile</p>

Notificación Aviso

Notificación legal de 2' X 3' (min) señalización por Reglamento de Comisión de Control de Calidad de Agua

20.6.2.3108.B.1 NMAC

Llano Disposal, LLC, 783 Highway 483, Lovington, NM 88260, Sr. Darr Angell ha presentado una solicitud con el División de Conservación de Petróleo de Nuevo México para instalar y operar así una salmuera de clase III y estación de la salmuera.

La nueva estación de salmuera será situados aproximadamente 900 pies al este de este signo.
Una descripción detallada y un mapa de las instalaciones propuestas por este medio se unen por debajo.

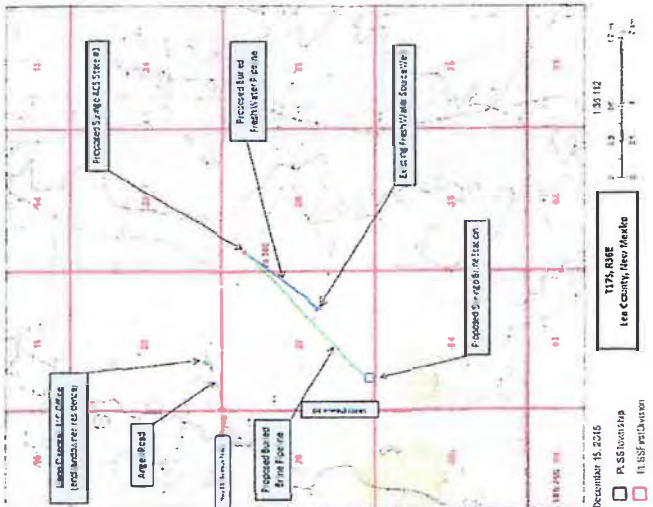
Pozos de salmuera son pozos completados en formaciones de sal con el propósito de la solución de minería de la sal para crear agua de la salmuera. Agua dulce es bombeado en zonas profundas sal tal modo produciendo concentrado agua salada llamado "agua de la salmuera". Esta agua de la salmuera se utiliza en el campo petrolífero principalmente para operaciones de perforación y terminación. Se prevé que se producirán salmuera agua a una velocidad de menos de 1900 barriles por día con una concentración disuelta total de 320.000 mg/l (principalmente NaCl). Agua subterránea en esta área está presente en aproximadamente 40 a 80 pies de profundidad. La concentración de sólidos totales disueltos en esta agua subterránea es generalmente cerca de 400 mg/l. El permiso requiere que la salmuera bien y asociados las operaciones deben ser construidas y operadas en un asunto que no afectará negativamente la calidad de las aguas subterráneas.

El División de Conservación de Petróleo de Nuevo México se aceptan comentarios y declaraciones de interés respecto a esta aplicación y creará una lista de correo de instalaciones específicas para las personas que deseen recibir futuras notificaciones. Las personas interesadas podrán en contacto con:

Jefe de la Oficina Ambiental
División de Conservación de Petróleo de Nuevo México
1220 South Saint Francis Drive
Santa Fe, New México 87505
Teléfono: 505-476-3440

Discharge Plan Attachments-Attachment Q

Laminado los archivos adjuntos (8-1/2 "x 11") publicado a parte inferior de la señal

Página 1 de notificación detallada	Página 2 de notificación detallada	Mapa del área de revisión
<p>Llano Disposal, LLC (Sr. Dan Angeli), 763 Highway 483, Lovington, NM 88260 ha presentado una solicitud para la División de Conservación de Petróleo de Nuevo México (NMDOR) para la instalación y operación de una estación de la salmuera bien que se encuentra en la Unidad de Lección 26, municipio de 17 sur, gama 36 Oriente (Lat. 32.8115005° Long. -103.3317795°). Condado Lea, Nuevo México. La dirección de salmuera es bien situada a aproximadamente 8.3 millas al sur del Lovington, Nuevo México o 1.1 millas al este de la intersección de estado Hwy 483 (Ud de Aransas); County Road 50 (Buckeye Rd).</p> <p>La aplicación propone producir agua fresca de una fuente existente de agua bien ubicada en la Unidad de Lección 27, municipio de 17 sur, gama 36 Oriente (Lat. 32.804305° Long. -103.336231°). Condado Lea, Nuevo México. Este agua dulce transportarse a través de una tubería de polietileno enterrada aproximadamente 3250 pies al noreste para un tanque de agua 500 barriles de acero situado en la salmuera bien ubicada de la Unidad de Lección 27. De vez en cuando se necesita salmuera, el agua en este tanque se bombea hacia abajo de la tubería dentro de la salmuera propuesta en el fondo de un pozo a una profundidad aproximada de 2043 a 3253 pies debajo del nivel del suelo a una tasa de aproximadamente 40-120 GPM, una presión normal de 200 a 250 psi. La presión de inyección superficial permisible máxima sería 410 psig. Agua de disolución salmuera (La Cl) entonces produciría hasta la cisterna bien respaldado por cemento a superficie. Este proceso de flujo nublado "hubo normal" es requerido por la NMDOR para mantener la configuración de cavema de sal adecuada y desmoronamiento durante la vida operativa de la salmuera bien.</p> <p>El agua de la salmuera producida se mide y entonces transportada por una tubería de polietileno enterrado según aproximadamente 6600 pies sobre el suelo a través de 500 tanques de almacenamiento de floración vidio en la estación de salmuera Siringo propuesto ubicado en la Unidad de Lección 27, municipio de 17 sur, gama 36 Oriente (Lat. 32.798816° Long. -103.347125°). Condado Lea, Nuevo México. Esta estación de salmuera está situada aproximadamente 9.3 millas al sur de Lovington, Nuevo México o 1 milla sur-sureste de la intersección de estado Hwy 483 (Ud de Aransas); County Road 50 (Buckeye Rd) y 1/2 milla al este de 483 SH. El agua de la salmuera sería transferido en el pozo por entrega encanabones de agua sobre una almohadilla con frenos de conexión de carga de cemento y un colector de acero para el agua de drenaje, tubería uniflora sintético y conexión secundario de abajo de los tanques de almacenamiento de la salmuera. Toda la infraestructura lista anterior se encuentra en terrenos privados propiedad de la demandante.</p> <p>Agua de la salmuera se utiliza en el acrílico y la industria de papel para suministrar concentrado de sal agua (es decir, salmuera) con una concentración suficiente de aproximadamente 320,000 mg/l y una densidad que es 20% mayor de agua dulce. Salmuera típica es 10 libras por galón con el aumento de peso debido a la CaCl₂ disuelto. Agua de salmuera pesada es esencial en la prevención de salidas de golpe en pozos de gas de alta presión y previene la pérdida de circulación durante la perforación a través de zonas de sal suelen encontradas en el sureste de Nuevo México.</p> <p>Bien la salmuera se diseñará para producir aproximadamente 13 millones de barriles de salmuera durante un período de vida de 20 años. El radio cavema anticipado no exceda de 150 pies. El pozo se</p>	<p>ha situado en terrenos privados y un mínimo de 2000 pies de separación de las características impoñentes, tales como casas, caminos, utilidades, tuberías, suministro de agua, edificios, escuelas, empresas, etc.</p> <p>Agua subterránea posiblemente afectado por un derrame accidental o escape se encuentra a una profundidad de aproximadamente 40-80 pies debajo de nivel del suelo. Tipo agua subterránea en esta área tiene una concentración de cloruros disueltos totales de aproximadamente 400 mg/l. Según la oficina del ingeniero de estado, profundidades bien media del agua en la zona con 107 pies debajo de nivel del suelo. La instalación de la salmuera será diseñada y puede no tener contaminantes intrínsecos de agua descargadas a la superficie o subsuperficie para la protección de las aguas subterráneas. La estación de salmuera tendrá una plataforma de carga de cemento para camiones y tendrá un revestimiento sintético debajo de áreas de depósitos para evitar cualquier vertido o derrame accidental de llegar a la superficie de la tierra. La salmuera bien a través de cenizas, tuberías y tubos cadenas para proteger las aguas subterráneas.</p> <p>El propietario y operador de la instalación propuesta será:</p> <p>Llano Disposal, LLC 763 Highway 483 Lovington, NM 88260</p> <p>Comentarios y consultas sobre la aplicación pueden ser dirigidos a disposición Llano, LLC c/o Sr. Danny Holcomb en 505-471-5628 o por correo electrónico danny@llanodisposal.com. Si Sr. Holcomb es consultor para proporcionar asistencia de Llano Disposal obtener los permisos regulatorios para este proyecto.</p> <p>La División de Conservación de Petróleo de Nuevo México se aceptan comentarios y declaraciones de interés respecto a esta aplicación y creará una lista de correo de instalaciones específicas para las personas que deseen recibir futuras notificaciones. Puede contactar a las personas interesadas en obtener más información, enviar comentarios o solicitar estar en una lista de correo de instalaciones específicas para futuros avisos:</p> <p>Jefe de la Oficina Ambiental División de Conservación de Petróleo de Nuevo México 1220 South Saint Francis Drive Santa Fe, NM 87505 Teléfono: 505-476-3440</p>	<p>Siringo State BW and Facility</p>  <p>December 18, 2015</p> <p>ASB location NMDOR Division</p> <p>1175, R38E Lee County, New Mexico</p>

Siringo ACS State #1
API #30-025-30701
Discharge Plan Attachments - Attachment R

Public Notice

**Legal notification for offsite Public Notice per Water Quality Control
Commission Regulations 20.6.2.3108.B.1 NMAC**

Llano Disposal, L.L.C. (Mr. Darr Angell), 783 Highway 483, Lovington, NM 88260 has submitted an application to the New Mexico Oil Conservation Division (NMOCD) for installation and operation of a Class III brine well to be located in Unit Letter D of Section 26, Township 17 South, Range 36 East (Lat. 32.8115005°, Long. -103.3317795°), Lea County, New Mexico. The brine injection well is located approximately 8.3 miles south of Lovington, New Mexico or 1.1 miles east of the intersection of State Hwy 483 (Arkansas Jct.) and County Road 50 (Buckeye Rd).

The application proposes to produce fresh water from an existing water source well located in Unit Letter J of Section 27, Township 17 South, Range 36 East (Lat. 32.804305°, Long. -103.338230°), Lea County, New Mexico. This fresh water would be transported via a buried polyethylene pipeline approximately 3250 feet northeast to a 500 barrel steel water tank located at the brine well location detailed above. From time to time when brine is needed, the fresh water in this tank would be pumped down the tubing within the proposed brine well casing to an approximate depth of 2043 feet to 3253 feet below ground level at a rate of approximately 40 - 120 GPM and a normal operating pressure of 200 to 250 psi. The maximum allowable surface injection pressure would be 410 psig. Dissolution brine water (NaCl) would then be produced up the well casing backed by cement to surface. This "normal flow" routine fluid flow process is required by the NMOCD to maintain proper salt cavern configuration and development over the operational life of the brine well.

The produced brine water would be metered then transported via a second buried polyethylene pipeline approximately 6600 feet southwest to six, 500 barrel fiberglass storage tanks at the proposed Siringo Brine Station located in Unit Letter M of Section 27, Township 17 South, Range 36 East (Lat. 32.798816°, Long. -103.347123°), Lea County, New Mexico. This brine station is located approximately 9.3 miles south of Lovington, New Mexico or 1 mile south-south-east of the intersection of State Hwy 483 (Arkansas Jct.) and County Road 50 (Buckeye Rd) and ¼ mile east of SH 483. The brine water would be transferred/sold by delivery into water trucks on a concrete loading pad with containment curbing and a sump to prevent spills. There would be a synthetic liner and secondary containment underneath the brine storage tanks. All of the above listed infrastructure is located on private land owned by the applicant.

Brine water is used in the oil and gas industry to supply concentrated salt water (i.e. brine water) with a total dissolved concentration of approximately 320,000 mg/l and a density that is 20% higher than fresh water. Typical brine water is 10 pounds per gallon (ppg) with the increased weight due to dissolved NaCl. Heavy brine water is essential in preventing blow-outs in high pressure gas wells and prevents loss of circulation when drilling through salt zones typically found in southeastern New Mexico.

The brine well will be designed to produce approximately 13 million barrels of brine water over a 20 year life period. The anticipated cavern radius will not exceed 150 feet. The well has been located on private land and provides a minimum of 2000 feet separation from any significant features, such as houses, roads, utilities, pipelines, water supplies, buildings, schools, businesses, etc.

**Siringo ACS State #1
API #30-025-30701
Discharge Plan Attachments - Attachment R**

Groundwater possibly affected by an unintentional spill or leak is located at a depth of approximately 40 – 80 feet below ground level. Typical groundwater in this area has a total dissolved solids concentration of approximately 400 mg/l. According to the Office of the State Engineer, average water well depths in the area are 107 feet below ground level. The brine facility will be designed and permitted to have no intentional water contaminants discharged to the surface or subsurface for the protection of groundwater. The brine station will have a concrete loading pad for trucks and will have a synthetic liner underneath tanks areas to prevent any spills or leaks from reaching the ground surface. The brine well will have cemented casing and tubing strings to protect groundwater.

The owner and operator of the proposed facility will be:

Llano Disposal, LLC
783 Highway 483
Lovington, NM 88260

Comments and inquiries about the application may be directed to Llano Disposal, LLC c/o Mr. Marvin Burrows 575–631–8067 or email ch2o.fresh@gmail.com. Mr. Burrows is a consultant to Llano Disposal providing assistance with this project.

The New Mexico Oil Conservation Division (OCD) will accept comments and statements of interest regarding this application and will create a facility-specific mailing list for persons who wish to receive future notices. Persons interested in obtaining further information, submitting comments or requesting to be on a facility-specific mailing list for future notices may contact:

Environmental Bureau Chief
New Mexico Oil Conservation Division
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505
Telephone: 505-476-3440

**Siringo ACS State #1
API #30-025-30701
Discharge Plan Attachments - Attachment R**

Aviso Público

**Legal notificación para fuera del sitio aviso público por Reglamento de
Comisión de Control de Calidad de Agua 20.6.2.3108.B.1 NMAC**

Llano Disposal, L.L.C. (Sr. Darr Ángell), 783 Highway 483, Lovington, NM 88260 ha presentado una solicitud para La División de Conservación de Petróleo de Nuevo México (NMOCD) para la instalación y operación de una clase III de la salmuera bien que se encuentra en la unidad letra D de la sección 26, municipio de 17 sur, gama 36 Oriente (Lat. 32.8115005°, Long. -103.3317795°), Condado Lea, Nuevo México. La inyección de salmuera es bien situados aproximadamente 8,3 millas al sur de Lovington, Nuevo México o 1,1 millas al este de la intersección de estado Hwy 483 (Jct de Arkansas) y County Road 50 (Buckeye Rd).

La aplicación propone producir agua fresca de una fuente existente de agua bien ubicada en unidad letra J de la sección 27, municipio de 17 sur, gama 36 Oriente (Lat. 32.804305°, Long. -103.338230°), Condado Lea, Nuevo México. Este agua dulce transportarse a través de una tubería de polietileno enterrada aproximadamente 3250 pies al noreste para un tanque de agua 500 barril de acero situado en la salmuera bien ubicación detallada anteriormente. De vez en cuando se necesita salmuera, el agua en este tanque se bombea hacia abajo de la tubería dentro de la salmuera propuesta entubado del pozo a una profundidad aproximada de pies 2043 a 3253 pies debajo de nivel del suelo a una tasa de aproximadamente 40-120 GPM y una presión normal de 200 a 250 psi. La presión de inyección superficial permisible máxima sería 410 psig. Agua de disolución salmuera (NaCl) entonces se produciría hasta la carcasa bien respaldada por el cemento a superficie. Este proceso de flujo rutinario "flujo normal" es requerido por la NMOCD para mantener la configuración de caverna de sal adecuada y desarrollo durante la vida operativa de la salmuera bien.

El agua de la salmuera producida se mide entonces transportado por una tubería de polietileno enterrada segundo aproximadamente 6600 pies sudoeste cuatro barril 500 tanques de almacenamiento de fibra de vidrio en la estación de salmuera Siringo propuesto ubicado en unidad letra M de la sección 27, municipio de 17 sur, gama 36 Oriente (Lat. 32.798816°, Long. -103.347123°), Condado Lea, Nuevo México. Esta estación de salmuera está situados aproximadamente 9,3 millas al sur de Lovington, Nuevo México o 1 milla sur-sureste de la intersección de estado Hwy 483 (Jct de Arkansas) y County Road 50 (Buckeye Rd) y ¼ milla al este de 483 SH. El agua de la salmuera sería transferido/vendido por entrega en camiones de agua sobre una almohadilla con frenar de contención de carga de cemento y un colector de aceite para evitar derrames. Habría un forro sintético y contención secundaria debajo de los tanques de almacenamiento de la salmuera. Toda la infraestructura lista anterior se encuentra en terrenos privados propiedad de la demandante.

Agua de la salmuera se utiliza en el aceite y la industria del gas para suministrar concentrado sal agua (es decir, salmuera) con una concentración disuelta total de aproximadamente 320.000 mg/l y una densidad que es 20% mayor de agua dulce. Salmuera típica está 10 libras por galón con el aumento de peso debido a NaCl disuelto. Agua de salmuera pesada es esencial en la prevención de salidas de golpe en pozos de gas de alta presión y previene la pérdida de circulación durante la perforación a través de zonas de sal suelen encontradas en el sureste de nuevo México.

Siringo ACS State #1
API #30-025-30701
Discharge Plan Attachments - Attachment R

Bien la salmuera se diseñará para producir aproximadamente 13 millones de barriles de salmuera durante un período de vida de 20 años. El radio caverna anticipada no excederá de 150 pies. El pozo se ha situado en terrenos privados y un mínimo de 2000 pies de separación de las características importantes, tales como casas, caminos, utilidades, tuberías, suministro de agua, edificios, escuelas, empresas, etc.

Agua subterránea posiblemente afectado por un derrame accidental o escape se encuentra a una profundidad de aproximadamente 40 – 80 pies debajo de nivel del suelo. Típico agua subterránea en esta área tiene una concentración de sólidos disueltos totales de aproximadamente 400 mg/l. Según la oficina del ingeniero de estado, profundidades bien media del agua en la zona son 107 pies debajo de nivel del suelo. La instalación de la salmuera será diseñada y puede no tener contaminantes intencional de agua descargadas a la superficie o subsuperficie para la protección de las aguas subterráneas. La estación de salmuera tendrá una plataforma de carga de cemento para camiones y tendrá un revestimiento sintético debajo de áreas de depósitos para evitar cualquier vertido o derrame accidental de llegar a la superficie de la tierra. La salmuera bien habremos cementado carcasa y tubos cadenas para proteger las aguas subterráneas.

El propietario y operador de la instalación propuesta será:

Llano Disposal, LLC
783 Highway 483
Lovington, NM 88260

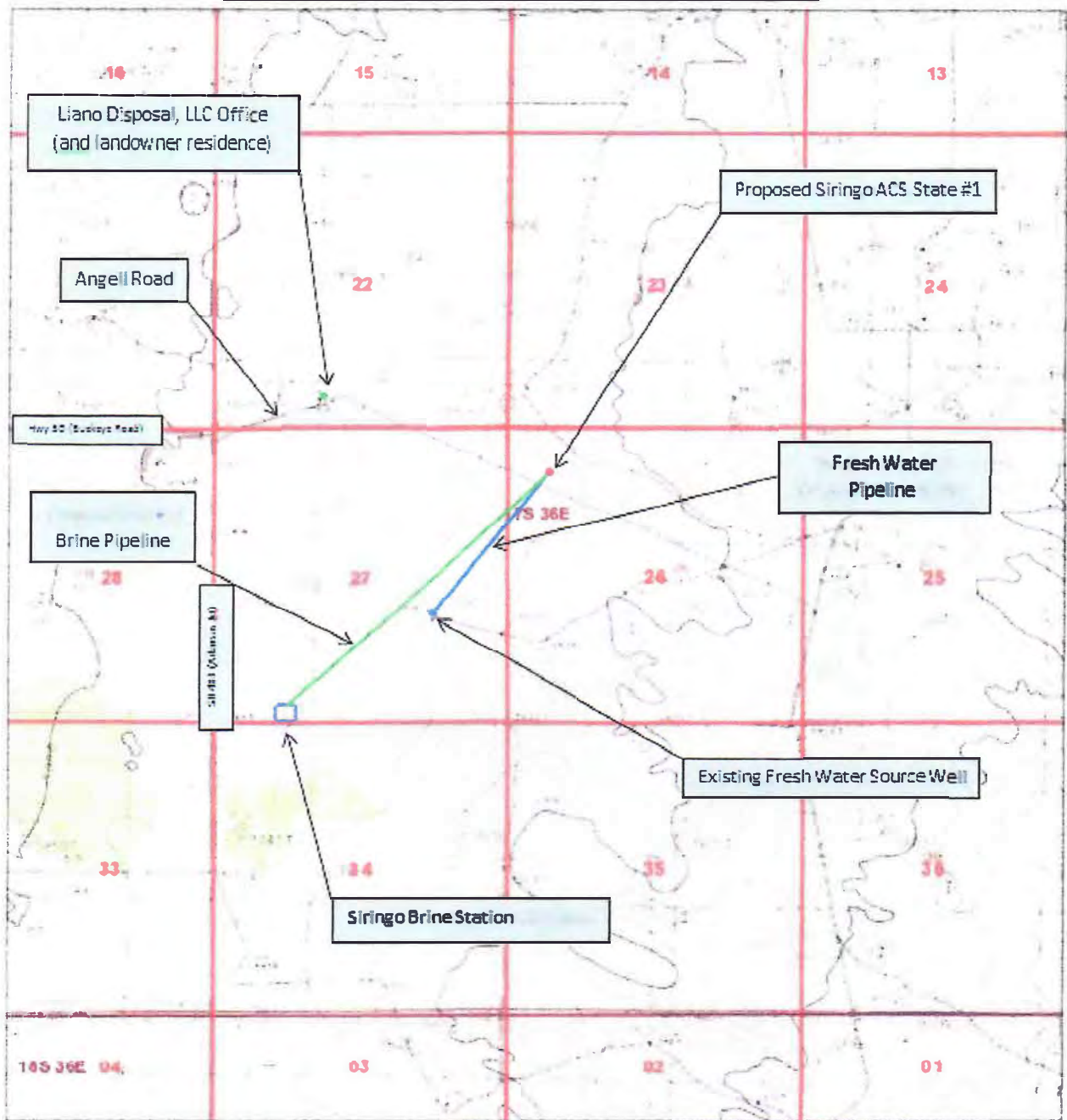
Comentarios y consultas sobre la aplicación pueden ser dirigidas a disposición Llano, LLC c/o Sr. Marvin Burrows en 575-631-8067 o por correo electrónico ch2o.fresh@gmail.com . El Sr. Burrows es consultor para proporcionar asistencia de Llano Disposal obtener los permisos reglamentarios para este proyecto.

La División de Conservación de Petróleo de Nuevo México se aceptan comentarios y declaraciones de interés respecto a esta aplicación y creará una lista de correo de instalaciones específicas para las personas que deseen recibir futuras notificaciones. Puede contactar a las personas interesadas en obtener más información, enviar comentarios o solicitar estar en una lista de correo de instalaciones específicas para futuros avisos:

Jefe de la Oficina Ambiental
División de Conservación de Petróleo de Nuevo México
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505
Teléfono: 505-476-3440

**Siringo ACS State #1
API #30-025-30701
Discharge Plan Attachments - Attachment R**

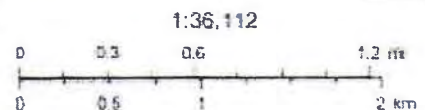
Siringo ACS State #1 BW and Facility



December 15, 2015

- PLSS Township
- PLSS First Division

**T17S, R36E
Lea County, New Mexico**



disclaimer: DGP
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**Siringo ACS State #1
API # 30-025-30701
Discharge Plan Attachments - Attachment S**

Public Notice Letter

Certified Mail

Date: _____

Property Owner of Record

Name:

Address:

City/State:

Public Notice

Legal notification per Water Quality Control Commission Regulations 20.6.2.3108.B.2 NMAC to property owner(s) of record that adjoin the property owned by the applicant.

Llano Disposal, LLC, 783 Highway 483, Lovington, NM 88260, Mr. Darr Angell has filed an application with the New Mexico Oil Conservation Division (OCD) to operate a Class III brine well to be located in Unit Letter D of Section 26, Township 17 South, Range 36 East (Lat. 32.8115005°, Long. -103.3317795°), Lea County, New Mexico. The brine well is located on the Angell Ranch approximately 8.3 miles south of Lovington, New Mexico or 1.1 miles east of the intersection of State Hwy 483 (Arkansas Jct) and County Road 50 (Buckeye Rd).

The application proposes to produce fresh water from an existing water source well located in Unit Letter J of Section 27, Township 17 South, Range 36 East (Lat. 32.804305°, Long. -103.338230°), Lea County, New Mexico. This fresh water would be transported from the well via a buried polyethylene pipeline approximately 3250 feet northeast to a 500 barrel steel water tank located at the brine well location detailed above. From time to time when brine was needed, the fresh water in this tank would be pumped down the tubing within the proposed brine well casing to an approximate depth of 2043 feet to 3253 feet below ground level at a rate of approximately 40 - 120 GPM and a normal operating pressure of 200 to 250 psi. The maximum allowable surface injection pressure would be 410 psig. Dissolution brine water (NaCl) is then produced up the well casing backed by cement to surface. This "normal flow" routine fluid flow process is required by the NMOCD to maintain proper salt cavern configuration and development over the operational life of the brine well.

The produced brine water would be metered then transported via another buried polyethylene pipeline approximately 6600 feet southwest to six 500 barrel fiberglass storage tanks at the proposed Siringo Brine Station located in Unit Letter M of Section 27, Township 17 South, Range 36 East (Lat. 32.798816°, Long. -103.347123°), Lea County, New Mexico. This brine station is located approximately 9.3 miles south of Lovington, New Mexico or 1 mile south-south-east of the intersection of State Hwy 483 (Arkansas Jct) and County Road 50 (Buckeye Rd) and ¼ mile east of SH 483. The brine water would be transferred/sold by delivery into water trucks on a concrete loading pad with containment curbing and a sump to prevent spills. There would be a synthetic liner and secondary containment underneath the brine storage tanks. All of the above listed infrastructure is located on private land owned by the applicant.

Siringo ACS State #1
API # 30-025-30701
Discharge Plan Attachments - Attachment S

Brine water is used in the oil and gas industry to supply concentrated salt water (i.e. brine water) with a total dissolved concentration of approximately 320,000 mg/l and a density that is 20% higher than fresh water. Typical brine water is 10 pounds per gallon (ppg) with the increased weight due to dissolved NaCl. Heavy brine water is essential in preventing blow-outs in high pressure gas wells and prevents loss of circulation when drilling through salt zones typically found in southeastern New Mexico.

The brine well will be designed to produce approximately 13 million barrels of brine water over a 20 year life period. The anticipated cavern radius will not exceed 150 feet. The well has been located on private land to provide a minimum of 2000 feet separation from any significant features, such as houses, roads, utilities, pipelines, water supplies, buildings, schools, businesses, etc.

Groundwater possibly affected by an unintentional spill or leak is at a depth of approximately 40 – 80 feet below ground level with a total dissolved solids concentration of approximately 400 mg/l. According to the Office of the State Engineer, average water well depths in the area are 107 feet below ground level. This brine facility will be designed and permitted to have no intentional water contaminants discharged to the surface or subsurface for the protection of groundwater. The brine station will have a concrete loading pad and synthetic liner underneath tanks areas to prevent any spills or leaks from reaching the ground surface. The brine well will have cemented casing and tubing strings to protect groundwater.

The owner and operator of the proposed facility will be:

Llano Disposal, LLC
783 Highway 483
Lovington, NM 88260

Comments or inquiries about this application may be directed to Llano Disposal, LLC c/o Mr. Marvin Burrows at 575-631-8067 or email ch2o.fresh@gmail.com Mr. Burrows is a consultant to Llano Disposal providing assistance with this project.

The New Mexico Oil Conservation Division (NMOCD) will accept comments and statements of interest regarding this application and will create a facility-specific mailing list for persons who wish to receive future notices. Persons interested in obtaining further information, submitting comments or requesting to be on a facility-specific mailing list for future notices may contact:

Environmental Bureau Chief
Oil Conservation Division
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505
Telephone: 505-476-3440

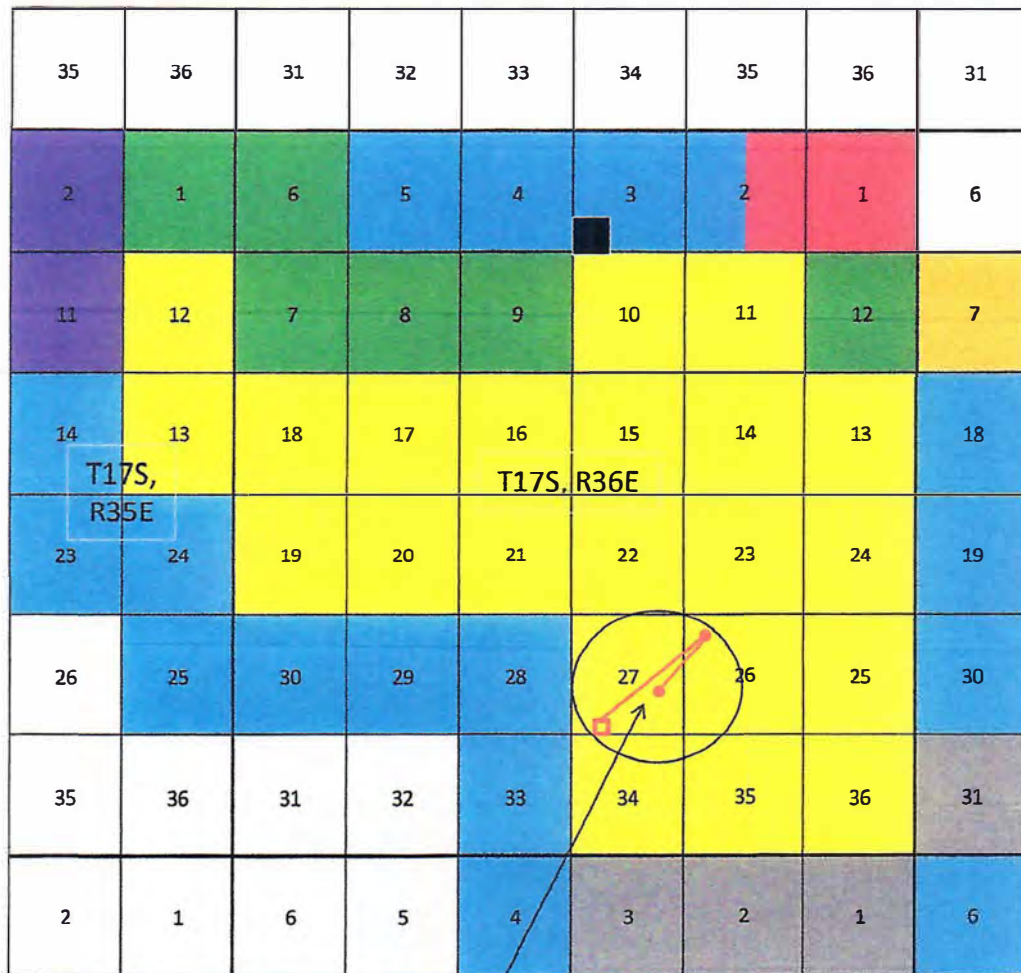
Sincerely,

Marvin Burrows
Agent for Llano Disposal, LLC

Attachment (map of area)

Siringo ACS State #1
API # 30-025-30701
Discharge Plan Attachments - Attachment S

Siringo ACS State #1 Brine Well
Adjoining Property Owners



Proposed Site of Brine
Well and Station



Siringo ACS State #1
API # 30-025-30701
Discharge Plan Attachments - Attachment S

NOTIFICATION LIST - ADJOINING PROPERTY OWNERS

#	NAME	ADDRESS	CITY STATE ZIP	TYPE
1	Angell #2 Family LP c/o Mr. Darr Angell	P. O. Box 250	Lovington, NM 88260	Surface Owner

#	NAME	ADDRESS	CITY STATE ZIP	TYPE
2	State of New Mexico Commissioner of Public Land	P. O. Box 1148	Santa Fe, NM 87504	Adjoining Property Owner
3	Lea County	100 N. Main St.	Lovington, NM 88260	Adjoining Property Owner
4	Goff Properties, LLC	9800 W. Goff Road	Hobbs, NM 88242	Adjoining Property Owner
5	City of Lovington	P. O. Box 1268	Lovington, NM 88260	Adjoining Property Owner
6	Chevron USA Inc.	P. O. Box 285	Houston, TX 77001	Adjoining Property Owner
7	Angell Land and Cattle, LLC	P. O. Box 250	Lovington, NM 88260	Adjoining Property Owner
8	Graham Ranch, LLC	P. O. Box 1117	Lovington, NM 88260	Adjoining Property Owner

NOTIFICATION LIST - MINERAL OWNER AND LESSEE

#	NAME	ADDRESS	CITY STATE ZIP	TYPE
	State of New Mexico Commissioner of Public Land	P. O. Box 1148	Santa Fe, NM 87504	Mineral Owner
9	Devon Energy Production Co, LP	333 W. Sheridan Ave.	Oklahoma City, OK 73102	Mineral Lessee

**Siringo ACS State #1
API # 30-025-30701
Discharge Plan Attachments - Attachment T**

Public Notice Display Ad

**Legal notification for 3" X 4" (min) newspaper display ad per Water Quality
Control Commission Regulations 20.6.2.3108.B.4 NMAC**

Llano Disposal, L.L.C. (Mr. Darr Angell), 783 Highway 483, Lovington, NM 88260 has submitted an application to the New Mexico Oil Conservation Division (NMOCD) for installation and operation of a Class III brine well to be located in Unit Letter D of Section 26, Township 17 South, Range 36 East (Lat. 32.8115005°, Long. -103.3317795°), Lea County, New Mexico. The brine injection well is located approximately 8.3 miles south of Lovington, New Mexico or 1.1 miles east of the intersection of State Hwy 483 (Arkansas Jct.) and County Road 50 (Buckeye Rd).

The application proposes to produce fresh water from an existing water source well located in Unit Letter J of Section 27, Township 17 South, Range 36 East (Lat. 32.804305°, Long. -103.338230°), Lea County, New Mexico. This fresh water would be transported via a buried polyethylene pipeline approximately 3250 feet northeast to a 500 barrel steel water tank located at the brine well location detailed above. From time to time when brine is needed, the fresh water in this tank would be pumped down the tubing within the proposed brine well casing to an approximate depth of 2043 feet to 3253 feet below ground level at a rate of approximately 40 - 120 GPM and a normal operating pressure of 200 to 250 psi. The maximum allowable surface injection pressure would be 410 psig. Dissolution brine water (NaCl) would then be produced up the well casing backed by cement to surface. This "normal flow" routine fluid flow process is required by the NMOCD to maintain proper salt cavern configuration and development over the operational life of the brine well.

The produced brine water would be metered then transported via a second buried polyethylene pipeline approximately 6600 feet southwest to four 500 barrel fiberglass storage tanks at the proposed Siringo Brine Station located in Unit Letter M of Section 27, Township 17 South, Range 36 East (Lat. 32.798816°, Long. -103.347123°), Lea County, New Mexico. This brine station is located approximately 9.3 miles south of Lovington, New Mexico or 1 mile south-south-east of the intersection of State Hwy 483 (Arkansas Jct.) and County Road 50 (Buckeye Rd) and ¼ mile east of SH 483. The brine water would be transferred/sold by delivery into water trucks on a concrete loading pad with containment curbing and a sump to prevent spills. There would be a synthetic liner and secondary containment underneath the brine storage tanks. All of the above listed infrastructure is located on private land owned by the applicant.

Brine water is used in the oil and gas industry to supply concentrated salt water (i.e. brine water) with a total dissolved concentration of approximately 320,000 mg/l and a density that is 20% higher than fresh water. Typical brine water is 10 pounds per gallon (ppg) with the increased weight due to dissolved NaCl. Heavy brine water is essential in preventing blow-outs in high pressure gas wells and prevents loss of circulation when drilling through salt zones typically found in southeastern New Mexico.

The brine well will be designed to produce approximately 13 million barrels of brine water over a 20 year life period. The anticipated cavern radius will not exceed 150 feet. The well has been located on private land and provides a minimum of 2000 feet separation from any significant features, such as houses, roads, utilities, pipelines, water supplies, buildings, schools, businesses, etc.

**Siringo ACS State #1
API # 30-025-30701
Discharge Plan Attachments - Attachment T**

Groundwater possibly affected by an unintentional spill or leak is located at a depth of approximately 40 – 80 feet below ground level. Typical groundwater in this area has a total dissolved solids concentration of approximately 400 mg/l. According to the Office of the State Engineer, average water well depths in the area are 107 feet below ground level. The brine facility will be designed and permitted to have no intentional water contaminants discharged to the surface or subsurface for the protection of groundwater. The brine station will have a concrete loading pad for trucks and will have a synthetic liner underneath tanks areas to prevent any spills or leaks from reaching the ground surface. The brine well will have cemented casing and tubing strings to protect groundwater.

The owner and operator of the proposed facility will be:

Llano Disposal, LLC
783 Highway 483
Lovington, NM 88260

Comments and inquiries about the application may be directed to Llano Disposal, LLC c/o Mr. Marvin Burrows at 575631-8067 or email ch2o.fresh@gmail.com. Mr. Burrows is a consultant to Llano Disposal providing assistance for this project.

The New Mexico Oil Conservation Division (OCD) will accept comments and statements of interest regarding this application and will create a facility-specific mailing list for persons who wish to receive future notices. Persons interested in obtaining further information, submitting comments or requesting to be on a facility-specific mailing list for future notices may contact:

Environmental Bureau Chief
New Mexico Oil Conservation Division
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505
Telephone: 505-476-3440

**Siringo ACS State #1
API # 30-025-30701
Discharge Plan Attachments - Attachment T**

Anuncios de Pantalla de Aviso Público

**Notificación legal de 3" X 4" (min) anuncio de la exhibición del periódico
por Reglamento de Comisión de Control de Calidad de Agua
20.6.2.3108.B.4 NMAC.**

Llano Disposal, L.L.C. (Sr. Darr Ángell), 783 Highway 483, Lovington, NM 88260 ha presentado una solicitud para La División de Conservación de Petróleo de Nuevo México (NMOCD) para la instalación y operación de una clase III de la salmuera bien que se encuentra en la unidad letra D de la sección 26, municipio de 17 sur, gama 36 Oriente (Lat. 32.8115005°, Long. -103.3317795°), Condado Lea, Nuevo México. La inyección de salmuera es bien situados aproximadamente 8,3 millas al sur de Lovington, Nuevo México o 1,1 millas al este de la intersección de estado Hwy 483 (Jct de Arkansas) y County Road 50 (Buckeye Rd).

La aplicación propone producir agua fresca de una fuente existente de agua bien ubicada en unidad letra J de la sección 27, municipio de 17 sur, gama 36 Oriente (Lat. 32,804305°, Long. -103.338230°), Condado Lea, Nuevo México. Este agua dulce transportarse a través de una tubería de polietileno enterrada aproximadamente 3250 pies al noreste para un tanque de agua 500 barril de acero situado en la salmuera bien ubicación detallada anteriormente. De vez en cuando se necesita salmuera, el agua en este tanque se bombea hacia abajo de la tubería dentro de la salmuera propuesta entubado del pozo a una profundidad aproximada de pies 2043 a 3253 pies debajo de nivel del suelo a una tasa de aproximadamente 40-120 GPM y una presión normal de 200 a 250 psi. La presión de inyección superficial permisible máxima sería 410 psig. Agua de disolución salmuera (NaCl) entonces se produciría hasta la carcasa bien respaldada por el cemento a superficie. Este proceso de flujo rutinario "flujo normal" es requerido por la NMOCD para mantener la configuración de caverna de sal adecuada y desarrollo durante la vida operativa de la salmuera bien.

El agua de la salmuera producida se mide entonces transportado por una tubería de polietileno enterrada segundo aproximadamente 6600 pies sudoeste cuatro barril 500 tanques de almacenamiento de fibra de vidrio en la estación de salmuera Siringo propuesto ubicado en unidad letra M de la sección 27, municipio de 17 sur, gama 36 Oriente (Lat. 32,798816°, Long. -103.347123°), Condado Lea, Nuevo México. Esta estación de salmuera está situados aproximadamente 9,3 millas al sur de Lovington, Nuevo México o 1 milla sur-sureste de la intersección de estado Hwy 483 (Jct de Arkansas) y County Road 50 (Buckeye Rd) y ¼ milla al este de 483 SH. El agua de la salmuera sería transferido/vendido por entrega en camiones de agua sobre una almohadilla con frenar de contención de carga de cemento y un colector de aceite para evitar derrames. Habría un forro sintético y contención secundaria debajo de los tanques de almacenamiento de la salmuera. Toda la infraestructura lista anterior se encuentra en terrenos privados propiedad de la demandante.

Agua de la salmuera se utiliza en el aceite y la industria del gas para suministrar concentrado sal agua (es decir, salmuera) con una concentración disuelta total de aproximadamente 320.000 mg/l y una densidad que es 20% mayor de agua dulce. Salmuera típica está 10 libras por galón con el aumento de peso debido a NaCl disuelto. Agua de salmuera pesada es esencial en la prevención de salidas de golpe

Siringo ACS State #1
API # 30-025-30701
Discharge Plan Attachments - Attachment T

en pozos de gas de alta presión y previene la pérdida de circulación durante la perforación a través de zonas de sal suelen encontradas en el sureste de nuevo México.

Bien la salmuera se diseñará para producir aproximadamente 13 millones de barriles de salmuera durante un período de vida de 20 años. El radio caverna anticipada no excederá de 150 pies. El pozo se ha situado en terrenos privados y un mínimo de 2000 pies de separación de las características importantes, tales como casas, caminos, utilidades, tuberías, suministro de agua, edificios, escuelas, empresas, etc.

Agua subterránea posiblemente afectado por un derrame accidental o escape se encuentra a una profundidad de aproximadamente 40 – 80 pies debajo de nivel del suelo. Típico agua subterránea en esta área tiene una concentración de sólidos disueltos totales de aproximadamente 400 mg/l. Según la oficina del ingeniero de estado, profundidades bien media del agua en la zona son 107 pies debajo de nivel del suelo. La instalación de la salmuera será diseñada y puede no tener contaminantes intencional de agua descargadas a la superficie o subsuperficie para la protección de las aguas subterráneas. La estación de salmuera tendrá una plataforma de carga de cemento para camiones y tendrá un revestimiento sintético debajo de áreas de depósitos para evitar cualquier vertido o derrame accidental de llegar a la superficie de la tierra. La salmuera bien habremos cementado carcasa y tubos cadenas para proteger las aguas subterráneas.

El propietario y operador de la instalación propuesta será:

Llano Disposal, LLC
783 Highway 483
Lovington, NM 88260

Comentarios y consultas sobre la aplicación pueden ser dirigidas a disposición Llano, LLC c/o Sr. Marvin Burrows en 575-631-8067 o por correo electrónico ch2o.fresh@gmail.com. El Sr. Burrows es consultor para proporcionar asistencia de Llano Disposal obtener los permisos reglamentarios para este proyecto.

La División de Conservación de Petróleo de Nuevo Mexicano se aceptan comentarios y declaraciones de interés respecto a esta aplicación y creará una lista de correo de instalaciones específicas para las personas que deseen recibir futuras notificaciones. Puede contactar a las personas interesadas en obtener más información, enviar comentarios o solicitar estar en una lista de correo de instalaciones específicas para futuros avisos:

Jefe de la Oficina Ambiental
División de Conservación de Petróleo de Nuevo Mexicano
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505
Teléfono: 505-476-3440

Pueblo West Resources, LLC
125 Greathouse Village
Decatur, Texas 76234
432-934-7680

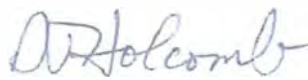
April 28, 2016

Per the rules and regulations of the New Mexico Oil Conservation Division, please find enclosed a copy of NMOCD form C108.

Llano Disposal, LLC, P. O. Box 190, Lovington, NM 88260 has filed form C108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to convert the Siringo ACS State #1, API 30-025-30701, 660 FNL x 660 FWL, Unit Letter "D", Section 26, T17S, R36E, Lea County, New Mexico to a commercial brine production well. The proposed production interval would be the Salado formation through open hole completion between 2043' – 3253'. Injection fluid will be fresh water from nearby water wells. Anticipated average daily injection volume is 1550 BWPD with a maximum daily injection volume of 1900 BWPD. Anticipated average injection pressure is 250 psi with a maximum injection pressure of 408 psi. The well is located approximately 8.6 miles south of Lovington, New Mexico.

No notices of this C108 application were made since WQCC rules concerning the notifications required for the Discharge Permit Application will apply.

Sincerely,



Danny J. Holcomb
Agent for Llano Disposal,
LLC Email: danny@pwllc.net



www.pwllc.net

Llano Disposal, L.L.C.
Siringo ACS State #1
API # 30-025-30701
660 FNL x 660 FWL
Unit Letter 'D', Section 26, T17S, R36E
Lea County, New Mexico
C108 Application for Authorization to Inject

I.

The purpose of this application is seeking administrative approval for the conversion of the Siringo ACS State #1 from a plugged and abandoned well to a commercial brine production well.

II.

Operator: Llano Disposal, L.L.C. OGRID: 370661
Address: P. O. Box 190 (783 Highway 483), Lovington, NM 88260
Contact Party: Marvin Burrows 575-361-8067 email: burrowsmarvin@gmail.com

III.

Please see Exhibit "A" for proposed well data.

IV.

This is not an expansion of an existing project.

V.

Please see Exhibit "B" of lease map.

VI.

There are 6 P&A wells identified within the 1 mile Area of Review that penetrate the proposed injection interval. There is also 1 new drill permitted, but not yet drilled. Please see Exhibit "C" for offset well data and wellbore diagrams.

VII.

1. Anticipated daily injection volume of 1,550 BWPD with a maximum daily injection volume of 1,900 BWPD.
2. System will be closed. It will include a fresh water supply well, fresh water pipeline, brine pipeline and a brine station. Fresh water will be produced from the supply well and pumped into the injection well for salt solution mining. Brine water will be produced from the injection well and transported to the brine station via a brine pipeline. Brine will be commercially sold from the brine station.
3. Anticipated injection pressure: Average 250 psig, Maximum 408 psig.
4. Please see Exhibit "D" for analysis of fresh water injected for brine production.

VIII.

Formation	Anticipated Depth (ft)
T. Rustler	2052
T. Salt	2043
B. Salt	3034
T. Yates	3353
T. Grayburg	4614
Proposed injection zone	2043 – 3253

The proposed well is not located within the Capitan Reef Area.



www.pwllc.net

Page 1 of 2

DJH

Llano Disposal, L.L.C.
Siringo ACS State #1
API # 30-025-30701
660 FNL x 660 FWL
Unit Letter 'D', Section 26, T17S, R36E
Lea County, New Mexico
C108 Application for Authorization to Inject

IX.

After drilling out cement plug #5 and the top 67' of plug #4, the hole will be circulated clean and a cement bond log obtained. If good cement is found behind casing, discharge permit application will be submitted. Upon approval, the remaining portion of plug #4 would be drilled out and wellbore cleaned out to top of plug #3 at 3253'. No additional completion work is planned.

X.

Any additional logs performed will be submitted after completion.

XI.

NM OSE records indicate there are 6 fresh water wells within the 1 mile Area of Review and 10 fresh water wells identified in the 9 square line area of review. Fresh water is contained in the Alluvial fill to top of the Red Beds.

XII.

Available geological and engineering data have been examined and no evidence of open faults or hydrological connection between the disposal zone and any underground sources of drinking water has been found.

XIII.

No notice of this C108 application will be made since WQCC rules provide for required notifications of the Discharge Plan. See Exhibit "F" for a map indicating mineral owners and lessees.

Danny J. Holcomb
Agent for Llano Disposal, LLC



Date: 4/27/2016



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DJH

Page 2 of 2

Llano Disposal, L.L.C.
Siringo State ~~SW~~ # 1
Originally Siringo ACS State # 1
API # 30-025-30701
660 FNL X 660 FWL
Unit Letter "D", Section 26, T17S, R36E
Lea County, New Mexico
C108(Application for Authorization to Inject)

Well Data
Data obtained from records maintained by the NMOCD

Spudded 10/27/1989 as test of San Andres formation

20" casing was set in 26" hole at 40ft. Cemented with Redi-Mix to surface

8 5/8" 24# casing was set in 12 1/4" hole at 2043ft. Cemented with 1100 sks as follows;

900 sks Pacesetter Lite with 5 #/sks Hyseal, 1/2 # Celloseal & 3% CaCL

200 sks Class "C" with 2% CaCL

Cement circulated to surface.

7 7/8" hole drilled to TD 5450ft.

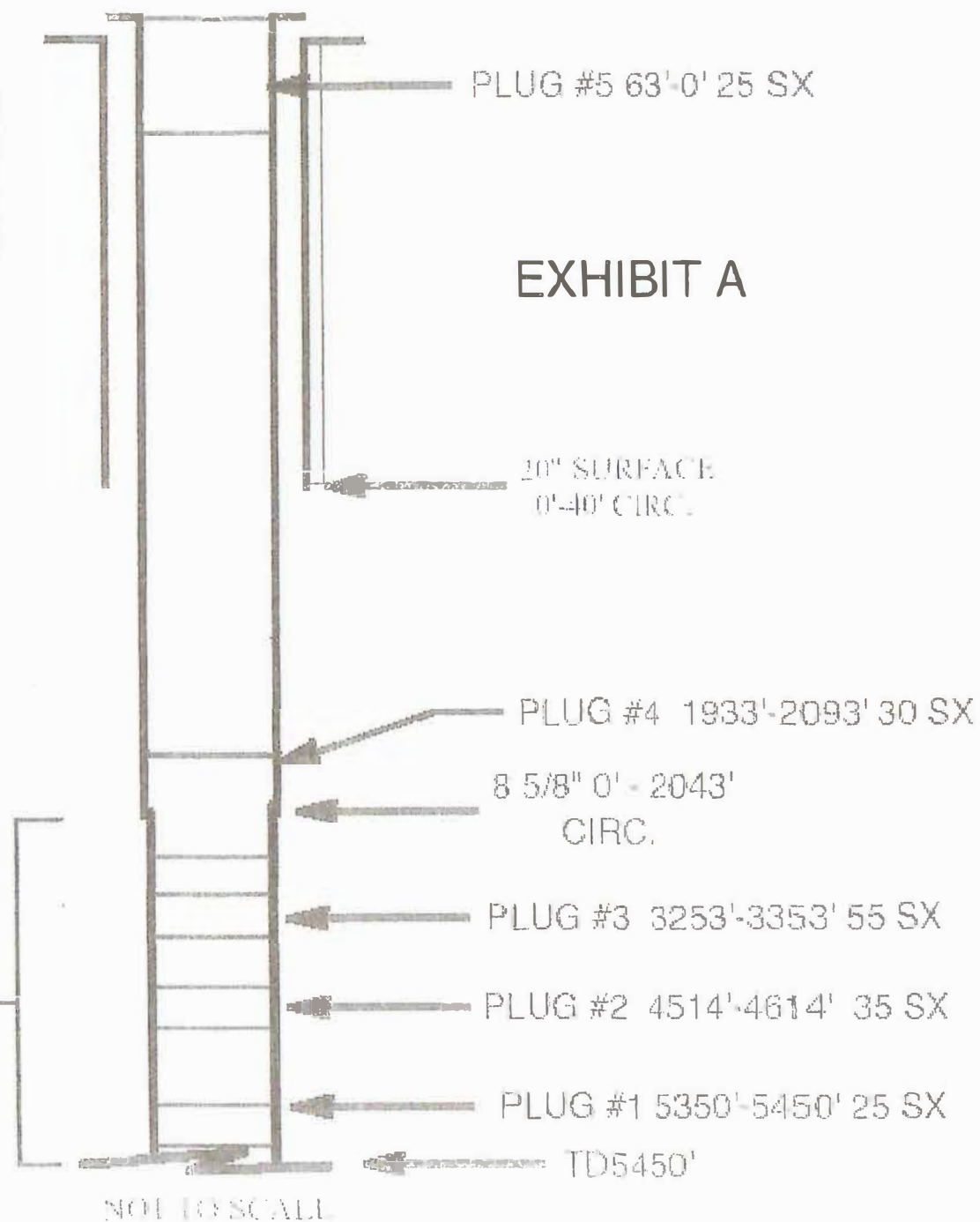
Plugged and abandoned 11/16/1989

Plug #1	5350-5450'	w/25	sx	Class C	Neat
#2	4514-4614'	w/35	sx	Class C	Neat
#3	3253-3353'	w/55	sx	Class C	Neat
#4	1933-2093'	w/30	sx	Class C	Neat
#5	Surface-63'	w/25	sx	Class C	Neat

Exhibit "A"

State
SIRINGO "ACS" # 1
ULD-S26-T17S-R36E
API 30-025-30701

OPEN HOLE
2043'-5450'



Llano Disposal, L.L.C.
Siringo State ~~FW~~ # 1
API 30-025-30701
Unit Letter "D", Section 26, T17S, R36E
Lea County, New Mexico

660 FNL X 660 FWL



WWW.PWLLC.NET

20" Casing set 40 feet
Cemented to surface

8 5/8" 24# CSA 2043' in 12 1/4" hole
Cmt w/ 1100 sks Cmt
Cement circulated to surface

2043' x 0.2 = 408.6
Max Pressure

TLA 3100'

7 7/8" Open Hole

55 sks Plug 3253-3353'

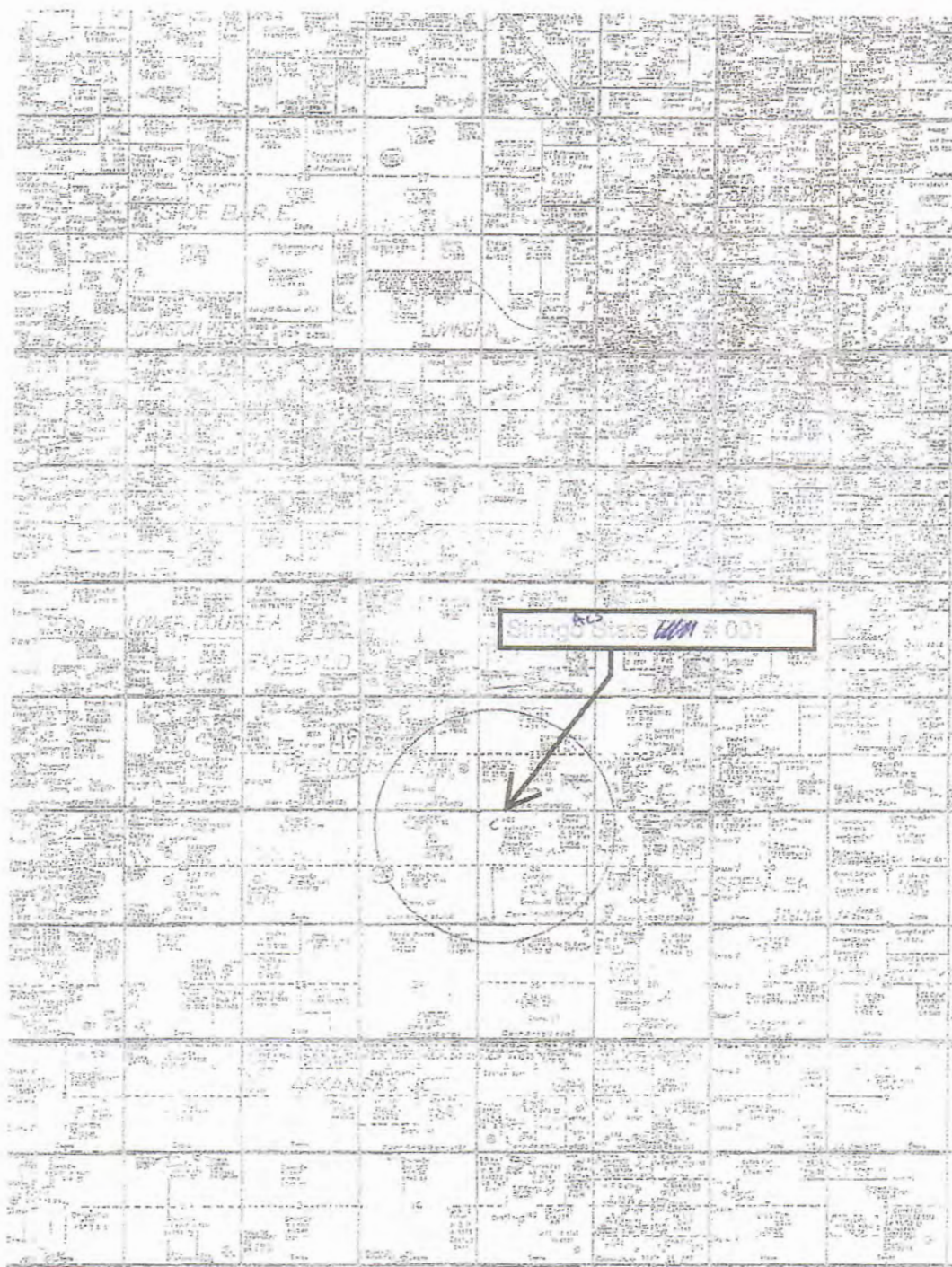
35 sks Plug 4514-4614'

25 sks Plug 5350-5450'

Salt & Anhy

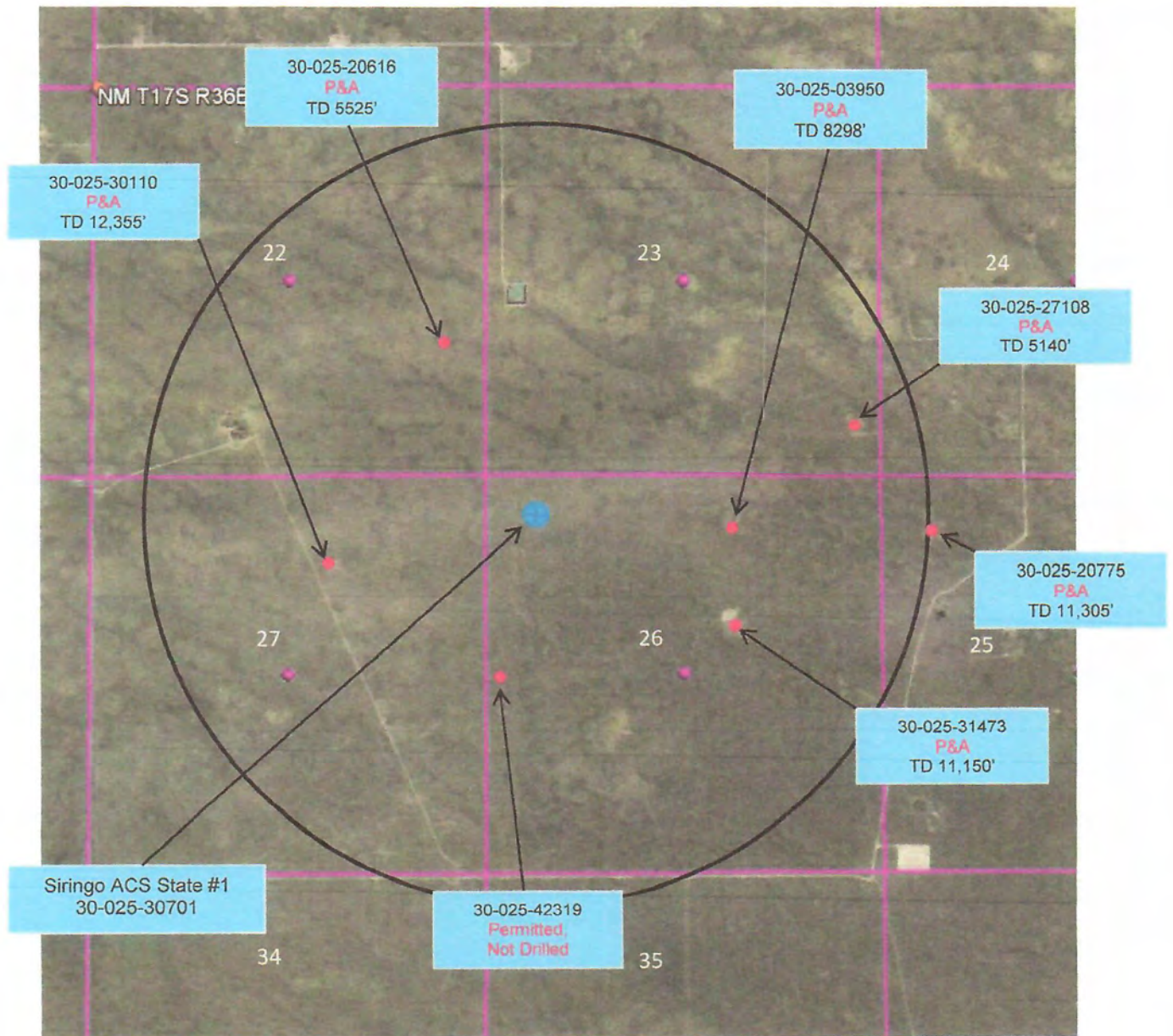
BEP

EXHIBIT A



Llano Delosol, L.L.C.
 Stringo State LUM # 1
 API 30-025-30701
 580 FWL X 580 FWL
 Unit Letter 'D', Section 28, T17S, R38E
 Les County, New Mexico
 Exhibit 'B'

Llano Disposal, LLC
Siringo ACS State #1
API # 30-025-30701
1 Mile AOR



T17S, R36E

This location 660 FNL x 660 FWL, UL 'D',
Section 26, T17S, R36E, Lea County, NM
Drawing Not to Scale

Llano Disposal, LLC
 Siringo State ^{PCS} ~~BW~~ # 1
 30-025-30701
 660 FNL X 660 FWL
 UL"D", Sec 26, T17S,
 R36E Lea County, NM
 Wells in 1 mile AOR

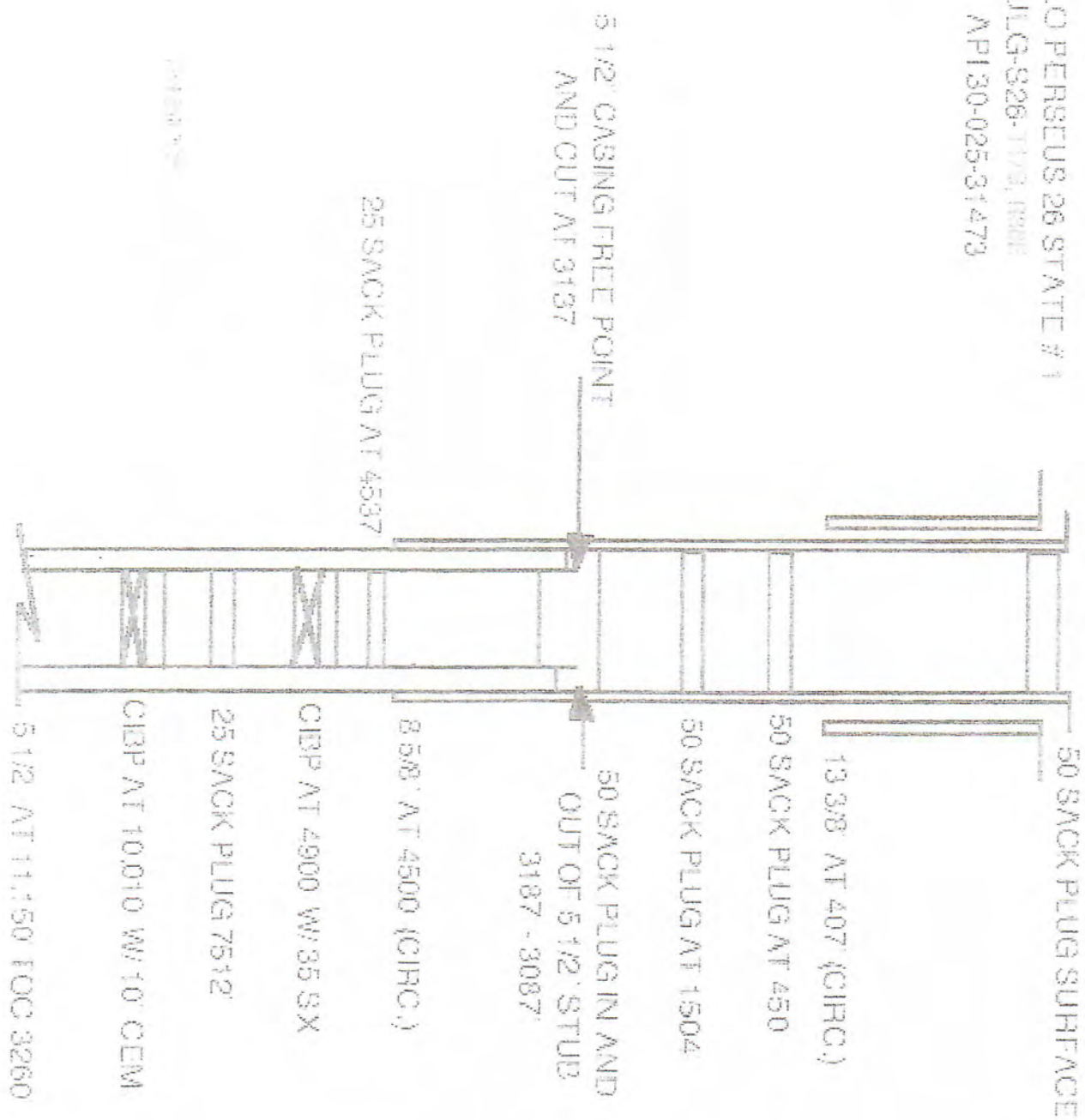
API	Well Name	Well#	Type	Lease	Status	UL	Sec	TS	RG	TD	Current Operator
1 30-025-02355	HEPEWEZEN 26 35 STATE COM	#001	Oil	State	NEA	N	26	17S	36E		BELOW ENERGY PRODUCTION
2 30-025-31473	PERSEUS 26 STATE	#001	Oil	State	PA	G	26	17S	36E	11150	MARALO LLC
3 30-025-03950	PRE-ONGARD WELL	#001	Oil	State	PA	B	26	17S	36E	8298	PRE-ONGARD WELL OPERATOR
4 30-025-02355	PRE-ONGARD WELL	#001	Oil	State	PA	B	26	17S	36E		PRE-ONGARD WELL OPERATOR
5 30-025-20616	PRE-ONGARD WELL	#001	Oil	State	PA	I	22	17S	36E	5325	PRE-ONGARD WELL OPERATOR
6 30-025-27108	PRE-ONGARD WELL	#001	Oil	State	PA	P	23	17S	36E	5140	PRE-ONGARD WELL OPERATOR
7 30-025-20775	PRE-ONGARD WELL	#001	Oil	State	PA	D	25	17S	36E	11305	PRE-ONGARD WELL OPERATOR
8 30-025-30110	PRE-ONGARD WELL	#001	Oil	State	PA	B	27	17S	36E	12,355	PRE-ONGARD WELL OPERATOR

Not drilled
 Proposed BW

Exhibit"C"



MANUAL OPERUS 26 STATE #1
 ULG-326-11/23, 11200E
 API 30-025-31473



MONSANTO OIL CO.
 STATE G# 1
 UL B' - S26 - T17S - R36E
 AP130 025 03950

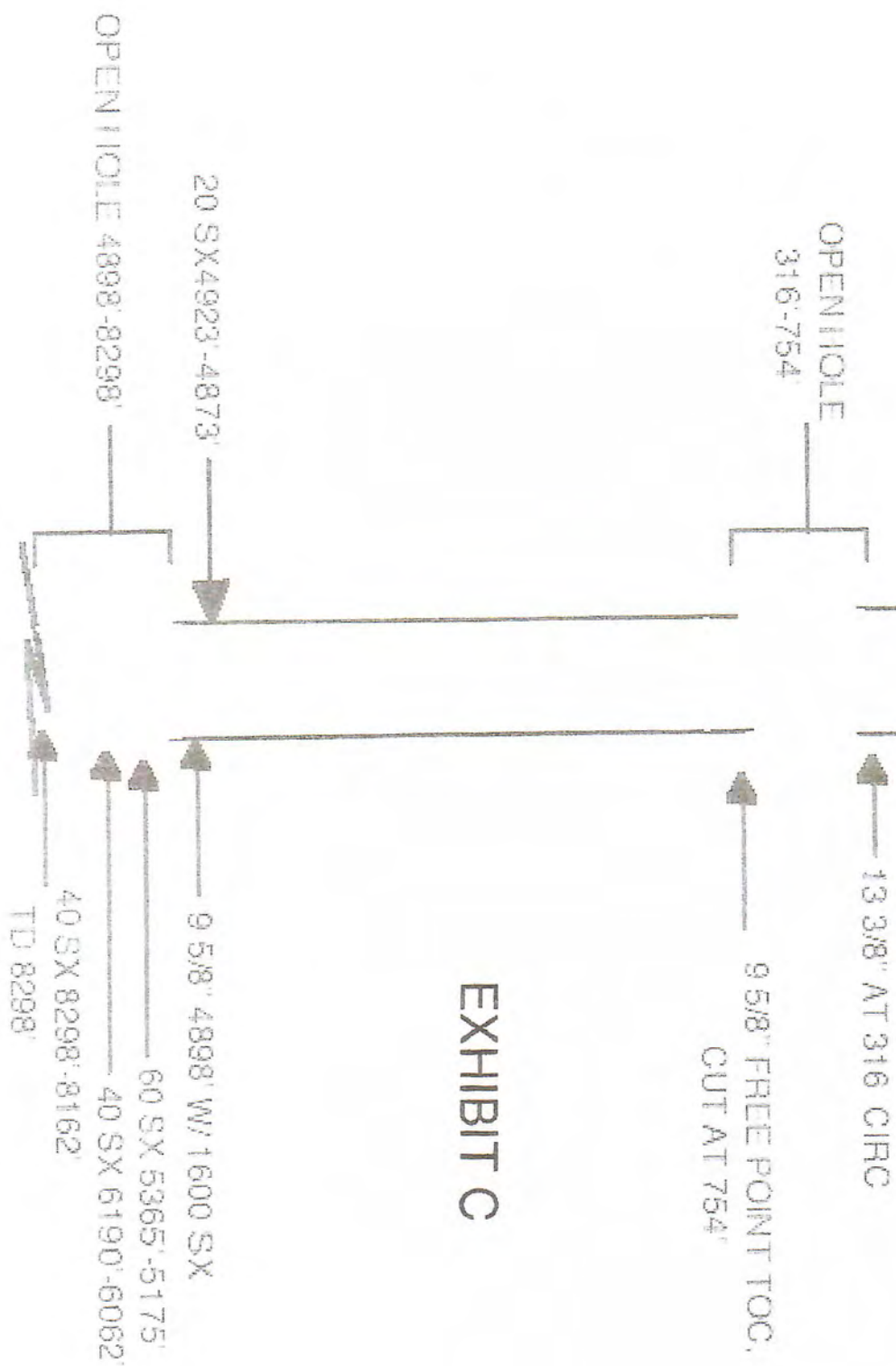


EXHIBIT C

CAMPANA PETROLEUM CO.
#1 HUMBLE STATE
ULL-S 22-T 17S-R 36 E
API 30-025-20616

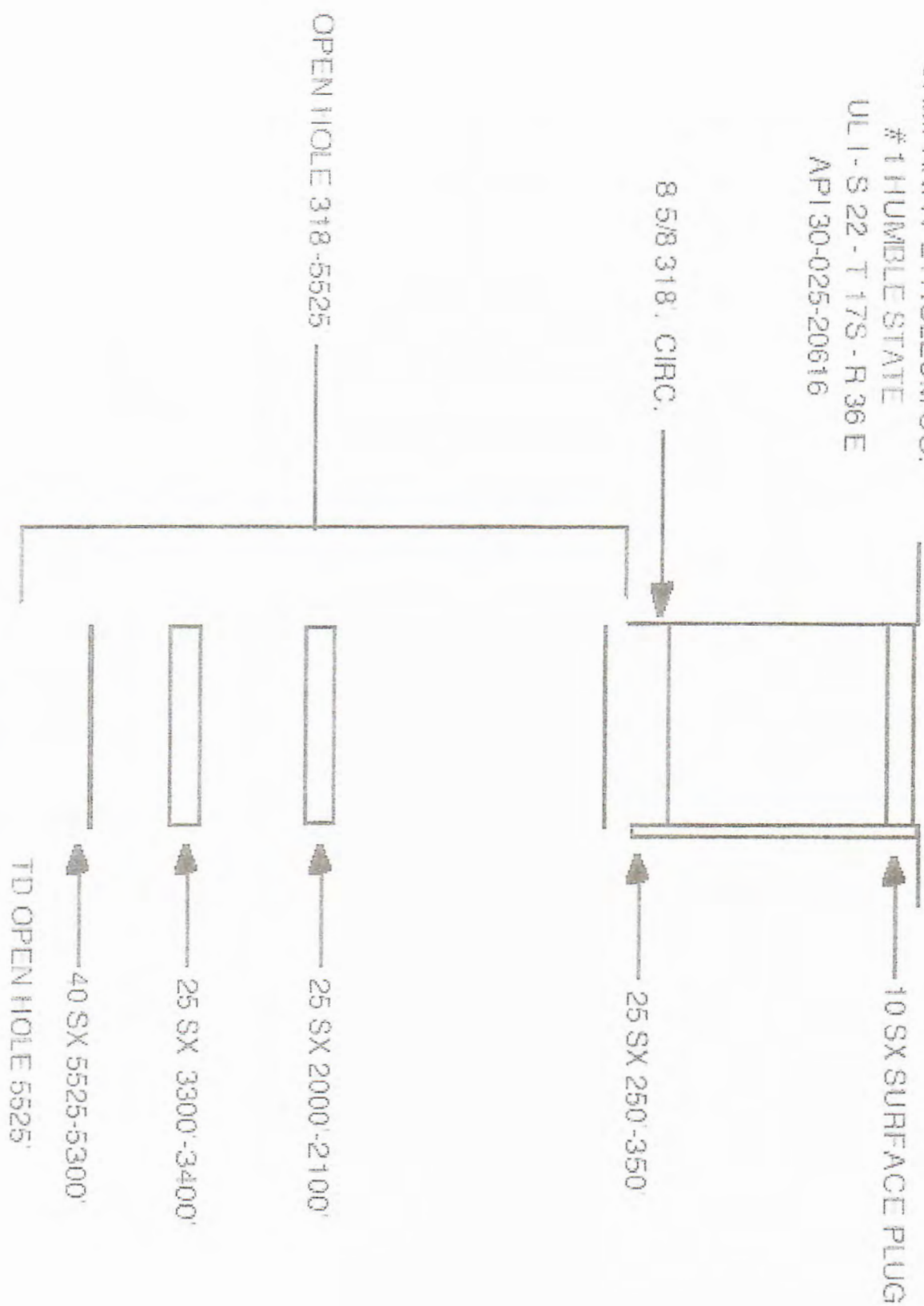
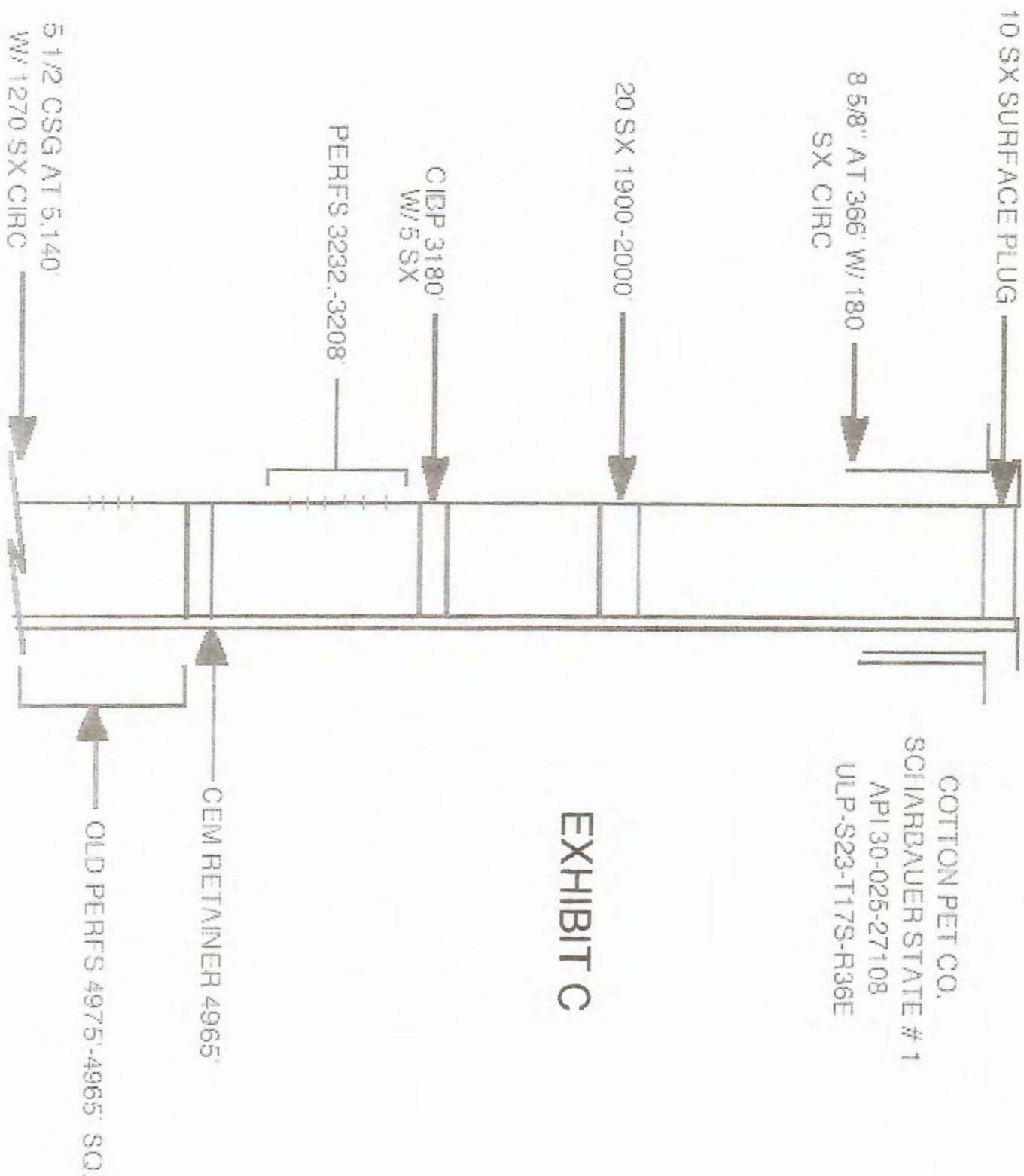
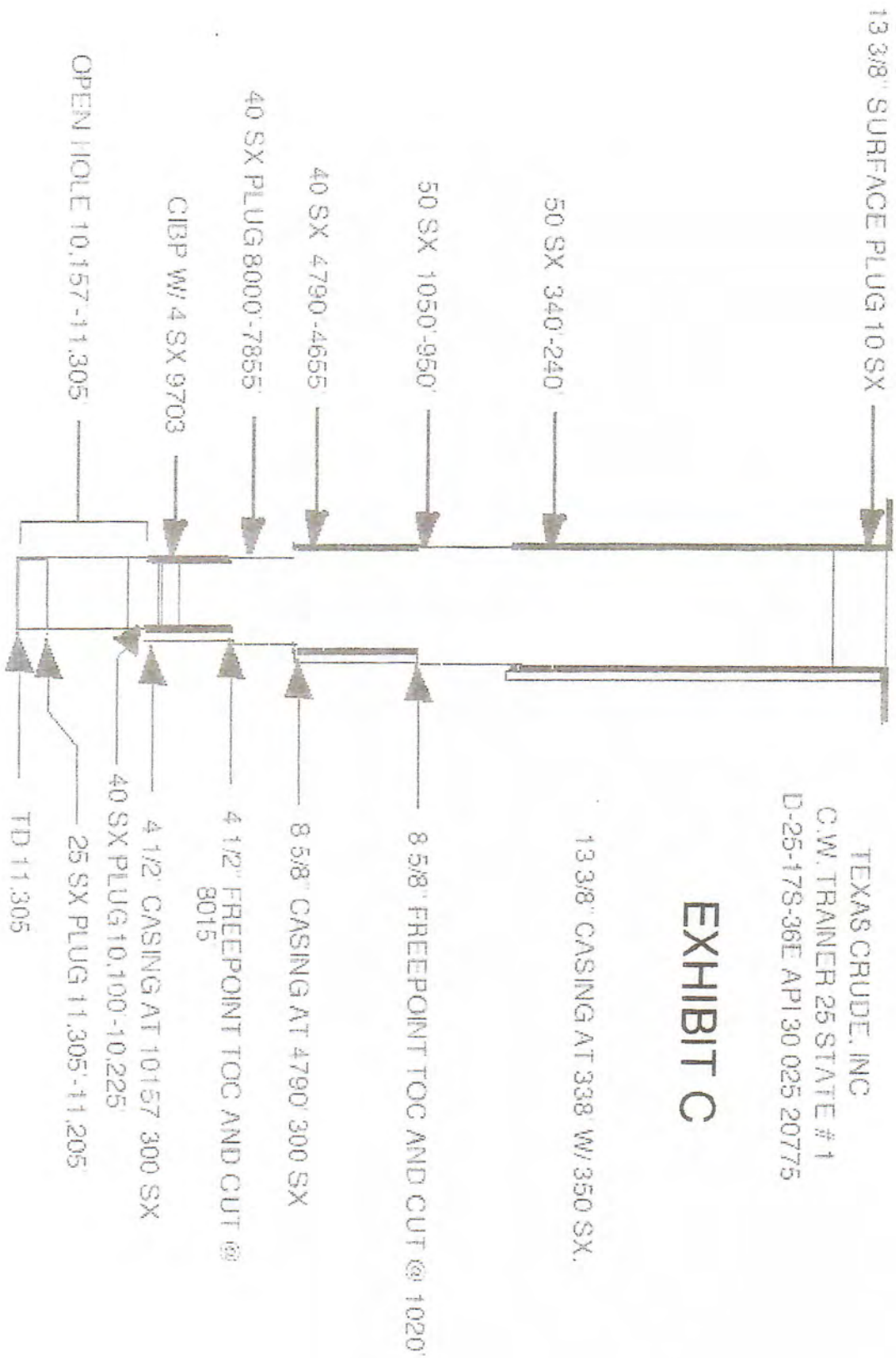


EXHIBIT C



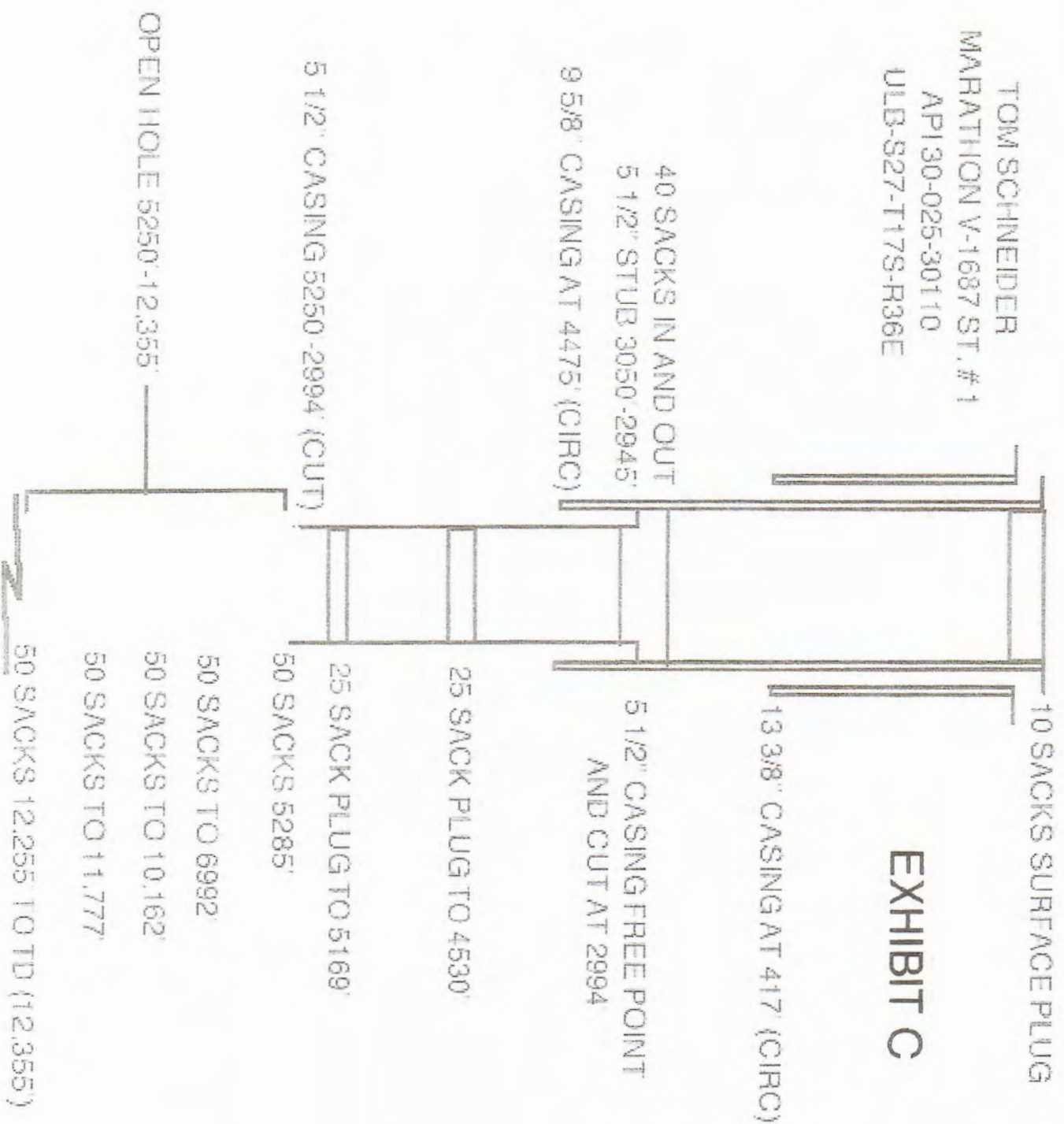
TEXAS CRUDE, INC
 C.W. TRAINER 25 STATE # 1
 D-25-17S-36E API 30 025 20775

EXHIBIT C



TOM SCHNEIDER
MARATHON V-1687 ST. #1
API 30-025-30110
ULB-S27-T17S-R36E

EXHIBIT C





New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW#### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has
been replaced.

O=orphaned,

C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD		Q Q Q				Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
	Sub-	Codebasin	County	64	16	4								
	L	LE		3	1	1	35	17S	36E	656116	3629884*	120		
	L	LE		1	3	3	34	17S	36E	654527	3628843*	90		
	L	LE		2	1	4	27	17S	36E	655498	3630879*	100		
	L	LE		1	3	1	27	17S	36E	654487	3631269*	100		
	L	LE		3	3	3	25	17S	36E	657723	3630314*	110	40	70
	L	LE		1	1	25	17S	36E	657804	3631628*	122	60	62	
	L	LE		4	3	25	17S	36E	658227	3630422*	120	40	80	
	L	LE					26	17S	36E	656813	3630992*	160	60	100
	L	LE		2	4	24	17S	36E	659002	3632453*	110	52	58	
	L	LE		1	4	4	25	17S	36E	658980	3630480	122	107	15

Average Depth to Water: 59 feet

Minimum Depth: 40 feet

Maximum Depth: 107 feet

Basin ID

Record Count: 10

PLSS Search:

Sections: 22, 23, 24, 25,
26, 27, 34, 35,
36

Township: 17S

Range: 36E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

7/8/15 10:08 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Analytical Results For:

LLANO DISPOSAL, LLC 125 W. ST. ANNE HOBBS NM, 88240	Project: BRINE PROJECT Project Number: NONE GIVEN Project Manager: MARVIN BURROWS Fax To: NONE	Reported: 30-Jun-14 12:02
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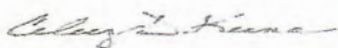
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WINDMILL	H401846-01	Water	18-Jun-14 12:00	18-Jun-14 12:50
HOUSE	H401846-02	Water	18-Jun-14 12:00	18-Jun-14 12:50

Section "D"

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 10



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:LLANO DISPOSAL, LLC
125 W. ST. ANNE
HOBBS NM, 88240Project: BRINE PROJECT
Project Number: NONE GIVEN
Project Manager: MARVIN BURROWS
Fax To: NONEReported:
30-Jun-14 12:02**WINDMILL
H401846-01 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	224		5.00	mg/L	1	4062305	AP	23-Jun-14	310.1	
Alkalinity, Carbonate	ND		0.00	mg/L	1	4062305	AP	23-Jun-14	310.1	
Chloride*	32.0		4.00	mg/L	1	4062005	HM	20-Jun-14	4500-Cl-B	
Conductivity*	495		1.00	uS/cm	1	4062609	AP	26-Jun-14	120.1	
pH*	7.84		0.100	pH Units	1	4062610	AP	19-Jun-14	150.1	
Sulfate*	73.3		10.0	mg/L	1	4062404	AP	25-Jun-14	375.4	
TDS*	348		5.00	mg/L	1	4062006	AP	23-Jun-14	160.1	
Alkalinity, Total*	184		4.00	mg/L	1	4062305	AP	23-Jun-14	310.1	

Green Analytical Laboratories**Total Recoverable Metals by ICP (E200.7)**

Calcium*	89.2		1.00	mg/L	1	B406205	JGS	25-Jun-14	EPA200.7	
Magnesium*	12.0		1.00	mg/L	1	B406205	JGS	25-Jun-14	EPA200.7	
Potassium*	2.45		1.00	mg/L	1	B406205	JGS	25-Jun-14	EPA200.7	
Sodium*	34.4		1.00	mg/L	1	B406205	JGS	25-Jun-14	EPA200.7	

Exhibit "D"

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PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:LLANO DISPOSAL, LLC
125 W. ST. ANNE
HOBBS NM, 88240Project: BRINE PROJECT
Project Number: NONE GIVEN
Project Manager: MARVIN BURROWS
Fax To: NONEReported:
30-Jun-14 12:02**WINDMILL
H401846-01 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	224		5.00	mg/L	1	4062305	AP	23-Jun-14	310.1	
Alkalinity, Carbonate	ND		0.00	mg/L	1	4062305	AP	23-Jun-14	310.1	
Chloride*	32.0		4.00	mg/L	1	4062003	HM	20-Jun-14	4500-Cl-B	
Conductivity*	495		1.00	uS/cm	1	4062609	AP	26-Jun-14	120.1	
pH*	7.84		0.100	pH Units	1	4062610	AP	19-Jun-14	150.1	
Sulfate*	73.3		10.0	mg/L	1	4062404	AP	25-Jun-14	375.4	
TDS*	348		5.00	mg/L	1	4062006	AP	23-Jun-14	160.1	
Alkalinity, Total*	184		4.00	mg/L	1	4062305	AP	23-Jun-14	310.1	

Green Analytical Laboratories**Total Recoverable Metals by ICP (E200.7)**

Calcium*	89.2		1.00	mg/L	1	B406205	JGS	25-Jun-14	EPA200.7	
Magnesium*	12.0		1.00	mg/L	1	B406205	JGS	25-Jun-14	EPA200.7	
Potassium*	2.45		1.00	mg/L	1	B406205	JGS	25-Jun-14	EPA200.7	
Sodium*	34.4		1.00	mg/L	1	B406205	JGS	25-Jun-14	EPA200.7	

Exhibit "D"

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Page 3 of 10

Analytical Results For:

 LLANO DISPOSAL, LLC
 125 W. ST. ANNE
 HOBBS NM, 88240

 Project: BRINE PROJECT
 Project Number: NONE GIVEN
 Project Manager: MARVIN BURROWS
 Fax To: NONE

 Reported:
 30-Jun-14 12:02

HOUSE

H401846-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Alkalinity, Bicarbonate	273		5.00	mg/L	1	4062305	AP	23-Jun-14	310.1	
Alkalinity, Carbonate	ND		0.00	mg/L	1	4062305	AP	23-Jun-14	310.1	
Chloride*	60.0		4.00	mg/L	1	4062003	HM	20-Jun-14	4500-Cl-B	
Conductivity*	862		1.00	uS/cm	1	4062609	AP	26-Jun-14	120.1	
pH*	7.45		0.100	pH Units	1	4062610	AP	19-Jun-14	150.1	
Sulfate*	144		25.0	mg/L	2.5	4062404	AP	25-Jun-14	375.4	
TDS*	620		5.00	mg/L	1	4062006	AP	23-Jun-14	160.1	
Alkalinity, Total*	224		4.00	mg/L	1	4062305	AP	23-Jun-14	310.1	

Green Analytical Laboratories
Total Recoverable Metals by ICP (E200.7)

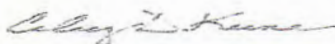
Calcium*	111		1.00	mg/L	1	B406205	JGS	25-Jun-14	EPA200.7	
Magnesium*	21.2		1.00	mg/L	1	B406205	JGS	25-Jun-14	EPA200.7	
Potassium*	2.54		1.00	mg/L	1	B406205	JGS	25-Jun-14	EPA200.7	
Sodium*	93.7		1.00	mg/L	1	B406205	JGS	25-Jun-14	EPA200.7	

Exhibit D

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

LLANO DISPOSAL, LLC
125 W. ST. ANNE
HOBBS NM, 88240

Project: BRINE PROJECT
Project Number: NONE GIVEN
Project Manager: MARVIN BURROWS
Fax To: NONE

Reported:
30-Jun-14 12:02

Inorganic Compounds - Quality Control
Cardinal Laboratories


Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4062003 - General Prep - Wet Chem										
Blank (4062003-BLK1)				Prepared & Analyzed: 20-Jun-14						
Chloride	ND	4.00	mg/L							
LCS (4062003-BS1)				Prepared & Analyzed: 20-Jun-14						
Chloride	104	4.00	mg/L	100		104	80-120			
LCS Dup (4062003-BSD1)				Prepared & Analyzed: 20-Jun-14						
Chloride	100	4.00	mg/L	100		100	80-120	3.92	20	
Batch 4062006 - Filtration										
Blank (4062006-BLK1)				Prepared: 20-Jun-14 Analyzed: 23-Jun-14						
TDS	ND	5.00	mg/L							
LCS (4062006-BS1)				Prepared: 20-Jun-14 Analyzed: 23-Jun-14						
TDS	532	5.00	mg/L	527		101	80-120			
Duplicate (4062006-DUP1)				Source: H401810-01 Prepared: 20-Jun-14 Analyzed: 23-Jun-14						
TDS	12500	5.00	mg/L		12600			0.430	20	
Batch 4062305 - General Prep - Wet Chem										
Blank (4062305-BLK1)				Prepared & Analyzed: 23-Jun-14						
Alkalinity, Carbonate	ND	0.00	mg/L							
Alkalinity, Bicarbonate	ND	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

EXHIBIT

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

LLANO DISPOSAL, LLC
125 W. ST. ANNE
HOBBS NM, 88240

Project: BRINE PROJECT
Project Number: NONE GIVEN
Project Manager: MARVIN BURROWS
Fax To: NONE

Reported:
30-Jun-14 12:02

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4062305 - General Prep - Wet Chem										
LCS (4062305-BS1)				Prepared & Analyzed: 23-Jun-14						
Alkalinity, Carbonate	ND	0.00	mg/L				80-120			
Alkalinity, Bicarbonate	126	5.00	mg/L				80-120			
Alkalinity, Total	104	4.00	mg/L	100		104	80-120			
LCS Dup (4062305-BSD1)				Prepared & Analyzed: 23-Jun-14						
Alkalinity, Carbonate	ND	0.00	mg/L				80-120		20	
Alkalinity, Bicarbonate	126	5.00	mg/L				80-120	0.00	20	
Alkalinity, Total	104	4.00	mg/L	100		104	80-120	0.00	20	
Batch 4062404 - General Prep - Wet Chem										
Blank (4062404-BLK1)				Prepared: 24-Jun-14 Analyzed: 25-Jun-14						
Sulfate	ND	10.0	mg/L							
LCS (4062404-BS1)				Prepared: 24-Jun-14 Analyzed: 25-Jun-14						
Sulfate	17.1	10.0	mg/L	20.0		85.6	80-120			
LCS Dup (4062404-BSD1)				Prepared: 24-Jun-14 Analyzed: 25-Jun-14						
Sulfate	17.5	10.0	mg/L	20.0		87.4	80-120	2.02	20	
Batch 4062609 - General Prep - Wet Chem										
LCS (4062609-BS1)				Prepared & Analyzed: 26-Jun-14						
Conductivity	494		uS/cm	500		98.8	80-120			
Duplicate (4062609-DUP1)				Source: H401871-01 Prepared & Analyzed: 26-Jun-14						
Conductivity	65000	1.00	uS/cm		61300			5.86	20	

Exhibit "D"

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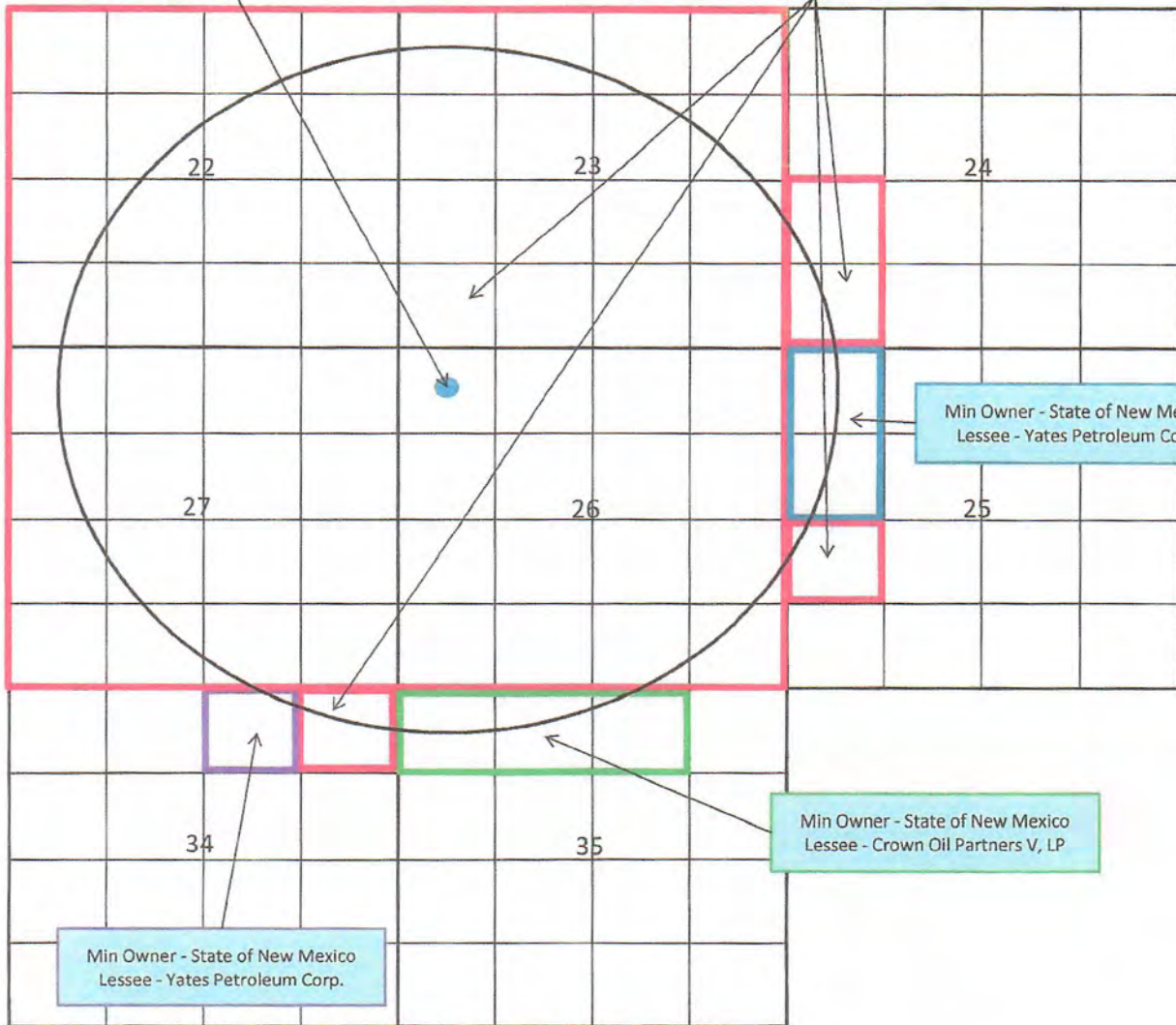


Celey D. Keene, Lab Director/Quality Manager

Llano Disposal, LLC
Siringo ACS State #1
API # 30-025-30701
1 Mile AOR

Proposed Siringo ACS
State #1

Min Owner - State of New Mexico
Lessee - Devon Energy Production Co. Ltd



Min Owner - State of New Mexico
Lessee - Yates Petroleum Corp.

Min Owner - State of New Mexico
Lessee - Crown Oil Partners V, LP

Min Owner - State of New Mexico
Lessee - Yates Petroleum Corp.

T17S, R36E

This location 660 FNL X 660 FWL
Unit Letter D, Section 26, T17S, R36E
Surface Owner - Angell #2 Family Ltd Partnership, PO
BOX 190, Lovington, NM 88260
Drawing not to scale



Exhibit "F"



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

LLANO DISPOSAL, LLC
125 W. ST. ANNE
HOBBS NM, 88240

Project: BRINE PROJECT
Project Number: NONE GIVEN
Project Manager: MARVIN BURROWS
Fax To: NONE

Reported:
30-Jun-14 12:02

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4062610 - NO PREP

LCS (4062610-BS1)

Prepared & Analyzed: 19-Jun-14

pH	7.10		pH Units	7.00	101	90-110			
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Duplicate (4062610-DUP1)

Source: H401810-01

Prepared & Analyzed: 19-Jun-14

pH	9.87	0.100	pH Units	9.85				0.203	20
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Exhibit "D"

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Page 7 of 10



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:LLANO DISPOSAL, LLC
125 W. ST. ANNE
HOBBS NM, 88240Project: BRINE PROJECT
Project Number: NONE GIVEN
Project Manager: MARVIN BURROWS
Fax To: NONEReported:
30-Jun-14 12:02**Total Recoverable Metals by ICP (E200.7) - Quality Control****Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	--------------	-------

Batch B406205 - Total Recoverable, Direct Analysis E200.7/E200.8**Blank (B406205-BLK1)**

Prepared: 23-Jun-14 Analyzed: 24-Jun-14

Magnesium	ND	1.00	mg/L
Calcium	ND	1.00	mg/L
Sodium	ND	1.00	mg/L
Potassium	ND	1.00	mg/L

LCS (B406205-BS1)

Prepared: 23-Jun-14 Analyzed: 24-Jun-14

Magnesium	23.4	1.00	mg/L	25.0	93.5	85-115
Potassium	9.42	1.00	mg/L	10.0	94.2	85-115
Sodium	7.38	1.00	mg/L	8.10	91.1	85-115
Calcium	4.47	1.00	mg/L	5.00	89.4	85-115

LCS Dup (B406205-BSD1)

Prepared: 23-Jun-14 Analyzed: 24-Jun-14

Magnesium	23.5	1.00	mg/L	25.0	94.2	85-115	0.640	20
Potassium	9.14	1.00	mg/L	10.0	91.4	85-115	3.05	20
Sodium	7.46	1.00	mg/L	8.10	92.0	85-115	1.08	20
Calcium	4.49	1.00	mg/L	5.00	89.9	85-115	0.484	20

Exhibit "D"

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