

Carlsbad Field Office

OCD Artesia

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM0005039A
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No. POKER LAKE / NMNM071016X
2. Name of Operator XTO Permian Operating LLC 260737		8. Lease Name and Well No. POKER LAKE UNIT 21 BD 128H 322934
3a. Address 810 Houston Street Fort Worth TX 76102	3b. Phone No. (include area code) (817)885-8200	9. API Well No. 30-015-45519
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SESE / 530 FSL / 704 FEL / LAT 32.109863 / LONG -103.879809 At proposed prod. zone SENE / 2440 FNL / 330 FEL / LAT 32.072435 / LONG -103.87877		10. Field and Pool, or Exploratory PURPLE-SAGE WOLFCAMP GAS 98220
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk. and Survey or Area SEC 21 / T25S / R30E / NMP
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 200 feet		12. County or Parish EDDY
16. No of acres in lease 1920		13. State NM
17. Spacing Unit dedicated to this well 800		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet		20. BLM/BIA Bond No. in file FED: COB000050
21. Elevations (Show whether DF, KDB, RT, GL., etc.) 3267 feet	22. Approximate date work will start* 12/01/2018	23. Estimated duration 90 days
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature (Electronic Submission)	Name (Printed/Typed) Kelly Kardos / Ph: (432)620-4374	Date 08/03/2018
Title Regulatory Coordinator		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 11/05/2018
Title Assistant Field Manager Lands & Minerals		
Office CARLSBAD		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

APPROVED WITH CONDITIONS
Approval Date: 11/05/2018

RWP 12-5-18

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

1. SHL: SESE / 530 FSL / 704 FEL / TWSP: 25S / RANGE: 30E / SECTION: 21 / LAT: 32.109863 / LONG: -103.879809 (TVD: 0 feet, MD: 0 feet)
PPP: NESE / 2639 FSL / 330 FEL / TWSP: 25S / RANGE: 30E / SECTION: 33 / LAT: 32.086454 / LONG: -103.879796 (TVD: 11315 feet, MD: 19259 feet)
PPP: NENE / 330 FNL / 330 FEL / TWSP: 25S / RANGE: 30E / SECTION: 33 / LAT: 32.093779 / LONG: -103.879741 (TVD: 11315 feet, MD: 16619 feet)
PPP: NENE / 330 FNL / 330 FEL / TWSP: 25S / RANGE: 30E / SECTION: 28 / LAT: 32.1075 / LONG: -103.878601 (TVD: 11315 feet, MD: 11669 feet)
PPP: NESE / 2639 FSL / 330 FEL / TWSP: 25S / RANGE: 30E / SECTION: 28 / LAT: 32.101089 / LONG: -103.879715 (TVD: 11315 feet, MD: 13979 feet)
BHL: SENE / 2440 FNL / 330 FEL / TWSP: 26S / RANGE: 30E / SECTION: 4 / LAT: 32.072435 / LONG: -103.87877 (TVD: 11315 feet, MD: 24426 feet)

BLM Point of Contact

Name: Sipra Dahal

Title: Legal Instruments Examiner

Phone: 5752345983

Email: sdahal@blm.gov

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

PECOS DISTRICT DRILLING OPERATIONS CONDITIONS OF APPROVAL

OPERATOR'S NAME:	BOPCO LP
LEASE NO.:	NMNM0005039A
WELL NAME & NO.:	128H:Poker Lake Unit 21 BD
SURFACE HOLE FOOTAGE:	530'/S & 704'/E
BOTTOM HOLE FOOTAGE:	2440'/N & 330'/E
LOCATION:	T-25S, R-30E, S21. NMPM
COUNTY:	EDDY, NM

H2S	Yes	No	
Potash	None	Secretary	R-111-P
Cave/Karst Potential	Low	Medium	High
Variance	None	Flex Hose	Other
Wellhead	Conventional	Multibowl	Both
Other	4 String Area	Capitan Reef	WIPP

Commercial Well Determination

If the well is not in an established participating area for the proposed target formation. A commercial well determination must be submitted to the BLM Carlsbad Office, after production has been established for at least six months.

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

A. Hydrogen Sulfide

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the Delaware formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

Possibility of water flows in the Castile and Salado.

Possibility of lost circulation in the Red Beds, Rustler, Cherry & Brushy Canyon.

Abnormal pressures may be encountered penetrating the 3rd Bone Spring and Wolfcamp formations.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **1,250** feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

9-5/8" Intermediate is to be kept 1/3rds liquid filled while running in hole to meet BLM minimum collapse safety factor.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement to surface, as proposed by operator in permit. If cement does not circulate see B.1.a, c-d above.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).

2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☐ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. **If a variance** is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. **5M or higher system requires an HCR valve, remote kill line and annular to match.** The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a **multi-bowl wellhead** assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
5. The appropriate BLM office shall be notified a minimum of hours in advance for a representative to witness the tests.
 - a. **In a water basin**, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping

the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- a. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- b. The tests shall be done by an independent service company utilizing a test plug. The results of the test shall be reported to the appropriate BLM office.
- c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- d. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- e. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes. This test shall be performed prior to the test at full stack pressure.
- f. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Waste Minimization Plan (WMP)

In the interest of resource development, submission of additional well gas capture development plan information is deferred but may be required by the BLM Authorized Officer at a later date.

EGF 083118

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:	BOPCO LP
LEASE NO.:	NMNM0005039A
WELL NAME & NO.:	128H:Poker Lake Unit 21 BD
SURFACE HOLE FOOTAGE:	530'/S & 704'/E
BOTTOM HOLE FOOTAGE:	2440'/N & 330'/E
LOCATION:	T-25S, R-30E, S21. NMPM
COUNTY:	EDDY, NM

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

- ☐ **General Provisions**
- ☐ **Permit Expiration**
- ☐ **Archaeology, Paleontology, and Historical Sites**
- ☐ **Noxious Weeds**
- ☒ **Special Requirements**
 - Hydrology
- ☐ **Construction**
 - Notification
 - Topsoil
 - Closed Loop System
 - Federal Mineral Material Pits
 - Well Pads
 - Roads
- ☐ **Road Section Diagram**
- ☒ **Production (Post Drilling)**
 - Well Structures & Facilities
 - Pipelines
 - Electric Lines
- ☐ **Interim Reclamation**
- ☐ **Final Abandonment & Reclamation**

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Hydrology

The entire well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The top soil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

A leak detection plan will be submitted to the BLM Carlsbad Field Office for approval prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS**Road Width**

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

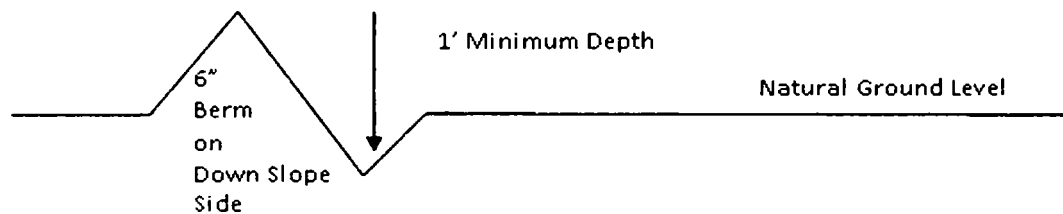
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill out sloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$400 \text{ foot road with } 4\% \text{ road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

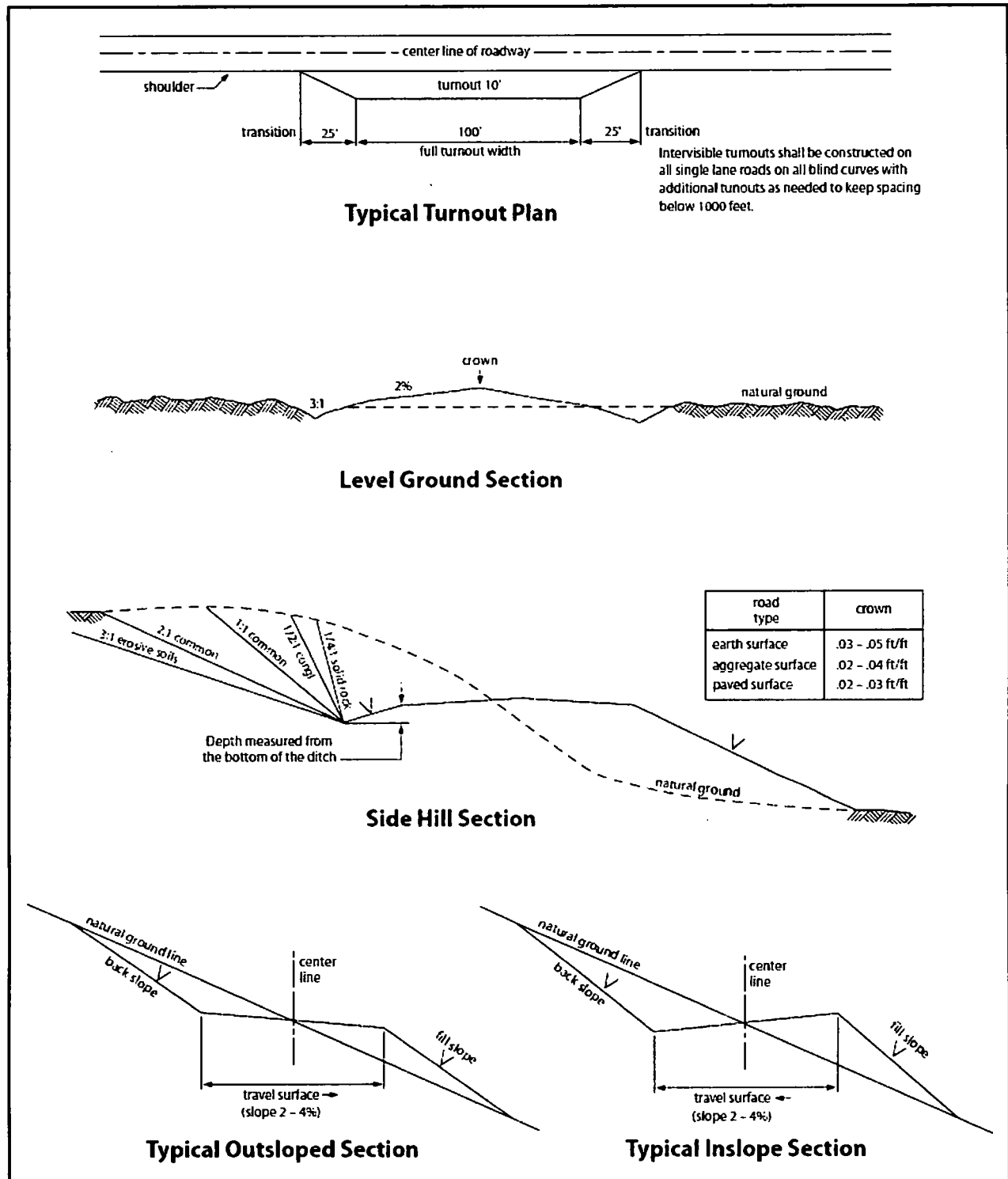


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the Grant and attachments, including stipulations, survey plat(s) and/or map(s), shall be on location during construction. BLM personnel may request to review a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC § 2601 *et seq.* (1982) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant (*see* 40 CFR, Part 702-799 and in particular, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. Holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, *et seq.* or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et seq.*) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way Holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way Holder on the Right-of-Way. This provision applies without regard to whether a release is caused by Holder, its agent, or unrelated third parties.

4. Holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. Holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:

- a. Activities of Holder including, but not limited to: construction, operation, maintenance, and termination of the facility;
- b. Activities of other parties including, but not limited to:
 - (1) Land clearing
 - (2) Earth-disturbing and earth-moving work
 - (3) Blasting
 - (4) Vandalism and sabotage;

c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of Holder, regardless of fault. Upon failure of Holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he/she deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of Holder. Such action by the Authorized Officer shall not relieve Holder of any responsibility as provided herein.

6. All construction and maintenance activity shall be confined to the authorized right-of-way width of 20 feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline shall be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline shall be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be confined to existing roads or right-of-ways.

7. No blading or clearing of any vegetation shall be allowed unless approved in writing by the Authorized Officer.

8. Holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky or dune areas, the pipeline shall be "snaked" around hummocks and dunes rather than suspended across these features.

9. The pipeline shall be buried with a minimum of 24 inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.

13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.

14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made

by the authorized officer after consulting with the holder.

16. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

17. Surface pipelines shall be less than or equal to 4 inches and a working pressure below 125 psi.

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et

seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.

6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this right-of-way will be 30 feet:

- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 20 feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
- Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
- The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be

segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

<input type="checkbox"/> seed mixture 1	<input type="checkbox"/> seed mixture 3
<input checked="" type="checkbox"/> seed mixture 2	<input type="checkbox"/> seed mixture 4
<input type="checkbox"/> seed mixture 2/LPC	<input type="checkbox"/> Aplomado Falcon Mixture

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

17. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

18. Escape Ramps - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.
5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006 . The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Sand dropseed (<i>Sporobolus cryptandrus</i>)	1.0
Sand love grass (<i>Eragrostis trichodes</i>)	1.0
Plains bristlegrass (<i>Setaria macrostachya</i>)	2.0

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Operator Certification Data Report

11/06/2018

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C.

NAME: Kelly Kardos

Signed on: 08/02/2018

Title: Regulatory Coordinator

Street Address:

City: Midland

State: TX

Zip: 79701

Phone: (432)620-4374

Email address: kelly_kardos@xtoenergy.com

Field Representative

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Application Data Report

11/06/2018

APD ID: 10400032709

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 21 BD

Well Type: CONVENTIONAL GAS WELL

Submission Date: 08/03/2018

Well Number: 128H

Well Work Type: Drill



[Show Final Text](#)

Section 1 - General

APD ID: 10400032709

BLM Office: CARLSBAD

Federal/Indian APD: FED

Lease number: NMNM0005039A

Surface access agreement in place?

Agreement in place? YES

Agreement number: NMNM071016X

Agreement name:

Keep application confidential? NO

Permitting Agent? NO

Operator letter of designation: PLU_21_BD_Op_Rights_20180802105204.pdf

Tie to previous NOS? 10400014153

User: Kelly Kardos

Is the first lease penetrated for production Federal or Indian? FED

Lease Acres: 1920

Allotted?

Reservation:

Federal or Indian agreement: FEDERAL

Submission Date: 08/03/2018

Title: Regulatory Coordinator

Operator Info

Operator Organization Name: BOPCO LP

Operator Address: 810 Houston Street

Operator PO Box:

Operator City: Fort Worth

State: TX

Operator Phone: (817)885-8200

Operator Internet Address:

Zip: 76102

Section 2 - Well Information

Well in Master Development Plan? NO

Well in Master SUPO? NO

Well in Master Drilling Plan? NO

Well Name: POKER LAKE UNIT 21 BD

Field/Pool or Exploratory? Field and Pool

Mater Development Plan name:

Master SUPO name:

Master Drilling Plan name:

Well Number: 128H

Field Name: PURPLE-SAGE
WOLFCAMP GAS

Well API Number:

Pool Name:

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 21 BD

Well Number: 128H

Is the proposed well in an area containing other mineral resources? USEABLE WATER

Describe other minerals:

Is the proposed well in a Helium production area? N

Use Existing Well Pad? NO

New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name:

Number: 4

Well Class: HORIZONTAL

POKER LAKE UNIT 21 BD

Number of Legs: 1

Well Work Type: Drill

Well Type: CONVENTIONAL GAS WELL

Describe Well Type:

Well sub-Type: DELINEATION

Describe sub-type:

Distance to town:

Distance to nearest well: 30 FT

Distance to lease line: 200 FT

Reservoir well spacing assigned acres Measurement: 800 Acres

Well plat: PLU_21_BD_128H_C102_20180802105236.pdf

Well work start Date: 12/01/2018

Duration: 90 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
	530	FSL	704	FEL	25S	30E	21	SESE	32.10986 3	- 103.8798 09	EDD Y	NEW MEXI	NEW MEXI	F	NMLC0 063875	326 7	0	0
	530	FSL	704	FEL	25S	30E	21	SESE	32.10986 3	- 103.8798 09	EDD Y	NEW MEXI	NEW MEXI	F	NMLC0 063875	- 752 7	107 94	107 94
	330	FNL	330	FEL	25S	30E	28	NENE	32.1075	- 103.8786 01	EDD Y	NEW MEXI	NEW MEXI	F	NMNM 000503	- 804 8	116 69	113 15

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 21 BD

Well Number: 128H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
	263 9	FSL	330	FEL	25S	30E	28	NESE	32.10108 9	- 103.8797 15	EDD Y	NEW MEXI	NEW MEXI	F	NMNM 000503	- 804 8	139 79	113 15
	263 9	FSL	330	FEL	25S	30E	33	NESE	32.08645 4	- 103.8797 96	EDD Y	NEW MEXI	NEW MEXI	F	NMNM 000503	- 804 8	192 59	113 15
	330	FNL	330	FEL	25S	30E	33	NENE	32.09377 9	- 103.8797 41	EDD Y	NEW MEXI	NEW MEXI	F	NMNM 000503	- 804 8	166 19	113 15
	231 0	FNL	330	FEL	26S	30E	4	SENE	32.07279 2	- 103.8787 7	EDD Y	NEW MEXI	NEW MEXI	F	NMLC0 069852	- 804 8	242 96	113 15
	244 0	FNL	330	FEL	26S	30E	4	SENE	32.07243 5	- 103.8787 7	EDD Y	NEW MEXI	NEW MEXI	F	NMLC0 069852	- 804 8	244 26	113 15



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

11/06/2018

APD ID: 10400032709

Submission Date: 08/03/2018

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 21 BD

Well Number: 128H

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill



Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	PERMIAN	3267	0	0	OTHER : Quaternary	NONE	No
2	RUSTLER	2322	945	945	SILTSTONE	USEABLE WATER	No
3	TOP SALT	1622	1645	1645	SALT	OTHER : Produced Water	No
4	BASE OF SALT	-370	3637	3637	SALT	OTHER : Produced Water	No
5	DELAWARE	-584	3851	3851	SANDSTONE	NATURAL GAS,OIL,OTHER : Produced Water	No
6	BONE SPRING	-4346	7613	7613	SANDSTONE	NATURAL GAS,OIL,OTHER : Produced Water	No
7	BONE SPRING 1ST	-5336	8603	8603	SANDSTONE	NATURAL GAS,OIL,OTHER : Produced Water	No
8	BONE SPRING 2ND	-6146	9413	9413	SANDSTONE	NATURAL GAS,OIL,OTHER : Produced Water	No
9	BONE SPRING 3RD	-7271	10538	10538	SANDSTONE	NATURAL GAS,OIL,OTHER : Produced Water	No
10	WOLFCAMP	-7678	10945	10945	SHALE	NATURAL GAS,OIL,OTHER : Produced Water	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 11513

Equipment: The blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 3983 psi.

Requesting Variance? YES

Variance request: A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.

Testing Procedure: All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nipping up on the 13-5/8" 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nipping up on the 9-5/8", the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 21 BD

Well Number: 128H

pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

Choke Diagram Attachment:

PLU_21_BD_5MCM_20180802105901.pdf

BOP Diagram Attachment:

PLU_21_BD_5MBOP_20180802105911.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1620	0	1620			1620	J-55	68	STC	2.63	1.19	DRY	6.13	DRY	6.13
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	9500	0	9500			9500	HCL-80	40	LTC	1.44	1.44	DRY	2.2	DRY	2.2
3	PRODUCTION	8.75	5.5	NEW	API	N	0	24426	0	11315			24426	P-110	17	BUTT	1.85	1.33	DRY	1.99	DRY	1.99

Casing Attachments

Casing ID: 1 **String Type:** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_21_BD_128H_Csg_20180927072339.pdf

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 21 BD

Well Number: 128H

Casing Attachments

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_21_BD_128H_Csg_20180927072359.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_21_BD_128H_Csg_20180927072410.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1620	980	1.87	12.9	1832.6	100	EconoCemt-HLTRRC	None
SURFACE	Tail				300	1.35	14.8	405	100	HalCem-C	2% CaCl
INTERMEDIATE	Lead		0	9500	2420	1.88	12.9	4549.6	100	Halcem-C	2% CaCl
INTERMEDIATE	Tail				230	1.33	14.8	305.9	100	Halcem-C	2% CaCl
PRODUCTION	Lead		0	2442.6	150	2.69	10.5	403.5	30	NeoCem	None

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 21 BD

Well Number: 128H

String Type	Lead/Tail	Stage Tool	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail				2880	1.61	13.2	4636.8	30	VersaCem	none

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: The necessary mud products for weight addition and fluid loss control will be on location at all times.

Describe the mud monitoring system utilized: A Pason or Totco will be used to detect changes in loss or gain of mud volume.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
9500	2442 6	OTHER : FW / Cut Brine / Polymer	10.7	11							A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system
0	1620	OTHER : FW/Native	8.4	8.8							A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 21 BD

Well Number: 128H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1620	9500	OTHER : Brine/Gel Sweeps	9.8	10.2							control equipment to operate as a closed loop system
											A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Open hole logging to include Density/Neutron/PE/Dual Laterlog/Spectral Gamma from kick-off point to intermediate casing shoe.

List of open and cased hole logs run in the well:

CBL,CNL,DS,GR,MUDLOG

Coring operation description for the well:

No coring will take place on this well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6472

Anticipated Surface Pressure: 3982.7

Anticipated Bottom Hole Temperature(F): 170

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Potential loss of circulation through the Capitan Reef.

Contingency Plans geohazards description:

The necessary mud products for weight addition and fluid loss control will be on location at all times. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid.

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 21 BD

Well Number: 128H

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

PLU_21_BD_H2S_Plan_20180802110206.pdf

PLU_21_BD_H2S_Dia_Pad_4_20180802110220.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

PLU_21_BD_128H_DD_20180802110243.pdf

Other proposed operations facets description:

XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint.

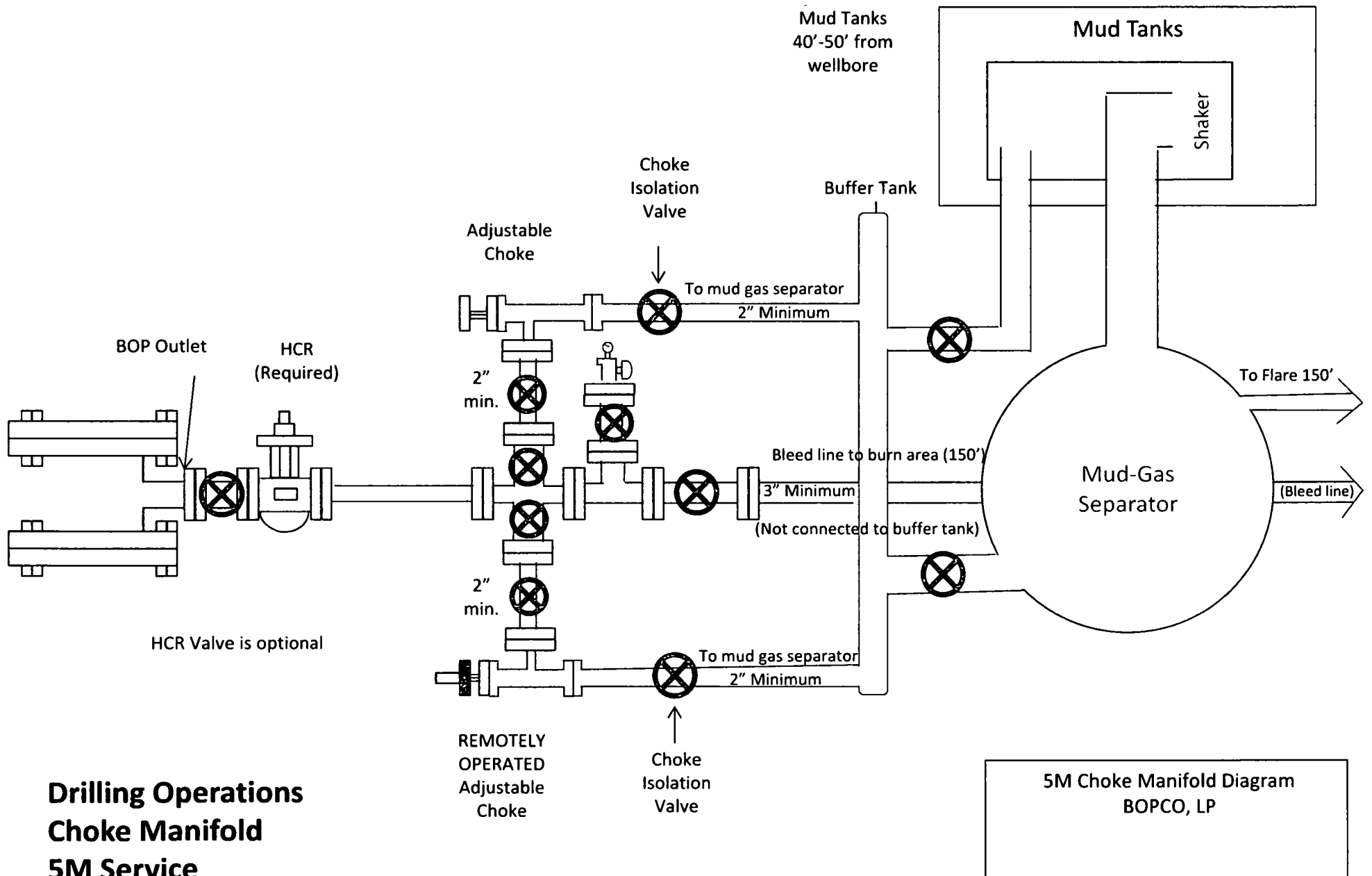
Other proposed operations facets attachment:

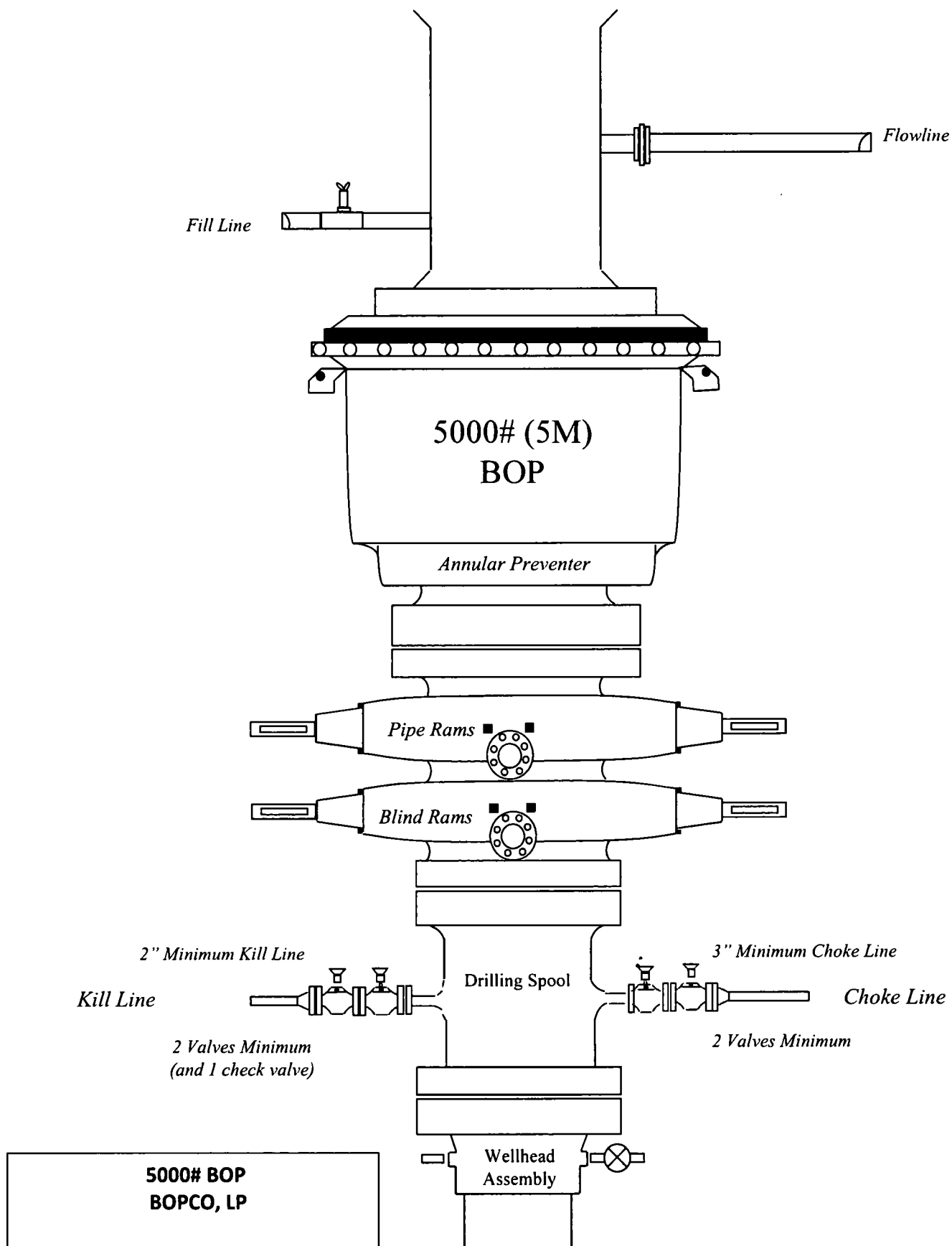
PLU_21_BD_GCPE_20180802110256.pdf

PLU_21_BD_GCPW_20180802110303.pdf

Other Variance attachment:

PLU_21_BD_FH_20180802110333.pdf





BOPCO, L.P.
 PLU 21 Brushy Draw 128H
 Projected TD: 24426' MD / 11315' TVD
 SHL: 530' FSL & 704' FEL , Section 21, T25S, R30E
 BHL: 2440' FNL & 330' FEL , Section 4, T26S, R30E
 Eddy County, NM

Casing Worksheet

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' – 1620'	13-3/8"	68	STC	J-55	New	1.19	2.63	6.13
12-1/4"	0' – 9500'	9-5/8"	40	LTC	HCL-80	New	1.44	1.44	2.20
8-3/4"	0' – 24426'	5-1/2"	17	BTC	P-110	New	1.33	1.85	1.99

· XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint.

WELLHEAD:

Permanent Wellhead – GE RSH Multibowl System

A. Starting Head: 13-5/8" 5M top flange x 13-3/8" SOW bottom

B. Tubing Head: 13-5/8" 5M bottom flange x 7-1/16" 10M top flange

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Manufacturer will witness installation of test plug for initial test.
- Operator will test the 9-5/8" casing to 70% of casing burst before drilling out.

BOPCO, L.P.
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BOPCO, L.P.

6401 Holiday Hill Road
Midland, Tx 79707
(432) 683-2277

HYDROGEN SULFIDE (H₂S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - o Detection of H₂S, and
 - o Measures for protection against the gas,
 - o Equipment used for protection and emergency response.

Ignition of Gas source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever this is an ignition of the gas.

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Contacting Authorities

BOPCO, L.P. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. (Operator Name)'s response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

CARLSBAD OFFICE – EDDY & LEA COUNTIES

3104 E. Greene St., Carlsbad, NM 88220
Carlsbad, NM

575-887-7329

BOPCO, L.P. PERSONNEL:

Kendall Decker, Drilling Manager	903-521-6477
Milton Turman, Drilling Superintendent	817-524-5107
Jeff Raines, Construction Foreman	432-557-3159
Toady Sanders, EH & S Manager	903-520-1601
Wes McSpadden, Production Foreman	575-441-1147

SHERIFF DEPARTMENTS:

Eddy County	575-887-7551
Lea County	575-396-3611

NEW MEXICO STATE POLICE:

575-392-5588

FIRE DEPARTMENTS:

	911
Carlsbad	575-885-2111
Eunice	575-394-2111
Hobbs	575-397-9308
Jal	575-395-2221
Lovington	575-396-2359

HOSPITALS:

	911
Carlsbad Medical Emergency	575-885-2111
Eunice Medical Emergency	575-394-2112
Hobbs Medical Emergency	575-397-9308
Jal Medical Emergency	575-395-2221
Lovington Medical Emergency	575-396-2359

AGENT NOTIFICATIONS:

For Lea County:

Bureau of Land Management – Hobbs	575-393-3612
New Mexico Oil Conservation Division – Hobbs	575-393-6161

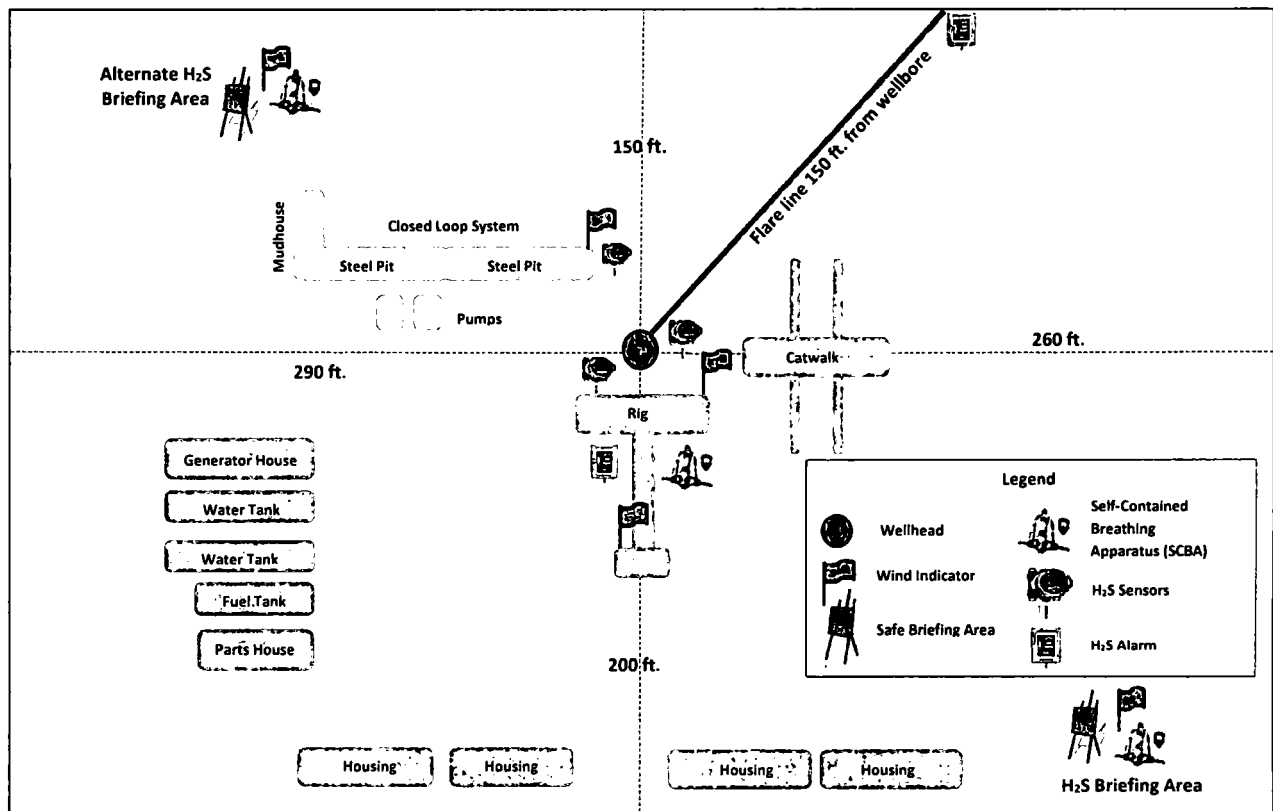
For Eddy County:

Bureau of Land Management - Carlsbad	575-234-5972
New Mexico Oil Conservation Division - Artesia	575-748-1283

↑
S

Prevailing Winds
Direction SW

H₂S Briefing Areas and Alarm Locations



Access Road



XTO Energy

**Eddy County, NM (NAD-27)
PLU 21 Brushy Draw
128H**

OH

Plan: PERMIT Rev1

Standard Planning Report

18 June, 2018

WELL DETAILS: 128H

+N-S		+E-W	Northings	Easting	Latitude	Longitude
0.00		0.00	403941.70	640572.10	32.106738	-103.870328

DESIGN TARGET DETAILS

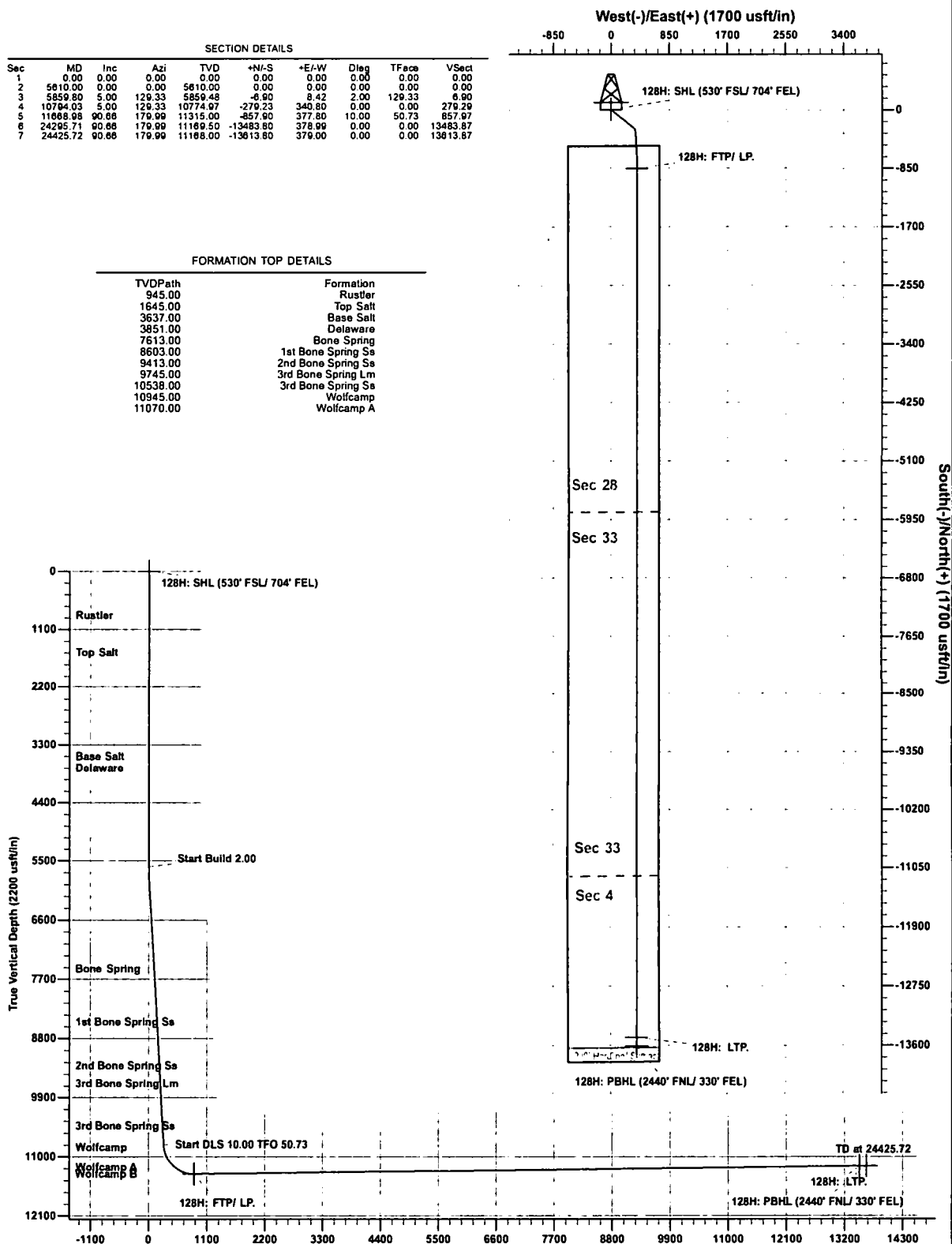
Name	TVD	+N/-S	+E/-W	Nothing	Easting	Latitude	Longitude	Shape
128H: SHL (530° FSL/ 704° FEL)	0.00	0.00	0.00	403941.70	640572.10	32.109738	-103.876328	Point
128H: PBHL (2440° FNL/ 330° FEL)	11668.00	-13810.18	379.00	403927.60	640951.90	32.072310	-103.878288	Point
128H: LPL	11169.50	-13493.60	378.40	403457.70	640967.30	32.127688	-103.878688	Point
128H: LPL / LP	13115.90	-852.80	377.80	398083.80	640959.90	32.193735	-103.878119	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	5610.00	0.00	0.00	5610.00	0.00	0.00	0.00	0.00	0.00
3	5858.00	5.00	126.33	5858.00	8.40	0.00	0.00	126.33	6.00
4	10786.00	0.00	126.33	10777.97	-279.23	377.80	0.00	0.00	276.29
5	11668.08	90.68	179.99	11315.00	-457.00	340.80	10.00	50.73	857.97
6	24295.71	90.68	179.99	11169.50	-13483.80	378.99	0.00	0.00	13483.87
7	24225.72	90.68	179.99	11688.00	-13613.80	379.00	0.00	0.00	13613.87

FORMATION TOP DETAILS

TVDPATH	Formation
945.00	Rustler
1645.00	Top Salt
3637.00	Base Salt
3851.00	Delaware
7613.00	Bone Spring
8603.00	1st Bone Spring Sa
9413.00	2nd Bone Spring Sa
9745.00	3rd Bone Spring Lm
10538.00	3rd Bone Spring Sa
10945.00	Wolfcamp
11070.00	Wolfcamp A



The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by Protovine are at the sole risk and responsibility of the customer.

Vertical Section at 179.99° (2200 usft)

Plan: PERMIT Rev1 (128H/OH)

Created By: Matthew May Date: 14:59, June 18 2018



Database: EDM 5000.1 Single User Db
Company: XTO Energy
Project: Eddy County, NM (NAD-27)
Site: PLU 21 Brushy Draw
Well: 128H
Wellbore: OH
Design: PERMIT Rev1

Local Co-ordinate Reference: Well 128H
TVD Reference: RKB = 27' @ 3294.00usft
MD Reference: RKB = 27' @ 3294.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00



Database: EDM 5000.1 Single User Db
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Site: PLU 21 Brushy Draw
Well: 128H
Wellbore: OH
Design: PERMIT Rev1

Local Co-ordinate Reference: Well 128H
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MD Reference: RKB = 27' @ 3294.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,610.00	0.00	0.00	5,610.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	1.80	129.33	5,699.99	-0.90	1.09	0.90	2.00	2.00	0.00
5,800.00	3.80	129.33	5,799.86	-3.99	4.87	3.99	2.00	2.00	0.00
5,859.80	5.00	129.33	5,859.48	-6.90	8.42	6.90	2.00	2.00	0.00
5,900.00	5.00	129.33	5,899.53	-9.12	11.13	9.12	0.00	0.00	0.00
6,000.00	5.00	129.33	5,999.15	-14.64	17.86	14.64	0.00	0.00	0.00
6,100.00	5.00	129.33	6,098.77	-20.16	24.60	20.16	0.00	0.00	0.00
6,200.00	5.00	129.33	6,198.39	-25.67	31.34	25.68	0.00	0.00	0.00
6,300.00	5.00	129.33	6,298.01	-31.19	38.07	31.20	0.00	0.00	0.00
6,400.00	5.00	129.33	6,397.63	-36.71	44.81	36.72	0.00	0.00	0.00
6,500.00	5.00	129.33	6,497.25	-42.23	51.54	42.24	0.00	0.00	0.00
6,600.00	5.00	129.33	6,596.87	-47.75	58.28	47.76	0.00	0.00	0.00
6,700.00	5.00	129.33	6,696.49	-53.27	65.02	53.28	0.00	0.00	0.00
6,800.00	5.00	129.33	6,796.11	-58.79	71.75	58.80	0.00	0.00	0.00
6,900.00	5.00	129.33	6,895.73	-64.31	78.49	64.32	0.00	0.00	0.00
7,000.00	5.00	129.33	6,995.35	-69.83	85.23	69.84	0.00	0.00	0.00
7,100.00	5.00	129.33	7,094.97	-75.35	91.96	75.36	0.00	0.00	0.00
7,200.00	5.00	129.33	7,194.59	-80.87	98.70	80.88	0.00	0.00	0.00
7,300.00	5.00	129.33	7,294.21	-86.39	105.44	86.41	0.00	0.00	0.00
7,400.00	5.00	129.33	7,393.83	-91.91	112.17	91.93	0.00	0.00	0.00
7,500.00	5.00	129.33	7,493.45	-97.43	118.91	97.45	0.00	0.00	0.00
7,600.00	5.00	129.33	7,593.07	-102.94	125.64	102.97	0.00	0.00	0.00
7,700.00	5.00	129.33	7,692.69	-108.46	132.38	108.49	0.00	0.00	0.00
7,800.00	5.00	129.33	7,792.31	-113.98	139.12	114.01	0.00	0.00	0.00
7,900.00	5.00	129.33	7,891.93	-119.50	145.85	119.53	0.00	0.00	0.00
8,000.00	5.00	129.33	7,991.55	-125.02	152.59	125.05	0.00	0.00	0.00
8,100.00	5.00	129.33	8,091.17	-130.54	159.33	130.57	0.00	0.00	0.00
8,200.00	5.00	129.33	8,190.79	-136.06	166.06	136.09	0.00	0.00	0.00
8,300.00	5.00	129.33	8,290.41	-141.58	172.80	141.61	0.00	0.00	0.00
8,400.00	5.00	129.33	8,390.03	-147.10	179.53	147.13	0.00	0.00	0.00
8,500.00	5.00	129.33	8,489.65	-152.62	186.27	152.65	0.00	0.00	0.00
8,600.00	5.00	129.33	8,589.27	-158.14	193.01	158.17	0.00	0.00	0.00
8,700.00	5.00	129.33	8,688.89	-163.66	199.74	163.69	0.00	0.00	0.00
8,800.00	5.00	129.33	8,788.51	-169.18	206.48	169.21	0.00	0.00	0.00
8,900.00	5.00	129.33	8,888.13	-174.70	213.22	174.73	0.00	0.00	0.00
9,000.00	5.00	129.33	8,987.75	-180.21	219.95	180.25	0.00	0.00	0.00
9,100.00	5.00	129.33	9,087.37	-185.73	226.69	185.77	0.00	0.00	0.00
9,200.00	5.00	129.33	9,186.99	-191.25	233.43	191.29	0.00	0.00	0.00
9,300.00	5.00	129.33	9,286.61	-196.77	240.16	196.81	0.00	0.00	0.00
9,400.00	5.00	129.33	9,386.23	-202.29	246.90	202.33	0.00	0.00	0.00
9,500.00	5.00	129.33	9,485.85	-207.81	253.63	207.86	0.00	0.00	0.00
9,600.00	5.00	129.33	9,585.47	-213.33	260.37	213.38	0.00	0.00	0.00
9,700.00	5.00	129.33	9,685.09	-218.85	267.11	218.90	0.00	0.00	0.00
9,800.00	5.00	129.33	9,784.71	-224.37	273.84	224.42	0.00	0.00	0.00
9,900.00	5.00	129.33	9,884.33	-229.89	280.58	229.94	0.00	0.00	0.00
10,000.00	5.00	129.33	9,983.95	-235.41	287.32	235.46	0.00	0.00	0.00
10,100.00	5.00	129.33	10,083.57	-240.93	294.05	240.98	0.00	0.00	0.00
10,200.00	5.00	129.33	10,183.19	-246.45	300.79	246.50	0.00	0.00	0.00
10,300.00	5.00	129.33	10,282.81	-251.97	307.52	252.02	0.00	0.00	0.00
10,400.00	5.00	129.33	10,382.43	-257.48	314.26	257.54	0.00	0.00	0.00
10,500.00	5.00	129.33	10,482.05	-263.00	321.00	263.06	0.00	0.00	0.00
10,600.00	5.00	129.33	10,581.67	-268.52	327.73	268.58	0.00	0.00	0.00



Database: EDM 5000.1 Single User Db
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Project: Eddy County, NM (NAD-27)
Site: PLU 21 Brushy Draw
Well: 128H
Wellbore: OH
Design: PERMIT Rev1

Local Co-ordinate Reference: Well 128H
TVD Reference: RKB = 27' @ 3294.00usft
MD Reference: RKB = 27' @ 3294.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,700.00	5.00	129.33	10,681.29	-274.04	334.47	274.10	0.00	0.00	0.00
10,794.03	5.00	129.33	10,774.97	-279.23	340.80	279.29	0.00	0.00	0.00
10,800.00	5.39	134.25	10,780.91	-279.59	341.21	279.65	10.00	6.66	82.46
10,850.00	9.57	156.33	10,830.49	-285.04	344.56	285.10	10.00	8.36	44.16
10,900.00	14.29	164.56	10,879.40	-294.80	347.87	294.86	10.00	9.43	16.46
10,950.00	19.14	168.73	10,927.27	-308.80	351.12	308.86	10.00	9.72	8.33
11,000.00	24.06	171.24	10,973.75	-326.93	354.28	326.99	10.00	9.83	5.04
11,050.00	29.00	172.95	11,018.47	-349.04	357.32	349.10	10.00	9.88	3.41
11,100.00	33.96	174.19	11,061.10	-374.98	360.22	375.04	10.00	9.92	2.49
11,150.00	38.93	175.15	11,101.31	-404.54	362.96	404.61	10.00	9.94	1.92
11,200.00	43.90	175.92	11,138.79	-437.51	365.53	437.57	10.00	9.95	1.55
11,250.00	48.88	176.57	11,173.27	-473.62	367.89	473.68	10.00	9.96	1.29
11,300.00	53.86	177.12	11,204.48	-512.61	370.03	512.67	10.00	9.96	1.11
11,350.00	58.84	177.61	11,232.17	-554.17	371.94	554.24	10.00	9.97	0.97
11,400.00	63.83	178.05	11,256.15	-598.00	373.60	598.07	10.00	9.97	0.88
11,450.00	68.81	178.45	11,276.22	-643.76	374.99	643.82	10.00	9.97	0.80
11,500.00	73.80	178.83	11,292.24	-691.09	376.12	691.16	10.00	9.97	0.75
11,550.00	78.79	179.18	11,304.08	-739.64	376.96	739.71	10.00	9.98	0.71
11,600.00	83.78	179.53	11,311.66	-789.05	377.51	789.11	10.00	9.98	0.69
11,650.00	88.77	179.87	11,314.91	-838.93	377.78	838.99	10.00	9.98	0.68
11,668.98	90.66	179.99	11,315.00	-857.90	377.80	857.97	10.00	9.98	0.67
11,700.00	90.66	179.99	11,314.64	-888.92	377.80	888.99	0.00	0.00	0.00
11,800.00	90.66	179.99	11,313.49	-988.92	377.81	988.98	0.00	0.00	0.00
11,900.00	90.66	179.99	11,312.34	-1,088.91	377.82	1,088.97	0.00	0.00	0.00
12,000.00	90.66	179.99	11,311.19	-1,188.90	377.83	1,188.97	0.00	0.00	0.00
12,100.00	90.66	179.99	11,310.03	-1,288.90	377.84	1,288.96	0.00	0.00	0.00
12,200.00	90.66	179.99	11,308.88	-1,388.89	377.85	1,388.95	0.00	0.00	0.00
12,300.00	90.66	179.99	11,307.73	-1,488.88	377.86	1,488.95	0.00	0.00	0.00
12,400.00	90.66	179.99	11,306.58	-1,588.88	377.87	1,588.94	0.00	0.00	0.00
12,500.00	90.66	179.99	11,305.42	-1,688.87	377.88	1,688.93	0.00	0.00	0.00
12,600.00	90.66	179.99	11,304.27	-1,788.86	377.89	1,788.93	0.00	0.00	0.00
12,700.00	90.66	179.99	11,303.12	-1,888.86	377.90	1,888.92	0.00	0.00	0.00
12,800.00	90.66	179.99	11,301.97	-1,988.85	377.91	1,988.91	0.00	0.00	0.00
12,900.00	90.66	179.99	11,300.81	-2,088.84	377.92	2,088.91	0.00	0.00	0.00
13,000.00	90.66	179.99	11,299.66	-2,188.84	377.93	2,188.90	0.00	0.00	0.00
13,100.00	90.66	179.99	11,298.51	-2,288.83	377.93	2,288.89	0.00	0.00	0.00
13,200.00	90.66	179.99	11,297.36	-2,388.82	377.94	2,388.89	0.00	0.00	0.00
13,300.00	90.66	179.99	11,296.21	-2,488.82	377.95	2,488.88	0.00	0.00	0.00
13,400.00	90.66	179.99	11,295.05	-2,588.81	377.96	2,588.87	0.00	0.00	0.00
13,500.00	90.66	179.99	11,293.90	-2,688.80	377.97	2,688.87	0.00	0.00	0.00
13,600.00	90.66	179.99	11,292.75	-2,788.80	377.98	2,788.86	0.00	0.00	0.00
13,700.00	90.66	179.99	11,291.60	-2,888.79	377.99	2,888.86	0.00	0.00	0.00
13,800.00	90.66	179.99	11,290.44	-2,988.78	378.00	2,988.85	0.00	0.00	0.00
13,900.00	90.66	179.99	11,289.29	-3,088.78	378.01	3,088.84	0.00	0.00	0.00
14,000.00	90.66	179.99	11,288.14	-3,188.77	378.02	3,188.84	0.00	0.00	0.00
14,100.00	90.66	179.99	11,286.99	-3,288.76	378.03	3,288.83	0.00	0.00	0.00
14,200.00	90.66	179.99	11,285.83	-3,388.76	378.04	3,388.82	0.00	0.00	0.00
14,300.00	90.66	179.99	11,284.68	-3,488.75	378.05	3,488.82	0.00	0.00	0.00
14,400.00	90.66	179.99	11,283.53	-3,588.74	378.06	3,588.81	0.00	0.00	0.00
14,500.00	90.66	179.99	11,282.38	-3,688.74	378.07	3,688.80	0.00	0.00	0.00
14,600.00	90.66	179.99	11,281.23	-3,788.73	378.08	3,788.80	0.00	0.00	0.00
14,700.00	90.66	179.99	11,280.07	-3,888.72	378.09	3,888.79	0.00	0.00	0.00
14,800.00	90.66	179.99	11,278.92	-3,988.72	378.09	3,988.78	0.00	0.00	0.00
14,900.00	90.66	179.99	11,277.77	-4,088.71	378.10	4,088.78	0.00	0.00	0.00



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15,000.00	90.66	179.99	11,276.62	-4,188.70	378.11	4,188.77	0.00	0.00	0.00
15,100.00	90.66	179.99	11,275.46	-4,288.70	378.12	4,288.76	0.00	0.00	0.00
15,200.00	90.66	179.99	11,274.31	-4,388.69	378.13	4,388.76	0.00	0.00	0.00
15,300.00	90.66	179.99	11,273.16	-4,488.68	378.14	4,488.75	0.00	0.00	0.00
15,400.00	90.66	179.99	11,272.01	-4,588.68	378.15	4,588.74	0.00	0.00	0.00
15,500.00	90.66	179.99	11,270.85	-4,688.67	378.16	4,688.74	0.00	0.00	0.00
15,600.00	90.66	179.99	11,269.70	-4,788.66	378.17	4,788.73	0.00	0.00	0.00
15,700.00	90.66	179.99	11,268.55	-4,888.66	378.18	4,888.72	0.00	0.00	0.00
15,800.00	90.66	179.99	11,267.40	-4,988.65	378.19	4,988.72	0.00	0.00	0.00
15,900.00	90.66	179.99	11,266.24	-5,088.64	378.20	5,088.71	0.00	0.00	0.00
16,000.00	90.66	179.99	11,265.09	-5,188.64	378.21	5,188.70	0.00	0.00	0.00
16,100.00	90.66	179.99	11,263.94	-5,288.63	378.22	5,288.70	0.00	0.00	0.00
16,200.00	90.66	179.99	11,262.79	-5,388.62	378.23	5,388.69	0.00	0.00	0.00
16,300.00	90.66	179.99	11,261.64	-5,488.62	378.24	5,488.68	0.00	0.00	0.00
16,400.00	90.66	179.99	11,260.48	-5,588.61	378.25	5,588.68	0.00	0.00	0.00
16,500.00	90.66	179.99	11,259.33	-5,688.60	378.25	5,688.67	0.00	0.00	0.00
16,600.00	90.66	179.99	11,258.18	-5,788.60	378.26	5,788.66	0.00	0.00	0.00
16,700.00	90.66	179.99	11,257.03	-5,888.59	378.27	5,888.66	0.00	0.00	0.00
16,800.00	90.66	179.99	11,255.87	-5,988.58	378.28	5,988.65	0.00	0.00	0.00
16,900.00	90.66	179.99	11,254.72	-6,088.58	378.29	6,088.64	0.00	0.00	0.00
17,000.00	90.66	179.99	11,253.57	-6,188.57	378.30	6,188.64	0.00	0.00	0.00
17,100.00	90.66	179.99	11,252.42	-6,288.56	378.31	6,288.63	0.00	0.00	0.00
17,200.00	90.66	179.99	11,251.26	-6,388.56	378.32	6,388.62	0.00	0.00	0.00
17,300.00	90.66	179.99	11,250.11	-6,488.55	378.33	6,488.62	0.00	0.00	0.00
17,400.00	90.66	179.99	11,248.96	-6,588.54	378.34	6,588.61	0.00	0.00	0.00
17,500.00	90.66	179.99	11,247.81	-6,688.54	378.35	6,688.60	0.00	0.00	0.00
17,600.00	90.66	179.99	11,246.66	-6,788.53	378.36	6,788.60	0.00	0.00	0.00
17,700.00	90.66	179.99	11,245.50	-6,888.52	378.37	6,888.59	0.00	0.00	0.00
17,800.00	90.66	179.99	11,244.35	-6,988.52	378.38	6,988.58	0.00	0.00	0.00
17,900.00	90.66	179.99	11,243.20	-7,088.51	378.39	7,088.58	0.00	0.00	0.00
18,000.00	90.66	179.99	11,242.05	-7,188.50	378.40	7,188.57	0.00	0.00	0.00
18,100.00	90.66	179.99	11,240.89	-7,288.50	378.40	7,288.56	0.00	0.00	0.00
18,200.00	90.66	179.99	11,239.74	-7,388.49	378.41	7,388.56	0.00	0.00	0.00
18,300.00	90.66	179.99	11,238.59	-7,488.48	378.42	7,488.55	0.00	0.00	0.00
18,400.00	90.66	179.99	11,237.44	-7,588.48	378.43	7,588.54	0.00	0.00	0.00
18,500.00	90.66	179.99	11,236.28	-7,688.47	378.44	7,688.54	0.00	0.00	0.00
18,600.00	90.66	179.99	11,235.13	-7,788.46	378.45	7,788.53	0.00	0.00	0.00
18,700.00	90.66	179.99	11,233.98	-7,888.46	378.46	7,888.52	0.00	0.00	0.00
18,800.00	90.66	179.99	11,232.83	-7,988.45	378.47	7,988.52	0.00	0.00	0.00
18,900.00	90.66	179.99	11,231.67	-8,088.44	378.48	8,088.51	0.00	0.00	0.00
19,000.00	90.66	179.99	11,230.52	-8,188.44	378.49	8,188.50	0.00	0.00	0.00
19,100.00	90.66	179.99	11,229.37	-8,288.43	378.50	8,288.50	0.00	0.00	0.00
19,200.00	90.66	179.99	11,228.22	-8,388.42	378.51	8,388.49	0.00	0.00	0.00
19,300.00	90.66	179.99	11,227.07	-8,488.42	378.52	8,488.48	0.00	0.00	0.00
19,400.00	90.66	179.99	11,225.91	-8,588.41	378.53	8,588.48	0.00	0.00	0.00
19,500.00	90.66	179.99	11,224.76	-8,688.40	378.54	8,688.47	0.00	0.00	0.00
19,600.00	90.66	179.99	11,223.61	-8,788.40	378.55	8,788.46	0.00	0.00	0.00
19,700.00	90.66	179.99	11,222.46	-8,888.39	378.56	8,888.46	0.00	0.00	0.00
19,800.00	90.66	179.99	11,221.30	-8,988.38	378.56	8,988.45	0.00	0.00	0.00
19,900.00	90.66	179.99	11,220.15	-9,088.38	378.57	9,088.44	0.00	0.00	0.00
20,000.00	90.66	179.99	11,219.00	-9,188.37	378.58	9,188.44	0.00	0.00	0.00
20,100.00	90.66	179.99	11,217.85	-9,288.36	378.59	9,288.43	0.00	0.00	0.00
20,200.00	90.66	179.99	11,216.69	-9,388.36	378.60	9,388.42	0.00	0.00	0.00
20,300.00	90.66	179.99	11,215.54	-9,488.35	378.61	9,488.42	0.00	0.00	0.00



Database: EDM 5000.1 Single User Db
Company: XTO Energy
Project: Eddy County, NM (NAD-27)
Site: PLU 21 Brushy Draw
Well: 128H
Wellbore: OH
Design: PERMIT Rev1

Local Co-ordinate Reference: Well 128H
TVD Reference: RKB = 27' @ 3294.00usft
MD Reference: RKB = 27' @ 3294.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,400.00	90.66	179.99	11,214.39	-9,588.34	378.62	9,588.41	0.00	0.00	0.00
20,500.00	90.66	179.99	11,213.24	-9,688.34	378.63	9,688.40	0.00	0.00	0.00
20,600.00	90.66	179.99	11,212.09	-9,788.33	378.64	9,788.40	0.00	0.00	0.00
20,700.00	90.66	179.99	11,210.93	-9,888.32	378.65	9,888.39	0.00	0.00	0.00
20,800.00	90.66	179.99	11,209.78	-9,988.32	378.66	9,988.38	0.00	0.00	0.00
20,900.00	90.66	179.99	11,208.63	-10,088.31	378.67	10,088.38	0.00	0.00	0.00
21,000.00	90.66	179.99	11,207.48	-10,188.30	378.68	10,188.37	0.00	0.00	0.00
21,100.00	90.66	179.99	11,206.32	-10,288.30	378.69	10,288.36	0.00	0.00	0.00
21,200.00	90.66	179.99	11,205.17	-10,388.29	378.70	10,388.36	0.00	0.00	0.00
21,300.00	90.66	179.99	11,204.02	-10,488.28	378.71	10,488.35	0.00	0.00	0.00
21,400.00	90.66	179.99	11,202.87	-10,588.28	378.72	10,588.34	0.00	0.00	0.00
21,500.00	90.66	179.99	11,201.71	-10,688.27	378.72	10,688.34	0.00	0.00	0.00
21,600.00	90.66	179.99	11,200.56	-10,788.26	378.73	10,788.33	0.00	0.00	0.00
21,700.00	90.66	179.99	11,199.41	-10,888.26	378.74	10,888.32	0.00	0.00	0.00
21,800.00	90.66	179.99	11,198.26	-10,988.25	378.75	10,988.32	0.00	0.00	0.00
21,900.00	90.66	179.99	11,197.10	-11,088.24	378.76	11,088.31	0.00	0.00	0.00
22,000.00	90.66	179.99	11,195.95	-11,188.24	378.77	11,188.30	0.00	0.00	0.00
22,100.00	90.66	179.99	11,194.80	-11,288.23	378.78	11,288.30	0.00	0.00	0.00
22,200.00	90.66	179.99	11,193.65	-11,388.22	378.79	11,388.29	0.00	0.00	0.00
22,300.00	90.66	179.99	11,192.50	-11,488.22	378.80	11,488.28	0.00	0.00	0.00
22,400.00	90.66	179.99	11,191.34	-11,588.21	378.81	11,588.28	0.00	0.00	0.00
22,500.00	90.66	179.99	11,190.19	-11,688.21	378.82	11,688.27	0.00	0.00	0.00
22,600.00	90.66	179.99	11,189.04	-11,788.20	378.83	11,788.26	0.00	0.00	0.00
22,700.00	90.66	179.99	11,187.89	-11,888.19	378.84	11,888.26	0.00	0.00	0.00
22,800.00	90.66	179.99	11,186.73	-11,988.19	378.85	11,988.25	0.00	0.00	0.00
22,900.00	90.66	179.99	11,185.58	-12,088.18	378.86	12,088.24	0.00	0.00	0.00
23,000.00	90.66	179.99	11,184.43	-12,188.17	378.87	12,188.24	0.00	0.00	0.00
23,100.00	90.66	179.99	11,183.28	-12,288.17	378.88	12,288.23	0.00	0.00	0.00
23,200.00	90.66	179.99	11,182.12	-12,388.16	378.88	12,388.22	0.00	0.00	0.00
23,300.00	90.66	179.99	11,180.97	-12,488.15	378.89	12,488.22	0.00	0.00	0.00
23,400.00	90.66	179.99	11,179.82	-12,588.15	378.90	12,588.21	0.00	0.00	0.00
23,500.00	90.66	179.99	11,178.67	-12,688.14	378.91	12,688.20	0.00	0.00	0.00
23,600.00	90.66	179.99	11,177.52	-12,788.13	378.92	12,788.20	0.00	0.00	0.00
23,700.00	90.66	179.99	11,176.36	-12,888.13	378.93	12,888.19	0.00	0.00	0.00
23,800.00	90.66	179.99	11,175.21	-12,988.12	378.94	12,988.18	0.00	0.00	0.00
23,900.00	90.66	179.99	11,174.06	-13,088.11	378.95	13,088.18	0.00	0.00	0.00
24,000.00	90.66	179.99	11,172.91	-13,188.11	378.96	13,188.17	0.00	0.00	0.00
24,100.00	90.66	179.99	11,171.75	-13,288.10	378.97	13,288.16	0.00	0.00	0.00
24,200.00	90.66	179.99	11,170.60	-13,388.09	378.98	13,388.16	0.00	0.00	0.00
24,295.71	90.66	179.99	11,169.50	-13,483.80	378.99	13,483.87	0.00	0.00	0.00
24,300.00	90.66	179.99	11,169.45	-13,488.09	378.99	13,488.15	0.00	0.00	0.00
24,400.00	90.66	179.99	11,168.30	-13,588.08	379.00	13,588.14	0.00	0.00	0.00
24,425.72	90.66	179.99	11,168.00	-13,613.80	379.00	13,613.87	0.00	0.00	0.00



Database: EDM 5000.1 Single User Db
Company: XTO Energy
Project: Eddy County, NM (NAD-27)
Site: PLU 21 Brushy Draw
Well: 128H
Wellbore: OH
Design: PERMIT Rev1

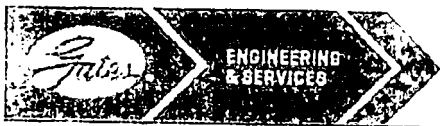
Local Co-ordinate Reference: Well 128H
TVD Reference: RKB = 27' @ 3294.00usft
MD Reference: RKB = 27' @ 3294.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
128H: SHL (530' FSL/ - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	403,941.70	640,572.10	32.109738	-103.879328
128H: PBHL (2440' FI - plan hits target center - Point	0.00	0.00	11,168.00	-13,613.80	379.00	390,327.90	640,951.10	32.072310	-103.878289
128H: LTP. - plan misses target center by 0.59usft at 24295.71usft MD (11169.50 TVD, -13483.80 N, 378.99 E) - Point	0.00	0.00	11,169.50	-13,483.80	378.40	390,457.90	640,950.50	32.072667	-103.878290
128H: FTP/ LP. - plan hits target center - Point	0.00	0.00	11,315.00	-857.90	377.80	403,083.80	640,949.90	32.107376	-103.878120

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
945.00	945.00	Rustler			
1,645.00	1,645.00	Top Salt			
3,637.00	3,637.00	Base Salt			
3,851.00	3,851.00	Delaware			
7,620.00	7,613.00	Bone Spring			
8,613.78	8,603.00	1st Bone Spring Ss			
9,426.87	9,413.00	2nd Bone Spring Ss			
9,760.13	9,745.00	3rd Bone Spring Lm			
10,556.16	10,538.00	3rd Bone Spring Ss			
10,968.88	10,945.00	Wolfcamp			
11,110.80	11,070.00	Wolfcamp A			



GATES E & S NORTH AMERICA, INC
DU-TEX
134 44TH STREET
CORPUS CHRISTI, TEXAS 78405

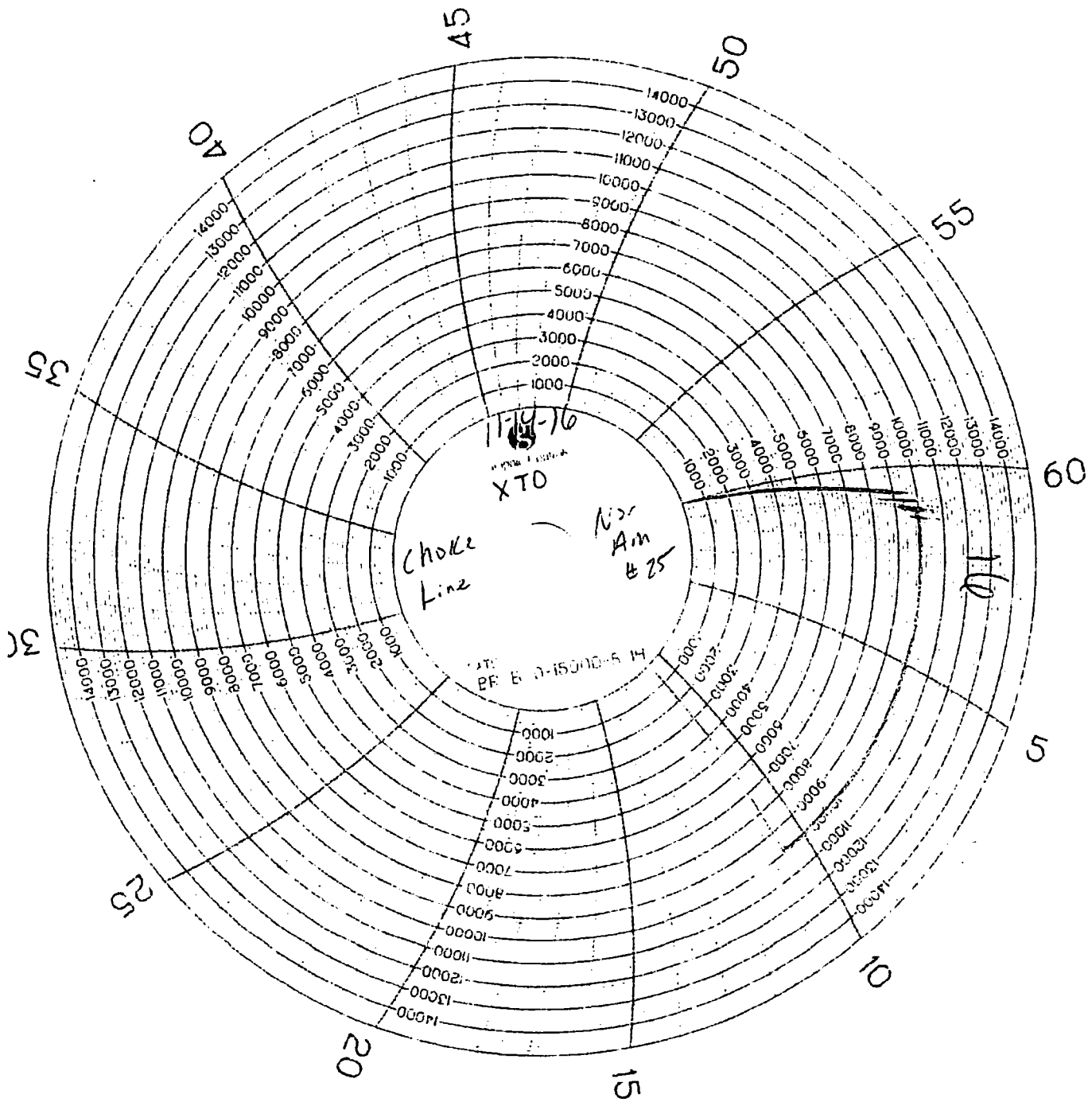
PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: crpe&s@gates.com
WEB: www.gates.com

GRADE D PRESSURE TEST CERTIFICATE

Customer :	AUSTIN DISTRIBUTING	Test Date:	6/8/2014
Customer Ref. :	PENDING	Hose Serial No.:	D-060814-1
Invoice No. :	201709	Created By:	NORMA
Product Description:	FD3.0-2.0R41/16.5KFLGE;E LE		
End Fitting 1 :	4 1/16 in.5K FLG	End Fitting 2 :	4 1/16 in.5K FLG
Gates Part No. :	4774-6001	Assembly Code :	L33090011513D-060814-1
Working Pressure :	5,000 PSI	Test Pressure :	7,500 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 7,500 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality:	QUALITY	Technical Supervisor :	PRODUCTION
Date :	6/8/2014	Date :	6/8/2014
Signature :		Signature :	



NOON

HOSE I.D. 3.00 LENGTH 42ft END 1 4 1/16 54Ft END 2 4 1/16 54Ft

GRADE D WORKING PRESSURE 5,000 P.S.I.

TEST PRESSURE 7,500 P.S.I. ASSEMBLY DATE 6-8-14

TEST DATE 6-8-14 SERIAL 6330960115130-040814-14000

NAME D-725 CR 25613

CS-215-010014



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

SUPO Data Report

11/06/2018

APD ID: 10400032709

Submission Date: 08/03/2018

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 21 BD

Well Number: 128H

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill



[Show Final Text](#)

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

PLU_21_BD_128H_Road_20180802110434.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? YES

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

PLU_21_BD_Road_20180802110456.pdf

New road type: RESOURCE

Length: 5385.46

Feet

Width (ft.): 30

Max slope (%): 2

Max grade (%): 3

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along with access road route.

New road access plan or profile prepared? NO

New road access plan attachment:

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 21 BD

Well Number: 128H

Access road engineering design? NO

Access road engineering design attachment:

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Surface material will be native caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: Approximately 6 inches of topsoil (root zone) will be stripped from the proposed access road prior to any further construction activity. The topsoil that was stripped will be spread along the edge of the road and within the ditch. The topsoil will be seeded with the proper seed mix designated by the BLM.

Access other construction information: Construction, reclamation, and/or routine maintenance will not be conducted during periods when the soil conditions for construction could lead to impacts to the surrounding environment, or when watershed damage is likely to occur as a result of these activities.

Access miscellaneous information: The Poker Lake Unit 21 Brushy Draw area is accessed by existing U.S. Hwy 128 and Longhorn Rd (paved) approximately 2.4 miles. Take slight left and continue on Longhorn Road (paved) for approximately 1.8 miles. Turn left (northeast) onto Pipeline Road #1 (gravel) for approximately 6.9 miles. Turn right (southeast) onto Rock Dove Road (gravel) for approximately 1.3 miles. Locations are to the Southwest. Transportation Plan identifying existing roads that will be used to access the project area is included from Frank's Surveying marked as, 'Vicinity Map.' There are no existing access roads to the proposed Poker Lake Unit 21 Brushy Draw well locations. All equipment and vehicles will be confined to the routes shown on the Vicinity Map as provided by Frank's Surveying. Maintenance of the access roads will continue until abandonment and reclamation of the well pads is completed. The project is located approximately 12.5 miles to the town of Malaga.

Number of access turnouts: 0

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

Road Drainage Control Structures (DCS) description: No drainage control structures were identified at onsite. Drainage control structures will be applied for as-needed and be in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 21 BD

Well Number: 128H

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

PLU_21_BD_1_Mile_20180802110522.pdf

Existing Wells description:

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Two 600' x 600' pads were staked with the BLM for construction and use as Central Tank Batteries (CTB). The Western most facility is the PLU 21 BD West CTB and the Eastern most facility is the PLU 21 BD East CTB. The pads are located in Section 21-T25S-R30E NMPM, Eddy County, New Mexico. Plats of the proposed facilities are attached. Only the area necessary to maintain facilities will be disturbed. Due to air permitting timeframes and anticipated reserves, two facilities are anticipated to be necessary for full area development. A 3160-5 sundry notification will be submitted after construction with a site-security diagram and layout of the facility with associated equipment. In the event the wells are found productive, 4" composite flexpipe or steel flowlines with a maximum safety pressure rating of 750psi (operating pressure: 125psi) will be laid on the surface within proposed lease road corridors from the proposed wells to the PLU 21 BD East CTB and the PLU 21 BD West CTB where the oil, gas, and water will be metered and appropriately separated. High pressure gas lines will be buried beneath the surface flowlines per well pad within the proposed lease road corridors for gas lift, fuel gas, and water. Oil will be hauled from the location by truck following existing and proposed lease roads. The distance of proposed flowlines per well will be approximately 4594.81' or less per well based on the location of the well pad in conjunction with the facility location. All flowlines will follow proposed lease road corridors. A plat of the proposed flowline route for the lease is attached. A gas purchaser has been identified. Two 110' corridors are requested to connect with the Poker Lake Unit Row 5 pipeline extending from the PLU 21 BD East CTB and the PLU 21 BD West CTB. BOPCO, L.P. will be installing the line with anticipated risers located on the CTB. The gas purchaser will be responsible for permitting their own gas lines and compressor station, where applicable, through private, state, and federal lands. PLU 21 BD East GSL Approx. Length: 657.98'. PLU 21 BD West GSL Approx. Length: 776.42'. Produced water will be hauled from location to a commercial disposal facility as needed. Once wells are drilled and completed, a 3160-5 sundry notification will be submitted to BLM in compliance with Onshore Order 7. There will 2 flares associated with the Poker Lake Unit 21 Brushy Draw project. The flare stacks will be 50'x50'. 1 will be located on the PLU 21 BD East Central Tank Battery. 1 will be located on the PLU 21 BD West Central Tank Battery. Both will be sized and rated based on anticipated reserves and recovery of gas throughout the development area with 150' of distance between all facility equipment, road and well pad locations for safety purposes. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as 'shale green' that reduce the visual impacts of the built environment. Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1 ½ times the capacity of the largest tank and away from cut or fill areas. All electrical poles and lines will be placed within existing and proposed lease roads corridors. All lines will be primary 12,740 volt to properly run expected production equipment. Approx. 5722.50' of electrical will be run from the anticipated tie-in point with a request for 30' ROW construction and maintenance buffer. This distance is a max. approximation and may vary based on lease road corridors, varying elevations and terrain in the area. A plat of the proposed electrical is attached.

Production Facilities map:

PLU_21_BD_Facility_E_20180802110543.pdf

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 21 BD

Well Number: 128H

PLU_21_BD_Facility_W_20180802110551.pdf

PLU_21_BD_FL_20180802110601.pdf

PLU_21_BD_GS_20180802110611.pdf

PLU_21_BD_OHE_20180802110623.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: INTERMEDIATE/PRODUCTION CASING,
STIMULATION, SURFACE CASING

Describe type: Fresh Water; in Section 6, T25S-R29E

Source latitude:

Source datum:

Water source permit type: PRIVATE CONTRACT,PRIVATE
CONTRACT,PRIVATE CONTRACT

Source land ownership: FEDERAL

Water source transport method: TRUCKING,TRUCKING,TRUCKING

Source transportation land ownership: FEDERAL

Water source volume (barrels): 335000

Source volume (gal): 14070000

Water source type: OTHER

Source longitude:

Source volume (acre-feet): 43.179188

Water source use type: INTERMEDIATE/PRODUCTION CASING,
STIMULATION, SURFACE CASING

Describe type: Fresh Water; Section 27, T25S-R30E

Source latitude:

Source datum:

Water source permit type: PRIVATE CONTRACT,PRIVATE
CONTRACT,PRIVATE CONTRACT,PRIVATE CONTRACT

Source land ownership: FEDERAL

Water source transport method:
TRUCKING,TRUCKING,TRUCKING,TRUCKING

Source transportation land ownership: FEDERAL

Water source volume (barrels): 335000

Source volume (gal): 14070000

Source longitude:

Source volume (acre-feet): 43.179188

Water source and transportation map:

PLU_21_BD_128H_Wtr_20180802110818.pdf

Water source comments: The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. The water will be obtained from a 3rd party vendor and hauled to the anticipated pit in Section 7 by transport truck using the existing and proposed roads depicted in the attached exhibits. No water well will be drilled on the location. Water for drilling, completion and dust control will be purchased from the following company: Texas Pacific Water Resources Water for drilling, completion and dust control will be supplied by Texas Pacific Water Resources for sale to BOPCO, L.P. from Section

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 21 BD

Well Number: 128H

27, T25S-R30E, Eddy County, New Mexico. In the event that Texas Pacific Water Resources does not have the appropriate water for BOPCO at time of drilling and completion, then BOPCO water will come from Intrepid Potash Company with the location of the water being in Section 6, T25S-R29E, Eddy County, New Mexico. Anticipated water usage for drilling includes an estimated 35,000 barrels of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated for ~1.5bbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation. Temporary water flowlines will be permitted via ROW approval letter and proper grants as-needed based on drilling and completion schedules as needed. Well completion is expected to require approximately 300,000 barrels of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections.

New water well? NO

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: Construction, reclamation, and/or routine maintenance will not be conducted during periods when the soil conditions for construction could lead to impacts to the surrounding environment, or when watershed damage is likely to occur as a result of these activities. Any construction material that may be required for surfacing of the drill pad and access road will be from a contractor having a permitted source of materials within the general area. No construction materials will be removed from federal lands without prior approval from the appropriate surface management agency. All roads and well pads will be constructed of 6" rolled and compacted caliche. Anticipated Caliche Locations: Pit 1: Federal Caliche Pit, Section 17-T25S-R30E Pit 2: Federal Caliche Pit, Section 34-T25S-R29E

Construction Materials source location attachment:

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 21 BD

Well Number: 128H

Section 7 - Methods for Handling Waste

Waste type: GARBAGE

Waste content description: Garbage, junk and non-flammable waste materials

Amount of waste: 250 pounds

Waste disposal frequency : Weekly

Safe containment description: All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approved sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: A licensed 3rd party vendor will be contracted to haul and safely dispose of garbage, junk and non-flammable waste materials.

Waste type: DRILLING

Waste content description: Fluid

Amount of waste: 500 barrels

Waste disposal frequency : One Time Only

Safe containment description: Steel mud pits

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240 (575) 393-1079

Waste type: DRILLING

Waste content description: Cuttings

Amount of waste: 2100 pounds

Waste disposal frequency : One Time Only

Safe containment description: The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 21 BD

Well Number: 128H

Disposal location description: R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240 (575) 393-1079

Waste type: SEWAGE

Waste content description: Human Waste

Amount of waste: 250 gallons

Waste disposal frequency : Weekly

Safe containment description: Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: A licensed 3rd party contractor will be used to haul and dispose of human waste.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.) **Reserve pit width (ft.)**

Reserve pit depth (ft.) **Reserve pit volume (cu. yd.)**

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? YES

Description of cuttings location Cuttings. The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site. Drilling Fluids. These will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility. Produced Fluids. Water produced from the well during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold.

Cuttings area length (ft.) **Cuttings area width (ft.)**

Cuttings area depth (ft.) **Cuttings area volume (cu. yd.)**

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 21 BD

Well Number: 128H

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

PLU_21_BD_128H_Layout_20180802110913.pdf

Comments: This is a multi-well pad.

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: POKER LAKE UNIT 21 BD

Multiple Well Pad Number: 4

Recontouring attachment:

PLU_21_BD_Int_Rec_Pad_1_20180927073006.pdf

PLU_21_BD_Int_Rec_Pad_2_20180927073016.pdf

PLU_21_BD_Int_Rec_Pad_3_20180927073025.pdf

PLU_21_BD_Int_Rec_Pad_4_20180927073034.pdf

Drainage/Erosion control construction: All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches.

Drainage/Erosion control reclamation: Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gulying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 21 BD

Well Number: 128H

Well pad proposed disturbance (acres): 18.07	Well pad interim reclamation (acres): 6.37	Well pad long term disturbance (acres): 11.7
Road proposed disturbance (acres): 3.71	Road interim reclamation (acres): 0	Road long term disturbance (acres): 3.71
Powerline proposed disturbance (acres): 0	Powerline interim reclamation (acres): 0	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres): 3.62	Pipeline interim reclamation (acres): 3.16	Pipeline long term disturbance (acres): 0
Other proposed disturbance (acres): 20.16	Other interim reclamation (acres): 3.62	Other long term disturbance (acres): 16.54
Total proposed disturbance: 45.56	Total interim reclamation: 13.15	Total long term disturbance: 31.95

Disturbance Comments:

Reconstruction method: The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded.

Topsoil redistribution: The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded.

Soil treatment: A self-sustaining, vigorous, diverse, native (or otherwise approved) plant community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.

Existing Vegetation at the well pad: Environmental Setting. Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona-Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility. Traffic. No truck traffic will be operated during periods or in areas of saturated ground when surface rutting could occur. The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along the access road route. Water. There is no permanent or live water in the immediate or within the project area.

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Environmental Setting. Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona-Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility. Traffic. No truck traffic will be operated during periods or in areas of saturated ground when surface rutting could occur. The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along the access road route. Water. There is no permanent or live water in the immediate or within the project area.

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: Environmental Setting. Soils are classified as Simona Gravelly Fine

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 21 BD

Well Number: 128H

Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona-Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility. Traffic. No truck traffic will be operated during periods or in areas of saturated ground when surface rutting could occur. The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along the access road route. Water. There is no permanent or live water in the immediate or within the project area.

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: Environmental Setting. Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona-Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility. Traffic. No truck traffic will be operated during periods or in areas of saturated ground when surface rutting could occur. The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along the access road route. Water. There is no permanent or live water in the immediate or within the project area.

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed type:

Seed source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 21 BD

Well Number: 128H

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary	
Seed Type	Pounds/Acre

Total pounds/Acre:

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Jeff

Last Name: Raines

Phone: (432)620-4349

Email: jeffrey_raines@xtoenergy.com

Seedbed prep: Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches. If the site is to be broadcast seeded, the surface will be left rough enough to trap seed and snow, control erosion, and increase water infiltration.

Seed BMP: If broadcast seeding is to be used and is delayed, final seedbed preparation will consist of contour cultivating to a depth of 4-6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

Seed method: Seeding will be conducted no more than two weeks following completion of final seedbed preparation. A certified weed-free seed mix designed by the BLM to meet reclamation standards will be used. If the site is harrowed or dragged, seed will be covered by no more than 0.25 inch of soil.

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: Weed control for all phases will be through the use of approved pesticides and herbicides according to applicable State, Federal and local laws.

Weed treatment plan attachment:

Monitoring plan description: Monitoring of invasive and noxious weeds will be visual and as-needed. If it is determined additional methods are required to monitor invasive and noxious weeds, appropriate BLM authorities will be contacted with a plan of action for approval prior to implementation.

Monitoring plan attachment:

Success standards: 100% compliance with applicable regulations.

Pit closure description: There will be no reserve pit as each well will be drilled utilizing a closed loop mud system. The closed loop system will meet the NMOC requirements 19.15.17.

Pit closure attachment:

Section 11 - Surface Ownership

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 21 BD

Well Number: 128H

Disturbance type: OTHER

Describe: Flowline

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 21 BD

Well Number: 128H

Disturbance type: PIPELINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: OTHER

Describe: Electric

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 21 BD

Well Number: 128H

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other Information

Right of Way needed? YES

Use APD as ROW? YES

ROW Type(s): 281001 ROW - ROADS, 288100 ROW – O&G Pipeline, 288101 ROW – O&G Facility Sites, 288103 ROW – Salt Water Disposal Pipeline/Facility, 288104 ROW – Salt Water Disposal ApIn/Fac-FLPMA, 289001 ROW- O&G Well Pad, FLPMA (Powerline)

ROW Applications

SUPO Additional Information: BOPCO, L.P. requests a variance from interim reclamation until all drilling and completion activities have been finished on the pads as these are multi-well pads where drilling and completion will be consecutive with the other wells on the pad. Once activities are completed, BOPCO, L.P. will coordinate interim reclamation with the appropriate BLM personnel. Updated POD with revised well list mailed to Carlsbad BLM via fedex on 10/23/18.

Use a previously conducted onsite? YES

Previous Onsite information: Pads 2 & 4 were restaked with Colleen Cepero-Rios after APD submittal and moved.

Other SUPO Attachment

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 21 BD

Well Number: 128H

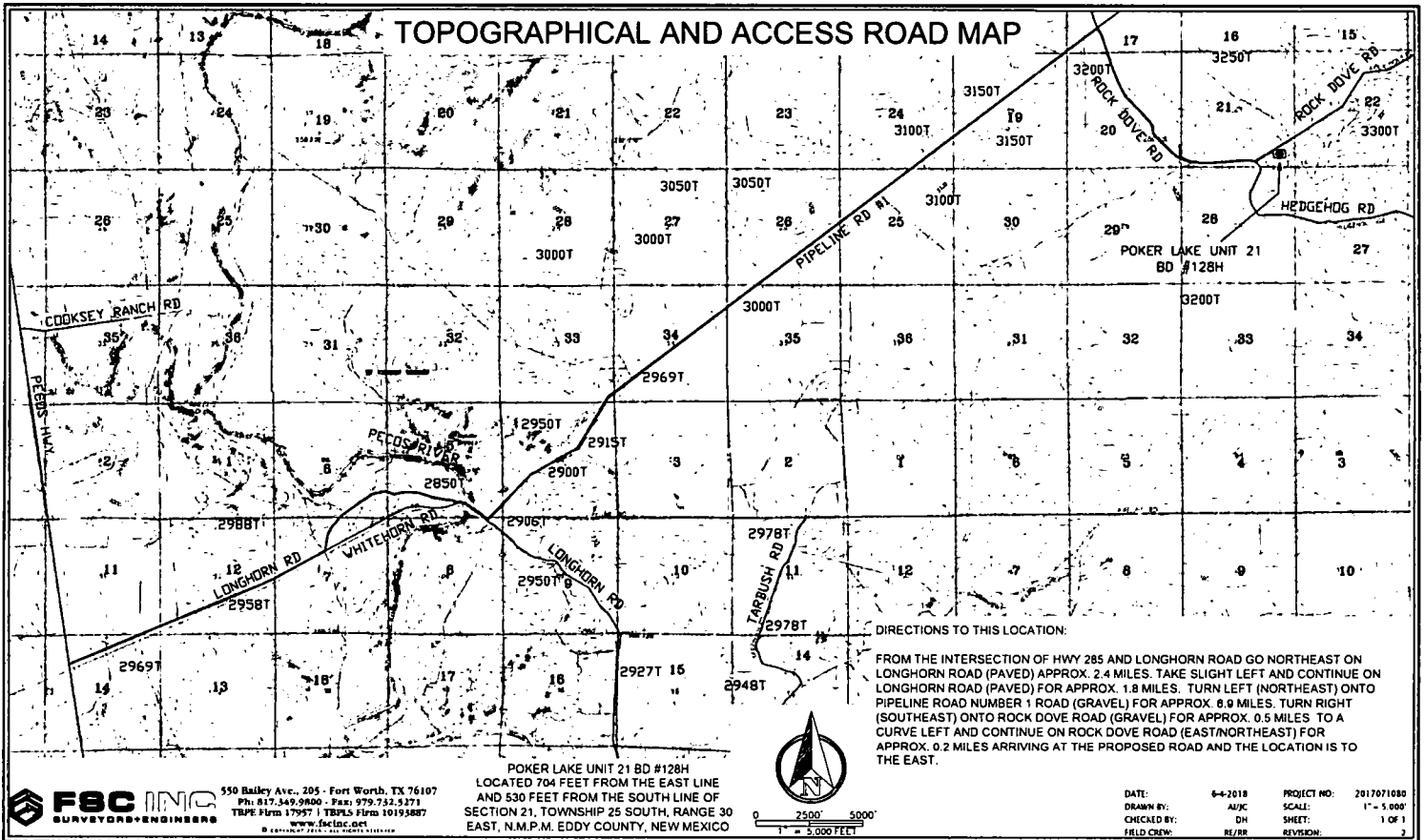
PLU_21_BD_Fed_SUPO_20180802111057.pdf

PLU_21_BD_All_Pads_20180802111109.pdf

PLU_21_BD_LF_20180802111118.pdf

PLU_21_BD_Arch_Mitigation_PA_20180802111132.pdf

TOPOGRAPHICAL AND ACCESS ROAD MAP



SECTION 21

TOWNSHIP 25 SOUTH, RANGE 30 EAST
NEW MEXICO PRIME MERIDIAN



SECTION 20
TOWNSHIP 25 SOUTH, RANGE 30 EAST
NEW MEXICO PRIME MERIDIAN



P.O.B. "A"
NAD 83 (NME)
Y = 404,231.92
X = 677,066.79

P.O.B. "B"
NAD 83 (NME)
Y = 404,239.10
X = 677,783.75

P.O.T. "C"
NAD 83 (NME)
Y = 404,302.20
X = 678,774.12

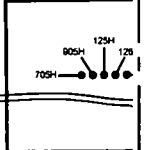
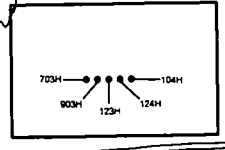
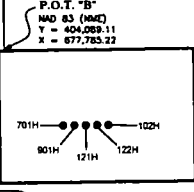
P.O.B. "C"
NAD 83 (NME)
Y = 404,182.15
X = 678,775.56

P.O.B. "E"
NAD 83 (NME)
Y = 404,189.92
X = 680,234.56

P.O.T. "E"
NAD 83 (NME)
Y = 403,990.01
X = 680,236.32

P.O.B. "D"
NAD 83 (NME)
Y = 404,194.22
X = 678,585.18

P.O.T. "D"
NAD 83 (NME)
Y = 404,040.34
X = 678,586.68



GENERAL NOTES

- BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
- LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).

PLAT OF:
PROPOSED CENTERLINE OF
ACCESS ROADS FOR:
BOPCO, L.P.
POKER LAKE UNIT 21 BD
SITUATED IN SECTIONS 20 AND 21,
TOWNSHIP 25 SOUTH, RANGE 30 EAST,
NEW MEXICO PRIME MERIDIAN,
EDDY COUNTY, NEW MEXICO

LEGEND

- SECTION LINE
- EXISTING PIPELINE
- EXISTING ROAD
- EXISTING FENCE
- EXISTING OVERHEAD ELECTRIC
- PROPOSED PAD
- PROPOSED ROAD
- POINT OF BEGINNING
- POINT OF TERMINUS
- FOUND MONUMENT AS NOTED

I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MARK DILLON HARP
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 23786



DATE: 06-20-2018
DRAWN BY: AW
CHECKED BY: DH
FIELD CREW: RE/AD
PROJECT NO: 2017040548
SCALE: 1" = 300'
SHEET: 1 OF 2
REVISION: 1

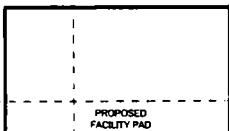
FSC INC.
SURVEYORS & ENGINEERS
550 Bailey Ave., 205 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.9271
TSPCE Firm 17957 | TSPLE Firm 10193887
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SECTION 21

TOWNSHIP 25 SOUTH, RANGE 30 EAST
NEW MEXICO, PRIME MERIDIAN



0 150 300
1" = 300 FEET



P.O.T. "F"
NAD 83 (NAD83)
Y = 404,444.92
X = 680,982.92

P.O.B. "F"
NAD 83 (NAD83)
Y = 404,211.02
X = 680,984.35

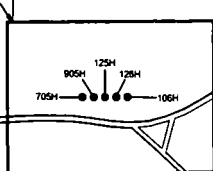
P.O.T. "A"
NAD 83 (NAD83)
Y = 404,198.03
X = 681,481.22

P.O.B. "E"
NAD 83 (NAD83)
Y = 404,188.82
X = 680,238.58

P.O.T. "E"
NAD 83 (NAD83)
Y = 403,990.01
X = 680,238.32

30/4 SE/4

SE/4 SE/4



N 89°38'40" E 2,874.18'

1 1/2" IRON PIPE
W/BRASS CAP

GENERAL NOTES

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM NEW MEXICO EAST ZONE, NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).



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DATE: 06-28-2018
DRAWN BY: AW
CHECKED BY: DH
FIELD CADD: RLAD
PROJECT NO: 2017040148
SCALE: 1" = 100'
SHEET: 2 OF 2
REVISIONS: 1

PLAT OF:
PROPOSED CENTERLINE OF
ACCESS ROADS FOR:
BOPCO, L.P.
POKER LAKE UNIT 21 BD
SITUATED IN SECTIONS 20 AND 21,
TOWNSHIP 25 SOUTH, RANGE 30 EAST,
NEW MEXICO PRIME MERIDIAN,
EDDY COUNTY, NEW MEXICO

LEGEND

- EXISTING ROAD
- PROPOSED ROAD
- P.O.B.
- P.O.T.
- FOUND MONUMENT AS NOTED

POKER LAKE UNIT 21 BD PROPOSED ACCESS ROADS DESCRIPTION:

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 5,385.46 FEET, 326.39 RODS, OR 1.02 MILES IN LENGTH CROSSING SECTIONS 20 AND 21, TOWNSHIP 25 SOUTH, RANGE 30 EAST N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE OF ROAD SURVEY, COMPRISING OF 3.85 ACRES AND DIVIDED IN EACH QUARTER QUARTER SECTION AS FOLLOWS:

SE/4 SE/4 SECTION 20 = 44.59 FEET = 2.70 RODS = 0.03 OF AN ACRE
SW/4 SW/4 SECTION 21 = 1,489.19 FEET = 90.25 RODS = 1.01 ACRES
SE/4 SW/4 SECTION 21 = 1,638.49 FEET = 99.18 RODS = 1.11 ACRES
SW/4 SE/4 SECTION 21 = 1,752.45 FEET = 106.21 RODS = 1.18 ACRES
SE/4 SE/4 SECTION 21 = 462.74 FEET = 28.05 RODS = 0.32 OF AN ACRE

LINE TABLE "A"

LINE	BEARING	DISTANCE
L1	N 89°25'31" E	1220.03'
L2	S 80°28'13" E	549.48'
L3	N 89°25'31" E	1939.02'
L4	N 79°48'28" E	707.28'
L5	N 89°48'03" E	15.03'
L6	S 00°21'11" E	99.88'

LINE TABLE "B"

L7	S 00°33'38" E	150.00'
----	---------------	---------

LINE TABLE "C"

L8	N 00°35'47" W	140.00'
----	---------------	---------

LINE TABLE "D"

L9	S 00°33'12" E	153.89'
----	---------------	---------

LINE TABLE "E"

L10	S 00°33'48" E	178.92'
-----	---------------	---------

LINE TABLE "F"

L11	N 00°21'03" W	233.90'
-----	---------------	---------

TOTAL LENGTH = 5,385.46 FEET
OR 326.39 RODS

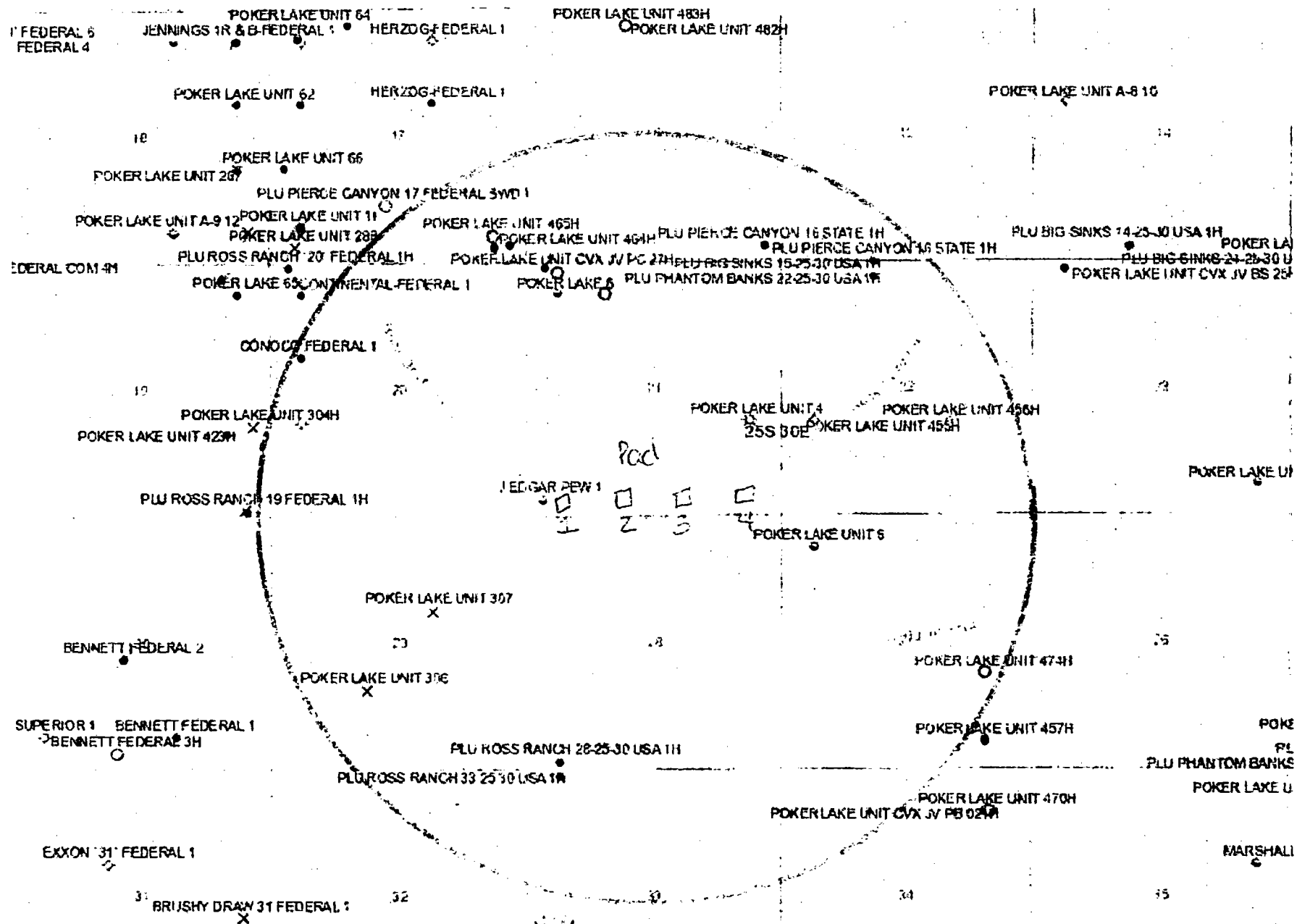


I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

[Signature]

MARK DILLON HARP
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 23786

1-Mile Radius Map



POKER LAKE UNIT 21 BRUSHY DRAW PROPOSED FACILITY PAD DESCRIPTION:

Description of a proposed facility pad totaling 8.27 acres and being situated in Section 21, Township 25 South, Range 30 East, New Mexico Prime Meridian, Eddy County, New Mexico and being more particularly described as follows:

BEGINNING at the southeast corner of the proposed facility pad which lies S 43°32'41" E 1,344.51 feet, from a found 1 1/2" iron pipe w/ brass cap being the southeast corner of said Section 21;

THENCE over and across said Section 21, the following courses and distances:

S 89°38'41" W, a distance of 601.00 feet to a point;

N 00°15'53" W, a distance of 599.92 feet to a point;

N 89°38'36" E, a distance of 600.02 feet to a point;

S 00°21'31" E, a distance of 599.93 feet to the POINT OF BEGINNING containing a total of **8.27 acres**, more or less.

Said pad is divided in each quarter-quarter section as follows

NW/4 SE/4 Section 21 = 1.05 ACRES

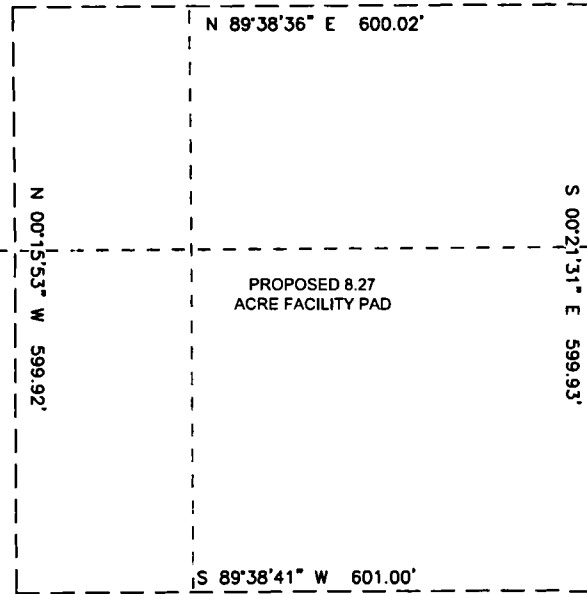
NE/4 SE/4 Section 21 = 2.37 ACRES

SE/4 SE/4 Section 21 = 3.37 ACRES

SW/4 SE/4 Section 21 = 1.48 ACRES

NW/4 SE/4

NE/4 SE/4



PROPOSED 8.27
ACRE FACILITY PAD

P.O.B.

NAD 83 (NME)

Y = 404,448.4

X = 681,538.9

SW/4 SE/4

SE/4 SE/4

SECTION 21
TOWNSHIP 25 SOUTH,
RANGE 30 EAST
NEW MEXICO PRIME
MERIDIAN



0 100' 200'
1" = 200 FEET

GENERAL NOTES

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).

I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MARK DILLON HARP
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 23786



LEGEND

- SECTION LINE
- - - PROPOSED FACILITY PAD
- P.O.B. POINT OF BEGINNING
- FOUND BRASS CAP MONUMENT

BOPCO, L.P.

**PROPOSED FACILITY PAD
POKER LAKE UNIT 21**

SURVEY FOR A PROPOSED FACILITY PAD
SITUATED IN THE SE/4 OF SECTION 21,
TOWNSHIP 25 SOUTH, RANGE 30 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO

DATE:	10-09-2017	PROJECT NO:	2017040548
DRAWN BY:	AW	SCALE:	1" = 200'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	NO



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TBPE Firm 17957 | TBPLS Firm 10193887
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POKER LAKE UNIT 21 BRUSHY DRAW PROPOSED FACILITY PAD DESCRIPTION:

Description of a proposed facility pad totaling 8.27 acres and being situated in Section 21, Township 25 South, Range 30 East, New Mexico Prime Meridian, Eddy County, New Mexico and being more particularly described as follows:

BEGINNING at the southeast corner of the proposed facility pad which lies S 28°29'50" E 967.93 feet, from a found 3/4" iron pipe w/ brass cap being the south quarter corner of said Section 21;

THENCE over and across said Section 21, the following courses and distances:

S 89°24'52" W, a distance of 600.10 feet to a point;

N 00°34'32" W, a distance of 600.53 feet to a point;

N 89°28'12" E, a distance of 600.05 feet to a point;

S 00°34'50" E, a distance of 599.95 feet to the POINT OF BEGINNING containing a total of **8.27 acres**, more or less.

Said pad is divided in each quarter-quarter section as follows

NE/4 SW/4 Section 21 = 1.73 ACRES

SE/4 SW/4 Section 21 = 6.54 ACRES

P.O.B.

NAD 83 (NME)

Y = 404,307.9

X = 679,329.2

NE/4 SW/4

N 89°28'12" E 600.05'

PROPOSED 8.27
ACRE FACILITY PAD

N 00°34'32" W 600.53'

S 00°34'50" E 599.95'

S 89°24'52" W 600.10'

SE/4 SW/4

SW/4 SE/4

SECTION 21
TOWNSHIP 25 SOUTH,
RANGE 30 EAST
NEW MEXICO PRIME
MERIDIAN



0 100' 200'
1" = 200 FEET

S 28°29'50" E 967.93' (TIC)

3/4" FOUND IRON
PIPE W/BRASS CAP

SECTION 28

TOWNSHIP 25 SOUTH, RANGE 30 EAST

GENERAL NOTES

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).

I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MARK DILLON HARP
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 23786



LEGEND

- SECTION LINE
- PROPOSED FACILITY PAD
- P.O.B. POINT OF BEGINNING
- FOUND BRASS CAP MONUMENT

BOPCO, L.P.

**PROPOSED FACILITY PAD
POKER LAKE UNIT 21**

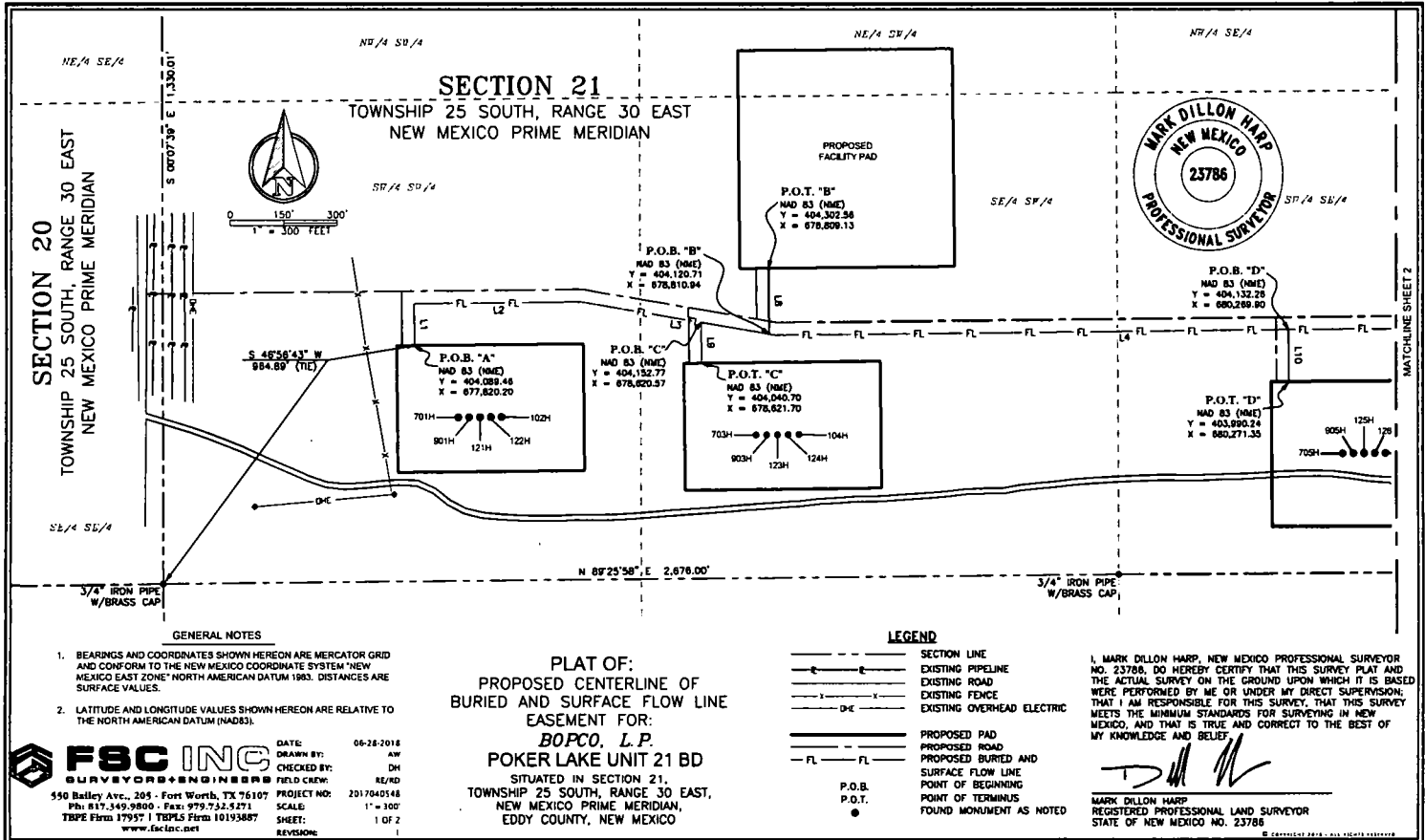
SURVEY FOR A PROPOSED FACILITY PAD
SITUATED IN THE SW/4 OF SECTION 21,
TOWNSHIP 25 SOUTH, RANGE 30 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO



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Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10193887
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DATE:	10-09-2017	PROJECT NO:	2017040548
DRAWN BY:	AW	SCALE:	1" = 200'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	NO



SECTION 20
TOWNSHIP 25 SOUTH, RANGE 30 EAST
NEW MEXICO PRIME MERIDIAN

SECTION 21

TOWNSHIP 25 SOUTH, RANGE 30 EAST
NEW MEXICO PRIME MERIDIAN



0 150' 300'
1" = 300 FEET

P.O.I. "A"
NAD 83 (NME)
Y = 404,085.46
X = 677,820.20

P.O.I. "B"
NAD 83 (NME)
Y = 404,120.71
X = 678,810.94

P.O.I. "C"
NAD 83 (NME)
Y = 404,040.70
X = 678,621.70

P.O.I. "D"
NAD 83 (NME)
Y = 404,132.28
X = 680,269.90

GENERAL NOTES

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).

PLAT OF:
PROPOSED CENTERLINE OF
BURIED AND SURFACE FLOW LINE
EASEMENT FOR:
BOPCO, L.P.
POKER LAKE UNIT 21 BD
SITUATED IN SECTION 21,
TOWNSHIP 25 SOUTH, RANGE 30 EAST,
NEW MEXICO PRIME MERIDIAN,
EDDY COUNTY, NEW MEXICO

LEGEND

- SECTION LINE
- EXISTING PIPELINE
- EXISTING ROAD
- EXISTING FENCE
- EXISTING OVERHEAD ELECTRIC
- PROPOSED PAD
- PROPOSED BURIED AND SURFACE FLOW LINE
- POINT OF BEGINNING
- POINT OF TERMINUS
- FOUND MONUMENT AS NOTED

I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MARK DILLON HARP
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 23786

FSC INC
SURVEYING ENGINEERS
550 Bailey Ave., 205 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 817.349.9271
TBP# Firm 17957 | TBP# Firm 10193887
www.fscinc.net

DATE: 06-28-2018
DRAWN BY: AW
CHECKED BY: RH/AD
FIELD CREW: 2017040518
PROJECT NO: 10193887
SCALE: 1" = 300'
SHEET: 1 OF 2
REVISION: 1

NE 1/4 SE 1/4

SECTION - 21

TOWNSHIP 25 SOUTH, RANGE 30 EAST
NEW MEXICO PRIME MERIDIAN

SW 1/4 SE 1/4

NE 1/4 SE 1/4



0 150 300
1" = 300 FEET

PROPOSED
FACILITY PAD

P.O.T. "E"
NAD 83 (NME)
Y = 404,443.13
X = 681,017.93

P.O.B. "E"
NAD 83 (NME)
Y = 404,181.78
X = 681,018.55

P.O.T. "A"
NAD 83 (NME)
Y = 404,188.24
X = 681,518.18

P.O.B. "D"
NAD 83 (NME)
Y = 404,132.28
X = 680,268.80

P.O.T. "D"
NAD 83 (NME)
Y = 403,990.24
X = 680,271.35

705H 125H 126H 106H

707H 108H 907H 127H 128H

S 52°38'34" E
1,193.89 (TIE)

N 69°38'40" E 2,674.18'

POKER LAKE UNIT 21 BD PROPOSED BURIED AND SURFACE FLOW LINE DESCRIPTION:
SURVEY OF A STRIP OF LAND 4,594.81 FEET, 278.47 RODS, OR 0.87 MILES IN LENGTH
CROSSING SECTION 21, TOWNSHIP 25 SOUTH, RANGE 30 EAST N.M.P.M. EDDY COUNTY,
NEW MEXICO AND THE ABOVE PLATTED CENTERLINE OF FLOW LINE SURVEY DIVIDED IN
EACH QUARTER SECTION AS FOLLOWS:

SW 1/4 SECTION 21 = 78.57 FEET = 45.37 RODS
SE 1/4 SECTION 21 = 1,638.47 FEET = 99.18 RODS
SW 1/4 SE 1/4 SECTION 21 = 1,747.01 FEET = 105.88 RODS
SE 1/4 SE 1/4 SECTION 21 = 462.78 FEET = 28.04 RODS

LINE TABLE "A"

LINE	BEARING	DISTANCE
L1	N 00°32'55" W	114.57'
L2	N 69°25'28" E	488.69'
L3	S 60°26'32" E	549.57'
L4	N 69°25'39" E	1845.08'
L5	N 79°45'34" E	707.18'
L6	N 69°34'54" E	46.82'
L7	S 00°22'52" E	64.91'

LINE TABLE "B"

L8	N 00°34'18" W	181.85'
----	---------------	---------

LINE TABLE "C"

L9	S 00°34'43" E	112.07'
----	---------------	---------

LINE TABLE "D"

L10	S 00°35'14" E	142.03'
-----	---------------	---------

LINE TABLE "E"

L11	N 00°21'07" W	263.36'
-----	---------------	---------

TOTAL LENGTH = 4,594.81 FEET
OR 278.47 RODS



GENERAL NOTES

- BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
- LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).

PLAT OF:
PROPOSED CENTERLINE OF
BURIED AND SURFACE FLOW LINE
EASEMENT FOR:
BOPCO, L.P.
POKER LAKE UNIT 21 BD
SITUATED IN SECTION 21,
TOWNSHIP 25 SOUTH, RANGE 30 EAST,
NEW MEXICO PRIME MERIDIAN,
EDDY COUNTY, NEW MEXICO

LEGEND

- SECTION LINE
- EXISTING PIPELINE
- EXISTING ROAD
- EXISTING FENCE
- EXISTING OVERHEAD ELECTRIC
- PROPOSED PAD
- PROPOSED BURIED AND SURFACE FLOW LINE
- POINT OF BEGINNING
- POINT OF TERMINUS
- FOUND MONUMENT AS NOTED

I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23788, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

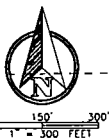
MARK DILLON HARP
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 23788

FSC INC
SURVEYORS + ENGINEERS
550 Bailey Ave., 305 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.9271
TBP# Firm 17957 | TBP#S Firm 10193887
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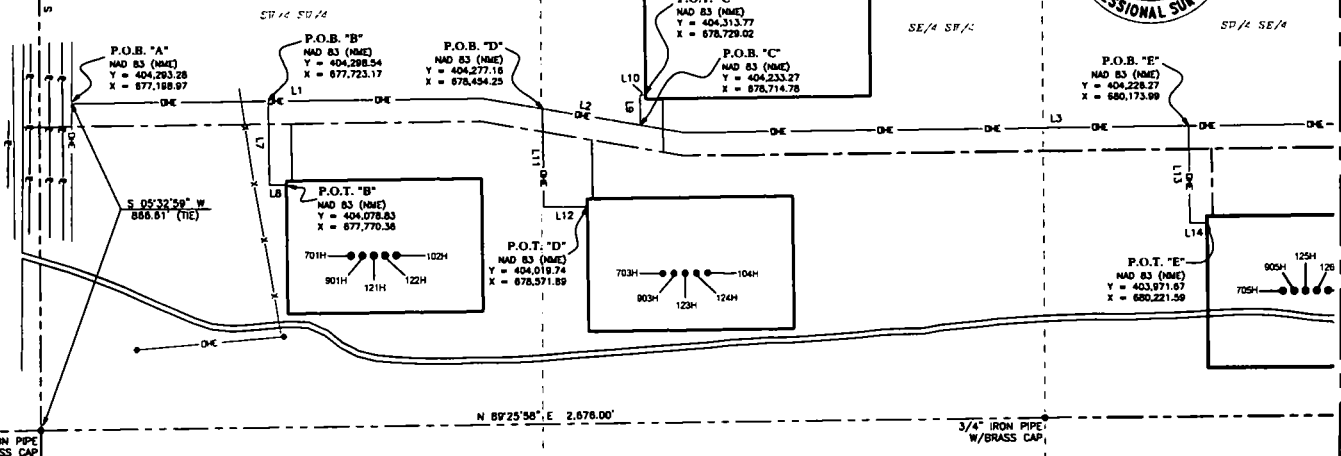
DATE: 06-28-2018
DRAWN BY: AW
CHECKED BY: DH
FIELD CREW: KJ/AD
PROJECT NO: 2017040548
SCALE: 1" = 300'
SHEET: 2 OF 2
REVISION: 1



SECTION 20
TOWNSHIP 25 SOUTH, RANGE 30 EAST
NEW MEXICO PRIME MERIDIAN



SECTION 21
TOWNSHIP 25 SOUTH, RANGE 30 EAST
NEW MEXICO PRIME MERIDIAN



GENERAL NOTES

- BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
- LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).



550 Bailey Ave., 305 - Fort Worth, TX 76107
Ph: 817-349-9800 - Fax: 979-732-5271
TBP# Firm 17957 | TBP# Firm 10193887
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DATE: 06-28-2018
DRAWN BY: AW
CHECKED BY: DH
FIELD CREW: RZ/ND
PROJECT NO: 2017040548
SCALE: 1" = 300'
SHEET: 1 OF 2
REVISION: 1

PLAT OF:
PROPOSED CENTERLINE OF
ELECTRIC LINE EASEMENT FOR:
BOPCO, L.P.
POKER LAKE UNIT 21 BD
SITUATED IN SECTION 21,
TOWNSHIP 25 SOUTH, RANGE 30 EAST,
NEW MEXICO PRIME MERIDIAN,
EDDY COUNTY, NEW MEXICO

LEGEND

- SECTION LINE
- EXISTING PIPELINE
- EXISTING ROAD
- EXISTING FENCE
- EXISTING OVERHEAD ELECTRIC
- PROPOSED ROAD
- PROPOSED PAD
- PROPOSED OVERHEAD ELECTRIC
- P.O.B.
- P.O.T.
- FOUND MONUMENT AS NOTED

I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

[Signature]

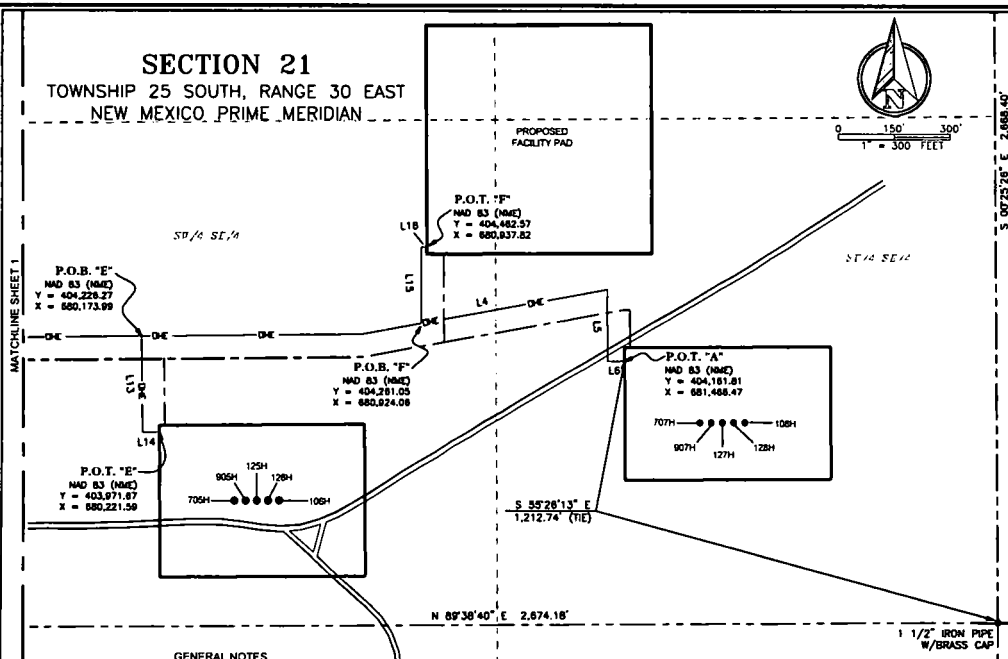
MARK DILLON HARP
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 23786

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MATCHLINE SHEET 2

SECTION 21

TOWNSHIP 25 SOUTH, RANGE 30 EAST
NEW MEXICO PRIME MERIDIAN



POKER LAKE UNIT 21 BD PROPOSED ELECTRIC LINES DESCRIPTION:

SURVEY OF A STRIP OF LAND 5,722.50 FEET, 348.82 RODS, OR 1.08 MILES IN LENGTH CROSSING SECTION 21, TOWNSHIP 25 SOUTH, RANGE 30 EAST N.M.P.M. EDDY COUNTY, NEW MEXICO AND THE ABOVE PLATTED CENTERLINE OF ELECTRIC LINE SURVEY DIVIDED IN EACH QUARTER QUARTER SECTION AS FOLLOWS:

SW 1/4 SECTION 21 = 1,518.41 FEET = 82.67 RODS
SE 1/4 SECTION 21 = 1,810.12 FEET = 100.71 RODS
SW 1/4 SECTION 21 = 1,857.78 FEET = 112.59 RODS
SE 1/4 SECTION 21 = 536.19 FEET = 35.50 RODS

LINE TABLE "A"

LINE	BEARING	DISTANCE
L1	N 89°23'33" E	1094.50'
L2	S 80°28'17" E	549.63'
L3	N 89°23'40" E	1928.61'
L4	N 79°48'05" E	866.91'
L5	S 00°21'38" E	188.89'
L6	N 89°48'05" E	45.05'

LINE TABLE "B"

L7	S 00°33'17" E	220.05'
L8	N 89°34'59" E	45.06'

LINE TABLE "C"

L9	N 00°34'26" W	79.01'
L10	N 84°19'23" E	15.10'

LINE TABLE "D"

L11	S 00°35'45" E	258.51'
L12	N 89°28'01" E	114.98'

LINE TABLE "E"

L13	S 00°34'13" E	255.00'
L14	N 89°30'19" E	45.07'

LINE TABLE "F"

L15	N 00°21'09" W	201.07'
L16	N 88°15'14" E	15.01'

TOTAL LENGTH = 5,722.50 FEET
OR 348.82 RODS



GENERAL NOTES

- BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM NEW MEXICO EAST ZONE, NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
- LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).



550 Bailey Ave., 205 - Fort Worth, TX 76107
PH: 817.349.9800 - FAX: 979.732.3271
TBPE Firm 17957 | TBPLS Firm 10193887
www.fscloc.net

DATE: 06-28-2018
DRAWN BY: AW
CHECKED BY: DH
FIELD CREW: RL/D
PROJECT NO: 2017040548
SCALE: 1" = 300'
SHEET: 2 OF 2
REVISION: 1

PLAT OF:
PROPOSED CENTERLINE OF
ELECTRIC LINE EASEMENT FOR:
BOPCO, L.P.
POKER LAKE UNIT 21 BD
SITUATED IN SECTION 21,
TOWNSHIP 25 SOUTH, RANGE 30 EAST,
NEW MEXICO PRIME MERIDIAN,
EDDY COUNTY, NEW MEXICO

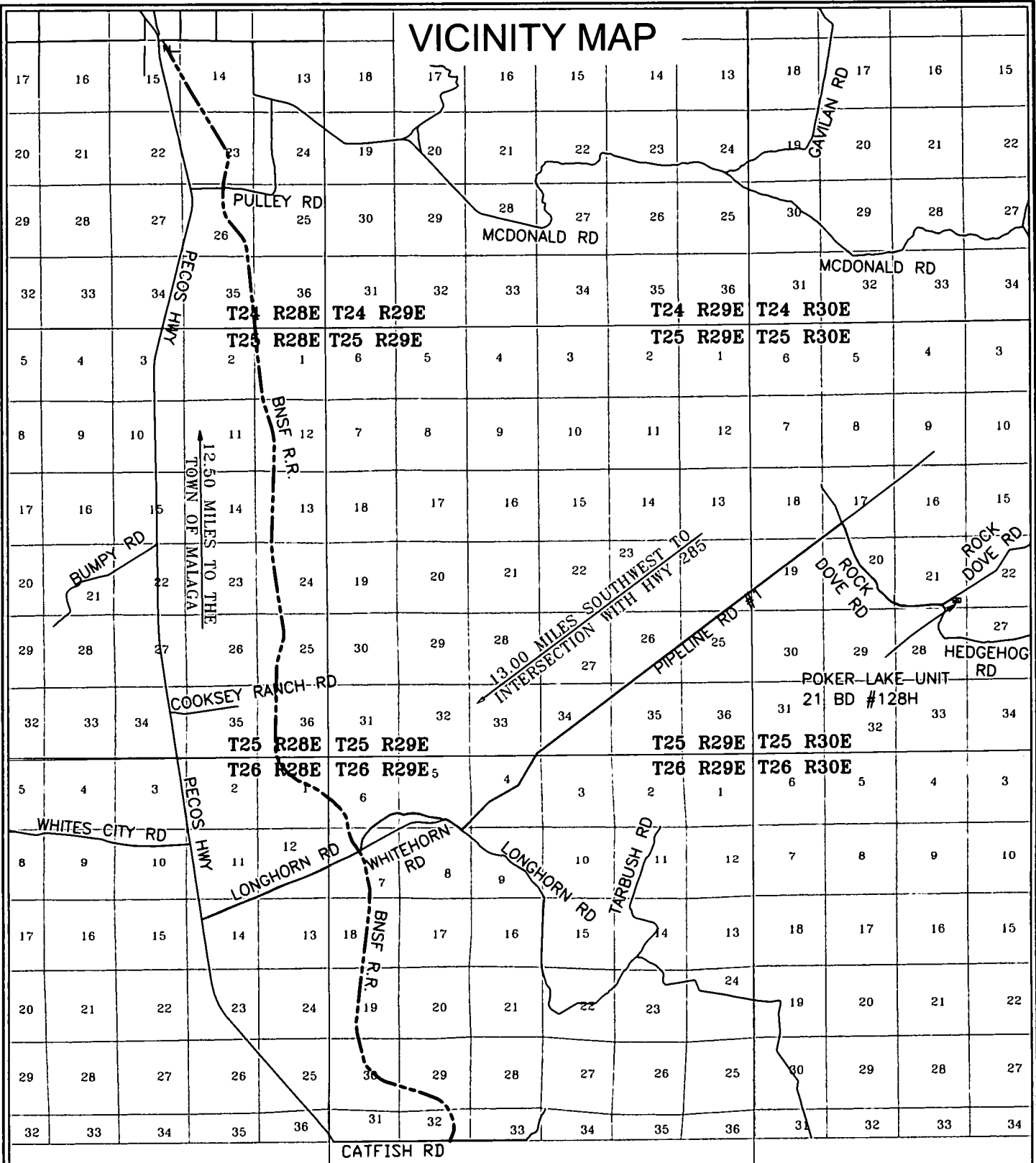
LEGEND

- SECTION LINE
- EXISTING PIPELINE
- EXISTING ROAD
- EXISTING FENCE
- EXISTING OVERHEAD ELECTRIC
- PROPOSED ROAD
- PROPOSED PAD
- PROPOSED OVERHEAD ELECTRIC
- P.O.B.
- P.O.T.
- POINT OF BEGINNING
- POINT OF TERMINUS
- FOUND MONUMENT AS NOTED

I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MARK DILLON HARP
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 23786

VICINITY MAP



POKER LAKE UNIT 21 BD #128H
LOCATED 704 FEET FROM THE EAST LINE
AND 530 FEET FROM THE SOUTH LINE OF
SECTION 21, TOWNSHIP 25 SOUTH, RANGE 30
EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO



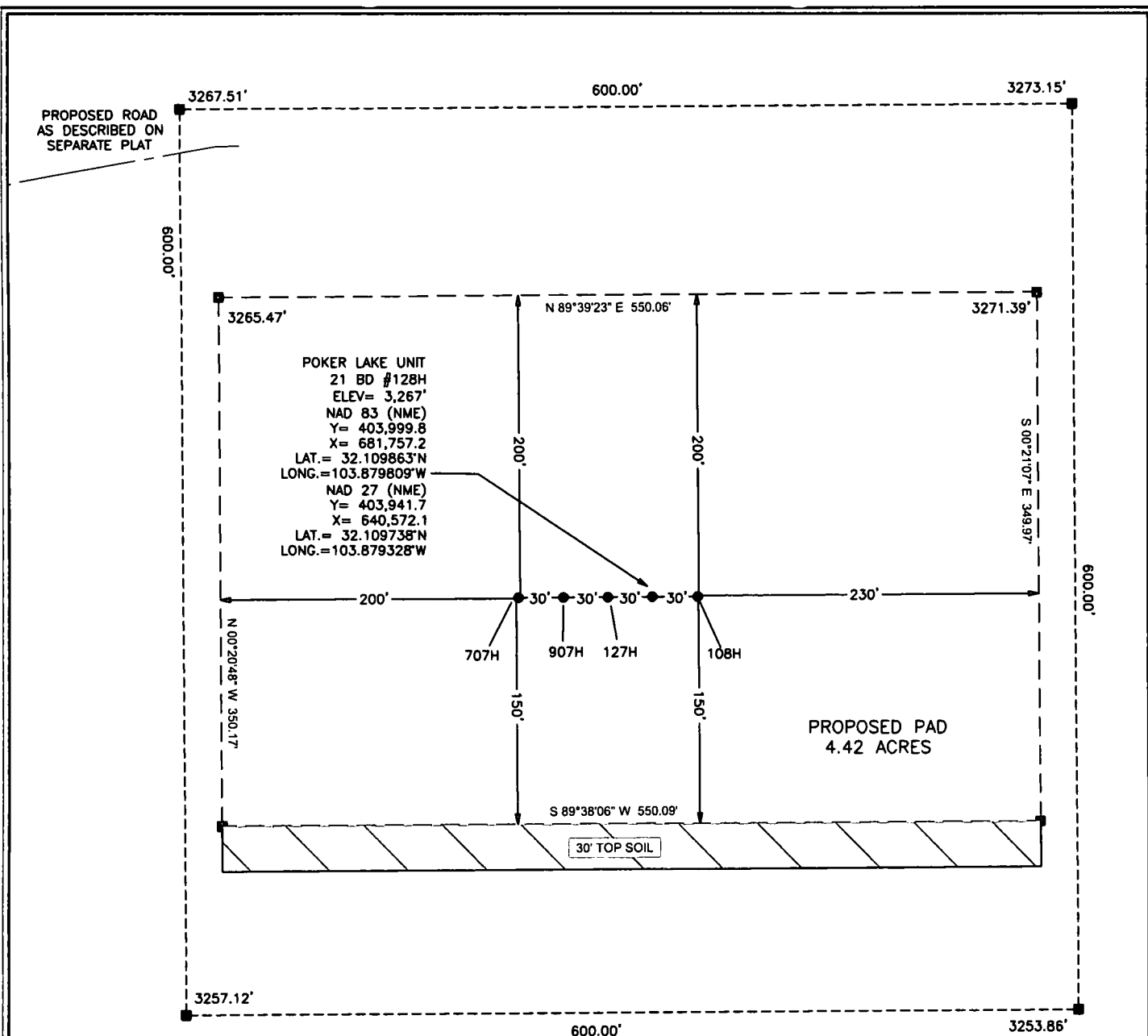
0 5,000' 10,000'
1" = 10,000 FEET



FSC INC
SURVEYORS + ENGINEERS

550 Bailey Ave., 205 - Fort Worth, TX 76107
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TBPE Firm 17957 | TBPLS Firm 10193887
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DATE: 6-4-2018
DRAWN BY: RR/JC
CHECKED BY: DH
FIELD CREW: RE/RR
PROJECT NO: 2017071080
SCALE: 1" = 10,000'
SHEET: 1 OF 1
REVISION:



SECTION 21

TOWNSHIP 25 SOUTH, RANGE 30 EAST
NEW MEXICO PRIME MERIDIAN

SE/4 SE/4

LEGEND

----- PROPOSED PAD

NOTE:

- 1). SEE "TOPOGRAPHICAL AND ACCESS ROAD MAP" FOR PROPOSED ROAD LOCATION

DIRECTIONS TO THIS LOCATION:

FROM THE INTERSECTION OF HWY 285 AND LONGHORN ROAD GO NORTHEAST ON LONGHORN ROAD (PAVED) APPROX. 2.4 MILES. TAKE SLIGHT LEFT AND CONTINUE ON LONGHORN ROAD (PAVED) FOR APPROX. 1.8 MILES. TURN LEFT (NORTHEAST) ONTO PIPELINE ROAD NUMBER 1 ROAD (GRAVEL) FOR APPROX. 6.9 MILES. TURN RIGHT (SOUTHEAST) ONTO ROCK DOVE ROAD (GRAVEL) FOR APPROX. 1.3 MILES ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE SOUTHEAST.



0 50' 100'
1" = 100 FEET

BOPCO, L.P.

WELL SITE PLAN

POKER LAKE UNIT 21 BD #128H
LOCATED 704 FEET FROM THE EAST LINE
AND 530 FEET FROM THE SOUTH LINE OF
SECTION 21, TOWNSHIP 25 SOUTH, RANGE 30
EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

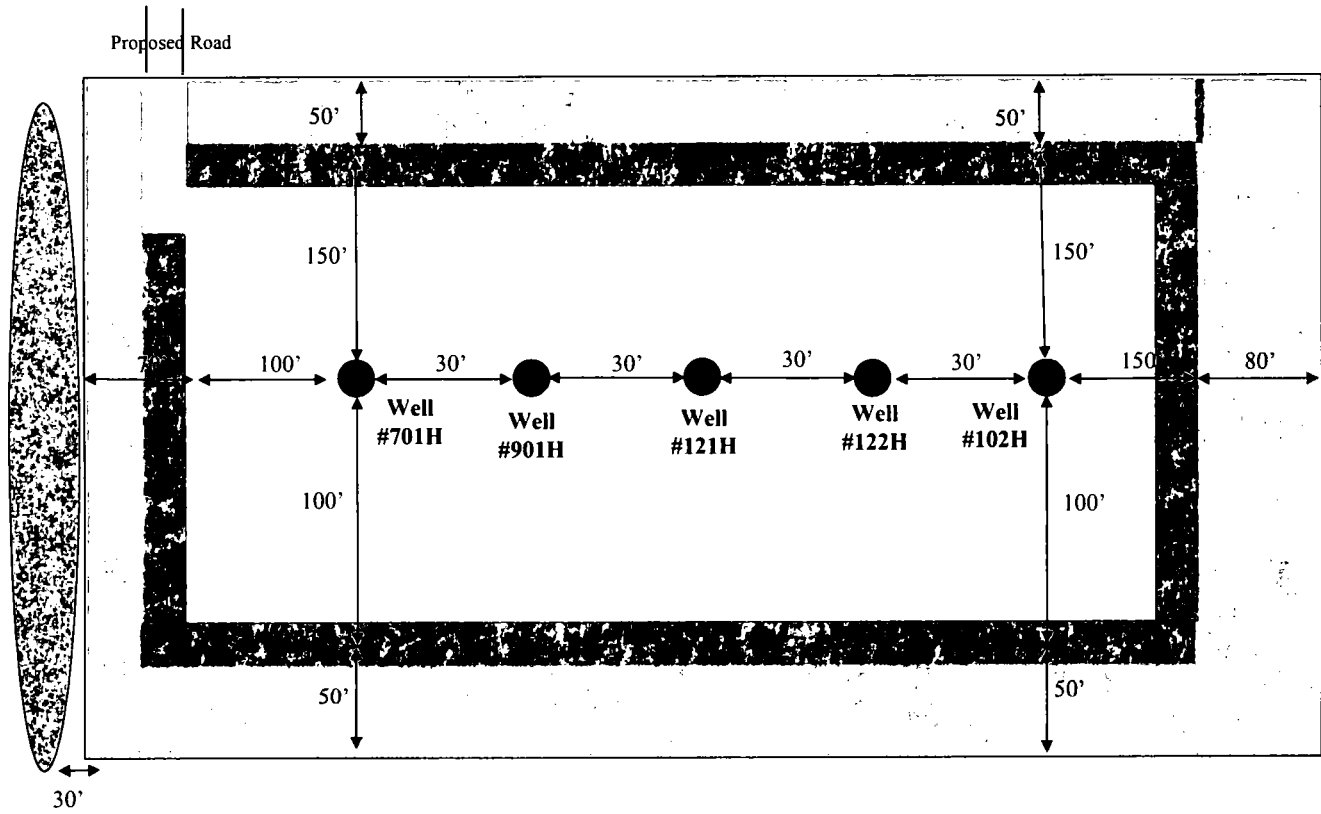


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DATE:	7-19-2018	PROJECT NO:	2017071080
DRAWN BY:	RR/AL/RS	SCALE:	1" = 100'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	3

Interim Reclamation Diagram
Poker Lake Unit 21 Brushy Draw #701H, 901H, 121H, 122H, 102H
V-Door West (All Wells)



Wellbore

Interim Reclamation

LEGEND

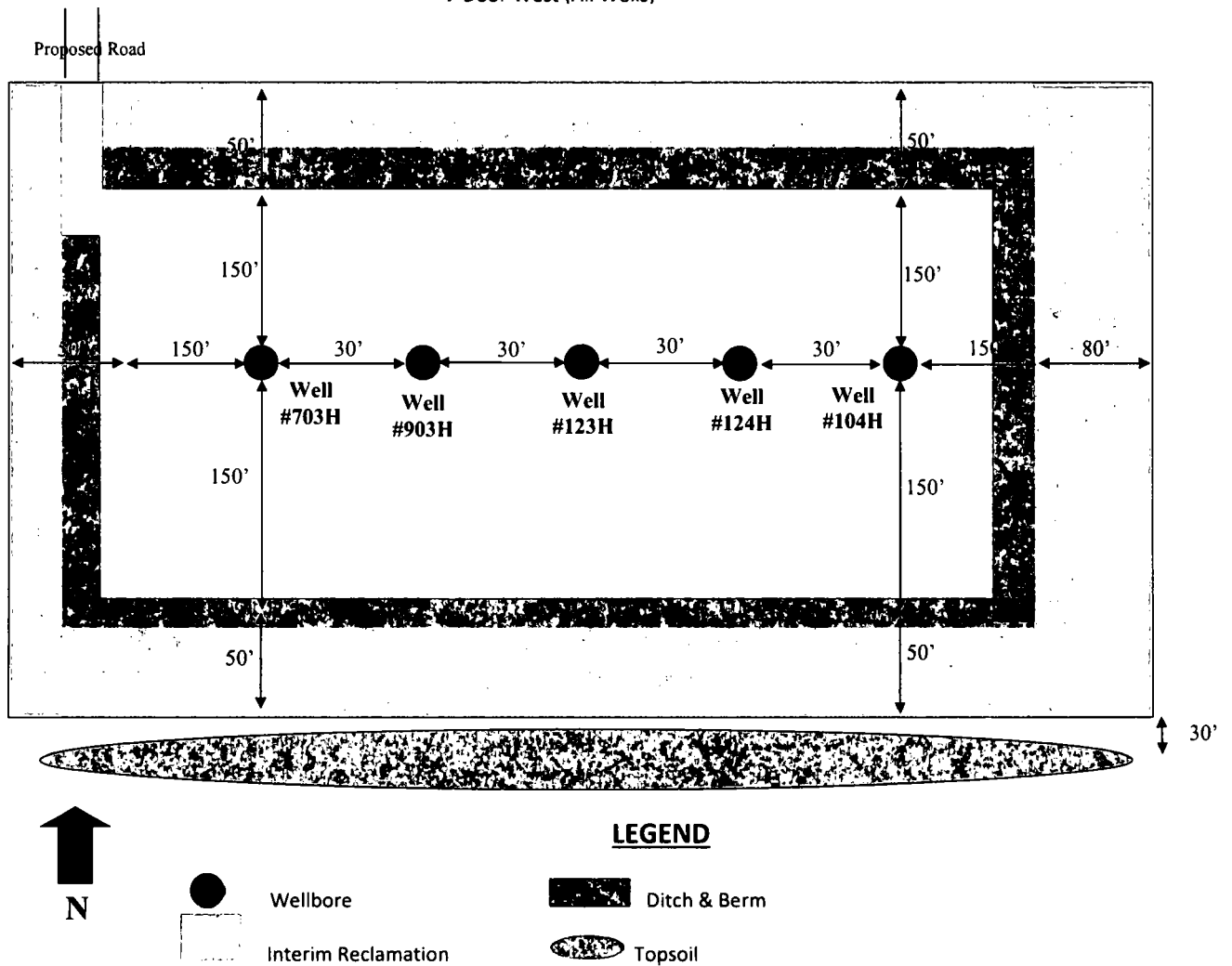


Ditch & Berm

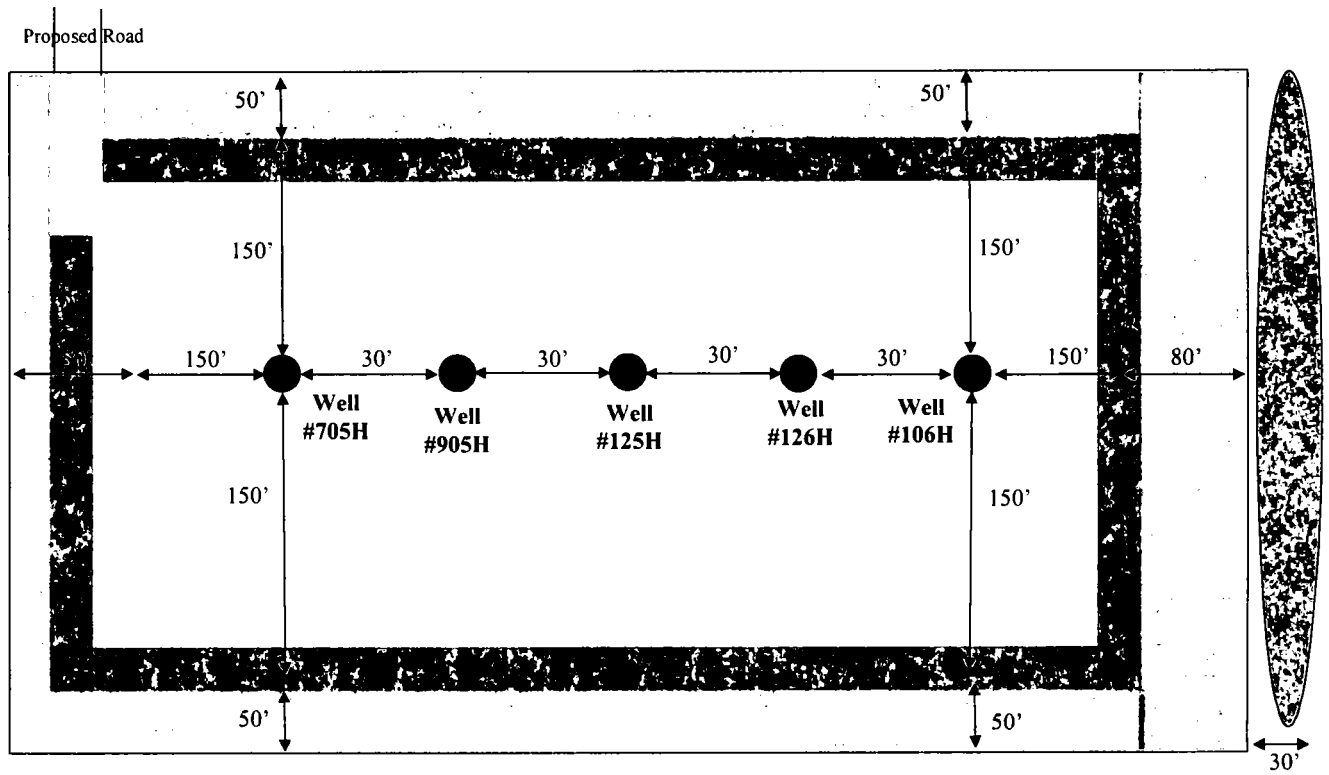


Topsoil

Poker Lake Unit 21 Brushy Draw #703H, 903H, 123H, 124H, 104H
V-Door West (All Wells)



Interim Reclamation Diagram
Poker Lake Unit 21 Brushy Draw #705H, 905H, 125H, 126H, 106H
V-Door West (All Wells)



Wellbore



Interim Reclamation

LEGEND

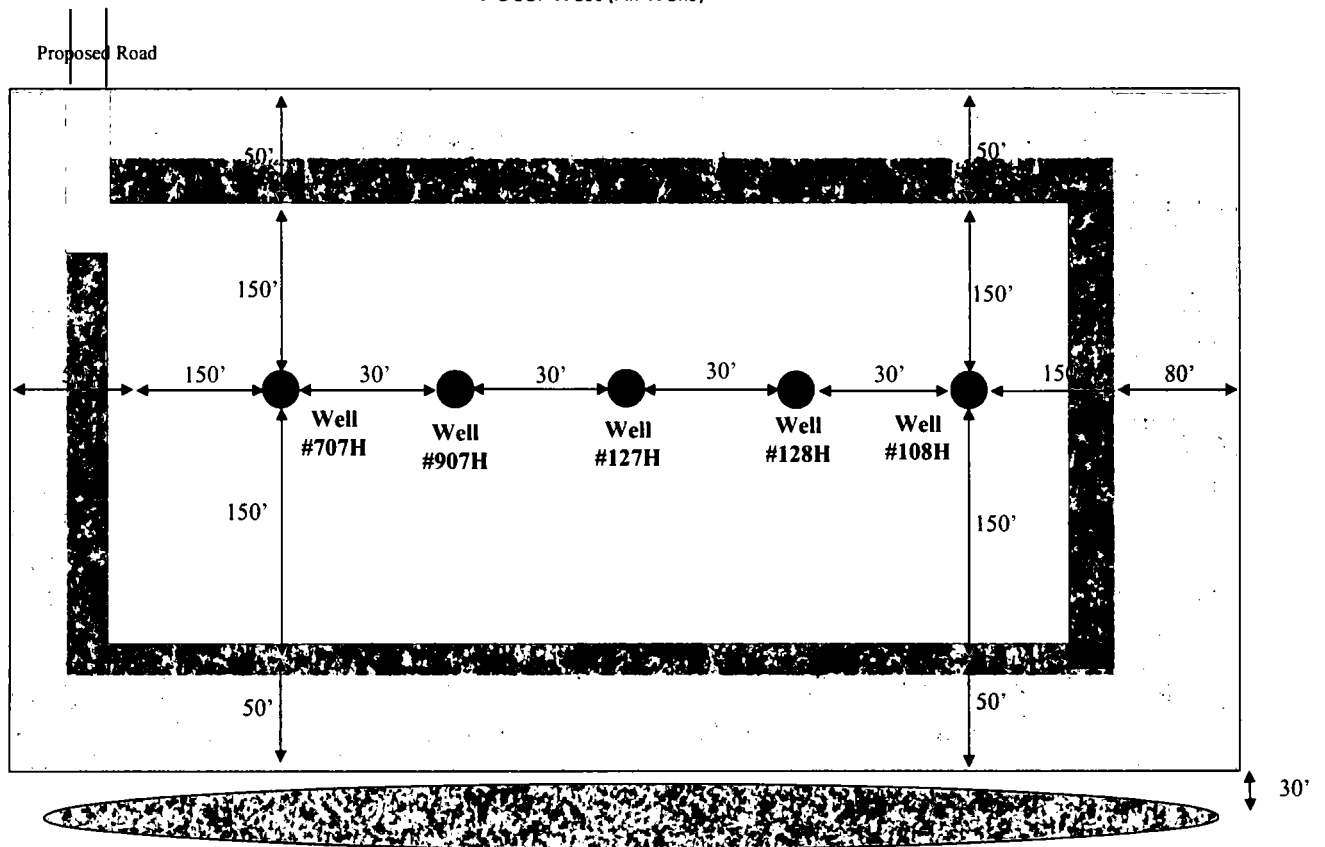


Ditch & Berm



Topsoil

Interim Reclamation Diagram
Poker Lake Unit 21 Brushy Draw #707H, 907H, 127H, 128H, 108H
V-Door West (All Wells)



LEGEND

- | | | | |
|---|---------------------|---|--------------|
|  | Wellbore |  | Ditch & Berm |
|  | Interim Reclamation |  | Topsoil |

Well Site Locations

The results of the Poker Lake Unit 21 Brushy Draw Development Program will develop economic quantities of oil and gas in the 'Poker Lake Unit 21 Brushy Draw' area with multiple primary formations targeted. Well locations are determined based on cross-section variations and details. Locations will be selected to minimize the likelihood of encountering faults and/or drilling hazards while still targeting suitably productive zones.

If drilling results in an unproductive well, the well will be plugged and abandoned as soon as practical after the conclusion of production testing. Productive wells may be shut-in temporarily for BLM authorization for production activities and facilities.

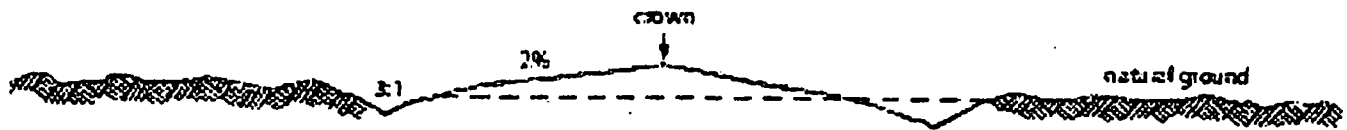
Surface Use Plan

1. Existing Roads

- A. The Poker Lake Unit 21 Brushy Draw area is accessed by existing U.S. Hwy 128 and Longhorn Rd (paved) approximately 2.4 miles. Take slight left and continue on Longhorn Road (paved) for approximately 1.8 miles. Turn left (northeast) onto Pipeline Road #1 (gravel) for approximately 6.9 miles. Turn right (southeast) onto Rock Dove Road (gravel) for approximately 1.3 miles. Locations are to the Southwest. Transportation Plan identifying existing roads that will be used to access the project area is included from Frank's Surveying marked as, 'Vicinity Map.'
- B. There are no existing access roads to the proposed Poker Lake Unit 21 Brushy Draw well locations. All equipment and vehicles will be confined to the routes shown on the Vicinity Map as provided by Frank's Surveying. Maintenance of the access roads will continue until abandonment and reclamation of the well pads is completed.
- C. The project is located approximately 12.5 miles to the town of Malaga.

2. New or Upgraded Access Roads

- A. **New Roads.** There is a total of approximately 5385.46' or 1.02 miles of proposed and staked access roads in the Poker Lake Unit 21 Brushy Draw lease area.
- B. **Well Pads.** The well pads selected for development will determine which existing roads will be upgraded and which new roads will be built. The lease flow diagram shows the location of proposed roads that will need to be constructed to access the well pads.
- C. **Anticipated Traffic.** After well completion, travel to each well site will include one lease operator truck and two oil trucks per day until the Central Tank Battery is completed. Upon completion of the Central Tank Battery, one lease operator truck will continue to travel to each well site to monitor the working order of the wells and to check well equipment for proper operation. Two oil trucks will continue to travel to the Central Tank Battery only for oil hauling. Additional traffic will include one maintenance truck periodically throughout the year for pad upkeep and weed removal. Well service trips will include only the traffic necessary to work on the wells or provide chemical treatments periodically and as needed throughout the year.
- D. **Routing.** All equipment and vehicles will be confined to the travel routes laid out in the vicinity map provided by Frank's Surveying unless otherwise approved by the BLM and applied for by BOPCO, L.P.
- E. **Road Dimensions.** The maximum width of the driving surface of new roads will be 14 feet. The roads will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 1 foot deep with 3:1 slopes. The driving surface will be made of 6" rolled and compacted caliche.



Level Ground Section

- F. **Surface Material.** Surface material will be native caliche. The average grade of all roads will be approximately 3%.
- G. **Fence Cuts:** No.
- H. **Fences:** No.
- I. **Cattle Guards:** No.
- J. **Turnouts:** No.
- K. **Culverts:** No.
- L. **Cuts and Fills:** Not significant.
- M. **Topsoil.** Approximately 6 inches of topsoil (root zone) will be stripped from the proposed access road prior to any further construction activity. The topsoil that was stripped will be spread along the edge of the road and within the ditch. The topsoil will be seeded with the proper seed mix designated by the BLM.
- N. **Maintenance.** The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along with access road route.
- O. **Drainage.** The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

3. Location of Existing Wells

- A. See attached 1-mile radius well map.

4. Ancillary Facilities

- A. **Ancillary Facilities.** No off-pad ancillary facilities are planned during the exploration phase including, but not limited to: campsites, airstrips or staging areas.

5. Location of Proposed Production Facilities

- A. **Production Facilities.** Two 600' x 600' pads were staked with the BLM for construction and use as Central Tank Batteries (CTB). The Western most facility is the PLU 21 BD West CTB and the Eastern most facility is the PLU 21 BD East CTB. The pads are located in Section 21-T25S-R30E NMPM, Eddy County, New Mexico. Plats of the proposed facilities are attached. Only the area necessary to maintain facilities will be disturbed. Due to air permitting timeframes and anticipated reserves, two facilities are anticipated to be necessary for full area development. A 3160-5 sundry notification will be submitted after construction with a site-security diagram and layout of the facility with associated equipment.
- B. **Flowlines.** In the event the wells are found productive, 4" composite flexpipe or steel flowlines with a maximum safety pressure rating of 750psi (operating pressure: 125psi) will be laid on the surface within proposed lease road corridors from the proposed wells to the PLU 21 BD East CTB and the PLU 21 BD West CTB where the oil, gas, and water will be metered and appropriately separated. High pressure gas lines will be buried beneath the surface flowlines per well pad within the proposed lease road corridors for gas lift, fuel gas, and water. Oil will be hauled from the location by truck following

existing and proposed lease roads. The distance of proposed flowlines per well will be approximately 4594.81' or less per well based on the location of the well pad in conjunction with the facility location. All flowlines will follow proposed lease road corridors. A plat of the proposed flowline route for the lease is attached.

- C. **Gas Pipeline.** A gas purchaser has been identified. Two 110' corridors are requested to connect with the Poker Lake Unit Row 5 pipeline extending from the PLU 21 BD East CTB and the PLU 21 BD West CTB. BOPCO, L.P. will be installing the line with anticipated risers located on the CTB. The gas purchaser will be responsible for permitting their own gas lines and compressor station, where applicable, through private, state, and federal lands. PLU 21 BD East GSL Approx. Length: 657.98'. PLU 21 BD West GSL Approx. Length: 776.42'.
- D. **Disposal Facilities.** Produced water will be hauled from location to a commercial disposal facility as needed. Once wells are drilled and completed, a 3160-5 sundry notification will be submitted to BLM in compliance with Onshore Order 7.
- E. **Flare.** There will be 2 flares associated with the Poker Lake Unit 21 Brushy Draw project. The flare stacks will be 50'x50'. 1 will be located on the PLU 21 BD East Central Tank Battery. 1 will be located on the PLU 21 BD West Central Tank Battery. Both will be sized and rated based on anticipated reserves and recovery of gas throughout the development area with 150' of distance between all facility equipment, road and well pad locations for safety purposes.
- F. **Aboveground Structures.** All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as 'shale green' that reduce the visual impacts of the built environment.
- G. **Containment Berms.** Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1 ½ times the capacity of the largest tank and away from cut or fill areas.
- H. **Electrical.** All electrical poles and lines will be placed within existing and proposed lease roads corridors. All lines will be primary 12,740 volt to properly run expected production equipment. Approx. 5722.50' of electrical will be run from the anticipated tie-in point with a request for 30' ROW construction and maintenance buffer. This distance is a max. approximation and may vary based on lease road corridors, varying elevations and terrain in the area. A plat of the proposed electrical is attached.

6. Location and Types of Water Supply

The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. The water will be obtained from a 3rd party vendor and hauled to the anticipated pit in Section 7 by transport truck using the existing and proposed roads depicted in the attached exhibits. No water well will be drilled on the location.

Water for drilling, completion and dust control will be purchased from the following company:
Texas Pacific Water Resources

Water for drilling, completion and dust control will be supplied by Texas Pacific Water Resources for sale to BOPCO, L.P. from Section 27, T25S-R30E, Eddy County, New Mexico. In the event that Texas Pacific Water Resources does not have the appropriate water for BOPCO at time of drilling and completion, then BOPCO water will come from Intrepid Potash Company with the location of the water being in Section 6, T25S-R29E, Eddy County, New Mexico.

Anticipated water usage for drilling includes an estimated 35,000 barrels of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated for ~1.5bbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that

may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation.

Temporary water flowlines will be permitted via ROW approval letter and proper grants as-needed based on drilling and completion schedules as needed. Well completion is expected to require approximately 300,000 barrels of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections.

7. Construction Activities

- A. Construction, reclamation, and/or routine maintenance will not be conducted during periods when the soil conditions for construction could lead to impacts to the surrounding environment, or when watershed damage is likely to occur as a result of these activities.
- B. Any construction material that may be required for surfacing of the drill pad and access road will be from a contractor having a permitted source of materials within the general area. No construction materials will be removed from federal lands without prior approval from the appropriate surface management agency. All roads and well pads will be constructed of 6" rolled and compacted caliche.
- C. Anticipated Caliche Locations:
 - a. Pit 1: Federal Caliche Pit, Section 17-T25S-R30E
 - b. Pit 2: Federal Caliche Pit, Section 34-T25S-R29E

8. Methods for Handling Waste

- **Cuttings.** The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site.
- **Drilling Fluids.** These will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility.
- **Produced Fluids.** Water produced from the well during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold.
- **Sewage.** Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- **Garbage and Other Waste Materials.** All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approved sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.
- **Debris.** Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned and removed from the well location. No potential adverse materials or substances will be left on location.
- **Hazardous Materials.**
 - i. All drilling wastes identified as hazardous substances by the Comprehensive Environmental Response Compensation Liability Act (CERCLA) removed from the location and not reused at another drilling location will be disposed of at a hazardous waste facility approved by the U.S. Environmental Protection Agency (EPA).
 - ii. BOPCO, L.P. and its contractors will comply with all applicable Federal, State and local laws and regulations, existing or hereafter enacted promulgated, with regard to any hazardous material, as defined in this paragraph, that will be used, produced, transported or stored on the oil and gas lease. "Hazardous material" means any substance, pollutant or contaminant that is listed as

hazardous under the CERCLA of 1980, as amended, 42 U.S.C 9601 et seq., and its regulation. The definition of hazardous substances under CERCLA includes any 'hazardous waste' as defined in the RCRA of 1976, as amended, 42 U.S.C. 6901 et seq., and its regulations. The term hazardous material also includes any nuclear or nuclear by-product material as defined by the Atomic Energy Act of 1954, as amended, 42 U.S.C. 2011 et seq. The term does not include petroleum, including crude oil or any fraction thereof that is not otherwise specifically listed or designated as a hazardous substance under CERCLA Section 101 (14) U.S.C. 9601 (14) nor does the term include natural gas.

- iii. No hazardous substances or wastes will be stored on the location after completion of the well.
- iv. Chemicals brought to location will be on the Toxic Substance Control Act (TSCA) approved inventory list.
- v. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in Notice to Lessees (NTL) 3A will be reported to the BLM Carlsbad Field Office. Major events will be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days.

9. Well Site Layout

- A. **Rig Plat Diagrams:** There are 5 multi-well pads in the Poker Lake Unit 20 Brushy Draw lease anticipated. This will allow enough space for cuts and fills, topsoil storage, and storm water control. Interim reclamation of these pads is anticipated after the drilling and completion of all wells on the pad. Well site layouts for all pads are attached. From West to East:
 - 1. Pad 1 is a 5-well pad expected to be 520'x350'.
 - 2. Pad 2 is a 5-well pad expected to be 550'x350'.
 - 3. Pad 3 is a 5-well pad expected to be 550'x400'.
 - 4. Pad 4 is a 4-well pad expected to be 550'x350'.**Closed-Loop System:** There will be no reserve pit as each well will be drilled utilizing a closed loop mud system. The closed loop system will meet the NMOCD requirements 19.15.17.
- B. **V-Door Orientation:** These wells were staked with multiple v-door orientations. The following list is from West to East in accordance to the staked section and as agreed upon with Fernando Banos, BLM Natural Resource Specialist, present at on-site inspection.
 - 1. Pad 1 has a V-Door Orientation of West.
 - 2. Pad 2 has a V-Door Orientation of West.
 - 3. Pad 3 has a V-Door Orientation of West.
 - 4. Pad 4 has a V-Door Orientation of West.
- C. A 600' x 600' area has been staked and flagged around each well pad. A plat for the well has been attached.
- D. All equipment and vehicles will be confined to the approved disturbed areas of this APD (i.e., access road, well pad and topsoil storage areas).

10. Plans for Surface Reclamation:

BOPCO, L.P. requests a variance from interim reclamation until all drilling and completion activities have been finished on the pads as these are multi-well pads where drilling and completion will be consecutive with the other wells on the pad. Once activities are completed, BOPCO, L.P. will coordinate interim reclamation with the appropriate BLM personnel or use the following plan:

Non-Commercial Well (Not Productive), Interim & Final Reclamation:

Definition: Reclamation includes disturbed areas where the original landform and a natural vegetative community will be restored and it is anticipated the site will not be disturbed for future development.

Reclamation Standards:

The portions of the pad not essential to production facilities or space required for workover operations will be reclaimed and seeded as per BLM requirements for interim reclamation. (See Interim Reclamation plans attached).

All equipment and trash will be removed, and the surfacing material will be removed from the well pad and road and transported to the original caliche pit or used to maintain other roads. The location will then be ripped and seeded.

The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded

A self-sustaining, vigorous, diverse, native (or otherwise approved) plant community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.

Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gullying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.

The site will be free of State-or County-listed noxious weeds, oil field debris and equipment, and contaminated soil. Invasive and non-native weeds will be controlled.

Seeding:

- **Seedbed Preparation:** Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches. If the site is to be broadcast seeded, the surface will be left rough enough to trap seed and snow, control erosion, and increase water infiltration.
- If broadcast seeding is to be used and is delayed, final seedbed preparation will consist of contour cultivating to a depth of 4-6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.
- **Seed Application.** Seeding will be conducted no more than two weeks following completion of final seedbed preparation. A certified weed-free seed mix designed by the BLM to meet reclamation standards will be used.
- If the site is harrowed or dragged, seed will be covered by no more than 0.25 inch of soil.

11. Surface Ownership

- A. Within the Poker Lake Unit 21 Brushy Draw project area: 100% of the surface is under the administrative jurisdiction of David Paschal, private land owner.
- B. The surface is multiple-use with the primary uses of the region for grazing and for the production of oil and gas.

12. Other Information

Changes from Notice of Staking / Onsite

- **Well Numbers.** The 1000 and 1200 series well numbers have changed from 4-digit to 3-digit due to NMOCD requirements from the original Notice of Staking. This was done by dropping the 3rd '0' out of the well number. The 700 and 900 wells, being originally 3-digits, remain unchanged.

See reference table for appropriate well number changes.

Notice of Staking Well Number	APD Well Number
1002H	102H
1004H	104H
1006H	106H
1008H	108H
1201H	121H
1202H	122H
1203H	123H
1204H	124H
1205H	121H
1206H	124H
1207H	127H
1208H	128H

Surveying

- Well Sites.** Well pad locations have been staked. Surveys of the proposed access roads and well pad locations have been completed by Frank Surveying, a registered professional land surveyor. Center stake surveys with access roads have been completed on State and Federal lands with Fernando Banos, Bureau of Land Management Natural Resource Specialist in attendance. * ~~Page 28-44 Water Stake with the Center Stake for the Center and the final land moved due to FEMA Flood plain~~
- Cultural Resources – Archaeology:** A Class III Cultural Resources Examination has been completed on all wells by Boone Archaeological Services and the results will be forwarded to the BLM Office. A copy of the report is also included as an attachment to this APD.
- Dwellings and Structures.** There are no dwellings or structures within 2 miles of this location.

Soils and Vegetation

- **Environmental Setting.** Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona-Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility.
- **Traffic.** No truck traffic will be operated during periods or in areas of saturated ground when surface rutting could occur. The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along the access road route.
- **Water.** There is no permanent or live water in the immediate or within the project area.

13. Bond Coverage

Bond Coverage is Nationwide. Bond Number: COB000050

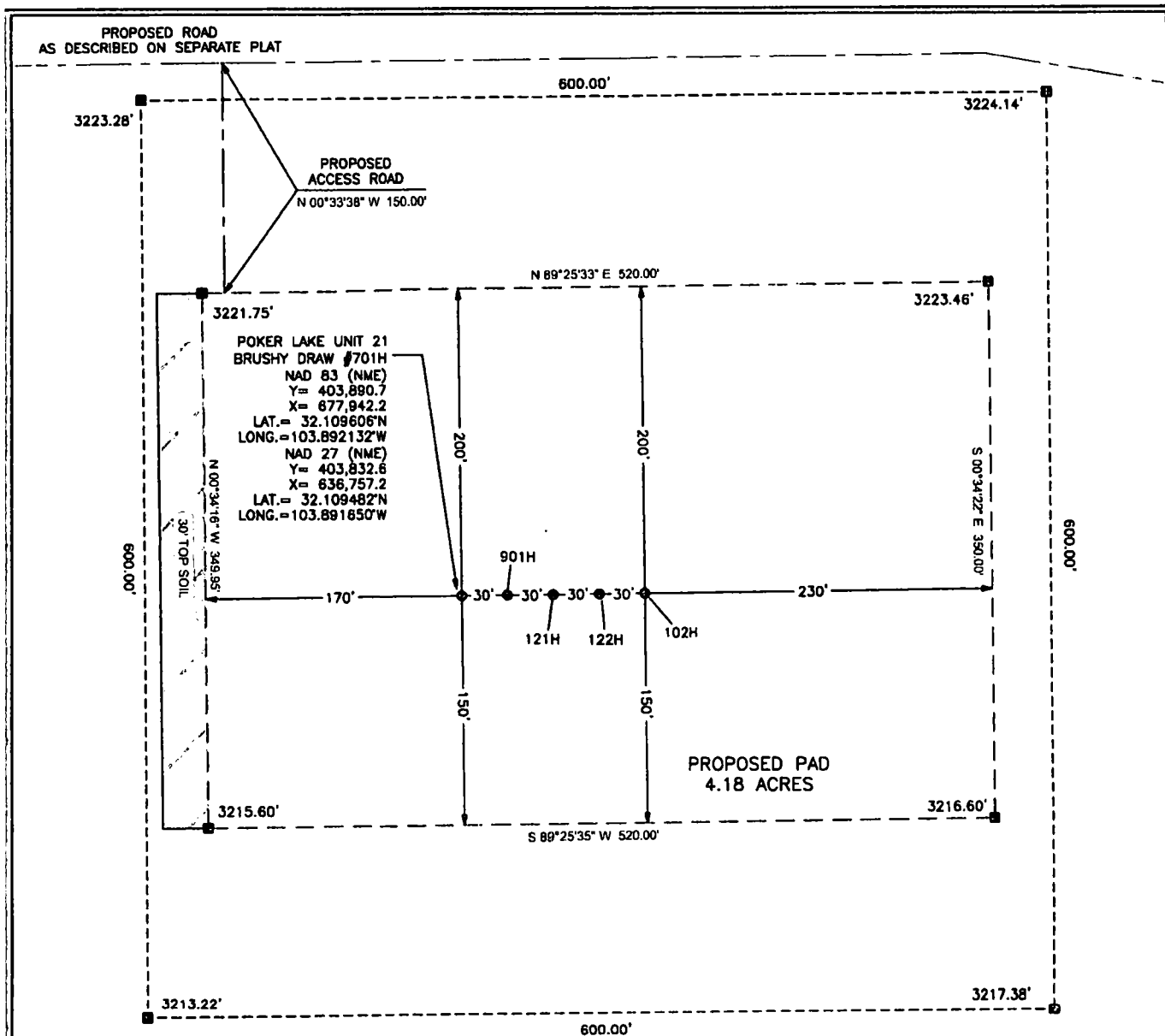
Operator's Representatives:

The BOPCO, L.P. representatives for ensuring compliance of the surface use plan are listed below:

Surface:

Jimie Scott
Contract Construction Lead
XTO Energy, Incorporated
500 W. Illinois St., Suite 100
Midland, Texas 79701
432-488-9955
james_scott@xtoenergy.com

Jeff Raines
Construction Superintendent
XTO Energy, Incorporated
500 W. Illinois St., Suite 100
Midland, Texas 79701
432-620-4349
jeff_raines@xtoenergy.com



SECTION 21

TOWNSHIP 25 SOUTH, RANGE 30 EAST
NEW MEXICO PRIME MERIDIAN

LEGEND

----- PROPOSED ACCESS RD.
----- PROPOSED PAD

NOTE:

- 1). SEE "TOPOGRAPHICAL AND ACCESS ROAD MAP" FOR PROPOSED ROAD LOCATION

DIRECTIONS TO THIS LOCATION:

FROM THE INTERSECTION OF HWY 285 AND LONGHORN ROAD GO NORTHEAST ON LONGHORN ROAD (PAVED) APPROX. 2.4 MILES. TAKE SLIGHT LEFT AND CONTINUE ON LONGHORN ROAD (PAVED) FOR APPROX. 1.8 MILES. TURN LEFT (NORTHEAST) ONTO PIPELINE ROAD NUMBER 1 ROAD (GRAVEL) FOR APPROX. 6.9 MILES. TURN RIGHT (SOUTHEAST) ONTO ROCK DOVE ROAD (GRAVEL) FOR APPROX. 1.3 MILES ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE SOUTHWEST.



0 50' 100'
1" = 100 FEET

BOPCO, L.P.

WELL SITE PLAN

POKER LAKE UNIT 21 BRUSHY DRAW #701H
LOCATED 828 FEET FROM THE WEST LINE
AND 452 FEET FROM THE SOUTH LINE OF
SECTION 21, TOWNSHIP 25 SOUTH, RANGE 30
EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

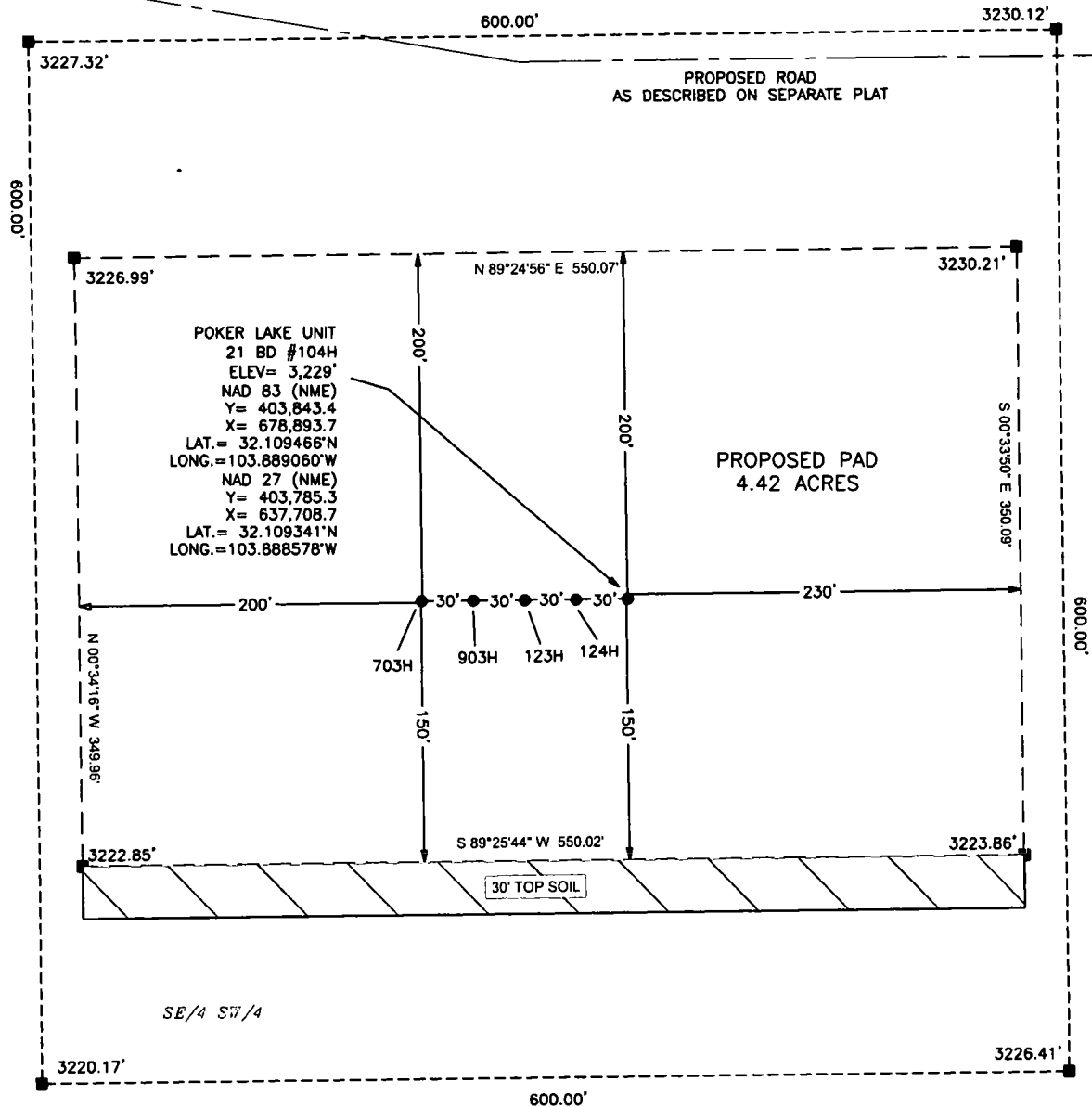


FSC INC
SURVEYORS & ENGINEERS

550 Bailey Ave., 205 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TRPLS Firm 10193887
www.fscinc.net

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DATE:	11-16-2017	PROJECT NO:	2017071060
DRAWN BY:	RR	SCALE:	1" = 100'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	1



SECTION 21
 TOWNSHIP 25 SOUTH, RANGE 30 EAST
 NEW MEXICO PRIME MERIDIAN

SECTION 28

NOTE:

- 1). SEE "TOPOGRAPHICAL AND ACCESS ROAD MAP" FOR PROPOSED ROAD LOCATION

DIRECTIONS TO THIS LOCATION:

FROM THE INTERSECTION OF HWY 285 AND LONGHORN ROAD GO NORTHEAST ON LONGHORN ROAD (PAVED) APPROX. 2.4 MILES. TAKE SLIGHT LEFT AND CONTINUE ON LONGHORN ROAD (PAVED) FOR APPROX. 1.8 MILES. TURN LEFT (NORTHEAST) ONTO PIPELINE ROAD NUMBER 1 ROAD (GRAVEL) FOR APPROX. 6.9 MILES. TURN RIGHT (SOUTHEAST) ONTO ROCK DOVE ROAD (GRAVEL) FOR APPROX. 1.3 MILES ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE SOUTHWEST.



0 50' 100'
 1" = 100 FEET

LEGEND

----- PROPOSED PAD

BOPCO, L.P.

WELL SITE PLAN

POKER LAKE UNIT 21 BD #104H
 LOCATED 1,780 FEET FROM THE WEST LINE
 AND 395 FEET FROM THE SOUTH LINE OF
 SECTION 21, TOWNSHIP 25 SOUTH, RANGE 30
 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

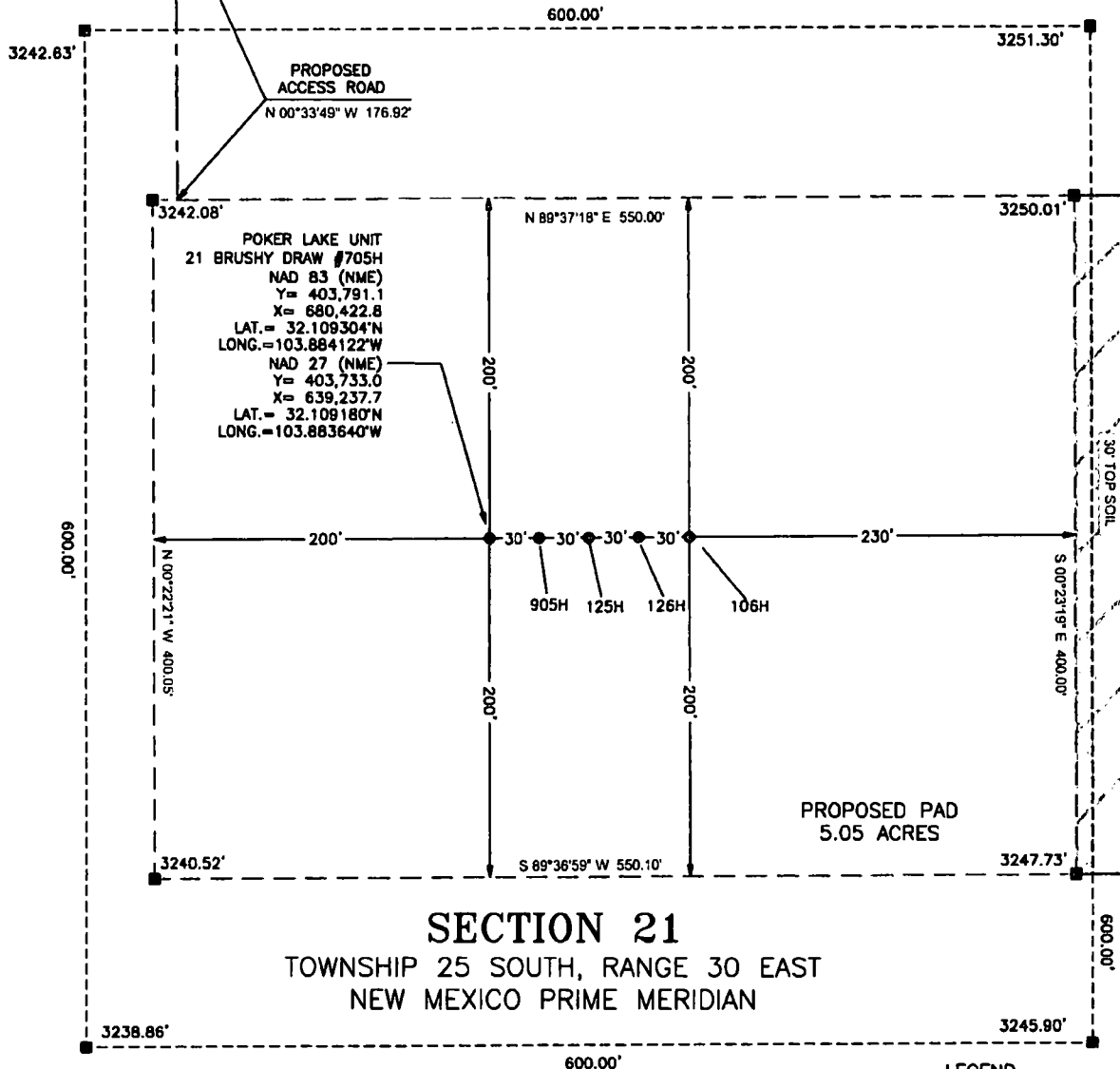


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DATE:	7-19-2018	PROJECT NO:	2017071068
DRAWN BY:	RR/AL/RS	SCALE:	1" = 100'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	3

PROPOSED ROAD
AS DESCRIBED ON SEPARATE PLAT



LEGEND

- PROPOSED ACCESS RD.
----- PROPOSED PAD

SECTION 28

TOWNSHIP 25 SOUTH, RANGE 30 EAST
NEW MEXICO PRIME MERIDIAN

NOTE:

- 1). SEE "TOPOGRAPHICAL AND ACCESS ROAD MAP"
FOR PROPOSED ROAD LOCATION

DIRECTIONS TO THIS LOCATION:

FROM THE INTERSECTION OF HWY 285 AND LONGHORN ROAD GO NORTHEAST ON LONGHORN ROAD (PAVED) APPROX. 2.4 MILES. TAKE SLIGHT LEFT AND CONTINUE ON LONGHORN ROAD (PAVED) FOR APPROX. 1.8 MILES. TURN LEFT (NORTHEAST) ONTO PIPELINE ROAD NUMBER 1 ROAD (GRAVEL) FOR APPROX. 6.9 MILES. TURN RIGHT (SOUTHEAST) ONTO ROCK DOVE ROAD (GRAVEL) FOR APPROX. 1.3 MILES ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE SOUTHWEST.



0 50' 100'
1" = 100 FEET

BOPCO, L.P.

WELL SITE PLAN

POKER LAKE UNIT 21 BRUSHY DRAW #705H
LOCATED 2,040 FEET FROM THE EAST LINE
AND 330 FEET FROM THE SOUTH LINE OF
SECTION 21, TOWNSHIP 25 SOUTH, RANGE 30
EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

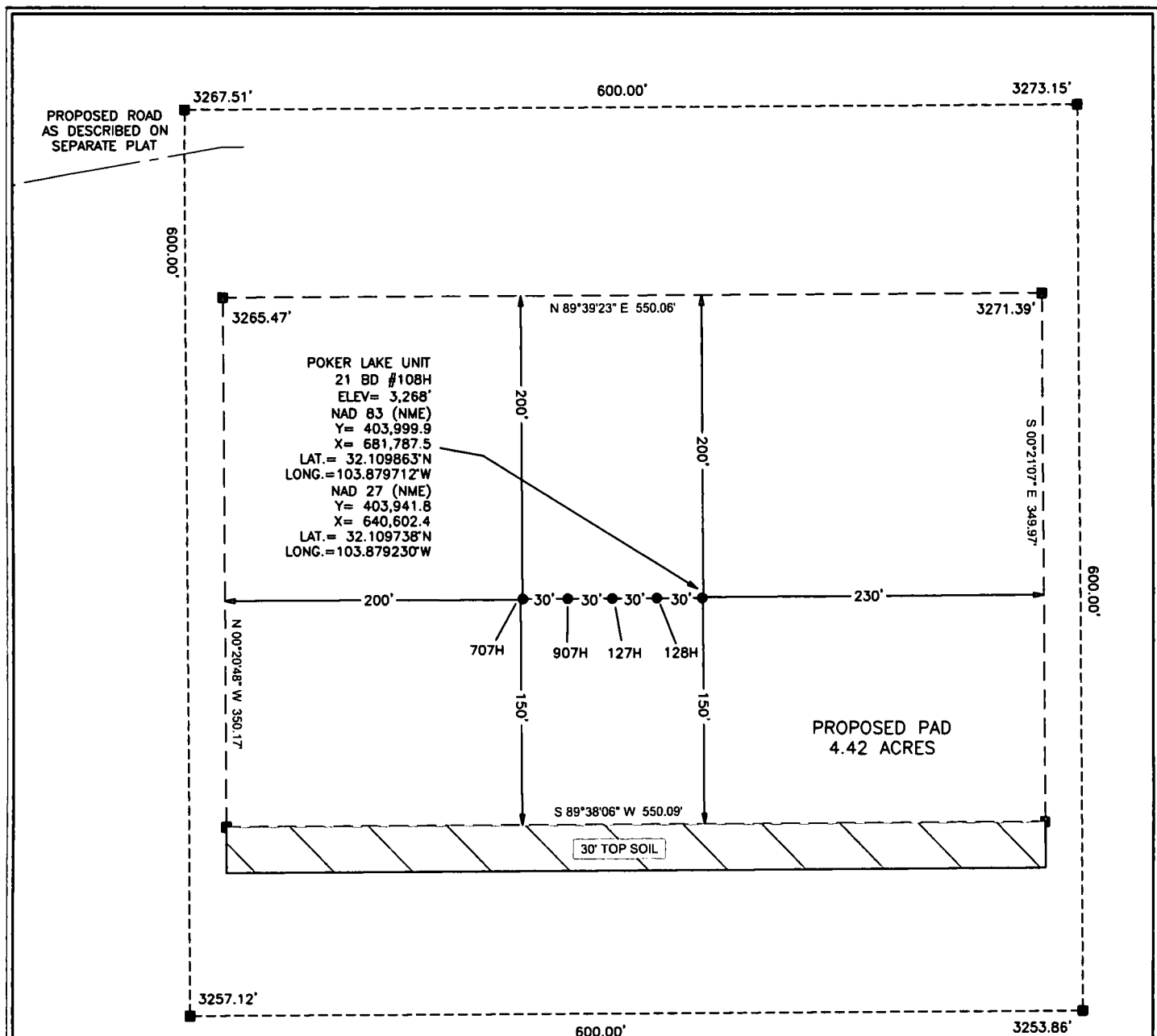


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DATE:	11-16-2017	PROJECT NO:	2017071076
DRAWN BY:	RR	SCALE:	1" = 100'
CHECKED BY:	OH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	1



SECTION 21

TOWNSHIP 25 SOUTH, RANGE 30 EAST
NEW MEXICO PRIME MERIDIAN

SE/4 SE/4

LEGEND

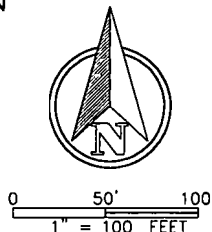
----- PROPOSED PAD

NOTE:

- 1). SEE "TOPOGRAPHICAL AND ACCESS ROAD MAP" FOR PROPOSED ROAD LOCATION

DIRECTIONS TO THIS LOCATION:

FROM THE INTERSECTION OF HWY 285 AND LONGHORN ROAD GO NORTHEAST ON LONGHORN ROAD (PAVED) APPROX. 2.4 MILES. TAKE SLIGHT LEFT AND CONTINUE ON LONGHORN ROAD (PAVED) FOR APPROX. 1.8 MILES. TURN LEFT (NORTHEAST) ONTO PIPELINE ROAD NUMBER 1 ROAD (GRAVEL) FOR APPROX. 6.9 MILES. TURN RIGHT (SOUTHEAST) ONTO ROCK DOVE ROAD (GRAVEL) FOR APPROX. 1.3 MILES ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE SOUTHEAST.



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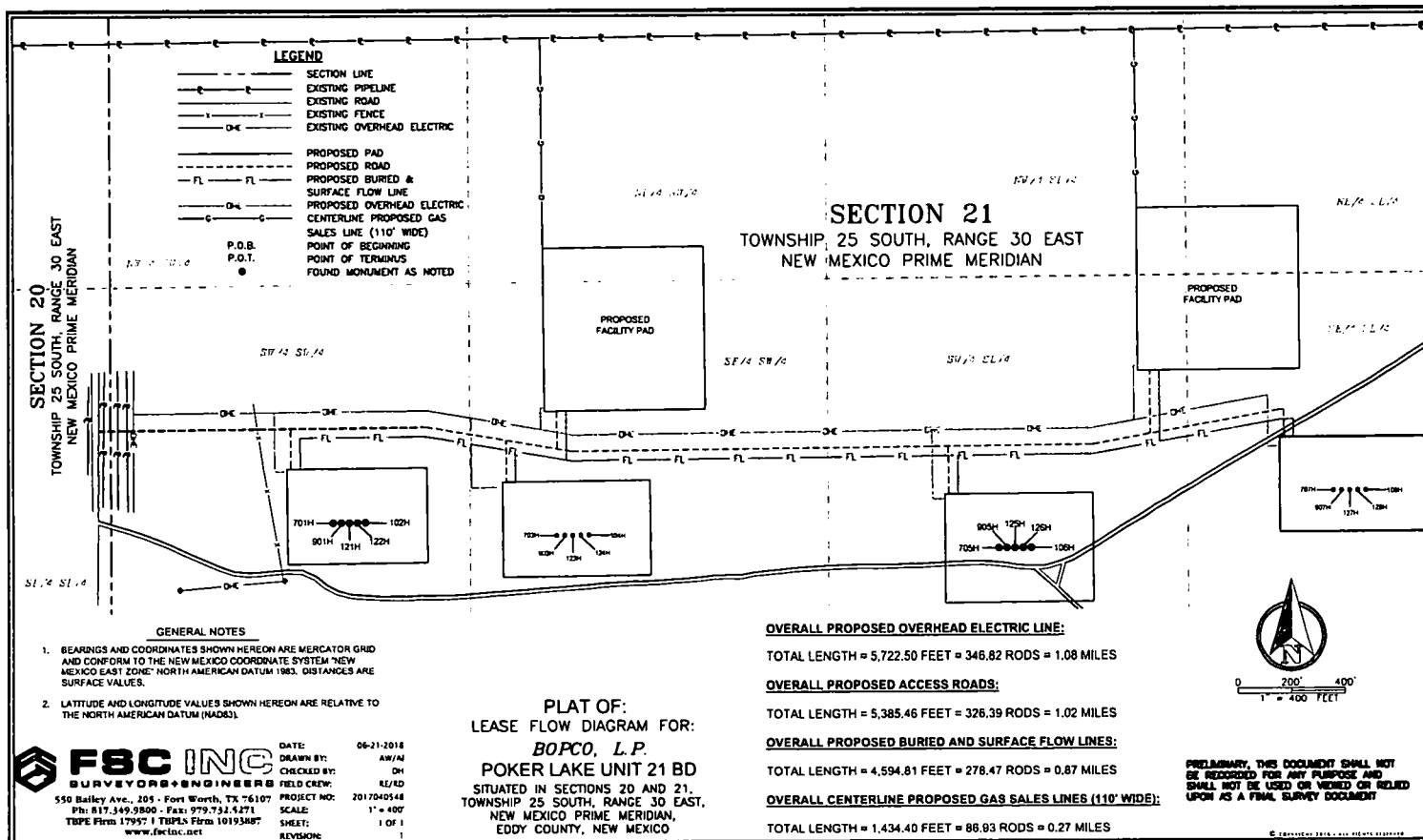
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BOPCO, L.P.

WELL SITE PLAN

POKER LAKE UNIT 21 BD #108H
LOCATED 674 FEET FROM THE EAST LINE
AND 530 FEET FROM THE SOUTH LINE OF
SECTION 21, TOWNSHIP 25 SOUTH, RANGE 30
EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

DATE:	7-19-2018	PROJECT NO:	2017071078
DRAWN BY:	RR/AL/RS	SCALE:	1" = 100'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	3



Confirmation of Payment

Form NM 8140-9

(March 2008)

United States Department of the Interior
Bureau of Land Management
New Mexico State Office

Permian Basin Cultural Resource Mitigation Fund

The company shown below has agreed to contribute funding to the Permian Basin Cultural Resource Fund in lieu of being required to conduct a Class III survey for cultural resources associated with their project. This form verifies that the company has elected to have the Bureau of Land Management (BLM) follow the procedures specified within the Programmatic Agreement (PA) concerning improved strategies for managing historic properties within the Permian Basin, New Mexico, for the undertaking rather than the Protocol to meet the agency's Section 106 obligations.

Company Name: BOPCO, LP

Address: 6401 Holiday Hill Rd
Midland, TX 79707

Project description:

Poker Lake Unit 21 Brushy Draw APDs & associated facilities.

T. 25S, R. 30E, Section 20 & 21 NMPM, Eddy County, New Mexico

Amount of contribution: \$ \$10,845.39

4 Well Pads: 18.07 acres x \$197 = \$3559.79

2 CTBs: 16.52 acres x \$197 = \$3254.44

Gas Sales Line: 1434.4' x \$0.28 = \$401.63

Flowline: 4647.88' x \$0.28 = \$1301.41

Road: 5431.75' x \$0.28 = \$1520.89

OHE: 5765.92' x \$0.14 = \$807.23

Confirmation of Payment Page 2

Provisions of the PA:

- A. No new Class III inventories are required of industry within the project area for those projects where industry elects to contribute to the mitigation fund.
- B. The amount of funds contributed was derived from the rate schedule established within Appendix B of the PA. The amount of the funding contribution acknowledged on this form reflects those rates.
- C. The BLM will utilize the funding to carry out a program of mitigation at high-priority sites whose study is needed to answer key questions identified within the Regional Research Design.
- D. Donating to the fund is voluntary. Industry acknowledges that it is aware it has the right to pay for a Class III survey rather than contributing to the mitigation fund. Industry must avoid or fund data recovery at those sites already recorded that are eligible for nomination to the National Register or whose eligibility is unknown. Any such payments are independent of the mitigation funds established by this PA.
- E. Previously recorded archaeological sites determined eligible for nomination to the National Register, or whose eligibility remains undetermined, must be avoided or mitigated.
- F. If any skeletal remains that might be human or funerary objects are discovered by any activities, the land-use applicant will cease activities in the area of discovery, protect the remains, and notify the BLM within 24 hours. The BLM will determine the appropriate treatment of the remains in consultation with culturally-affiliated Indian Tribe(s) and lineal descendants. Applicants will be required to pay for treatment of the cultural items, independent and outside of the mitigation fund.

Heery Handes
Company-Authorized Officer

3/9/18
Date

BLM-Authorized Officer

Date

United States Department of the Interior
Bureau of Land Management
CARLSBAD FIELD OFFICE
620 E. GREENE
CARLSBAD, NM 88220 -6292
Phone: (575) 234-5972

Receipt

No: 4109256

Transaction #: 4222340

Date of Transaction: 03/12/2018

CUSTOMER:

BOPCO LP
6401 HOLIDAY HILL RD BLDG 5 ST
MIDLAND, TX 79707-2156 US

LINE #	QTY	DESCRIPTION	REMARKS	UNIT PRICE	TOTAL
1	1.00	CONTRIBUTED FUNDS-ALL OTHER / 7122 FLPMA / ALL OTHER RES DEV, PROTECT & MGMT PROJECT: LVTFG09G6180	MOA: BOPCO LP POKER LAKE UNIT 21 BRUSHY DRAW	10845.39	10845.39
TOTAL:					\$10,845.39

PAYMENT INFORMATION

NOTE: Items will appear on credit card statement as "Bureau of Land Mgmt CO".

1	AMOUNT:	10845.39	POSTMARKED:	N/A
	TYPE:	CREDIT CARD	RECEIVED:	03/12/2018
	NAME:	BOPCO LP 6401 HOLIDAY HILL RD BLDG 5 ST MIDLAND TX 79707-2156 US		
	CARD NO:	XXXXXXXXXXXX4200	AUTH CODE:	022504
	NAME ON CARD:	STEPHANIE RABADUE		
	EXPIRES:	11/2019		
	SIGNATURE:			

REMARKS

This receipt was generated by the automated BLM Collections and Billing System and is a paper representation of a portion of the official electronic record contained therein.

PAID
TRAN #4222340
03/12/18



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

PWD Data Report

11/06/2018

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Assigned injection well API number?

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Injection well name:

Injection well API number:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Bond Info Data Report

11/06/2018

Bond Information

Federal/Indian APD: FED

BLM Bond number: COB000050

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: