March 20 OCD Artesia	_			FORM OMB N Expires O	APPROVI lo. 1004-01 october 31, 2	37		
DEPARTMENT OF THE	5. Lease Serial No. NMNM0000506A							
BUREAU OF LAND MAN APPLICATION FOR PERMIT TO	6. If Indian, Allotee	or Tribe	Name					
la. Type of work: I DRILL REENT	7 If Unit or CA Agre POKER LAKE / NN							
lb. Type of Well: Oil Well 🔽 Gas Well Other		Single Zone Multip	ple Zone	8. Lease Name and V POKER LAKE UNI	Well No.	32/3		
2. Name of Operator BOPCO LP		2601.31		9. API Well No.	15.0	45056		
3a. Address 810 Houston Street Fort Worth TX 76102		none No. (include area code) 7)885-8200		10. Field and Pool, or I DELWARE BASIN	Explorator	у		
4. Location of Well (Report location clearly and in accordance with a At surface SESW / 330 FSL / 2590 FWL / LAT 32.2110	13 / LC	DNG -103.765859		11. Sec., T. R. M. or B SEC 15 / T24S / R				
At proposed prod. zone SWSE / 200 FSL / 2310 FEL / LAT 4. Distance in miles and direction from nearest town or post office*	T 32.18	31618 / LONG -103.76458	81	12. County or Parish EDDY		13. State NM		
 Distance from proposed* location to nearest 330 feet property or lease line, ft. (Also to nearest drig. unit line, if any) 	1.0	No. of acres in lease 5.12	17. Spacir 640	ing Unit dedicated to this well				
 Distance from proposed location* to nearest well, drilling, completed, 30 feet applied for, on this lease, ft. 		Proposed Depth 00 feet / 22100 feet	BIA Bond No. on file OB000050					
 Elevations (Show whether DF, KDB, RT, GL, etc.) 3552 feet 		Approximate date work will sta 01/2018	n*	23. Estimated duration 90 days	n			
 A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). 	1 Lands,			ormation and/or plans as	may be r	equired by the		
25. Signature (Electronic Submission)		Name (Printed/Typed) Kelly Kardos / Ph: (432)	620-4374		Date 11/15/	2017		
litle								
Regulatory Coordinator		Name (Printed/Typed)	24 5050		Date 05/31/	2018		
,		Cody Layton / Ph: (575)2	234-3939	Office CARLSBAD				
Approved by (Signature) (Electronic Submission)		Office	234-3939					
Approved by (Signature) (Electronic Submission) Title Supervisor Multiple Resources Application approval does not warrant or certify that the applicant hol onduct operations thereon.	ds legal	Office CARLSBAD		oject lease which would e	ntitle the :	applicant to		
Approved by (Signature) (Electronic Submission) Title Supervisor Multiple Resources Application approval does not warrant or certify that the applicant hol 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 fo	Office CARLSBAD or equitable title to those righ	its in the sul					
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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.

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 Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Continued on page 3)

(Form 3160-3, page 2)

Additional Operator Remarks

Location of Well

SHL: SESW / 330 FSL / 2590 FWL / TWSP: 24S / RANGE: 31E / SECTION: 15 / LAT: 32.211013 / LONG: -103.765859 (TVD: 0 feet, MD: 0 feet)
PPP: NWSE / 330 FNL / 2310 FEL / TWSP: 24S / RANGE: 31E / SECTION: 27 / LAT: 32.18819 / LONG: -103.76353 (TVD: 12100 feet, MD: 20090 feet)
PPP: NWNE / 330 FNL / 2310 FEL / TWSP: 24S / RANGE: 31E / SECTION: 27 / LAT: 32.19547 / LONG: -103.76354 (TVD: 12100 feet, MD: 17450 feet)
PPP: NWNE / 330 FNL / 2310 FEL / TWSP: 24S / RANGE: 31E / SECTION: 22 / LAT: 32.2092 / LONG: -103.764612 (TVD: 12100 feet, MD: 12500 feet)
PPP: NWNE / 330 FNL / 2310 FEL / TWSP: 24S / RANGE: 31E / SECTION: 22 / LAT: 32.2092 / LONG: -103.764612 (TVD: 12100 feet, MD: 12500 feet)
PPP: NWSE / 330 FNL / 2310 FEL / TWSP: 24S / RANGE: 31E / SECTION: 22 / LAT: 32.20275 / LONG: -103.764512 (TVD: 12100 feet, MD: 14810 feet)
BHL: SWSE / 200 FSL / 2310 FEL / TWSP: 24S / RANGE: 31E / SECTION: 27 / LAT: 32.181618 / LONG: -103.764581 (TVD: 12100 feet, MD: 22100 feet)

BLM Point of Contact

Name: Judith Yeager Title: Legal Instruments Examiner Phone: 5752345936 Email: jyeager@blm.gov

(Form 3160-3, page 3)

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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.

Approval Date: 05/31/2018

(Form 3160-3, page 4)

NM OIL CONSERVATION

ARTESIA DISTRICT

JUN 27 2018

PECOS DISTRICT DRILLING OPERATIONS CONDITIONS OF APPROVAL

RECEIVED

OPERATOR'S NAME:	BOPCO LP
LEASE NO.:	NMNM0506A
WELL NAME & NO.:	Poker Lake Unit 15 TWR 125H
SURFACE HOLE FOOTAGE:	330'/S & 2590'/W
BOTTOM HOLE FOOTAGE	200'/S & 2310'/E sec. 27
LOCATION:	Section 15, T.24 S., R.31 E., NMPM
COUNTY:	Eddy County, New Mexico

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

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, 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 and Delaware. Abnormal pressures may be encountered penetrating the Wolfcamp.

Page 1 of 7

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 1020 feet (in a competent bed below the Magenta Dolomite, which is a Member of the Rustler, and if salt is encountered, set casing at least 25 feet 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 <u>24 hours</u> and 500 pounds compressive strength, whichever is greater. (This is to include the lead cement) <u>See Potash requirements below</u>
 - 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.
- 2. 9-5/8" Intermediate is to be kept 2/3rds liquid filled while running in hole to meet BLM minimum collapse safety factor.
- 3. 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. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash.
- 4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement to surface (As proposed by operator). If cement does not circulate see B.1.a, c-d above.

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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 <u>5000 (5M)</u> 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.

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- 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.
- 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 <u>24</u> hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> 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 <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. <u>Provide compressive strengths including hours to reach required 500 pounds</u> <u>compressive strength prior to cementing each casing string. Have well specific</u> <u>cement details onsite prior to pumping the cement for each casing string</u>.
- 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. <u>5M or higher system requires an HCR valve, remote kill line and annular to match</u>. 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 <u>multi-bowl wellhead</u> 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. <u>In potash areas</u>, 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. <u>BOP/BOPE must be tested by an independent service company within</u> <u>500 feet of the top of the Wolfcamp formation if the time between the</u> <u>setting of</u> 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.

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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 030618

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NM OIL CONSERVATION ARTESIA DISTRICT

JUN 27 2018

RECEIVED

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Bopco LP
LEASE NO.:	NMNM0506A
WELL NAME & NO.:	Poker Lake Unit 15 TWR 125H
SURFACE HOLE FOOTAGE:	330'/S & 2590'/W
BOTTOM HOLE FOOTAGE	200'/S & 2310'/E
LOCATION:	Section 15, T.24 S., R.31 E., NMPM
COUNTY:	Eddy County, New Mexico

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
Lesser Prairie-Chicken Timing Stipulations
Below Ground-level Abandoned Well Marker
Watershed
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

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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.

Page 2 of 20

V. SPECIAL REQUIREMENT(S)

Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

Below Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

Watershed:

The entire well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. 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 berm shall be maintained through the life of the well and 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. 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 $\frac{1}{2}$ 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.

Page 3 of 20

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)

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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

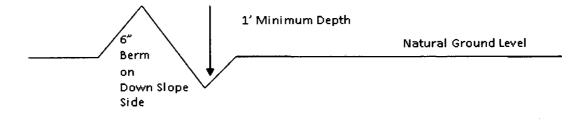
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping 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 foot road with 4% road slope: $\frac{400'}{4\%}$ + 100' = 200' 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.

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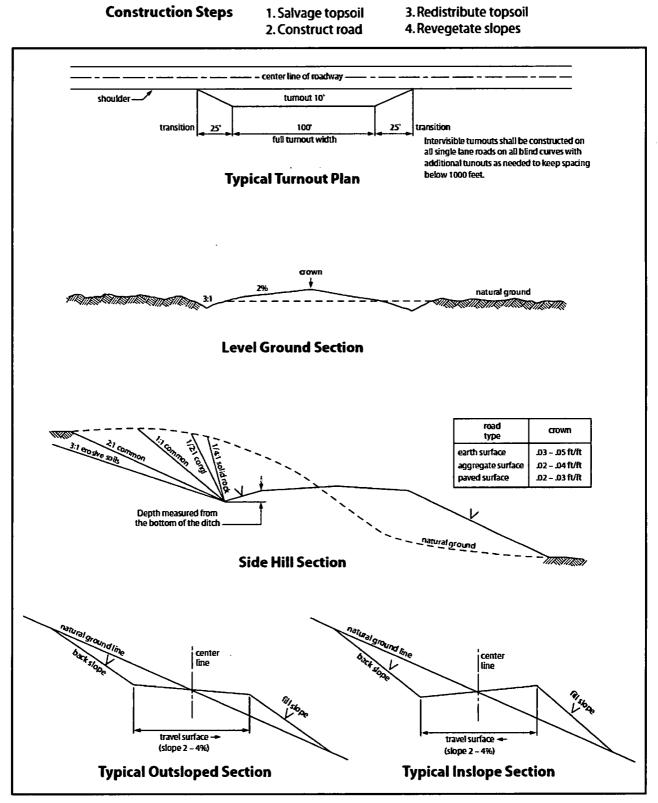


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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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, <u>Shale Green</u> 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.

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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 rightof-way width of <u>20</u> 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 of duney 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 <u>24</u> 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.

18. Special Stipulations:

a. <u>Lesser Prairie-Chicken</u>: Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted.

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.)

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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, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S C.6901, <u>et seq</u>.) 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-ofway.

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 <u>30</u> feet:

• Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed <u>20</u> feet. The trench is included in this area. (Blading is defined as the complete removal of brush and ground vegetation.)

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- Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed <u>30</u> 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 <u>6</u> 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.

() seed mixture 1	() seed mixture 3
() seed mixture 2	() seed mixture 4
(X) seed mixture 2/LPC	() 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. <u>Escape Ramps</u> - 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:

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- 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.

19. Special Stipulations:

Lesser Prairie-Chicken

Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

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

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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, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, <u>et seq</u>.) 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.

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

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 reserved 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).

Below Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

1

Page 19 of 20

Seed Mixture for LPC Sand/Shinnery Sites

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 <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed shall be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed shall be either certified or registered seed. The seed container shall 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). 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. Seeding shall be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth may 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:

Species

<u>lb/acre</u>

Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

*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

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. 1001 for the filing of false statements.

NAME: Kelly Kardos		Signed on: 11/15/2017
Title: Regulatory Coordi	nator	
Street Address:		
City: Midland	State: TX	Zip : 79701
Phone: (432)620-4374	,	
Email address: kelly_ka	ardos@xtoenergy.com	
Field Repres		
Representative Name	e:	
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

FAFMSS

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

APD ID: 10400024581

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 15 TWR

Well Type: CONVENTIONAL GAS WELL

Application Data Report 06/06/2018

Submission Date: 11/15/2017

Well Number: 125H

ighttented data

Show Final Text

Well Work Type: Drill

. .

APD ID: 10400024581 BLM Office: CARLSBAD	Tie to previous NOS?	Submission Date: 11/15/2017
BLM Office: CARLSBAD		
	User: Kelly Kardos	Title: Regulatory Coordinator
ederal/Indian APD: FED	Is the first lease penetra	ted for production Federal or Indian? FED
ease number: NMNM0000506A	Lease Acres: 1845.12	
Surface access agreement in place?	Allotted?	Reservation:
Agreement in place? YES	Federal or Indian agreer	nent: FEDERAL
Agreement number: NMNM071016X		
Agreement name:		
Keep application confidential? NO		
Permitting Agent? NO	APD Operator: BOPCO	LP
Operator letter of designation: PLU_	15_TWR_Op_Rights_201711	15093243.pdf

Operator Info									
Operator Organization Name: BOPCO LP									
Operator Address: 810 Houston Street	Zip : 76102								
Operator PO Box:	2.1µ . 70102								
Operator City: Fort Worth State: TX									
Operator Phone: (817)885-8200									
Operator Internet Address:									
Section 2 - Well Information									
Well in Master Development Plan? NO	Mater Development Plan name	:							
Well in Master SUPO? NO	Master SUPO name:								
Well in Master Drilling Plan? NO	Master Drilling Plan name:								
Well Name: POKER LAKE UNIT 15 TWR	Well Number: 125H	Well API Number:							
Field/Pool or Exploratory? Field and Pool	Field Name: DELWARE BASIN	Pool Name: PURPLE SAGE WOLFCAMP GAS							

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

0

259

0

0

FNL 231

FWL 24S

24S

FEL

31E 15

31E

22

FSL

Leg

#1 KOP

Leg

#1 PPP

Leg

#1

330

330

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Desc	cribe o	other	miner	als:																		
ls th	e proj	posed	well	in a H	elium	prod	uctio	on area?	N Use I	Existing W	/ell Pa	d? NO	Ne	ew :	surface (distur	bance	e?				
Туре	Type of Well Pad: MULTIPLE WELL									ple Well P				Number: 2								
Well	Well Class: HORIZONTAL								ER LAKE l ber of Leg		5 TWR											
Well	Work	Туре	: Drill																			
Well	Туре	: CON	VENT	IONA	L GAS	S WEI	-L															
Desc	ribe \	Nell T	ype:																			
Well	sub-1	уре:	DELI	NEATI	ON																	
Desc	ribe s	sub-ty	pe:																			
Dista	ance t	o tow	n:				Dis	tance to	nearest	well: 30 F1	r	Dist	tance t	o le	ase line	: 330	FT					
Rese	ervoir	well s	spacir	ng ass	igneo	l acre	s Me	asuremo	ent: 640 A	cres												
Well	plat:	PL	.U_15	_TWR	_125	H_C1	02_20	0171114	094628.pd	If												
Well	work	start	Date:	06/01	/2018				Durat	tion: 90 D/	AYS											
	Sec	tion	3 - 1	Vell	Loca	atior	Ta	ble														
Surv	ey Ty	pe: Rl	ECTA	NGUL	AR																	
Desc	ribe S	Surve	у Тур	e:																		
Datu	m: NA	D83							Vertic	al Datum		88										
Surv	ey nu	mber:																				
	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	ease Type	Lease Number	Elevation	DW	DVT				
SHL	330		259	FWL	· · · ·	31E	15		32.21101		EDD	NEW	t	F	NMNM	355	0	0				

103.7658 Y

103.7658 Y

103.7646 Y

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32.21101

32.2092

SESW 3

SESW 3

Aliquot

Aliquot

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NEW F

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NMNM

NMNM

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Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 15 TWR

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Well Number: 125H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	QW	TVD
PPP Leg #1	330	FNL	231 0	FEL	24S	31E	22	Aliquot NWSE	32.20275	- 103.7635 5	EDD Y	1	NEW MEXI CO	F	NMNM 000050 6	- 854 8	148 10	121 00
PPP Leg #1	330	FNL	231 0	FEL	24S	31E	27	Aliquot NWSE	32.18819	- 103.7635 3	EDD Y	NEW MEXI CO		F		- 854 8	200 90	121 00
PPP Leg #1	330	FNL	231 0	FEL	24S	31E	27	Aliquot NWNE	32.19547	- 103.7635 4	EDD / Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 000052 2A	- 854 8	174 50	121 00
EXIT Leg #1	330	FSL	231 0	FEL	24S	31E	27	Aliquot SWSE	32.18197 5	- 103.7645 82	EDD Y	NEW MEXI CO		F	NMNM 000118 1	- 854 8	21 <u>9</u> 70	121 00
BHL Leg #1	200	FSL	231 0	FEL	24S	31E	27	Aliquot SWSE	32.18161 8	- 103.7645 81 [:]	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 000118 1	- 854 8	221 00	121 00

GENERAL OFFICES - MIDLAND, TEXAS

BOPCO, L.P. 6401 Holiday Hill Road Midland, Tx 79707 (432) 683-2277 Stephanie Rabadue Regulatory Analyst XTO Energy Inc. / BOPCO, L.P. 500 W. Illinois St Ste 100 Midland, Texas 79701 (432) 620-6714 stephanie_rabadue@xtoenergy.com

November 2, 2017

Bureau of Land Management Carlsbad Field Office 620 E. Greene Street Carlsbad, NM 88220

RE: Operating Agreement/Rights for Poker Lake Unit Twin Wells Ranch Wells: Poker Lake Unit Twin Wells Ranch: 701H, 901H, 121H, 703H, 102H, 122H, 903H, 123H, 104H, 106H, 126H, 125H, 124H, 705H, 905H, 707H, 907H, 127H, 128H, 108H

To Whom It May Concern:

This is to hereby certify that BOPCO, L.P. has operating rights over leases: NMNM0001181, NMNM000543, NMNM0000522A, NMNM0000506, NMNM000506A, NMNM0030454 through acreage trades and acquisitions.

Sincerely,

Alestranie Rabadico

Stephanie Rabadue Regulatory Analyst XTO Energy, Inc. / BOPCO, L.P. Well Name: POKER LAKE UNIT 15 TWR

Well Number: 125H

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Choke Diagram Attachment:

PLU_15_TWR_125H_5M_Choke_20171115093611.pdf

BOP Diagram Attachment:

PLU_15_TWR_125H_5M_BOP_20171115093621.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 tength MD	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	1020	0	1020			1020	H-40	48	STC	1.65	1.31	DRY	6.58	DRY	6.58
	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	4270	0	4270			4270	J-55	40	LTC	1.91	1.06	DRY	3.38	DRY	3.38
3	PRODUCTI ON	8.5	5.5	NEW	API	N	0	22507	0	12129			22507	P- 110	17	BUTT	1.19	1.15	DRY	1.94	DRY	1.94

Casing Attachments

Casing ID: 1

String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_15_TWR_125H_Csg_20180330090144.pdf

Casing Attachments

	Casing ID: 2	String Type: INTERMEDIAT	E			
	Inspection Document:					
	Spec Document:			• ·		
	Tapered String Spec:					
	Casing Design Assump	tions and Worksheet(s):				
	PLU_15_TWR_12	5H_Csg_20180330090228.pdf				
_					·	

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_15_TWR_125H_Csg_20180330090246.pdf

Section	4 - Ce	emen	t								
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1020	530	1.87	12.9	991		EconoCem- HLTRRC	None
SURFACE	Tail		0	1020	300	1.35	14.8	405		HalCem-C	2% CaCl
INTERMEDIATE	Lead		0	4270	1250	1.88	12.9	2350		HalCem-C	2% CaCl
INTERMEDIATE	Tail		0	4270	230	1.33	14.8	305.9		HalCem-C	2% CaCl
PRODUCTION	Lead		0	2250 7	840	2.69	10.5	2259. 6		NeoCem	None

Well Name: POKER LAKE UNIT 15 TWR

Well Number: 125H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		0		2640	1.61	13.2	4250. 4		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 a 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 (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1020	4270	OTHER : Brine/Gel Sweeps	9.8	10.2							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 hrs to determine: density, viscosity, strength, filtration and pH as necessary. Solids control equipment will be used to operate as a closed loop system.
0	1020	OTHER : FW/Native	8.4	8.8							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 hrs to determine: density, viscosity, strength, filtration and pH as necessary. Solids control equipment will be used to operate as a closed loop system.

Well Name: POKER LAKE UNIT 15 TWR

Well Number: 125H

Anticipated Surface Pressure: 3644

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Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
4270	2210 0	OTHER : FW/Cut Brine	10	10.3							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 hrs to determine: density, viscosity, strength, filtration and pH as necessary. Solids control equipment will be used to operate as a closed loop system.

Section 6 - Test, Logging, Coring

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

Mud logging unit (2 man) on @ 4270'. Catch 20' Samples from 4270' to TD

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

CBL,CNL,GR,MUDLOG

Coring operation description for the well:

No coring will take place on this well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6306

Anticipated Bottom Hole Temperature(F): 180

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

PLU_15_TWR_H2S_Plan_20171115094206.pdf

Well Name: POKER LAKE UNIT 15 TWR

PLU_15_TWR_Pad_3_H2S_Dia_20171115094224.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

PLU_15_TWR_125H_DD_20171115094401.pdf

Other proposed operations facets description:

Ale and stand the dimensional states

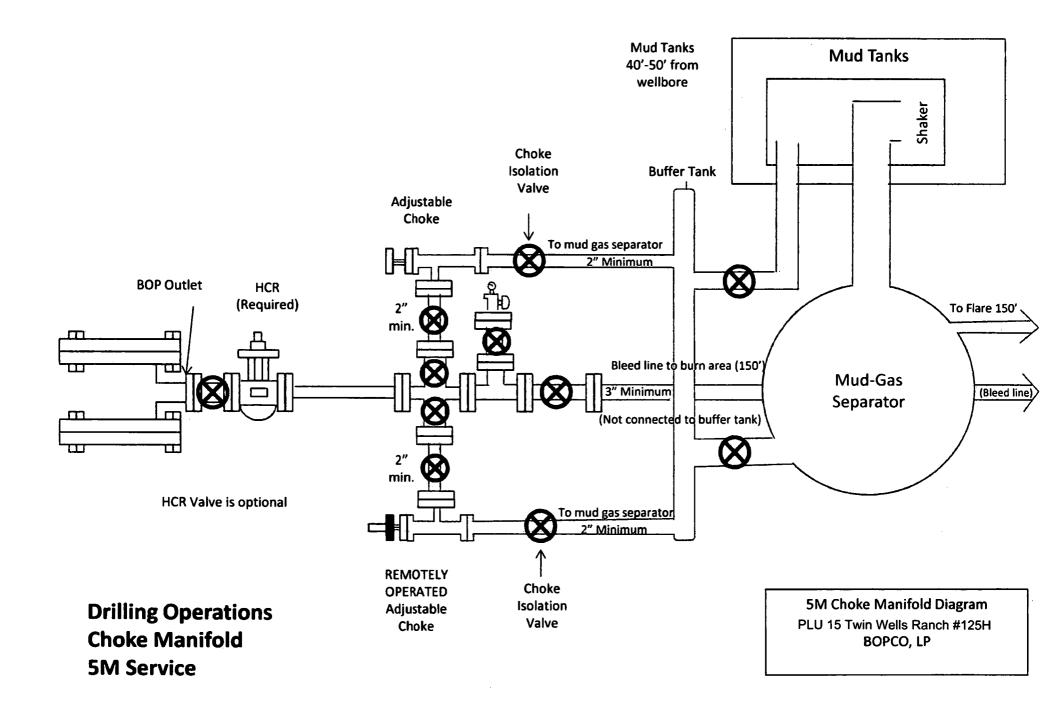
Other proposed operations facets attachment:

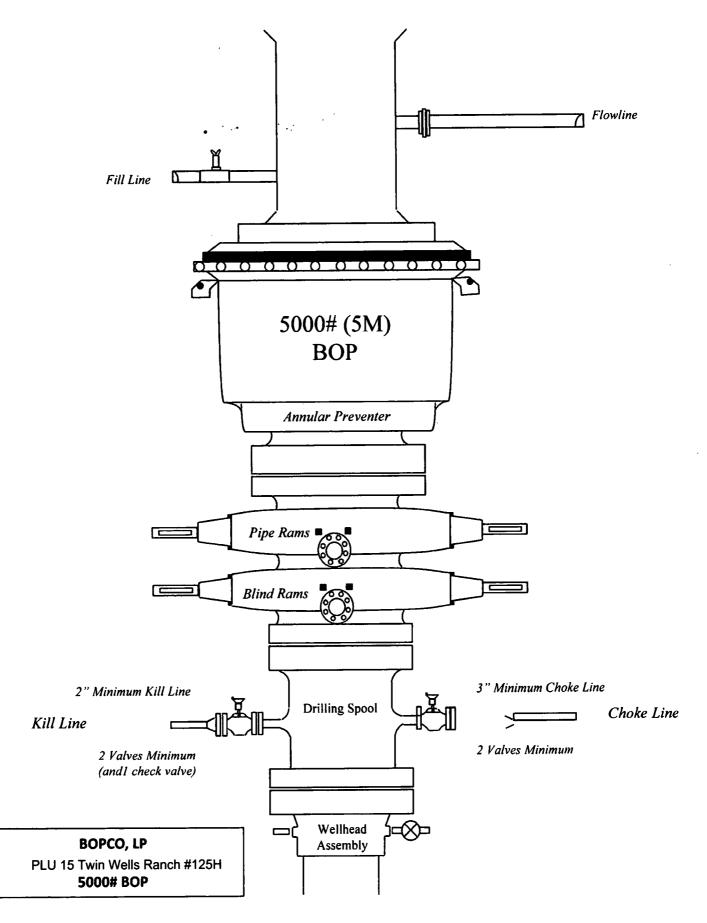
PLU 15 TWR_125H_GCPE_20171115094414.pdf

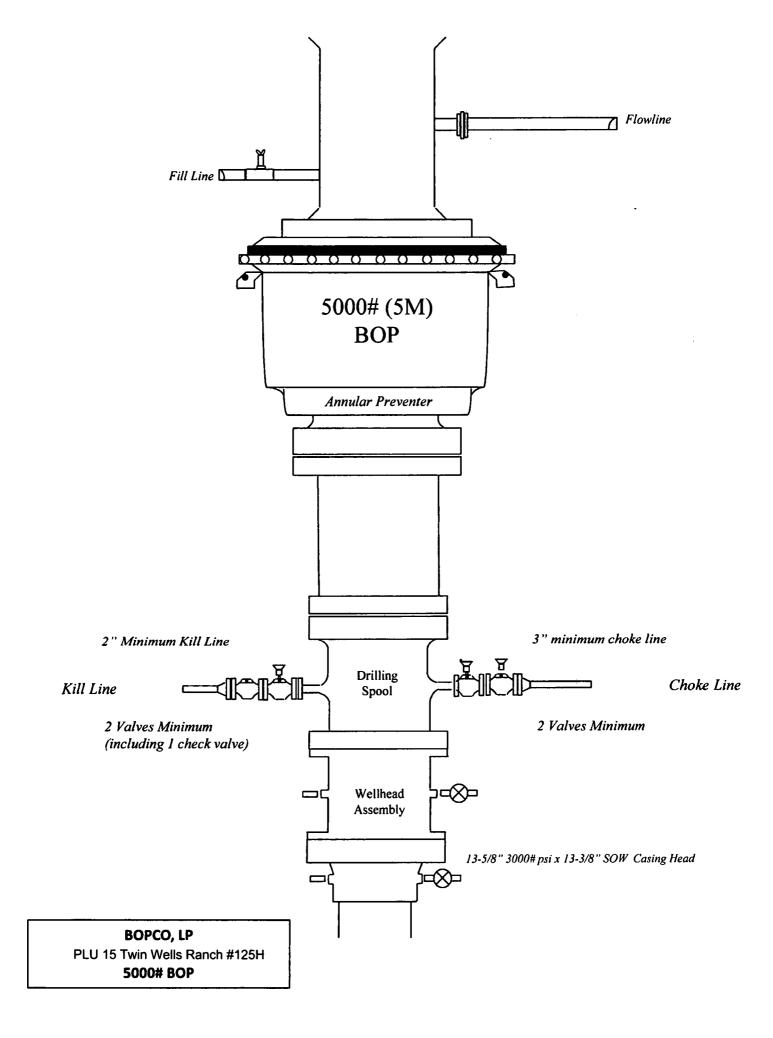
PLU_15_TWR_125H_GCPW_20171115094434.pdf

Other Variance attachment:

PLU_15_TWR_FH_20171115094458.pdf







BOPCO, LP

PLU 15 Twin Wells Ranch 125H Projected TD: 22507' MD / 12129' TVD SHL: 330' FSL & 2590' FWL , Section 15, T24S, R31E BHL: 200' FSL & 2310' FEL , Section 27, T24S, R31E Eddy County, NM

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' - 1020'	13-3/8"	48#	STC	H-40	New	1.31	1.65	6.58
12-1/4"	0'∶– 4270'	9-5/8"	40#	LTC	J-55	New	1.06	1.91	3.38
8-1/2"	0' – 22507'	5-1/2"	17#	BTC	P-110	New	1.12	1.19	1.94

Casing Worksheet

BOPCO, LP

PLU 15 Twin Wells Ranch 125H Projected TD: 22507' MD / 12129' TVD SHL: 330' FSL & 2590' FWL , Section 15, T24S, R31E BHL: 200' FSL & 2310' FEL , Section 27, T24S, R31E Eddy County, NM

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8-1/2"	0' – 22507'	5-1/2"	17#	BTC	P-110	New	1.12	1.19	1.94

Casing Worksheet

BOPCO, LP

PLU 15 Twin Wells Ranch 125H Projected TD: 22507' MD / 12129' TVD SHL: 330' FSL & 2590' FWL , Section 15, T24S, R31E BHL: 200' FSL & 2310' FEL , Section 27, T24S, R31E Eddy County, NM

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8-1/2"	0' – 22507'	5-1/2"	17#	BTC	P-110	New	1,12	1.19	1.94

1

Casing Worksheet

GENERAL OFFICES - MIDLAND, TEXAS

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.

Chemical **Specific Gravity** Threshold Limit Hazardous Limit Common Name **Lethal Concentration** Formula Hydrogen Sulfide H₂S 1.189 Air = I 10 ppm 100 ppm/hr 600 ppm Sulfur Dioxide SO₂ 2.21 Air = I N/A 1000 ppm 2 ppm

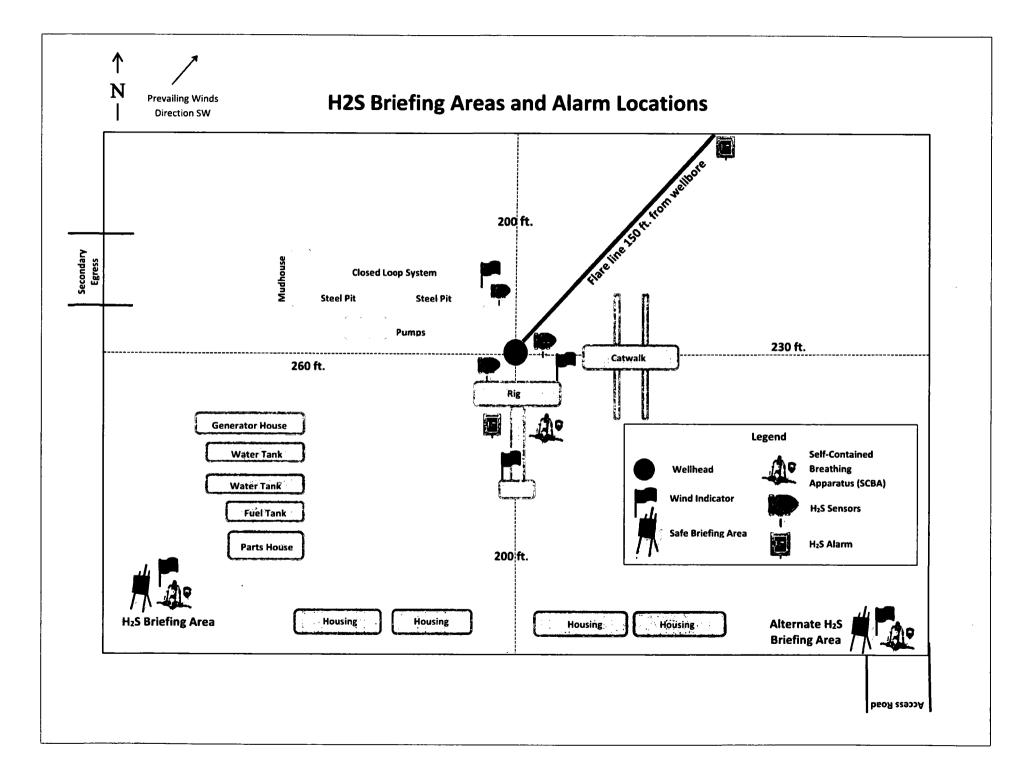
Characteristics of H₂S and SO₂

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



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XTO Energy Eddy County, NM (NAD-27) PLU 15 Twin Wells Ranch #125H

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OH

Plan: PERMIT

Standard Planning Report

24 October, 2017

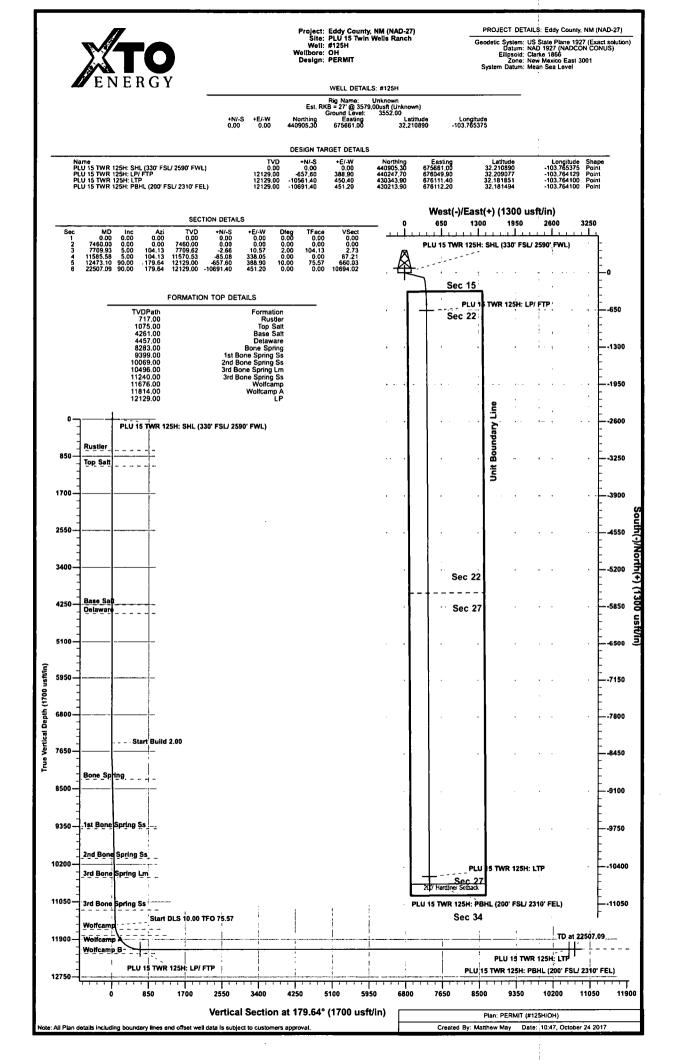
NM OIL CONSERVATION

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ARTESIA DISTRICT

JUN 27 2018

RECEIVED





www.prototypewellplanning.com Planning Report

atabase:	EDM 5000.1 Single User Db XTO Energy				Local Co	o-ordinate Re		Well #125H Est, RKB = 27' @ 3579.00usft (Unknown)			
ompany:					TVD Ref	erence:			•	· ·	
roject:		County, NM (MD Refe			Est. RKB = 27'	@ 3579.00u	isft (Unknown)	
lite:		15 Twin Wells	Ranch			ference:		Grid	-4		
Vell:	#125	1			Survey C	Calculation N	lethod:	Minimum Curva	ature		
Vellbore:	OH	41 -									
Design:	PERM	ni i		<u>.</u>							
Project	Eddy C	County, NM (N	NAD-27)								
Map System: Geo Datum:		e Plane 1927 27 (NADCON		ion)	System D	atum:	Me	ean Sea Level			
Map Zone:	New Me	exico East 300	01								
Site	PLU 1	5 Twin Wells	Ranch								
Site Position:			North	ning:	440,8	864.90 usft	Latitude:			32.21080	
From:	Maj	р	Easti	ng:	674,2	201.10 usft	Longitude:			-103.77009	
Position Uncert	ainty:	0.00) usft Slot	Radius:		13-3/16 "	Grid Conve	rgence:		0.30	
Well	#125H										
Well Position	+N/-S	40.4	0 usft N	orthing:		440,905.30	usft Lat	itude:		32.21089	
	+E/-W	1,459.9	-	asting:		675,661.00	usft Lor	ngitude:		-103.76537	
										3,552.00 us	
Position Uncert		0.0	0 usft W	ellhead Eleva	ation:	0.00	usπ Gro	ound Level:		3,352.00 us	
	ainty	0.0)0 usft 🛛 W	-	ation:	0.00	usn Gro	ound Level:		3,002.00 us	
Position Uncert		0.0)0 usft W	-	ation:	0.00	usn Gro	ound Level:		3,002.00 03	
	ainty OH	0.0 del Name		-	ation: Declina (°)	ation	usπ Gro Dip A ('	ngle		Strength T)	
Wellbore	ainty OH		Sampl	ellhead Eleva	Declina	ation	Dip A	ngle		itrength	
Wellbore	ainty OH	del Name IGRF2015	Sampl	ellhead Eleva	Declina	ation	Dip A	ngle ')		itrength IT)	
Wellbore Magnetics Design	ainty OH Mo	del Name IGRF2015	Sampl	ellhead Eleva	Declina	ation	Dip A	ngle ')		itrength IT)	
Wellbore Magnetics Design Audit Notes:	ainty OH Mo	del Name IGRF2015	Sampl	e Date 0/24/2017	Declina	ation 7.00	Dip A	(ngle ?) 60.02		itrength IT)	
Wellbore Magnetics Design Audit Notes: Version:	ainty OH Mo	del Name IGRF2015 IIT	Sampl	e Date 0/24/2017 se: P	Declin: (°)	ation 7.00 Tie	Dip A ('	ngle ') 60.02	(n	itrength IT)	
Wellbore Magnetics Design Audit Notes: Version:	ainty OH Mo	del Name IGRF2015 IIT	Sampi 1 Phas	e Date 0/24/2017 se: P	Declina (°)	ation 7.00 Tia +E	Dip A (' • On Depth:	ngle ') 60.02 Dire	(n 	itrength IT)	
Wellbore Magnetics Design Audit Notes: Version:	ainty OH Mo	del Name IGRF2015 IIT	Sampi 1 Phas epth From (1	e Date 0/24/2017 se: P	Declina (°) LAN +N/-S	ation 7.00 Tic +E (u	Dip A (* • On Depth:	ngle () 60.02 Dire	(n 0.00 ection	itrength IT)	
Wellbore Magnetics	ainty OH Mo	del Name IGRF2015 IIT	Sampi 1 Phas epth From (1 (usft)	e Date 0/24/2017 se: P	Declina (°) LAN +N/-S (usft)	ation 7.00 Tic +E (u	Dip A (* • On Depth: :/-W sft)	ngle () 60.02 Dire	(n 0.00 ection (°)	itrength IT)	
Wellbore Magnetics Design Audit Notes: Version: Vertical Section	ainty OH Mo	del Name IGRF2015 IIT	Sampi 1 Phas epth From (1 (usft)	e Date 0/24/2017 se: P	Declina (°) LAN +N/-S (usft)	ation 7.00 Tic +E (u	Dip A (* • On Depth: :/-W sft)	(ngle) 60.02 Dire	(n 0.00 ection (°)	itrength IT)	
Wellbore Magnetics Design Audit Notes: Version: Vertical Sections Plan Sections Measured	ainty OH Mo	del Name IGRF2015 IIT	Sampl 11 Phas epth From (T (usft) 0.00	e Date 0/24/2017 se: P	Declina (°) LAN +N/-S (usft)	ation 7.00 Tie +E (u 0.	Dip A (* e On Depth: :/-W sft) .00	(ngle) 60.02 Dire (17 Turn Rate	(n 0.00 ection (°)	itrength IT)	
Wellbore Magnetics Design Audit Notes: Version: Vertical Sections Plan Sections Measured Depth Inc	ainty OH Mod PERM	del Name IGRF2015 IIT De Azimuth	Sampl 11 Phase Pha	e Date 0/24/2017 se: P VD) +N/-S	Declin: (°) LAN +N/-S (usft) 0.00 +E/-W	ation 7.00 Tid +E (u 0. Dogleg Rate	Dip A (* e On Depth: /-W sft) .00 Build Rate	(ngle) 60.02 Dire (17 Turn Rate	(n 0.00 ection (°) 9.64 TFO (°) 0.00	itrength iT) 47,873	
Wellbore Magnetics Design Audit Notes: Version: Vertical Sections Plan Sections Measured Depth Ind (usft)	ainty OH Mod PERM I: clination (°)	del Name IGRF2015 IIT De Azimuth (°)	Sampl 1 Phas epth From (1 (usft) 0.00 Vertical Depth (usft)	e Date 0/24/2017 se: P VD) +N/-S (usft)	Declina (°) LAN +N/-S (usft) 0.00 +E/-W (usft)	ation 7.00 Tid +E (u 0. Dogleg Rate (°/100usft)	Dip A (* • On Depth: /-W sft) 00 Build Rate (*/100usft)	ngle) 60.02 Dire (17 Turn Rate (°/100usft)	(n 0.00 ection (°) 9.64 TFO (°)	itrength iT) 47,873	
Wellbore Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth Ind (usft) 0.00	ainty OH Mod PERM I: clination (°) 0.00	del Name IGRF2015 IIT De Azimuth (°) 0.00	Sampl 1 Phase Phas	e Date 0/24/2017 se: P VD) +N/-S (usft) 0.00	Declina (°) LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00	ation 7.00 Tid +E (u 0. Dogleg Rate (°/100usft) 0.00	Dip A (* • On Depth: /-W sft) 00 Build Rate (*/100usft) 0.00	Ungle) 60.02 Dire (17 Turn Rate (°/100usft) 0.00	(n 0.00 ection (°) 9.64 TFO (°) 0.00	strength nT) 47,873	
Wellbore Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth Ind (usft) 0.00 7,460.00	ainty OH Mod PERM I: clination (°) 0.00 0.00	del Name IGRF2015 IIT De Azimuth (°) 0.00 0.00	Sampl Phase	e Date 0/24/2017 se: P VD) +N/-S (usft) 0.00 0.00	Declina (°) LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00	ation 7.00 Tid +E (u 0. Dogleg Rate (°/100usft) 0.00 0.00	Dip A (* • On Depth: /-W sft) .00 Build Rate (*/100usft) 0.00 0.00	Ungle 60.02 Dire (°/ Turn Rate (°/100usft) 0.00 0.00	(n 0.00 ection (°) 9.64 TFO (°) 0.00 0.00	itrength iT) 47,873	
Wellbore Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth Ind (usft) 0.00 7,460.00 7,709.93	ainty OH Mod PERM I: clination (°) 0.00 0.00 5.00	del Name IGRF2015 IIT De Azimuth (°) 0.00 0.00 104.13	Sampl 11 Pha: epth From (1 (usft) 0.00 Vertical Depth (usft) 0.00 7,460.00 7,709.62	e Date 0/24/2017 se: P VD) +N/-S (usft) 0.00 0.00 -2.66	Declina (°) LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 10.57	ation 7.00 Tid +E (u 0. Dogleg Rate (°/100usft) 0.00 0.00 2.00	Dip A (* • On Depth: /-W sft) 00 Build Rate (*/100usft) 0.00 0.00 2.00	Ungle) 60.02 Dire (°/ 17 Turn Rate (°/100usft) 0.00 0.00 0.00	(n 0.00 ection (°) 9.64 TFO (°) 0.00 0.00 104.13 0.00	itrength iT) 47,873	



Planning Report

LINE NOT	· · ·		
Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #125H
Company:	XTO Energy	TVD Reference:	Est. RKB = 27' @ 3579.00usft (Unknown)
Project:	Eddy County, NM (NAD-27)	MD Reference:	Est. RKB = 27' @ 3579.00usft (Unknown)
Site:	PLU 15 Twin Wells Ranch	North Reference:	Grid
Well:	#125H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH	-	
Design:	PERMIT		,

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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 3,600.00 3,700.00 3,800.00 3,800.00 3,900.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	3,500.00 3,600.00 3,700.00 3,800.00 3,900.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 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 4,600.00 4,700.00 4,800.00 4,900.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	4,500.00 4,600.00 4,700.00 4,800.00 4,900.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
5,000.00 5,100.00 5,200.00 5,300.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	5,000.00 5,100.00 5,200.00 5,300.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00

COMPASS 5000.1 Build 76

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Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	EDM 5000.1 Single User Db XTO Energy Eddy County, NM (NAD-27) PLU 15 Twin Wells Ranch #125H OH PERMIT	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Well #125H Est. RKB = 27' @ 3579.00usft (Unknown) Est. RKB = 27' @ 3579.00usft (Unknown) Grid Minimum Curvature
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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 5,600.00 5,700.00 5,800.00 5,900.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	5,500.00 5,600.00 5,700.00 5,800.00 5,900.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	6,000.00 6,100.00 6,200.00 6,300.00 6,400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6,000.00 6,100.00 6,200.00 6,300.00 6,400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	6,500.00 6,600.00 6,700.00 6,800.00 6,900.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6,500.00 6,600.00 6,700.00 6,800.00 6,900.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	7,000.00 7,100.00 7,200.00 7,300.00 7,400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	7,000.00 7,100.00 7,200.00 7,300.00 7,400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
1	7,460.00 7,500.00 7,600.00 7,709.93 7,800.00	0.00 0.80 2.80 5.00 5.00	0.00 104.13 104.13 104.13 104.13	7,460.00 7,500.00 7,599.94 7,709.62 7,799.34	0.00 -0.07 -0.83 -2.66 -4.57	0.00 0.27 3.32 10.57 18.18	0.00 0.07 0.86 2.73 4.69	0.00 2.00 2.00 2.00 0.00	0.00 2.00 2.00 2.00 0.00	0.00 0.00 0.00 0.00 0.00
	7,900.00 8,000.00 8,100.00 8,200.00 8,300.00	5.00 5.00 5.00 5.00 5.00	104.13 104.13 104.13 104.13 104.13 104.13	7,898.96 7,998.58 8,098.20 8,197.82 8,297.44	-6.70 -8.83 -10.95 -13.08 -15.21	26.63 35.08 43.53 51.98 60.43	6.87 9.05 11.23 13.41 15.59	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	8,400.00 8,500.00 8,600.00 8,700.00 8,800.00	5.00 5.00 5.00 5.00 5.00	104.13 104.13 104.13 104.13 104.13 104.13	8,397.06 8,496.68 8,596.30 8,695.92 8,795.54	-17.34 -19.46 -21.59 -23.72 -25.84	68.88 77.32 85.77 94.22 102.67	17.77 19.95 22.13 24.31 26.49	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	8,900.00 9,000.00 9,100.00 9,200.00 9,300.00	5.00 5.00 5.00 5.00 5.00	104.13 104.13 104.13 104.13 104.13 104.13	8,895.16 8,994.78 9,094.40 9,194.02 9,293.64	-27.97 -30.10 -32.22 -34.35 -36.48	111.12 119.57 128.02 136.47 144.92	28.67 30.85 33.03 35.21 37.39	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	9,400.00 9,500.00 9,600.00 9,700.00 9,800.00	5.00 5.00 5.00 5.00 5.00 5.00	104.13 104.13 104.13 104.13 104.13 104.13	9,393.26 9,492.88 9,592.49 9,692.11 9,791.73	-38.60 -40.73 -42.86 -44.98 -47.11	153.37 161.82 170.27 178.72 187.17	39.56 41.74 43.92 46.10 48.28	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	9,900.00 10,000.00 10,100.00 10,200.00 10,300.00	5.00 5.00 5.00 5.00 5.00	104.13 104.13 104.13 104.13 104.13 104.13	9,891.35 9,990.97 10,090.59 10,190.21 10,289.83	-49.24 -51.36 -53.49 -55.62 -57.74	195.62 204.07 212.52 220.97 229.42	50.46 52.64 54.82 57.00 59.18	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	10,400.00 10,500.00 10,600.00	5.00 5.00 5.00	104.13 104.13 104.13	10,389.45 10,489.07 10,588.69	-59.87 -62.00 -64.12	237.87 246.32 254.77	61.36 63.54 65.72	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00



Planning Report

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1 2 1 L		·	
Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well#125H
Company:	XTO Energy	TVD Reference:	Est. RKB = 27' @ 3579.00usft (Unknown)
Project:	Eddy County, NM (NAD-27)	MD Reference:	Est. RKB = 27' @ 3579.00usft (Unknown)
Site:	PLU 15 Twin Wells Ranch	North Reference:	Grid
Well:	#125H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН	-	
Design:	PERMIT		·
Planned Supres	•		•

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	104.13	10,688.31	-66.25	263.22	67.90	0.00	- 0.00	0.00
10,800.00	5.00	104.13	10,787.93	-68.38	271.67	70.08	0.00	0.00	0.00
10,900.00	5.00	104.13	10,887.55	-70.50	280,12	72.26	0.00	0.00	0.00
11,000.00	5.00	104.13	10,987.17	-72.63	288.57	74.44	0.00	0.00	0.00
11,100.00	5.00	104.13	11,086.79	-74.76	297.02	76.62	0.00	0.00	0.00
11,200.00	5.00	104.13	11,186.41	-76.88	305.47	78.80	0.00	0.00	0.00
11,300.00	5.00	104.13	11,286.03	-79.01	313.92	80,98	0.00	0.00	0.00
11,400.00	5.00	104.13	11,385.65	-81,14	322.37	83.16	0.00	0.00	0.00
11,500.00	5.00	104.13	11,485.27	-83.26	330.82	85.34	0.00	0.00	0.00
11,585.58	5.00	104.13	11,570.53	-85.08	338.05	87.21	0.00	0.00	0.00
11,600.00	5.54	118.76	11,584.88	-85.57	339.27	87.70	10.00	3.73	101.47
11,650.00	9.08	147.64	11,634.48	-90.07	343.50	92.22	10.00	7.09	57.77
11,700.00	13.57	159.10	11,683.50	-98.88	347.70	101.07	10.00	8.98	22.92
11,750.00	18.32	164.83	11,731.57	-111.96	351.85	114.16	10.00	9.50	11.45
11,800.00	23.17	168.23	11,778.32	-129.18	355.92	131.42	10.00	9.71	6.82
11,850.00	28.08	170.51	11,823.39	-150.43	359.87	152.69	10.00	9.81	4.55
11,900.00	33.01	172.15	11,866.44	-175.54	363.67	177.83	10.00	9.86	3.29
11,950.00	37.95	173.41	11,907.14	-204.33	367.30	206.63	10.00	9.89	2.52
12,000.00	42.91	174.42	11,945.19	-236.56	370.72	238.89	10.00	9.91	2.01
12,050.00	47.88	175.25	11,980.29	-272.01	373.91	274.35	10.00	9.93	1.67
12,100.00	52.85	175.96	12,012.17	-310.38	376.85	312.75	10.00	9.94	1.43
12,150.00	57.82	176.59	12,040.61	-351.41	379.51	353.79	10.00	9.95	1.25
12,200.00	62.80	177.15	12,065.37	-394.77	381.88	397.16	10.00	9.95	1.12
12,250.00	67.77	177.66	12,086.26	-440.12	383.93	442.53	10.00	9.96	1.02
12,300.00	72.75	178.14	12,103.14	-487.14	385.65	489.55	10.00	9.96	0.95
12,350.00	77.73	178.59	12,115.87	-535.46	387.03	537.88	10.00	9.96	0.90
12,400.00	82.72	179.02	12,124.36	-584.70	388.05	587.13	10.00	9.96	0.87
12,450.00	87.70	179.45	12,128.54	-634.51	388.72	636.94	10.00	9.96	0.85
12,473.10	90.00	179.64	12,129.00	-657.60	388.90	660.03	10.00	9.96	0.84
12,500.00	90.00	179.64	12,129.00	-684.50	389.07	686.93	0.00	0.00	0.00
12,600.00	90.00	179.64	12,129.00	-784.50	389.69	786.93	0.00	0.00	0.00
12,700.00	90.00	179.64	12,129.00	-884.50	390.31	886.93	0.00	0.00	0.00
12,800.00	90.00	179.64	12,129.00	-984.50	390.93	986.93	0.00	0.00	0.00
12,900.00	90.00	179.64	12,129.00	-1,084.49	391.55	1,086.93	0.00	0.00	0.00
13,000.00	90.00	179.64	12,129.00	-1,184.49	392.17	1,186.93	0.00	0.00	0.00
13,100.00	90.00	179.64	12,129.00	-1,284.49	392.79	1,286.93	0.00	0.00	0.00
13,200.00	90.00	179.64	12,129.00	-1,384.49	393.41	1,386.93	0.00	0.00	0.00
13,300.00	90.00	179.64	12,129.00	-1,484.49	394.03	1,486.93	0.00	0.00	0.00
13,400.00	90.00	179.64	12,129.00	-1,584.48	394.66	1,586.93	0.00	0.00	0.00
13,500.00	90.00	179.64	12,129.00	-1,684.48	395.28	1,686.93	0.00	0.00	0.00
13,600.00	90.00 90.00	179.64 179.64	12,129.00	-1,784.48	395.90	1,786.93	0.00 0.00	0.00	0.00
13,700.00			12,129.00	-1,884.48	396.52	1,886.93		0.00	0.00
13,800.00	90.00	179.64	12,129.00	-1,984.48	397.14	1,986.93	0.00	0.00	0.00
13,900.00	90.00	179.64	12,129.00	-2,084.48	397.76	2,086.93	0.00	0.00	0.00
14,000.00	90.00	179.64	12,129.00	-2,184.47	398.38	2,186.93	0.00	0.00	0.00
14,100.00 14,200.00	90.00 90.00	179.64 179.64	12,129.00 12,129.00	-2,284.47 -2,384.47	399.00 399.62	2,286.93 2,386.93	0.00 0.00	0.00	0.00 0.00
14,300.00	90.00	179.64	12,129.00	-2,484.47	400.24	2,486.93	0.00	0.00	0.00
14,400.00	90.00	179.64	12,129.00	-2,584.47	400.86	2,586.93	0.00	0.00	0.00
14,500.00	90.00	179.64 179.64	12,129.00 12,129.00	-2,684.46	401.48	2,686.93	0.00	0.00	0.00
14,600.00 14,700.00	90.00 90.00	179.64	12,129.00	-2,784.46 -2,884.46	402.11 402.73	2,786.93 2,886.93	0.00 0.00	0.00	0.00 0.00
14,800.00 14,900.00	90.00 90.00	179.64 179.64	12,129.00 12,129.00	-2,984.46 -3,084.46	403.35 403.97	2,986.93 3,086.93	0.00 0.00	0.00 0.00	0.00 0.00
17,000.00			12,120.00	0,004.40		0,000.00	0.00	0.00	0.00

COMPASS 5000.1 Build 76



Planning Report

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)
15.000.00	90.00	179.64	12,129.00	-3,184.45	404.59	3,186.93	0.00	0.00	0.00
15,100.00	90.00	179.64	12,129.00	-3,284.45	405.21	3,286.93	0.00	0.00	0.00
15,200.00	90.00	179.64	12,129.00	-3,384.45	405.83	3,386.93	0.00	0.00	0.00
15,300.00	90.00	179.64	12,129.00	-3,484.45	406.45	3,486.93	0.00	0.00	0.00
15,400.00	90.00	179.64	12,129.00	-3,584.45	407.07	3,586.93	0.00	0.00	0.00
15,500.00	90.00	179.64	12,129.00	-3,684.44	407.69	3,686.93	0.00	0.00	0.00
15,600.00	90.00	179.64	12,129.00	-3,784.44	408.31	3,786.93	0.00	0.00	0.00
15,700.00	90.00	179.64	12,129.00	-3,884.44	408.94	3,886.93	0.00	0.00	0.00
15,800.00	90.00	179.64	12,129.00	-3,984.44	409.56	3,986.93	0.00	0.00	0.00
15,900.00	90.00	179.64	12,129.00	-4,084.44	410.18	4,086.93	0.00	0.00	0.00
16,000.00	90.00	179.64	12,129.00	-4,184.43	410.80	4,186.93	0.00	0.00	0.00
16,100.00	90.00	179.64	12,129.00	-4,284.43	411.42	4,286.93	0.00	0.00	0.00
16,200.00	90.00	179.64	12,129.00	-4,384.43	412.04	4,386.93	0.00	0.00	0.00
16,300.00	90.00	179.64	12,129.00	-4,484.43	412.66	4,486.93	0.00	0.00	0.00
16,400.00	90.00	179.64	12,129.00	-4,584.43	413.28	4,586.93	0.00	0.00	0.00
16,500.00	90.00	179.64	12,129.00	-4,684.43	413.90	4,686.93	0.00	0.00	0.00
16,600.00	90.00	179.64	12,129.00	-4,784.42	414.52	4,786.93	0.00	0.00	0.00 0.00
16,700.00	90.00	179.64	12,129.00	-4,884.42	415.14	4,886.93	0.00	0.00	
16,800.00	90.00	179.64	12,129.00	-4,984.42	415.77	4,986.93	0.00	0.00	0.00
16,900.00	90.00	179.64	12,129.00	-5,084.42	416.39	5,086.93	0.00	0.00	0.00 0.00
17,000.00	90.00	179.64	12,129.00	-5,184.42	417.01 417.63	5,186.93	0.00 0.00	0.00 0,00	0.00
17,100.00	90.00	179.64	12,129.00 12,129.00	-5,284.41 -5,384.41	417.65	5,286.93 5,386.93	0.00	0.00	0.00
17,200.00	90.00	179.64	-						
17,300.00	90.00	179.64	12,129.00	-5,484.41	418.87	5,486.93	0.00	0.00	0.00
17,400.00	90.00	179.64	12,129.00	-5,584.41	419.49	5,586.93	0.00 0.00	0.00	0.00 0.00
17,500.00	90.00	179.64	12,129.00	-5,684.41	420.11	5,686.93	0.00	0.00 0.00	0.00
17,600.00	90.00	179.64 179.64	12,129.00 12,129.00	-5,784.40 -5,884.40	420.73 421.35	5,786.93 5,886.93	0.00	0.00	0.00
17,700.00	90.00								
17,800.00	90.00	179.64	12,129.00	-5,984.40	421.97	5,986.93	0.00	0.00 0.00	0.00 0.00
17,900.00	90.00	179.64	12,129.00	-6,084.40	422.60 423.22	6,086.93 6,186.93	0.00 0.00	0.00	0.00
18,000.00	90.00 90.00	179.64 179.64	12,129.00 12,129.00	-6,184.40 -6,284.39	423.84	6,286.93	0.00	0.00	0.00
18,100.00 18,200.00	90.00	179.64	12,129.00	-6,384.39	424.46	6,386.93	0.00	0.00	0.00
				-		6,486.93	0.00	0.00	0.00
18,300.00	90.00 90.00	179.64 179.64	12,129.00 12,129.00	-6,484.39 -6,584.39	425.08 425.70	6,586.93	0.00	0.00	0.00
18,400.00 18,500.00	90.00	179.64	12,129.00	-6,684.39	426.32	6,686.93	0.00	0.00	0.00
18,600.00	90.00	179.64	12,129.00	-6,784.38	426.94	6,786.93	0.00	0.00	0.00
18,700.00	90.00	179.64	12,129.00	-6,884.38	427.56	6,886.93	0.00	0.00	0.00
18.800.00	90.00	179.64	12,129.00	-6,984.38	428.18	6,986.93	0.00	0.00	0.00
18,900.00	90.00	179.64	12,129.00	-7,084.38	428.80	7,086.93	0.00	0.00	0.00
19,000.00	90.00	179.64	12,129.00	-7,184.38	429.42	7,186.93	0.00	0.00	0.00
19,100.00	90.00	179.64	12,129.00	-7,284.37	430.05	7,286.93	0.00	0.00	0.00
19,200.00	90.00	179.64	12,129.00	-7,384.37	430.67	7,386.93	0.00	0.00	0.00
19,300.00	90.00	179.64	12,129.00	-7,484.37	431.29	7,486.93	0.00	0.00	0.00
19,400.00	90.00	179.64	12,129.00	-7,584.37	431.91	7,586.93	0.00	0.00	0.00
19,500.00	90.00	179.64	12,129.00	-7,684.37	432.53	7,686.93	0.00	0.00	0.00
19,600.00	90.00	179.64	12,129.00	-7,784.37	433.15	7,786.93	0.00	0.00	0.00
19,700.00	90.00	179.64	12,129.00	-7,884.36	433.77	7,886.93	0.00	0.00	0.00
19,800.00	90.00	179.64	12,129.00	-7,984.36	434.39	7,986.93	0.00	0.00	0.00
19,900.00	90.00	179.64	12,129.00	-8,084.36	435.01	8,086.93	0.00	0.00	0.00
20,000.00	90.00	179.64	12,129.00	-8,184.36	435.63	8,186.93	0.00	0.00	0.00
20,100.00	90.00	179.64	12,129.00	-8,284.36	436.25	8,286.93	0.00	0.00	0.00
20,200.00	90.00	179.64	12,129.00	-8,384.35	436.88	8,386.93	0.00	0.00	0.00
20,300.00	90.00	179.64	12,129.00	-8,484.35	437.50	8,486.93	0.00	0.00	0.00
10/24/2017 10:52:33	AM			Page 6				COM	APASS 5000 1 Bu

COMPASS 5000.1 Build 76



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Database: Company: Project: Site: Well: Wellbore: Design:	EDM 5000.1 Single User Db XTO Energy Eddy County, NM (NAD-27) PLU 15 Twin Wells Ranch #125H OH PERMIT	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Well#125H Est. RKB = 27' @ 3579.00usft (Unknown) Est. RKB = 27' @ 3579.00usft (Unknown) Grid Minimum Curvature
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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	90.00	179.64	12,129.00	-8,584.35	438.12	8,586.93	0.00	0.00	0.0
20,500.00	90.00	179.64	12,129.00	-8,684.35	438.74	8,686.93	0.00	0.00	0.0
20,600.00	90.00	179.64	12,129.00	-8,784.35	439.36	8,786.93	0.00	0.00	0.0
20,700.00	90.00	179.64	12,129.00	-8,884.34	439.98	8,886.93	0.00	0.00	0.0
20,800.00	90.00	179.64	12,129.00	-8,984.34	440.60	8,986.93	0.00	0.00	0.0
20,900.00	90.00	179.64	12,129.00	-9,084.34	441.22	9,086.93	0.00	0.00	0.0
21,000.00	90.00	179.64	12,129.00	-9,184.34	441.84	9,186.93	0.00	0.00	0.0
21,100.00	90.00	179.64	12,129.00	-9,284.34	442.46	9,286.93	0.00	0.00	0.0
21,200.00	90.00	179.64	12,129.00	-9,384.33	443.08	9,386.93	0.00	0.00	0.0
21,300.00	90.00	179.64	12,129.00	-9,484.33	443.71	9,486.93	0.00	0.00	0.0
21,400.00	90.00	179.64	12,129.00	-9,584.33	444.33	9,586.93	0.00	0.00	0.0
21,500.00	90.00	179.64	12,129.00	-9,684.33	444.95	9,686.93	0.00	0.00	0.
21,600.00	90.00	179.64	12,129.00	-9,784.33	445.57	9,786.93	0.00	0.00	0.
21,700.00	9 0.00	179.64	12,129.00	-9,884.32	446.19	9,886.93	0.00	0.00	0.
21,800.00	90.00	179.64	12,129.00	-9,984.32	446.81	9,986.93	0.00	0.00	0.
21,900.00	90.00	179.64	12,129.00	-10,084.32	447.43	10,086.93	0.00	0.00	. 0.
22,000.00	90.00	179.64	12,129.00	-10,184.32	448.05	10,186.93	0.00	0.00	0.
22,100.00	90.00	179.64	12,129.00	-10,284.32	448.67	10,286.93	0.00	0.00	0.
22,200.00	90.00	179.64	12,129.00	-10,384.32	449.29	10,386.93	0.00	0.00	0.
22,300.00	90.00	179.64	12,129.00	-10,484.31	449.91	10,486.93	0.00	0.00	0.
22,400.00	90.00	179.64	12,129.00	-10,584.31	450,54	10,586.93	0.00	0.00	0.
22,507.09	90.00	179.64	12,129.00	-10.691.40	451.20	10,694,02	0.00	0.00	0.

Target Name - hit/miss target D - Shape	ip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PLU 15 TWR 125H: S - plan hits target cen - Point	0.00 Iter	0.00	0.00	0.00	0.00	440,905.30	675,661.00	32.210890	-103.765376
PLU 15 TWR 125H: L - plan misses target - Point	0.00 center by		,	-10,561.40 Isft MD (1212	450.40 9.00 TVD, -1	430,343.90 10561.40 N, 450.3	676,111.40 39 E)	32.181852	-103.764100
PLU 15 TWR 125H: L - plan hits target cen - Point	0.00 Iter	0.01	12,129.00	-657.60	388.90	440,247.70	676,049.90	32.209077	-103.764130
PLU 15 TWR 125H: P - plan hits target cen - Point	0.00 Iter	0.00 ⁻	12,129.00	-10,691.40	451.20	430,213.90	676,112.20	32.181494	-103.764100



www.prototypewellplanning.com Planning Report

Databàse: Company: Project: Site: Well: Wellbore:	EDM 5000.1 Single User Db XTO Energy Eddy County, NM (NAD-27) PLU 15 Twin Wells Ranch #125H OH	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Well #125H Est. RKB = 27' @ 3579.00usft (Unknown) Est. RKB = 27' @ 3579.00usft (Unknown) Grid Minimum Curvature
Design:	PERMIT		

Formations

	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	717.00	717.00	Rustler				
	1,075.00	1,075.00	Top Salt				
	4,261.00	4,261.00	Base Salt				
	4,457.00	4,457.00	Delaware				
1	8,285.51	8,283.00	Bone Spring				
	9,405.77	9,399.00	1st Bone Spring Ss				
	10,078.32	10,069.00	2nd Bone Spring Ss				
	10,506.96	10,496.00	3rd Bone Spring Lm				
	11,253.80	11,240.00	3rd Bone Spring Ss				
	11,692.29	11,676.00	Wolfcamp				
	11,839.41	11,814.00	Wolfcamp A				
	12,473.10	12,129.00	LP				

District 1 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Azto M 87510 District IV 1220 S. St. France V., Santa Fe, NM 87560	State of New MexicoSubmit OriEnergy, Minerals and Natural Resources DepartmentSubmit OriOil Conservation DivisionDistrict Ori1220 South St. Francis Dr.Santa Fe, NM 87505	
Jun Date: <u>9/29/17</u> RECEIVED	GAS CAPTURE PLAN	
⊠ Original	Operator & OGRID No.: <u>BOPCO, LP [260737]</u>	
□ Amended - Reason for Amendment:_		

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility - Name of facility: PLU 15 Twin Wells Ranch East CTB

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location	Footages/	Expected	Flared or	Comments
		(ULSTR)		MCF/D	Vented	
PLU 15 Twin Wells Ranch 701H		M-15-24S-31E	300' FSL & 1130' FWL	2900	Flared/Sold	
PLU 15 Twin Wells Ranch 901H		M-15-24S-31E	330' FSL & 1130' FWL	3000	Flared/Sold	
PLU 15 Twin Wells Ranch 102H		M-15-24S-31E	360' FSL & 1130' FWL	2800	Flared/Sold	
PLU 15 Twin Wells Ranch 121H		M-15-24S-31E	390' FSL & 1,30' FWL	4800	Flared/Sold	
PLU 15 Twin Wells Ranch 122H		M-15-24S-31E	20' FSL & 1130' FWL	4800	Flared/Sold	
010,01.5 Kein Vedhakanel 19502		N-15-24S-31E	330' FSL & 2590' FWL	4300	Flared/Sold	
PLU 15 Twin Wells Ranch 705H		N-15-24S-31E	330' FSL & 2530' FWL	2600	Flared/Sold	
PLU 15 Twin Wells Ranch 905H		N-15-24S-31E	330' FSL & 2560' FWL	2700	Flared/Sold	
PLU 15 Twin Wells Ranch 104H		N-15-24S-31E	360' FSL & 1805' FWL	2800	Flared/Sold	
PLU 15 Twin Wells Ranch 123H		N-15-24S-31E	390' FSL & 1805' FWL	4800	Flared/Sold	
PLU 15 Twin Wells Ranch 124H		N-15-248-31E	420' FSL & 1805' FWL	3300	Flared/Sold	
PLU 15 Twin Wells Ranch 703H		N-15-24S-31E	300' FSL & 1805' FWL	2900	Flared/Sold	
PLU 15 Twin Wells Ranch 903H		N-15-24S-31E	330' FSL & 1805' FWL	3000	Flared/Sold	
PLU 15 Twin Wells Ranch 106H		0-15-24S-31E	360' FSL & 1965' FEL	2600	Flared/Sold	
PLU 15 Twin Wells Ranch 126H		O-15-24S-31E	390' FSL & 1965' FEL	4300	Flared/Sold	
PLU 15 Twin Wells Ranch 707H		0-15-24S-31E	300' FSL & 1965' FEL	2600	Flared/Sold	
PLU 15 Twin Wells Ranch 907H		O-15-24S-31E	330' FSL & 1965' FEL	2700	Flared/Sold	
PLU 15 Twin Wells Ranch 108H		P-15-24S-31E	330' FSL & 1230' FEL	2600	Flared/Sold	
PLU 15 Twin Wells Ranch 127H		P-15-24S-31E	330' FSL & 1260' FEL	4300	Flared/Sold	
PLU 15 Twin Wells Ranch 128H		P-15-24S-31E	330' FSL & 1230' FEL	4300	Flared/Sold	

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to <u>Enlink</u> and will be connected to <u>Enlink</u> low/high pressure gathering system located in <u>Loving</u> County, Texas. It will require <u>152'</u> of pipeline to connect the facility to low/high pressure gathering system. <u>BOPCO</u> provides (periodically) to <u>Enlink</u> a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, <u>BOPCO</u> and <u>Enlink</u> have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at <u>Enlink</u> Processing Plant located in <u>Block 27, Sec. 4</u>, Loving County, Texas. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on <u>Enlink</u> system at that time. Based on current information, it is <u>BOPCO's</u> belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
 - Compressed Natural Gas On lease

• Gas flared would be minimal, but might be uneconomical to operate when gas volume declines

- NGL Removal On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines



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

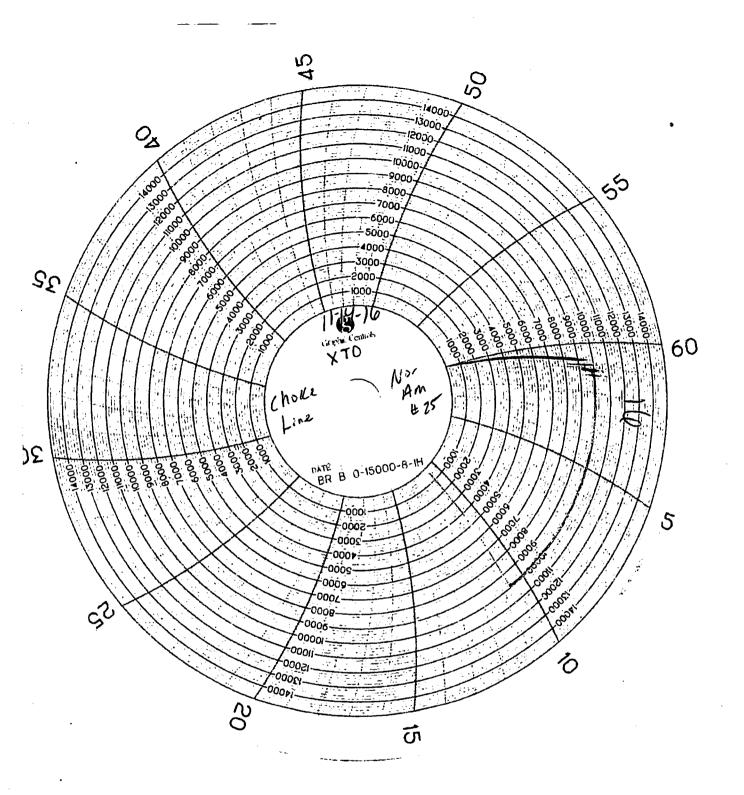
GRADE D PRESSURE TEST CERTIFICATE

Customer :	AUSTIN DISTRIBUTING	Test Date:		
Customer Ref. :	PENDING	Hose Senal Mo.:	6/8/2014	
Invoice No. :	. 201709		D-060814-1	
	201709	Created By:	NORI-1A	
Product Description:		FD3.042.0R41/16.5KFLGE/E		
		PD3.042.0K41/16.5KFLGE/E	LE	
End Filling 1 :	4 1/16 m.5K FLG	End Fitling 2 ·		
End Filling 1 :	4 1/16 m.5K FLG 4774-6001	End Filling 2 :	4 1/16 in.5K FLG	
· · · · · ·		End Fitting 2 : Assembly Code : Test Pressure :	4 1/16 in 5K FLG L33090011513D-060814-1	

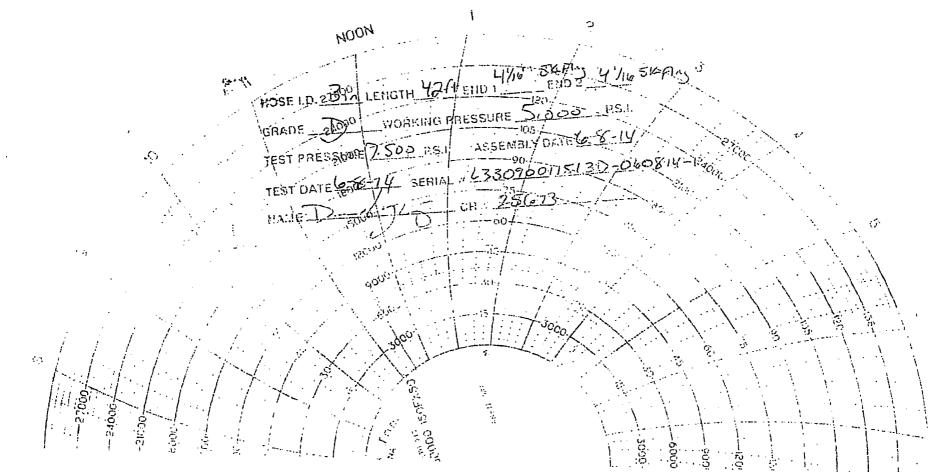
Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 7,500 psi in accordance 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: Date :	1 QUALITY	Technical Supervisor : Date :	
Signature :	MUMINI TTHE	Signature :	6/8/2014

Form PTC - 01 Rev.0 2



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

APD ID: 10400024581

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 15 TWR

Well Type: CONVENTIONAL GAS WELL

SUPO Data Report

Submission Date: 11/15/2017

Well Number: 125H Well Work Type: Drill



Show Final Text

Section 1 - Existing Roads

Will existing roads be used? NO

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

PLU_15_TWR_Access_20171115094553.pdf

New road type: RESOURCE

Length: 5035

Width (ft.): 30

Max slope (%): 2

Max grade (%): 3

Army Corp of Engineers (ACOE) permit required? NO

Feet

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:

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

Well Name: POKER LAKE UNIT 15 TWR

Well Number: 125H

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:**

Number of access turnouts: 1

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 DCS were identified at onsite. DCS will be applied for asneeded 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):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

PLU_15_TWR_1_Mile_20171115094628.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 15 TWR West CTB and the Eastern most facility is the PLU 15 TWR East CTB. The pads are located in Section 22-T24S-R31E 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

Well Name: POKER LAKE UNIT 15 TWR

Well Number: 125H

(operating pressure: 125psi) will be laid on the surface within proposed lease road corridors from the proposed wells to the PLU 15 TWR East CTB and the PLU 15 TWR 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 4077' 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 2 pipeline extending from the PLU 15 TWR East CTB and the PLU 15 TWR 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 15 TWR East GSL Approx. Length: 145'. PLU 15 TWR West GSL Approx. Length: 152'. 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 15 Twin Wells Ranch project, The flare stacks will be 50'x50'. 1 will be located on the PLU 15 TWR East Central Tank Battery. 1 will be located on the PLU 15 TWR 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. 12466' 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_15_TWR_Fac_East_20171115094658.pdf PLU_15_TWR_Fac_West_20171115094709.pdf PLU_15_TWR_Elec_20171115094720.pdf PLU_15_TWR_Flowlines_20171115094732.pdf PLU_15_TWR_GS_20171115094748.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

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

Source latitude:

Source longitude:

Source datum: NAD83

Water source permit type: PRIVATE CONTRACT, 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): 35000

Source volume (acre-feet): 4.511258

Well Name: POKER LAKE UNIT 15 TWR

Well Number: 125H

Source volume (gal): 1470000

Water source and transportation map:

PLU_15_TWR_125H_Wtr_20171115094828.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 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 target aquifer:

Est. depth to top of aquifer(ft):

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing outside diameter (in.):

New water well casing?

Drilling method:

Grout material:

Casing length (ft.):

Well Production type:

Water well additional information:

State appropriation permit:

Additional information attachment:

Well Longitude:

Well datum:

Est thickness of aquifer:

Well casing type: Well casing inside diameter (in.):

Used casing source:

Drill material:

Grout depth:

Casing top depth (ft.):

Completion Method:

Well Name: POKER LAKE UNIT 15 TWR

Well Number: 125H

Section 6 - Construction Materials

Construction Materials description: Native caliche. Source 1: Federal Caliche Pit, Section 32-T23S-R32E Source 2: Federal Caliche Pit, Section 10-T25S-R31E

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

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 Disposal location ownership: COMMERCIAL FACILITY

Disposal type description:

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

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 approve 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 Disposal location ownership: COMMERCIAL FACILITY

Disposal type description:

Disposal location description: A licensed 3rd party contractor will be used to haul and safely dispose 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:

Well Name: POKER LAKE UNIT 15 TWR

Well Number: 125H

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

Disposal type description:

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 Disposal location ownership: COMMERCIAL FACILITY

Disposal type description:

Disposal location description: A licensed 3rd party contractor will be used to haul and dispose 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 Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site.

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

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

Well Name: POKER LAKE UNIT 15 TWR

Well Number: 125H

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_15_TWR_125H_Maps_20171115094935.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: POKER LAKE UNIT 15 TWR

Multiple Well Pad Number: 2

Recontouring attachment:

PLU_15_TWR_Pad_1_Rec_20171115095026.pdf

PLU_15_TWR_Pad_2_Rec_20171115095038.pdf

PLU_15_TWR_Pad_3_Rec_20171115095050.pdf

PLU_15_TWR_Pad_4_Rec_20171115095103.pdf

PLU_15_TWR_Pad_5_Rec_20171115095113.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 gullying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.

Well pad proposed disturbance (acres): 23.07	Well pad interim reclamation (acres): 8.73	Well pad long term disturbance (acres): 14.34
Road proposed disturbance (acres):	Road interim reclamation (acres):	Road long term disturbance (acres):
3.47	0.001	3.47
Powerline proposed disturbance	Powerline interim reclamation (acres):	Powerline long term disturbance
(acres): 0.001	0.001	(acres): 0.001
Pipeline proposed disturbance	Pipeline interim reclamation (acres):	Pipeline long term disturbance
(acres): 0.001	0.001	(acres): 0.001
Other proposed disturbance (acres):	Other interim reclamation (acres):	Other long term disturbance (acres):

Total proposed disturbance: 26.543	Total interim reclamation: 8.734	Total long term disturbance: 17.813		
0.001	0.001	0.001		
Well Name: POKER LAKE UNIT 15 TV	WR Well Number: 1	25H		
Operator Name: BOPCO LP				
/				

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) plan 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: 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. **Existing Vegetation at the well pad attachment:**

Existing Vegetation Community at the road: 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. **Existing Vegetation Community at the road attachment**:

Existing Vegetation Community at the pipeline: 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. **Existing Vegetation Community at the pipeline attachment:**

Existing Vegetation Community at other disturbances: 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. 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:

Operator Name: BOPCO LP Well Name: POKER LAKE UNIT 15 TWR

Well Number: 125H

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:	
Seed use location:	
PLS pounds per acre:	Proposed seeding season:
Sood Summary	Total pounds/Acre:

Seed Summary To Seed Type 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:

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 15 TWR

Well Number: 125H

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 mud system will meet the NMOCD requirements 19.15.17. **Pit closure attachment:**

Section 11 - Surface Ownership

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:

Page 10 of 13

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 15 TWR

Well Number: 125H

Disturbance type: OTHER Describe: Facility & 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: USFWS Local Office: USFS Region: USFS Forest/Grassland:

Disturbance type: OTHER Describe: Electrical 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: USFWS Local Office: USFWS Local Office: USFS Region: USFS Forest/Grassland:

USFS Ranger District:

USFS Ranger District:

Operator Name: BOPCO LP

Well Name: POKER LAKE UNIT 15 TWR

Well Number: 125H

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:

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:

Page 12 of 13

USFS Ranger District:

Well Number: 125H

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,289001 ROW-O&G Well Pad,FLPMA (Powerline)

ROW Applications

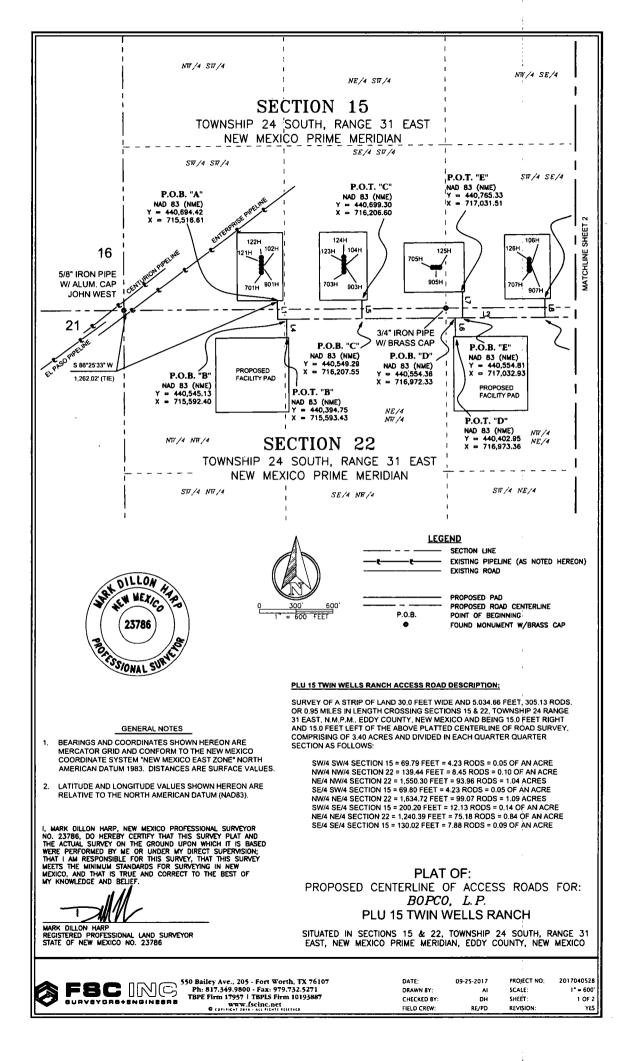
SUPO Additional Information: BOPCO, L.P. requests a variance from interim reclamation until all drilling and completion activities have been finished on the pads as these are multi-well pads where drilling and completion will be consecutive with the other wells on the pad. Once activities are completed,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

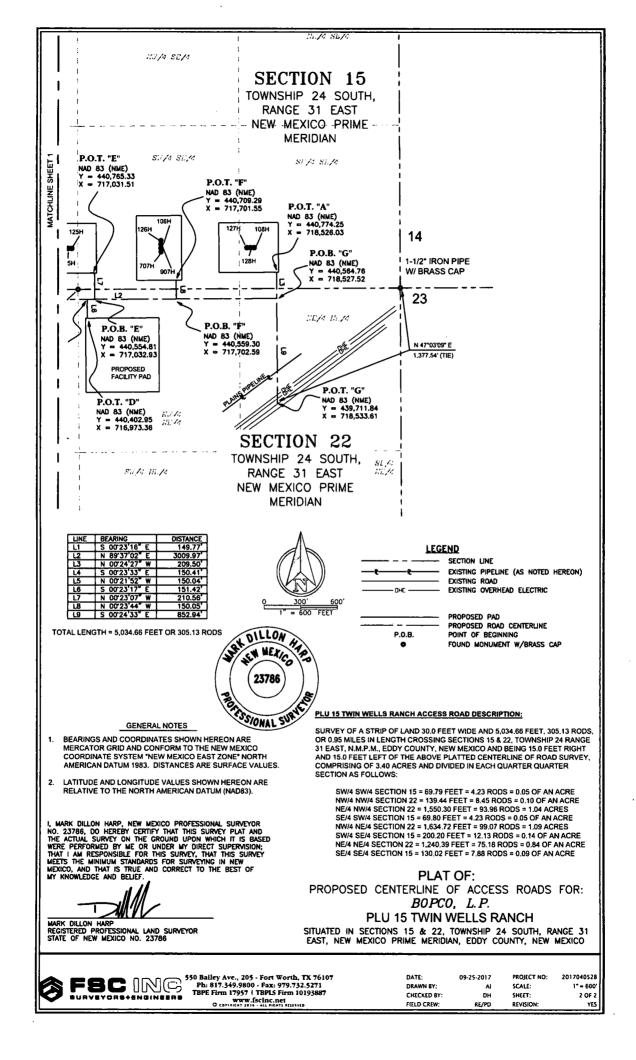
Use a previously conducted onsite? NO

Previous Onsite information:

Other SUPO Attachment

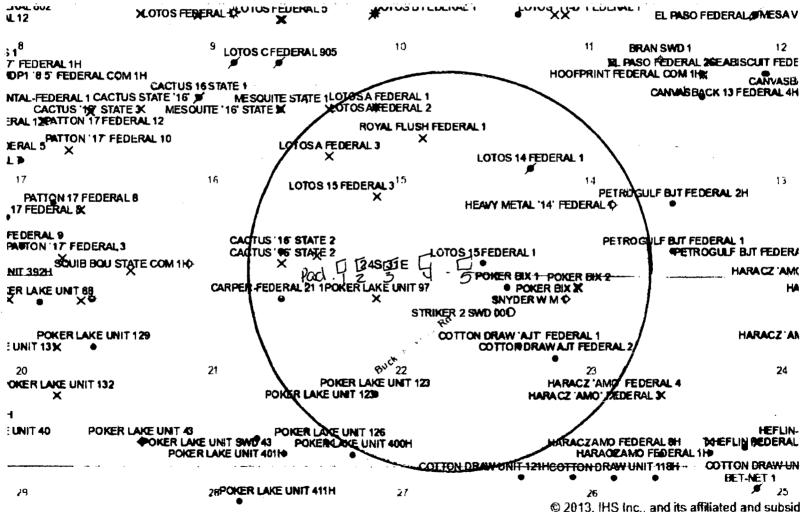
PLU_15_TWR_SUPO_20171115095241.pdf PLU_15_TWR_Well_List_20171115095301.pdf PLU_15_TWR_Pad_Disturbance_20171115095312.pdf PLU_15_TWR_LF_20171115095332.pdf





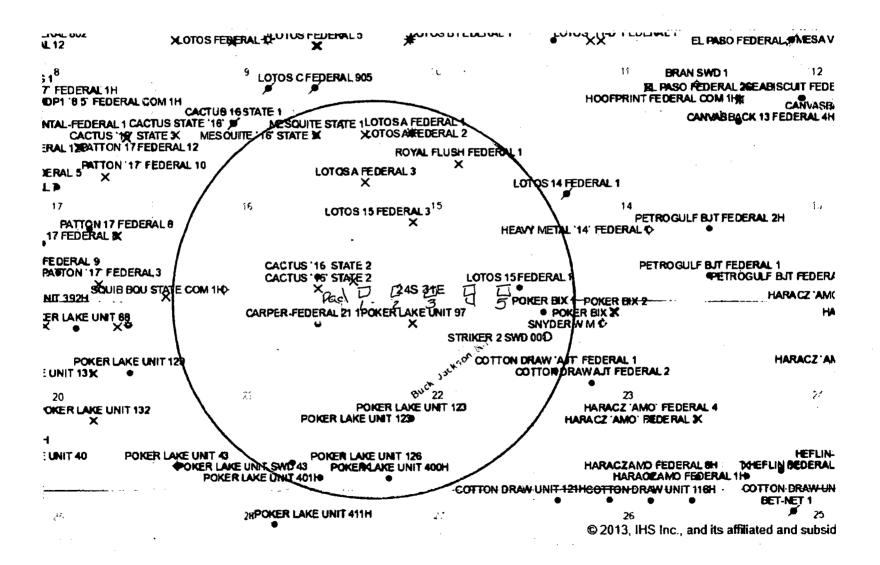
Poker Lake Unit 15 Twin Wells Ranch

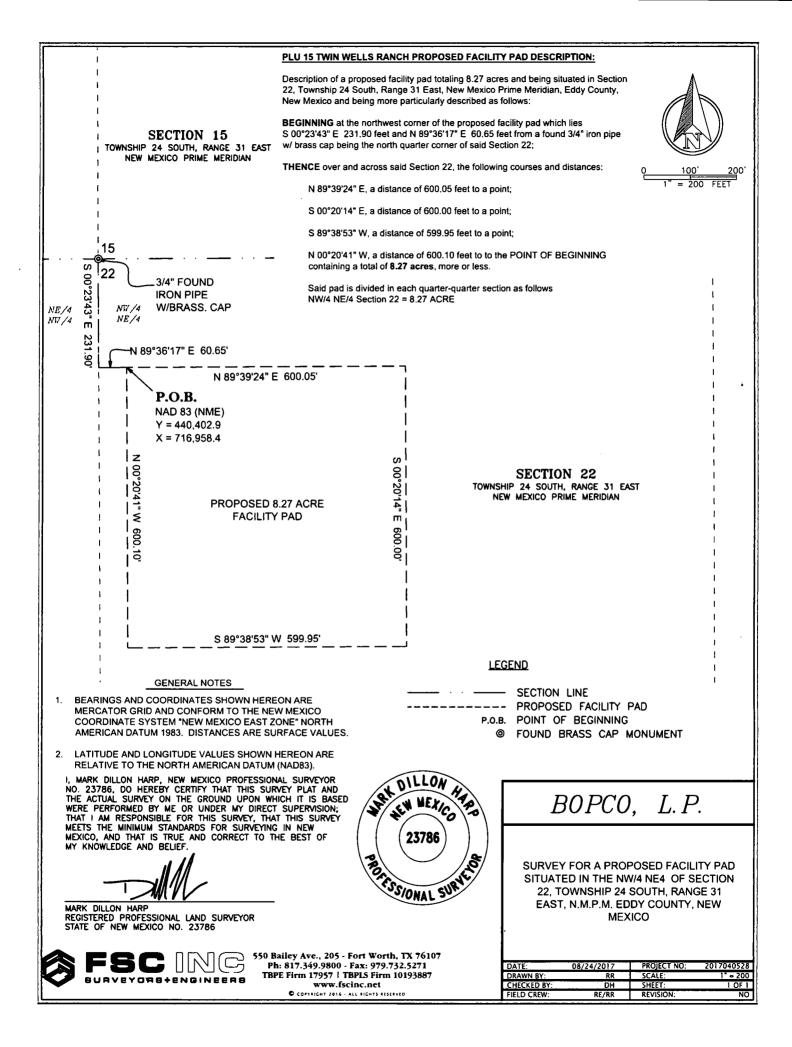
1-Mile Radius Map

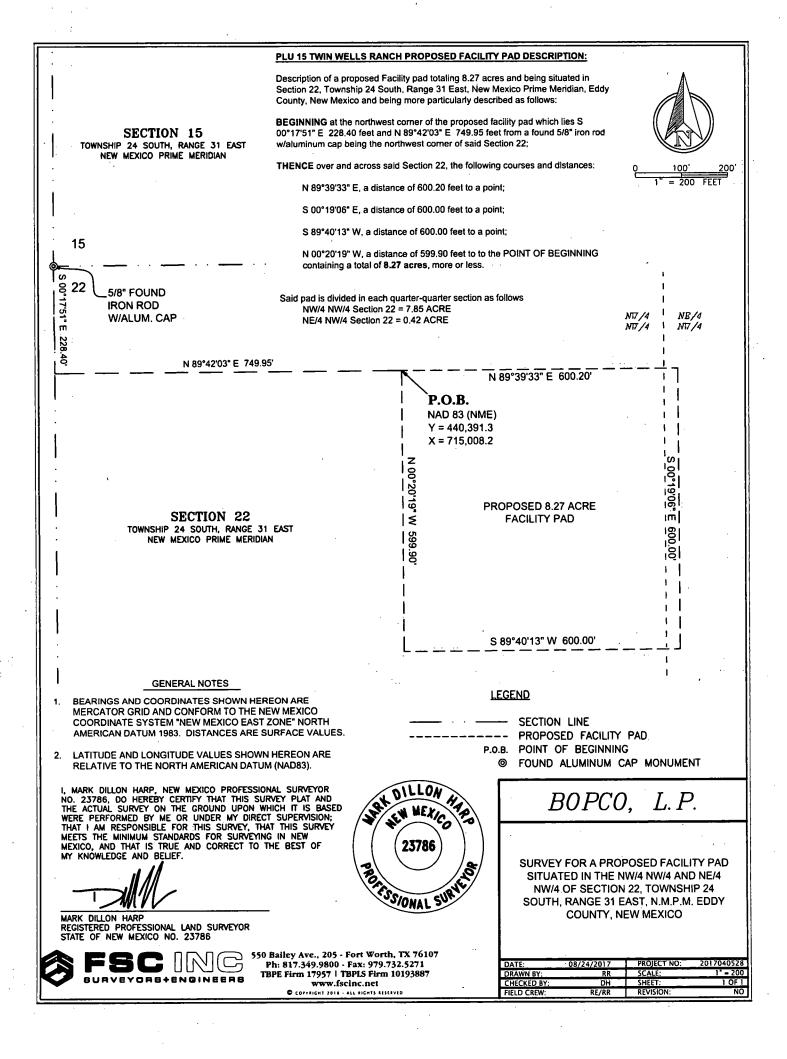


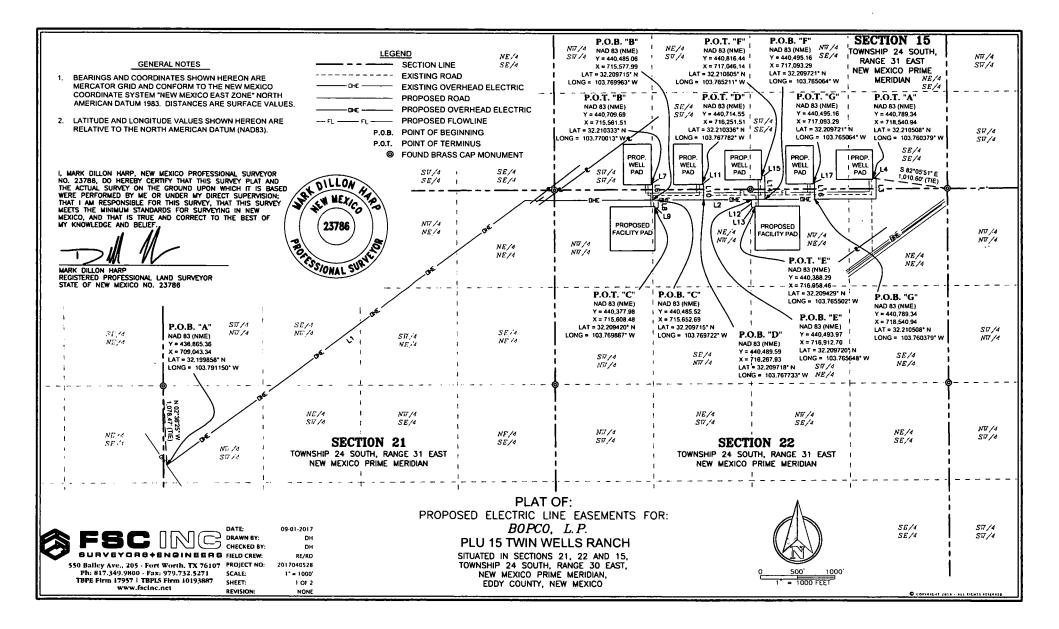
Poker Lake Unit 15 Twin Wells Ranch

1-Mile Radius Map









LINE	BEARING	DISTANCE
11	N 53'09'55" E	6018.53'
12	N 89'37'00" E	4727.59'
L3	N 00'21'53" W	284.46
1.4	S 89'38'07" W	45.11
1.5	N 89'36'47" E	14.96
LØ	S 00"23'13" E	224.74
1.8	S 00'25'47" E	107.04
L9	S 89'21'44" W	45.01
L10	N 00°22'20" W	224.97
L11	N 90'00'00" W	14.96
L12	S 00"22'06" E	105.94'
L13	N 89'39'45 E	45.08'
L14	N 00'21'55 W	321.57
L15	S 89'38'05" W	45.09
L16	N 00'23'17" W	225.02
L17	S 89'36'43" W	15.01

TOTAL LENGTH = 12,465,08 FEET OR 755,46 RODS

PLU 15 TWIN WELLS RANCH PROPOSED ELECTRIC LINES DESCRIPTION:

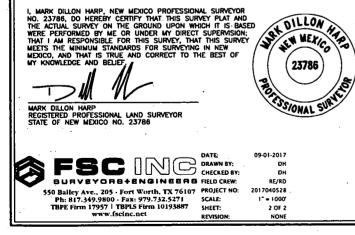
SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 12.465.08 FEET, 755.46 RODS, OR 2.36 MILES IN LENGTH IN SECTIONS 21, 22 AND 15 OF TOWNSHIP 24 SOUTH, RANGE 30 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO, AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY, COMPRISING OF 8.51 ACRES AND DIVIDED IN EACH QUARTER QUARTER SECTION AS FOLLOWS:

 $\begin{array}{l} \mathsf{NW}4 \ \mathsf{SW}4 \ \mathsf{SECTION} \ 21 = 1,588,96 \ \mathsf{FET} = 96.30 \ \mathsf{RODS} = 1.08 \ \mathsf{ACRES}\\ \mathsf{NE4} \ \mathsf{SW}4 \ \mathsf{SECTION} \ 21 = 22.367 \ \mathsf{FET} = 13.56 \ \mathsf{RODS} = 0.15 \ \mathsf{OF} \ \mathsf{AN} \ \mathsf{ACRE}\\ \mathsf{SU}4 \ \mathsf{NW}4 \ \mathsf{SECTION} \ 21 = 22.367 \ \mathsf{FET} = 35.94 \ \mathsf{RODS} = 0.98 \ \mathsf{OF} \ \mathsf{AN} \ \mathsf{ACRE}\\ \mathsf{SW}4 \ \mathsf{NE}4 \ \mathsf{SECTION} \ 21 = 0.21 \ \mathsf{BFET} = 85.94 \ \mathsf{RODS} = 0.98 \ \mathsf{OF} \ \mathsf{AN} \ \mathsf{ACRE}\\ \mathsf{SW}4 \ \mathsf{NE}4 \ \mathsf{SECTION} \ 21 = 802.13 \ \mathsf{FET} = 48.61 \ \mathsf{RODS} = 0.55 \ \mathsf{OF} \ \mathsf{AN} \ \mathsf{ACRE}\\ \mathsf{NW}4 \ \mathsf{NE}4 \ \mathsf{SECTION} \ 21 = 838.48 \ \mathsf{FET} = 50.82 \ \mathsf{RODS} = 0.58 \ \mathsf{OF} \ \mathsf{AN} \ \mathsf{ACRE}\\ \mathsf{NW}4 \ \mathsf{NE}4 \ \mathsf{SECTION} \ 21 = 1,544.58 \ \mathsf{FET} = 93.61 \ \mathsf{RODS} = 0.95 \ \mathsf{OF} \ \mathsf{AN} \ \mathsf{ACRE}\\ \mathsf{NW}4 \ \mathsf{NW}4 \ \mathsf{SECTION} \ 22 = 1,752.11 \ \mathsf{FET} = 10.61 \ \mathsf{RODS} = 0.95 \ \mathsf{OF} \ \mathsf{AN} \ \mathsf{ACRE}\\ \mathsf{NW}4 \ \mathsf{NW}4 \ \mathsf{SECTION} \ 22 = 1,752.11 \ \mathsf{FET} = 10.61 \ \mathsf{RODS} = 0.11 \ \mathsf{OF} \ \mathsf{AN} \ \mathsf{ACRE}\\ \mathsf{SW}4 \ \mathsf{SECTION} \ 15 = 14.64 \ \mathsf{FET} = 11.19 \ \mathsf{RODS} = 0.11 \ \mathsf{OF} \ \mathsf{AN} \ \mathsf{ACRE}\\ \mathsf{SW}4 \ \mathsf{SU}4 \ \mathsf{SECTION} \ 15 = 14.64 \ \mathsf{FET} = 10.61 \ \mathsf{RODS} = 0.03 \ \mathsf{OF} \ \mathsf{AN} \ \mathsf{ACRE}\\ \mathsf{SW}4 \ \mathsf{SU}4 \ \mathsf{SECTION} \ 15 = 14.64 \ \mathsf{FET} = 10.63 \ \mathsf{RODS} = 0.03 \ \mathsf{OF} \ \mathsf{AN} \ \mathsf{ACRE}\\ \mathsf{SW}4 \ \mathsf{SECTION} \ 15 = 13.63 \ \mathsf{FET} = 10.63 \ \mathsf{RODS} = 0.23 \ \mathsf{OF} \ \mathsf{AN} \ \mathsf{ACRE}\\ \mathsf{SW}4 \ \mathsf{SECTION} \ 15 = 136.34 \ \mathsf{FET} = 19.78 \ \mathsf{RODS} = 0.23 \ \mathsf{OF} \ \mathsf{AN} \ \mathsf{ACRE}\\ \mathsf{SW}4 \ \mathsf{SECTION} \ 15 = 326.34 \ \mathsf{FET} = 19.78 \ \mathsf{RODS} = 0.35 \ \mathsf{OF} \ \mathsf{AN} \ \mathsf{ACRE}\\ \mathsf{SW}4 \ \mathsf{SECTION} \ 5 = 190.14 \ \mathsf{FET} = 11.57 \ \mathsf{RODS} = 0.35 \ \mathsf{OF} \ \mathsf{AN} \ \mathsf{ACRE}\\ \mathsf{SE}4 \ \mathsf{SW}4 \ \mathsf{SECTION} \ 25 = 5190.14 \ \mathsf{FET} = 10.57 \ \mathsf{RODS} = 0.35 \ \mathsf{OF} \ \mathsf{AN} \ \mathsf{ACRE}\\ \mathsf{SE}4 \ \mathsf{SE}4 \ \mathsf{SECTION} \ 5 = 190.14 \ \mathsf{FET} = 11.57 \ \mathsf{RODS} = 0.35 \ \mathsf{OF} \ \mathsf{AN} \ \mathsf{ACRE}\\ \mathsf{SE}4 \ \mathsf{SE}4 \ \mathsf{SECTION} \ 5 = 190.14 \ \mathsf{FET} = 11.57 \ \mathsf{RODS} = 0.35 \ \mathsf{OF} \ \mathsf{AN} \ \mathsf{ACRE}\\ \mathsf{SE}4 \ \mathsf{SE}4 \ \mathsf{SE}5 \ \mathsf{SE}5 \ \mathsf{OS}5 \ \mathsf{OS}5 \ \mathsf{ACRE} \ \mathsf{ACRE}\\ \mathsf{SE}4 \ \mathsf{SE}4 \ \mathsf{SE}5 \ \mathsf{SE}5 \ \mathsf{SE}5 \ \mathsf{SO$

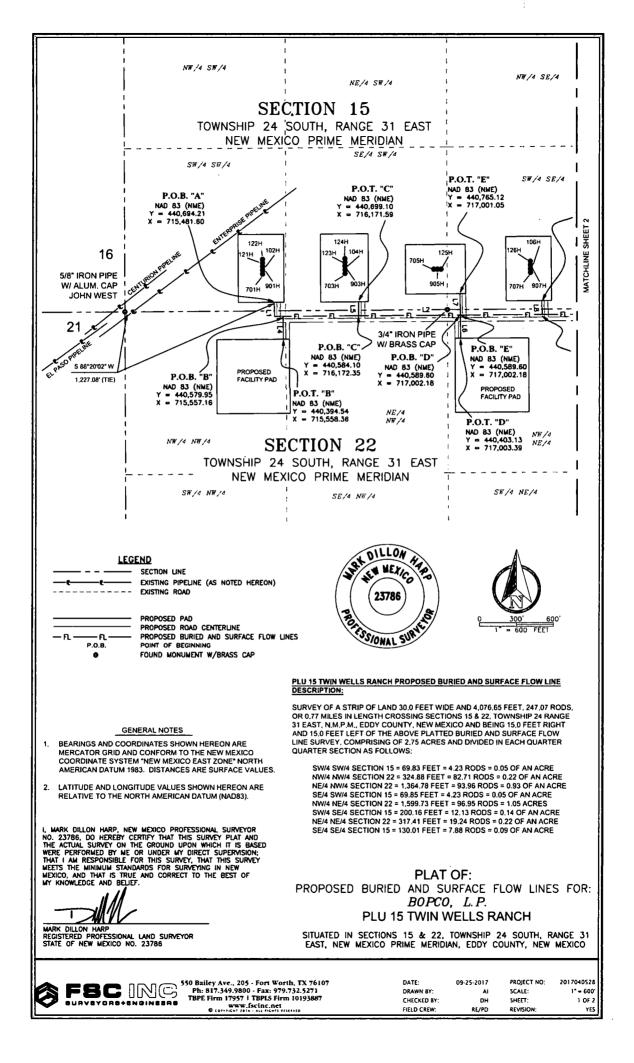
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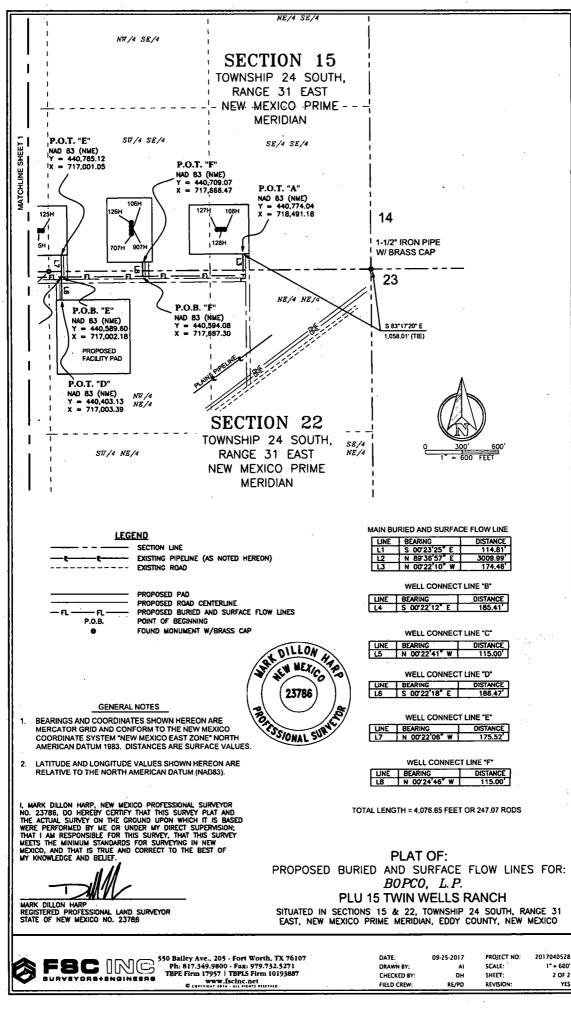
GENERAL NOTES

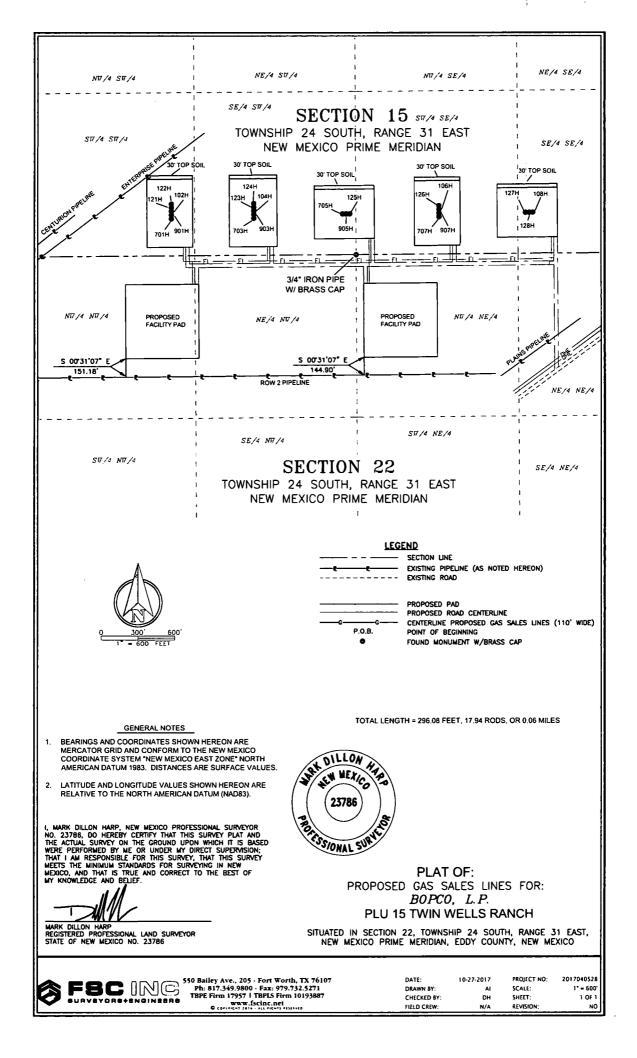
- 1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983, DISTANCES ARE SURFACE VALUES.
- 2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).



PLAT OF: PROPOSED ELECTRIC LINE EASEMENTS FOR: BOPCO, L.P. PLU 15 TWIN WELLS RANCH SITUATED IN SECTIONS 21, 22 AND 15, TOWNSHIP 24 SOUTH, RANCE 30 EAST, NEW MEXICO PRIME MERIDIAN, EDDY COUNTY, NEW MEXICO







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15	RD 14	13	18	17	16	15	14	13	18	17	16	15	14
RDCY DDW	23	BUCK JACK	19	20	21	22	23	24	19	20	21	22	23
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PLU 15 TWIN WELLS RANCH #125H LOCATED 2,590 FEET FROM THE WEST LINE AND 330 FEET FROM THE SOUTH LINE OF SECTION 15, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

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5,000' 10,000' 1" = 10,000FEET ĉ

رت BURVEYORB+ENGINEERB FIELD CREW:
 550 Bailey Ave., 205 - Fort Worth, TX 76107
 PROJECT NO:

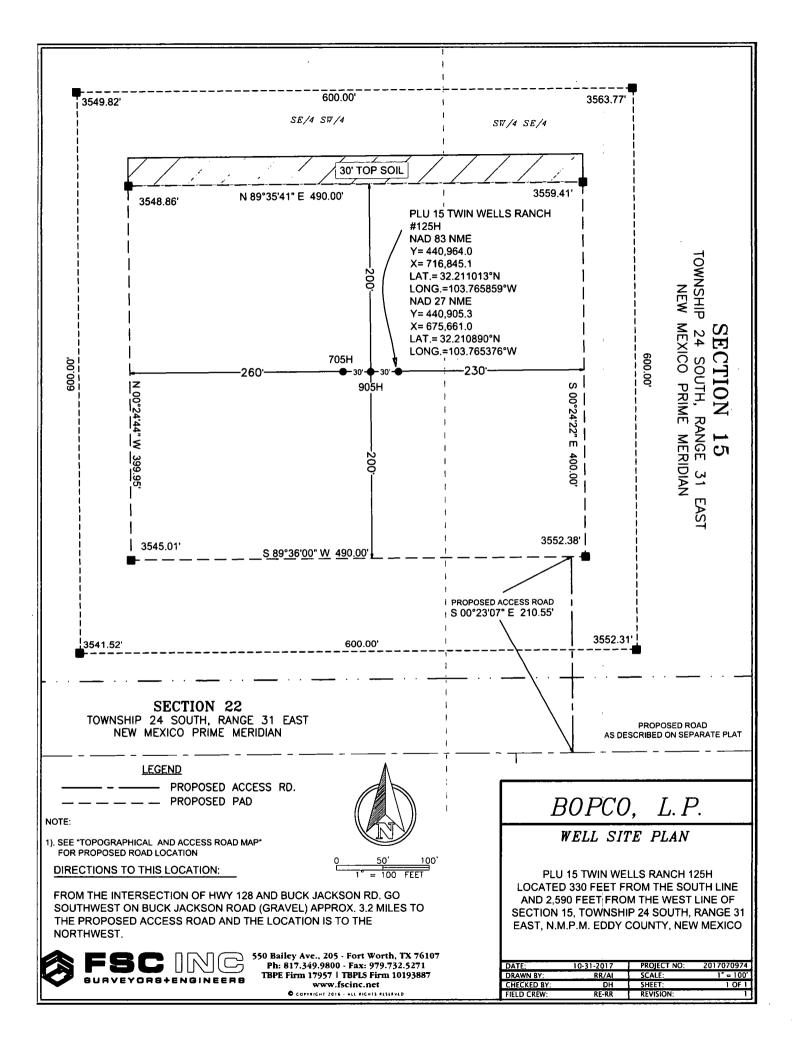
 Ph: 817.349.9800 - Fax: 979.732.5271
 SCALE:

 TBPE Firm 17957 | TBPLS Firm 10193887
 SHEET:

 www.fscinc.net
 REVISION:

8-16-2017 DRAWN BY: AI CHECKED BY: DH RE/RR 2017070974 1"= 10,000' 1 OF 1 **REVISION:** NO

DATE:



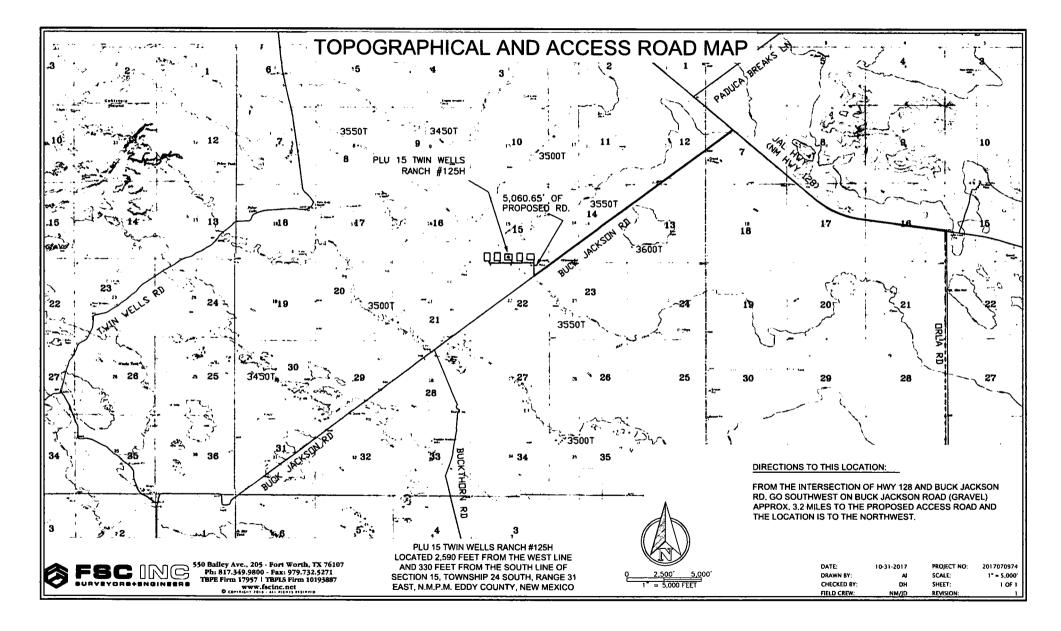
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3	T24 2		T24 R3		4	The second	T24	R31E	T24 R		4	3	2
10	11	12	7	8 PLU	9 15 TWIN	10	10 10 11	12	- CAVAR - 14	12 B	9	10	11
15	14	13	18	WELLS	-RANCH #125H 16	15	14 JA	SUN 13 C	10128	17		/ 15	14
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3	T25 2	R30E		31E 5	4	BUCKTHURN 10	T25 2			32E	. 4	DRLA 3	2
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15	RD 14	13	18	17	16	15	14	13	18	17	16	15	14
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HEDG	HOG RD	SUN 25	30	CR 29	28	27	26	25	30	29 DYCE_LN	28	27	26
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3	T26	R30E	T26 R	3VE 5	4	3	T26	R31E	T26 R	32E 5	4	3	2
LOCATE AND 33 SECTION	D 2,590 FI 80 FEET FI 15, TOWI	EET FROM	ANCH #12 1 THE WES SOUTH LI SOUTH, RJ	ST LINE NE OF ANGE 31					BC			DATE: DRAWN BY: CHECKED BY: FIELD CREW:	 10-31-2 R 201707(

5,000' 10,000' 1" = 10,000FEET ĉ

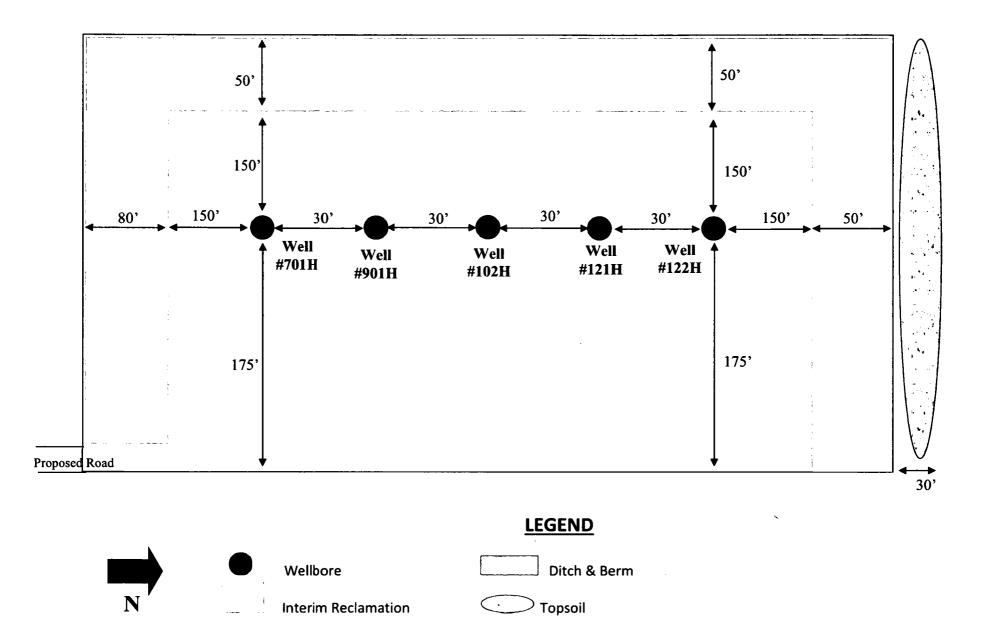
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Ph: 817.349.9800 - Fax: 979.732.5271 TBPE Firm 17957 | TBPLS Firm 10193887 www.fscinc.net SHEET: REVISION:

1



Interim Reclamation Diagram Poker Lake Unit 15 Twin Wells Ranch #701H, 901H, 102H, 121H, 122H V-Door North (All Wells)

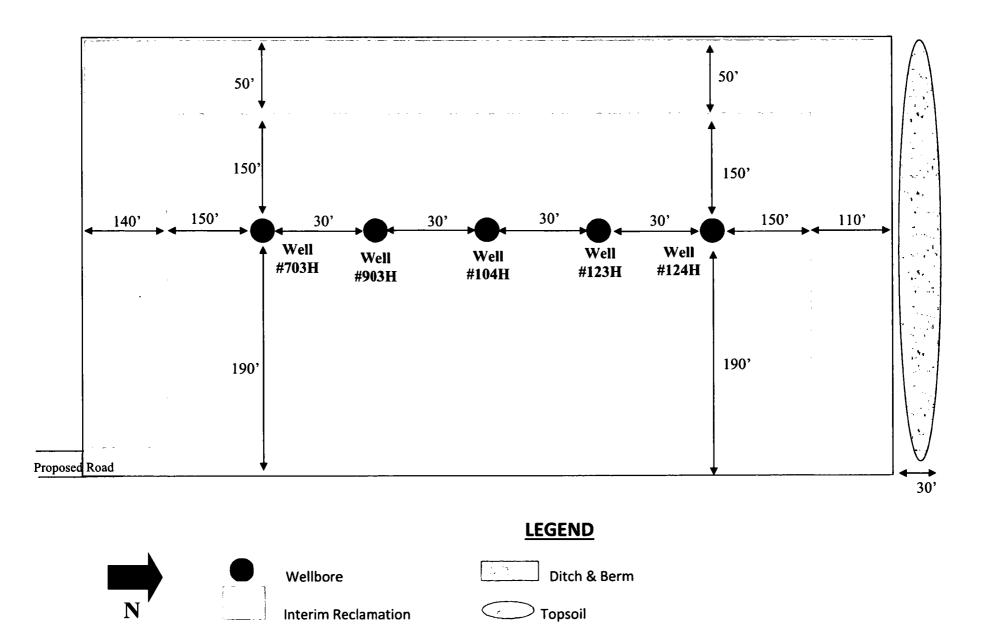


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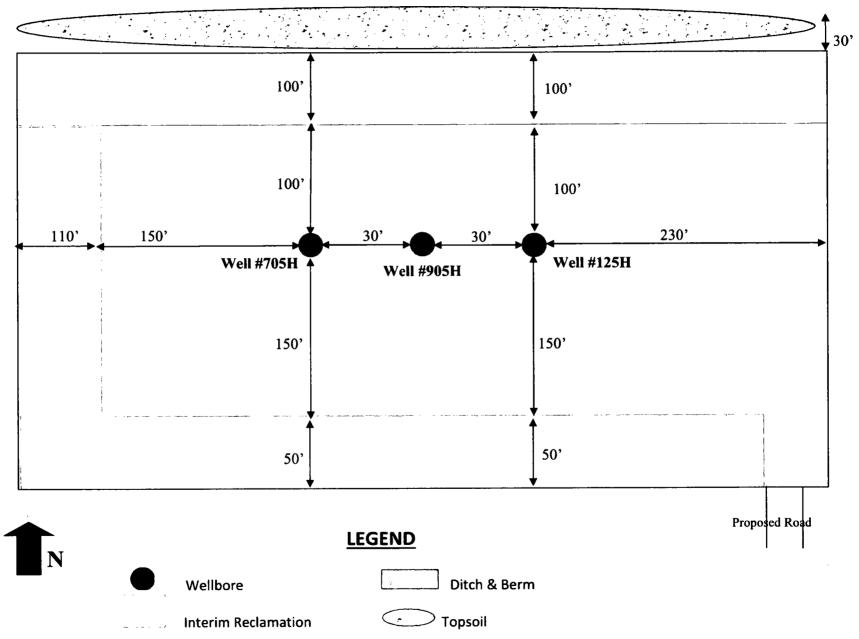
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Interim Reclamation Diagram

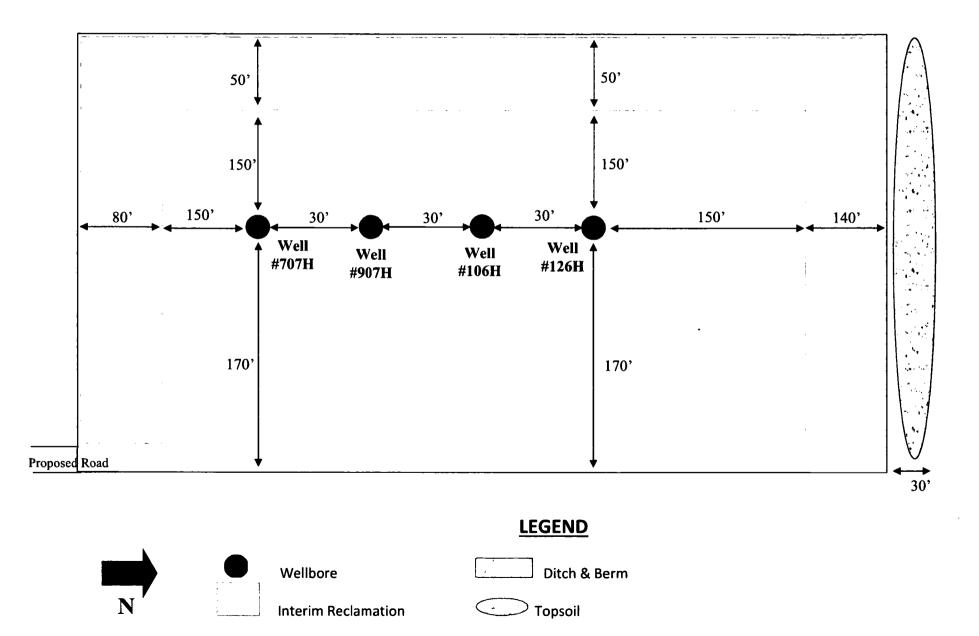
Poker Lake Unit 15 Twin Wells Ranch #703H, 903H, 104H, 123H, 124H V-Door North (All Wells)



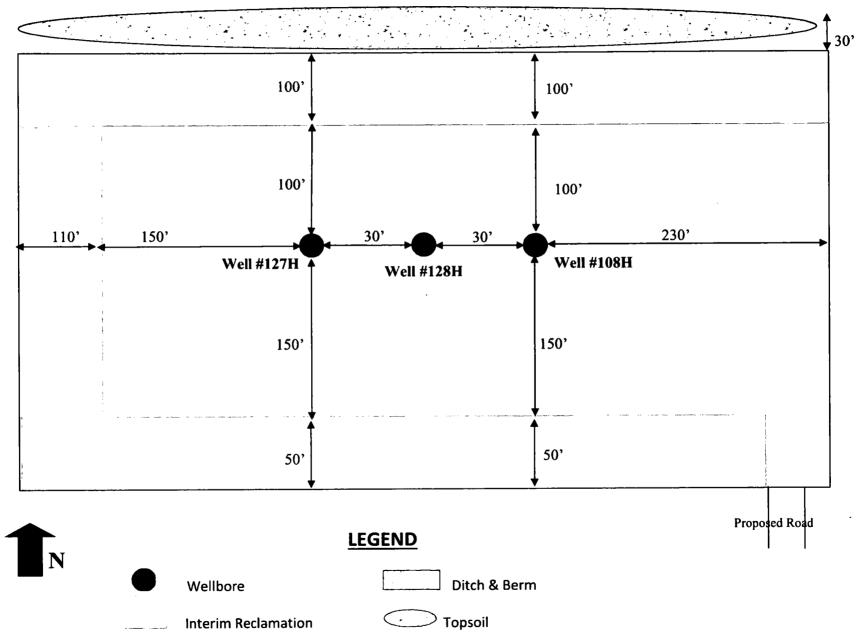
Interim Reclamation Diagram Poker Lake Unit 15 Twin Wells Ranch #705H, 905H, 125H V-Door East (All Wells)



Interim Reclamation Diagram Poker Lake Unit 15 Twin Wells Ranch #707H, 907H, 106H, 126H V-Door North (All Wells)



Interim Reclamation Diagram Poker Lake Unit 15 Twin Wells Ranch #127H, 128H, 108H V-Door East (All Wells)



Well Site Locations

The results of the Poker Lake Unit 15 Twin Wells Ranch Development Program will develop economic quantities of oil and gas in the 'Poker Lake Unit 15 Twin Wells Ranch' 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.

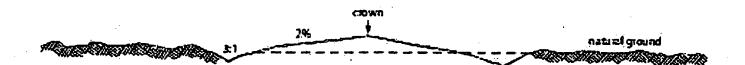
Surface Use Plan

1. Existing Roads

- A. The Poker Lake Unit 15 Twin Wells Ranch area is accessed by existing U.S. Hwy 128 and Buck Jackson Road. Go Southwest on Buck Jackson Rd (Gravel) approximately 3.2 miles to the proposed access road where the PLU 15 Twin Wells Ranch pads are located to the Northwest. 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 15 Twin Wells Ranch 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 27 Miles from the town of Loving, New Mexico.

2. New or Upgraded Access Roads

- A. **New Roads**. There is a total of approximately 5035' or .095 miles of proposed and staked access roads in the Poker Lake Unit 15 Twin Wells Ranch 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 included 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 15 TWR West CTB and the Eastern most facility is the PLU 15 TWR East CTB. The pads are located in Section 22-T24S-R31E 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 15 TWR East CTB and the PLU 15 TWR 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 4077' 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 2 pipeline extending from the PLU 15 TWR East CTB and the PLU 15 TWR 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 15 TWR East GSL Approx. Length: 145'.PLU 15 TWR West GSL Approx. Length: 152'.
- 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 2 flares associated with the Poker Lake Unit 15 Twin Wells Ranch project. The flare stacks will be 50'x50'. 1 will be located on the PLU 15 TWR East Central Tank Battery. 1 will be located on the PLU 15 TWR 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. 12466' 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 32-T23S-R32E
 - b. Pit 2: Federal Caliche Pit, Section 10-T25S-R31E

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 approve 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 CERLCA 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.C.S. 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 15 Twin Wells Ranch 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 375'x550'.
 - 2. Pad 2 is a 5-well pad expected to be 390'x550'.
 - 3. Pad 3 is a 3-well pad expected to be 490'x400'.
 - 4. Pad 4 is a 4-well pad expected to be 370'x520'.
 - 5. Pad 5 is a 3-well pad expected to be 490'x400'.

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 North.
 - 2. Pad 2 has a V-Door Orientation of North.
 - 3. Pad 3 has a V-Door Orientation of East.
 - 4. Pad 4 has a V-Door Orientation of North.
 - 5. Pad 5 has a V-Door Orientation of East.
- 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 plats 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) plan 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:

- <u>Seedbed Preparation</u>: 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.
- <u>Seed Application</u>. 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 15 Twin Wells Ranch project area: 100% of the surface is under the administrative jurisdiction of the Bureau of Land Management.
- 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.
- 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

Poker Lake Unit 15 Twin Wells Ranch List List of Proposed Wells; Changes from Notice of Staking BOPCO, L.P.								
Pad Number	New Well Name & Number	Original Number	Section	Township	Range	Surface Owner	V-Door	
1	Poker Lake Unit 15 Twin Wells Ranch 701H		15	245	31E	Bureau of Land Mgmt	North	
	Poker Lake Unit 15 Twin Wells Ranch 901H		15	245	31E	Bureau of Land Mgmt	North	
	Poker Lake Unit 15 Twin Wells Ranch 102H	10 0 2H	15	245	31E	Bureau of Land Mgmt	North	
	Poker Lake Unit 15 Twin Wells Ranch 121H	12 0 1H	15	245	31E	Bureau of Land Mgmt	North	
	Poker Lake Unit 15 Twin Wells Ranch 122H	12 0 2H	15	245	31E	Bureau of Land Mgmt	North	
2	Poker Lake Unit 15 Twin Wells Ranch 703H		15	245	31E	Bureau of Land Mgmt	North	
	Poker Lake Unit 15 Twin Wells Ranch 903H		15	245	31E	Bureau of Land Mgmt	North	
	Poker Lake Unit 15 Twin Wells Ranch 104H	10 0 4H	15	245	31E	Bureau of Land Mgmt	North	
	Poker Lake Unit 15 Twin Wells Ranch 123H	12 0 3H	15	245	31E	Bureau of Land Mgmt	North	
	Poker Lake Unit 15 Twin Wells Ranch 124H	12 0 4H	15	245	31E	Bureau of Land Mgmt	North	
3	Poker Lake Unit 15 Twin Wells Ranch 705H		15	245	31E	Bureau of Land Mgmt	East	
	Poker Lake Unit 15 Twin Wells Ranch 905H		15	245	31E	Bureau of Land Mgmt	East	
	Poker Lake Unit 15 Twin Wells Ranch 125H	12 0 5H	15	245	31E	Bureau of Land Mgmt	East	
4	Poker Lake Unit 15 Twin Wells Ranch 707H		15	24S	31E	Bureau of Land Mgmt	North	
	Poker Lake Unit 15 Twin Wells Ranch 907H		15	245	31E	Bureau of Land Mgmt	North	
	Poker Lake Unit 15 Twin Wells Ranch 106H	10 0 6H	15	245	31E	Bureau of Land Mgmt	North	
	Poker Lake Unit 15 Twin Wells Ranch 126H	12 0 6H	15	245	31E	Bureau of Land Mgmt	North	
5	Poker Lake Unit 15 Twin Wells Ranch 127H	12 0 7H	15	245	31E	Bureau of Land Mgmt	East	
	Poker Lake Unit 15 Twin Wells Ranch 128H	12 0 8H	15	245	31E	Bureau of Land Mgmt	East	
	Poker Lake Unit 15 Twin Wells Ranch 108H	10 0 8H	15	245	31E	Bureau of Land Mgmt	East	

* Bold Indicates Portion Changed

PLU 15 TWR LEASE PAD DISTURBANCE

Pad 1	Short Term Disturbance	Long Term Disturbance
PLU 15 TWR 701H		
PLU 15 TWR 901H		
PLU 15 TWR 102H		
PLU 15 TWR 121H		
PLU 15 TWR 122H		
Disturbance Total Acres:	4.73	3.13

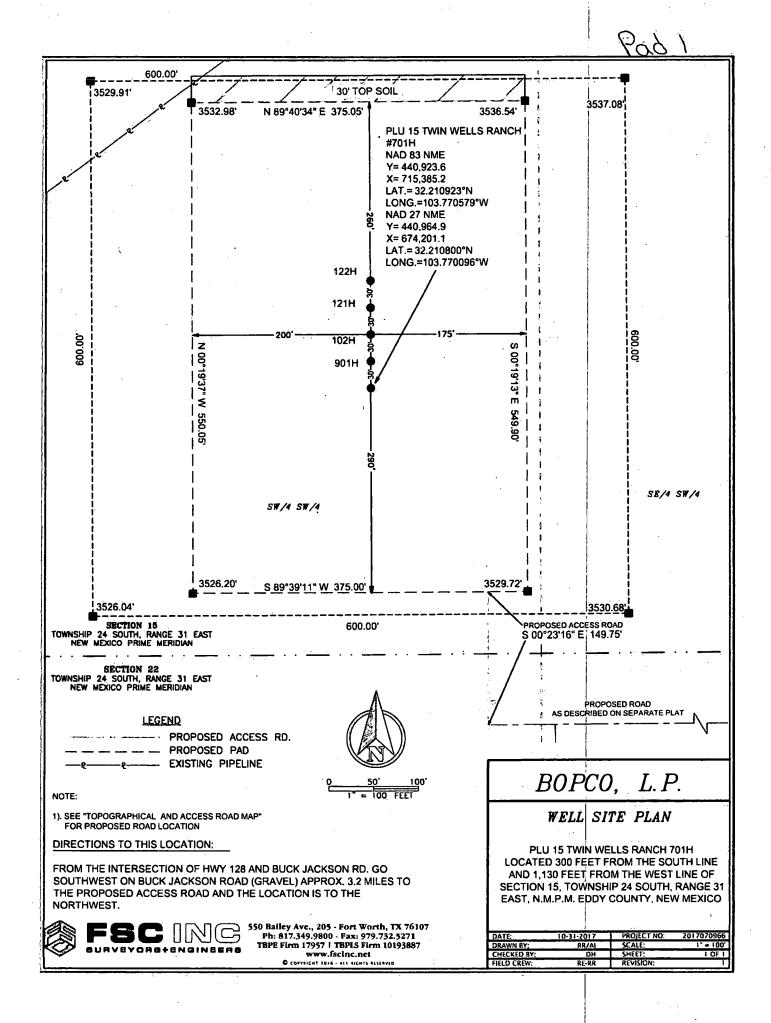
Pad 2		
PLU 15 TWR 703H		
PLU 15 TWR 903H		
PLU 15 TWR 104H		
PLU 15 TWR 123H		
PLU 15 TWR 124H		
Disturbance Total Acres:	4.92	3.28

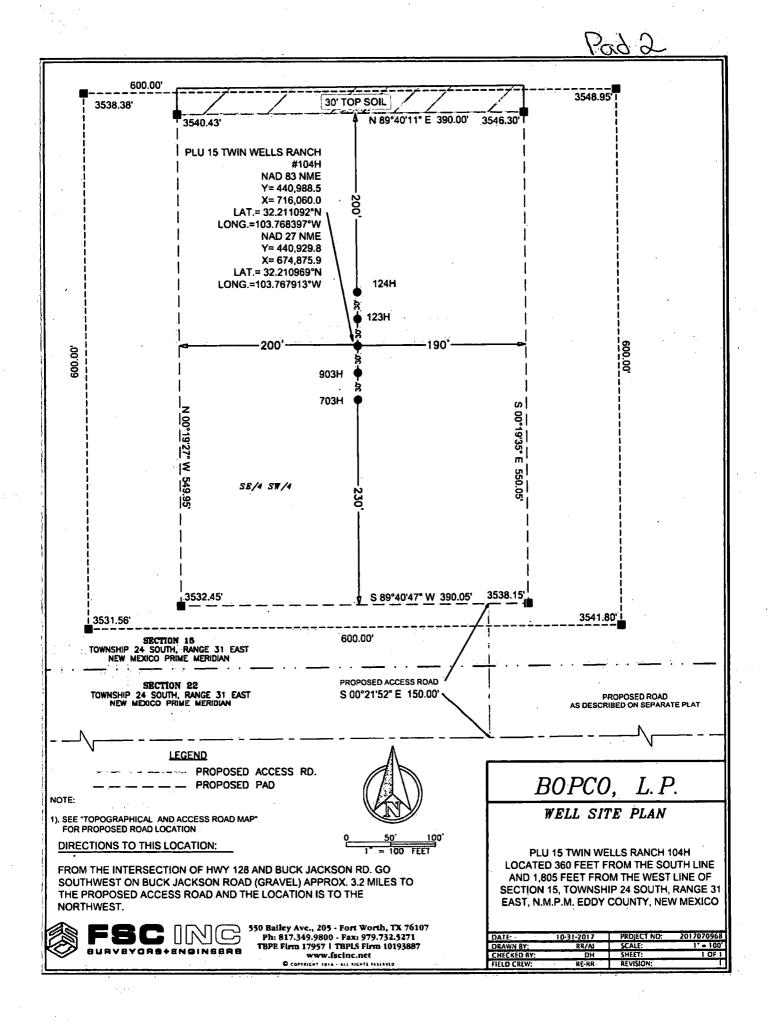
Pad 3		
PLU 15 TWR 705H		
PLU 15 TWR 905H		
PLU 15 TWR 125H		
Disturbance Total Acres:	4.5	2.53

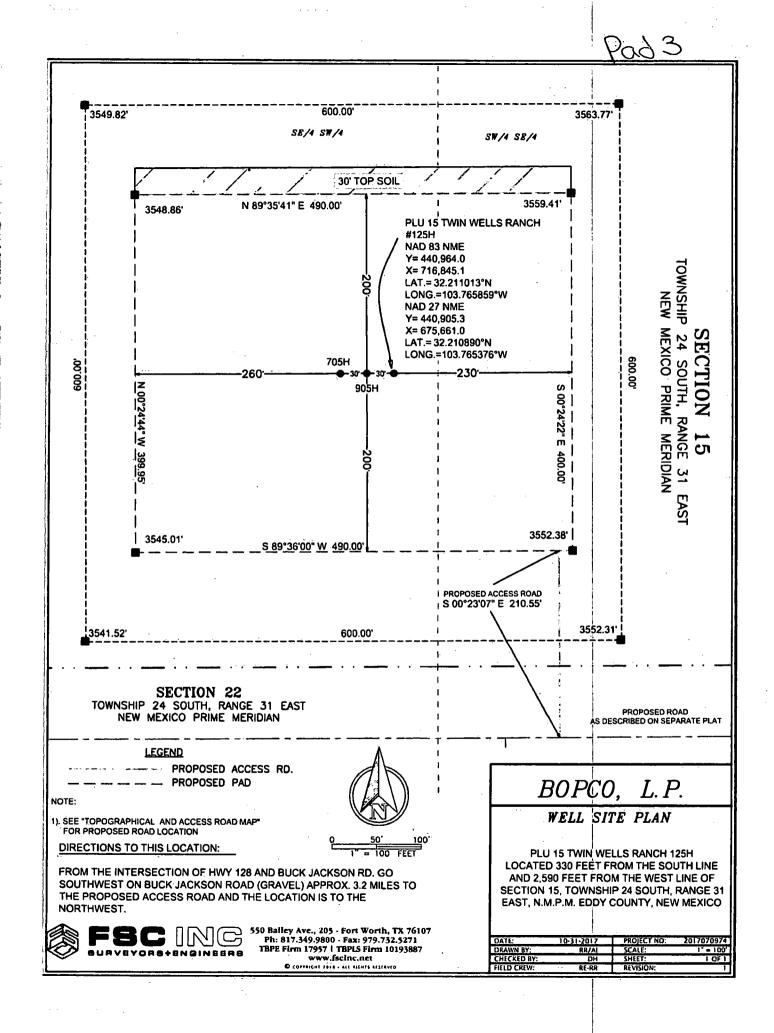
Pad 4		
PLU 15 TWR 707H		
PLU 15 TWR 907H		
PLU 15 TWR 106H		
PLU 15 TWR 126H		
Disturbance Total Acres:	4.42	2.87

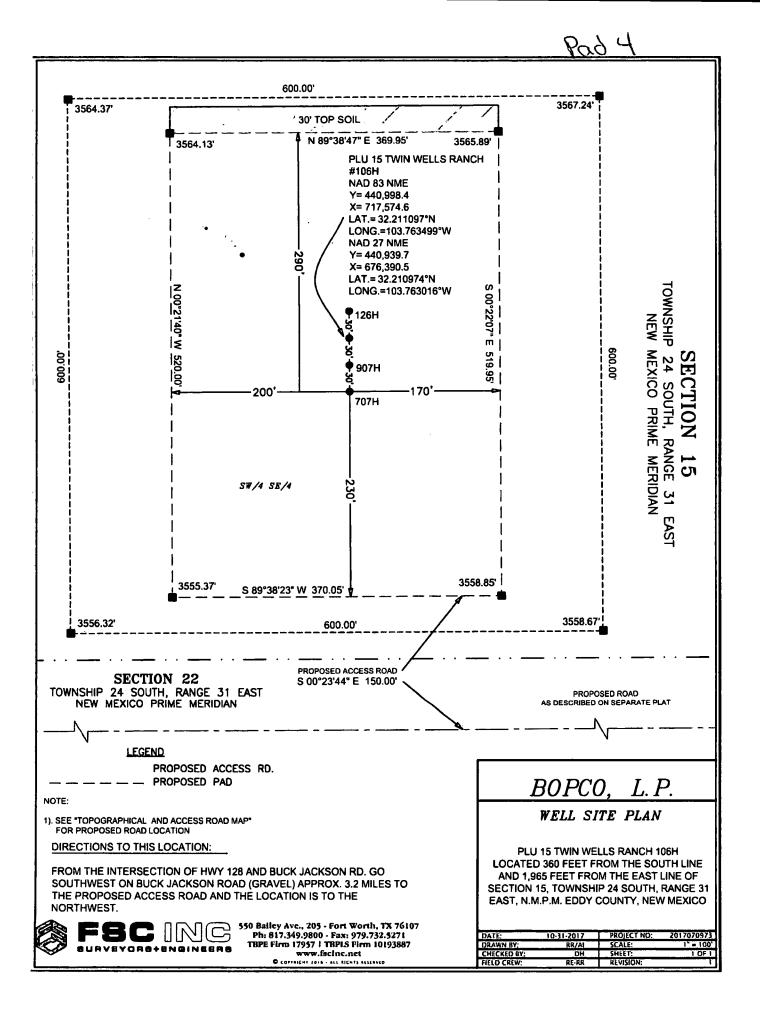
Pad 5		
PLU 15 TWR 127H		
PLU 15 TWR 128H		
PLU 15 TWR 108H		
Disturbance Total Acres:	4.5	2.53

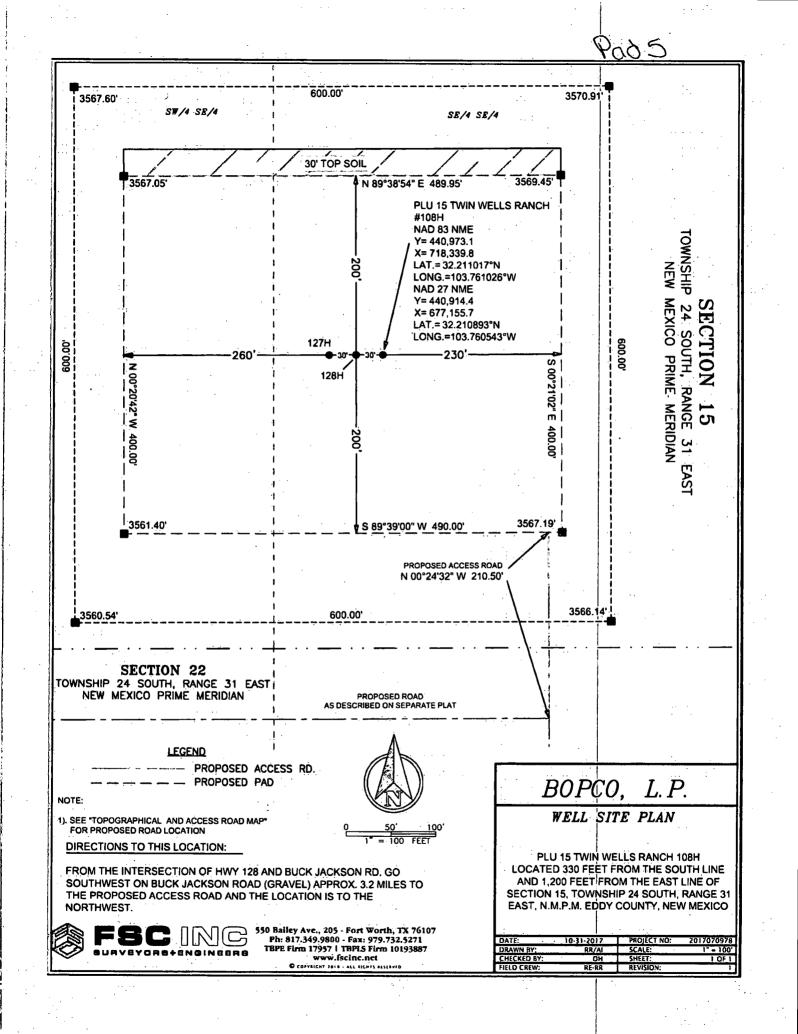
Total Short Term Pad Disturbance	23.07 Acres	
Total Long Term Pad Disturbance		14.34 Acres

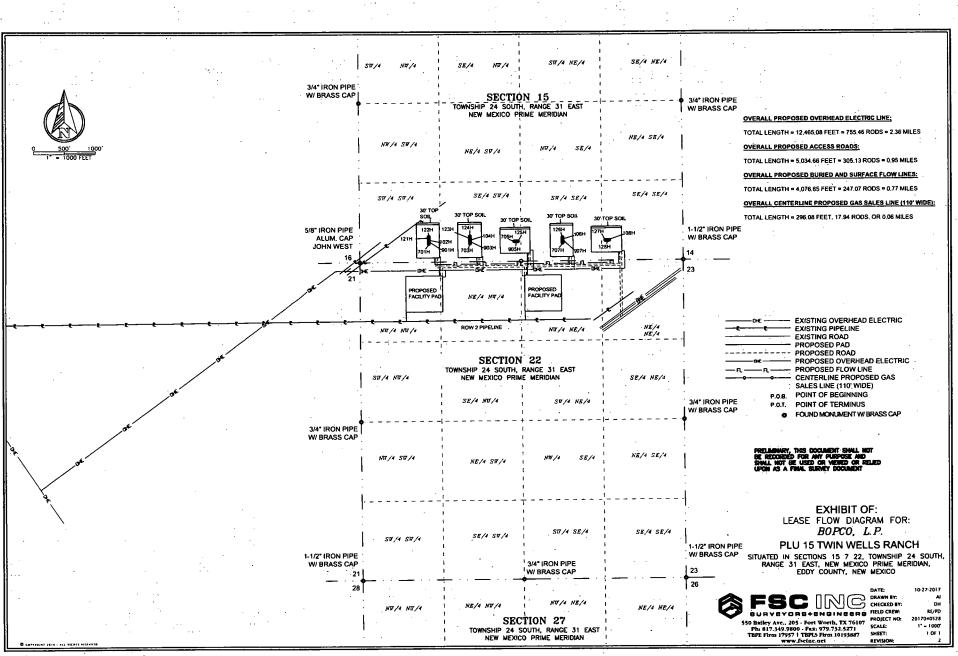














U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

PWD Data Report

06/06/2018

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: 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: Decribe 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:

PWD disturbance (acres):

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe 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:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

PWD disturbance (acres):

PWD disturbance (acres):

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:

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):

Injection well name:

Injection well API number:

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: Other PWD discharge volume (bbl/day): Other PWD type description: Other PWD type attachment: Have other regulatory requirements been met? Other regulatory requirements attachment:

PWD disturbance (acres):

WAFMSS

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

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?

Bond Info Data Report

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06/06/2018

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: