orm 3160-3	Carisb	CARCEIVE	ioi G	THEE FORM A	APPROVE	D		
UNITED STA DEPARTMENT OF TH BUREAU OF LAND MA	TES E INTERIOR	CD Ar Nov 0 6	CO121	5. Lease Serial No. NMNM120901	o. 1004-01 anuary 31.1	2018		
APPLICATION FOR PERMIT TO	D DRILL OR	REATEARTE	SIA O.C.	D . If Indian, Allotee	or Tribe N	ame		
a. Type of work: 🔽 DRILL	REENTER			7. If Unit or CA Ag	reement, N	ame and No.		
b. Type of Well:	Other	_		8. Lease Name and	Well No.			
c. Type of Completion: Hydraulic Fracturing	Single Zone	Multiple Zone		SND 12 01 FED 0	_			
					57			
Name of Operator CHEVRON USA INCORPORATED	4323	3		30-015				
a. Address 3301 Deauville Blvd. Midland TX 79706	3b. Phone No (432)687-78	. (include area coi 66	de)	10. Field and Pool, Wildcat 1.3.3		· .		
Location of Well (Report location clearly and in accorded				11. Sec., T. R. M. o SEC 12 / T24S / F	or Blk. and	Survey or Area		
At surface SESE / 367 FSL / 1210 FEL / LAT 32.2 At proposed prod. zone NENE / 100 FNL / 330 FEL			1047					
4. Distance in miles and direction from nearest town or po				12. County or Paris EDDY	sh	13. State NM		
5. Distance from proposed* 330 feet	16. No of acr	es in lease	17. Spaci	ng Unit dedicated to	this well			
property or lease line, ft. (Also to nearest drig. unit line, if any)	360		320					
8. Distance from proposed location* to nearest well, drilling, completed, 700 feet applied for, on this lease, ft.	19. Proposed 9036 feet / 1	•		20. BLM/BIA Bond No. in file FED: CA0329				
1. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approxin 04/01/2017	nate date work wil	II start*	23. Estimated dura 130 days	ition			
3580 feet	24. Attack	nments						
The following, completed in accordance with the requirement as applicable) Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest	System Lands, the	4. Bond to cover Item 20 above	the operatio). fication.	Hydraulic Fracturing ns unless covered by ormation and/or plans	an existing	bond on file (see		
SUPO must be filed with the appropriate Forest Service		BLM.						
25. Signature (Electronic Submission)		(Printed/Typed) Becerra / Ph: (43	32)687-766	5	Date 11/20/2	2017		
Fitle Permitting Specialist								
Approved by (Signature)		(Printed/Typed)	E)224 5050	— — — —	Date 11/02/2	2018		
(Electronic Submission)	Office			<u> </u>				
Assistant Field Manager Lands & Minerals Application approval does not warrant or certify that the a applicant to conduct operations thereon. Conditions of approval, if any, are attached.		SBAD or equitable title to	o those right	s in the subject lease	which woi	ild entitle the		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section of the United States any false, fictitious or fraudulent state	212, make it a crime ments or representat	e for any person ki ions as to any mat	nowingly an ter within it	d willfully to make to s jurisdiction.	o any depa	rtment or agency		
			TINS	1				
	ROVED WI	TH COND	IIVAN					
				NP 11-8-				

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 I: 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 wen, 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 directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

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

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

NOTICES

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

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

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen 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 win 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 conects this information to anow 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 Conection Clearance Officer (WO-630). 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

SHL: SESE / 367 FSL / 1210 FEL / TWSP: 24S / RANGE: 31E / SECTION: 12 / LAT: 32.225638 / LONG: -103.7269 (TVD: 0 feet, MD: 0 feet)
 PPP: SESE / 330 FSL / 330 FEL / TWSP: 24S / RANGE: 31E / SECTION: 12 / LAT: 32.225534 / LONG: -103.724055 (TVD: 9036 feet, MD: 19060 feet)
 BHL: NENE / 100 FNL / 330 FEL / TWSP: 24S / RANGE: 31E / SECTION: 1 / LAT: 32.253393 / LONG: -103.724047 (TVD: 9036 feet, MD: 19060 feet)

BLM Point of Contact

Name: Tenille Ortiz Title: Legal Instruments Examiner Phone: 5752342224 Email: tortiz@blm.gov

Review and Appeal Rights

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

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PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CHEVRON USA
LEASE NO.:	NMNM120901
WELL NAME & NO.:	SND 12 01 FED 003 1H
SURFACE HOLE FOOTAGE:	367'/S & 1210'/E
BOTTOM HOLE FOOTAGE	100'/N & 330'/E
LOCATION:	SECTION 12, T24S, R31E, NMPM
COUNTY:	EDDY, NEW MEXICO



H2S	C Yes	r No	
Potash		• Secretary	C R-111-P
Cave/Karst Potential	© Low		C High
Variance	C None	• Flex Hose	COther
Wellhead	Conventional	Multibowl	C Both
Other	□ 4 String Area	Capitan Reef	F WIPP

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.

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 870 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. Additional cement maybe required. Excess calculates to 11%.
 - 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 in the Potash Area</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

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- 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. 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. Additional cement maybe required. Excess calculates to 9%.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification. Additional cement maybe required. Excess calculates to 21%.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

GENERAL REQUIREMENTS

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

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

Chaves and Roosevelt Counties
 Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
 During office hours call (575) 627-0272.
 After office hours call (575)

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

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Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

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

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. <u>Wait on cement (WOC) for Potash Areas:</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:

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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 hours</u>. 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. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard

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bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
- 5. The appropriate BLM office shall be notified a minimum of 4 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).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).

- c. 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.
- d. 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.
- e. 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.
- f. 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.
- g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

Waste Minimization Plan (WMP)

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

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Approval Date: 11/02/2018

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PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CHEVRON USA
LEASE NO.:	NMNM120901
WELL NAME & NO.:	SND 12 01 FED 003 1H
SURFACE HOLE FOOTAGE:	367'/S & 1210'/E
BOTTOM HOLE FOOTAGE	100'/N & 330'/E
LOCATION:	SECTION 12, T24S, R31E, NMPM
COUNTY:	EDDY

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
Hydrology
Below Ground-level Abandoned Well Marker
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.

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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.

Timing Limitation Exceptions:

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

<u>Hydrology</u>

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 ½ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems

will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

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

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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.

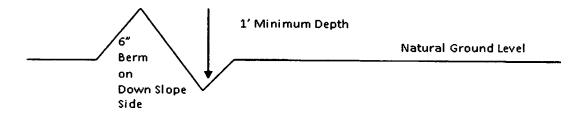
Drainage

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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: 400' + 100' = 200' lead-off ditch interval 4%

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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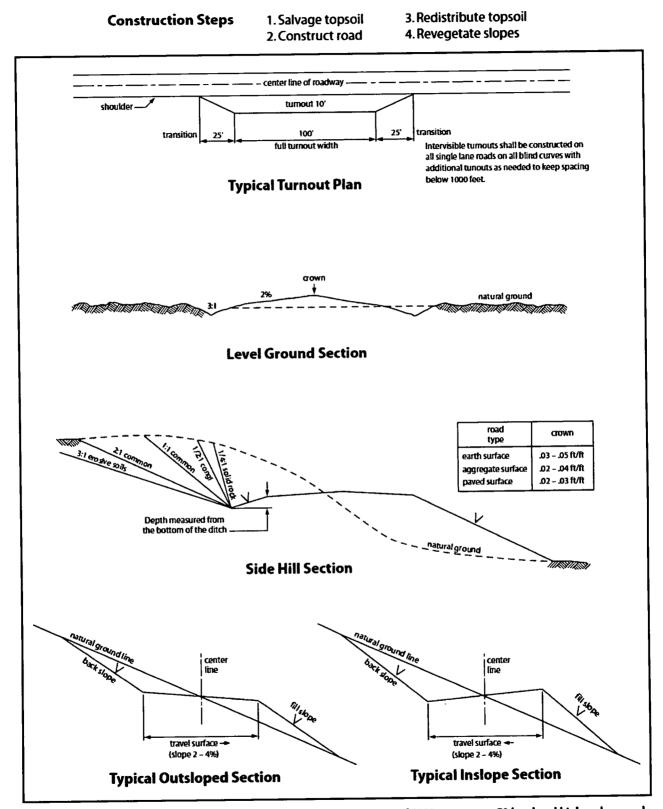


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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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 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

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

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

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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

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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.)

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 $\underline{30}$ 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 6_{--} inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

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

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

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

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

() seed mixture 1	() seed mixture 3
() seed mixture 2	() seed mixture 4
(X) seed mixture 2/LPC	() Aplomado Falcon Mixture

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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:

Wildlife Mitigation Measures

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.

Timing Limitation Exceptions:

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

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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 <u>et seq</u>. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.

5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

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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

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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 reseeded with the seed mixture provided below.

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

IX. FINAL ABANDONMENT & RECLAMATION

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

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

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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.

Page 21 of 22

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	11bs/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: Laura Becerra		Signed on: 11/14/2017
Title: Permitting Speciali	st	
Street Address: 6301 D	eauville Blvd., S2211	
City: Midland	State: TX	Zip : 79706
Phone: (432)687-7665		
Email address: LBecerr	a@Chevron.com	
Field Represe	entative	
Representative Name):	
Street Address:		
City:	State:	Zip:
Phone:		

Email address:

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Apulication Data Report

ALC: CONTRACT

11/02/2018

APD ID: 10400024474

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND 12 01 FED 003

Well Type: OIL WELL

Submission Date: 11/20/2017

Zip: 79706

بهجيرة تتسبب تأثير والسوالي

Well Number: 1H Well Work Type: Drill

22

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Show Final Text

Section 1 - General		
APD ID: 10400024474	Tie to previous NOS?	Submission Date: 11/20/2017
BLM Office: CARLSBAD	User: Laura Becerra	Title: Permitting Specialist
Federal/Indian APD: FED	Is the first lease penetrate	ed for production Federal or Indian? FED
Lease number: NMNM120901	Lease Acres: 360	
Surface access agreement in place?	Allotted?	Reservation:
Agreement in place? NO	Federal or Indian agreem	ent:
Agreement number:		
Agreement name:		
Keep application confidential? NO		
Permitting Agent? NO	APD Operator: CHEVRON	I USA INCORPORATED
Operator letter of designation:		
Operator Info		
Operator Organization Name: CHEVRON	N USA INCORPORATED	

Operator Address: 6301 Deauville Blvd.

Operator PO Box:

Operator City: Midland State: TX

Operator Phone: (432)687-7866

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: SND 12 01 FED 003	Well Number: 1H	Well API Number:					
Field/Pool or Exploratory? Exploratory	Field Name: WILDCAT	Pool Name:					

Is the proposed well in an area containing other mineral resources? USEABLE WATER, NATURAL GAS, OIL

Operator Name: CHEVRON USA INCORPORATED
Well Name: SND 12 01 FED 003

Well Number: 1H

Desc	ribe o	other	miner	als:														
Is the proposed well in a Helium production area? N						N Use E	Existing W	N	New surface disturbance?									
Type of Well Pad: MULTIPLE WELL						Multiple Well Pad Name: SND Number: 1H 2H 3H												
Well	Well Class: HORIZONTAL							FED 003 Der of Leg	s: 1									
Well	Work	Туре	: Drill															
Well	Туре	OIL	NELL															
Desc	ribe \	Nell T	ype:															
Well	sub-1	ype:	EXPL	ORAT	ORY	(WILD	DCAT)										
Desc	ribe s	sub-ty	pe:															
Dista	ance t	o tow	n: 33	Miles			Dis	tance to	o nearest v	veil : 700 F	т	Dist	ance t	ole	ease line	: 330	FT	
Rese	ervoir	well s	spacir	ng ass	igneo	d acre	s Me	asurem	ent: 320 A	cres								
Weil	plat:	SN	ID_12	_01_F	ED_0	003_1	н_с_	102_20	171109114	1702.pdf								
Well	work	start	Date:	04/01	/2017				Durat	t ion: 130 E	DAYS							
	Sec	tion	3 - V	Vell	Loca	atior	n Tal	ble										
Surv	ey Ty	pe: RI	ECTA	NGUL	AR													
Desc	ribe S	Burvey	у Туро	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	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	367	FSL	121 0	FEL	24S	31E	12	Aliquot SESE	32.22563 8	- 103.7269	EDD Y	MEXI	NEW MEXI CO	F	NMNM 120901	358 0	0	0
KOP Leg #1	367	FSL	121 0	FEL	24S	31E	12	Aliquot SESE	32.22563 8	- 103.7269	EDD Y	NEW MEXI CO		F	NMNM 120901		0	0
PPP Leg #1	330	FSL	330	FEL	24S	31E	12	Aliquot SESE	32.22553 4	- 103.7240 55	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 120901	- 545 6	190 60	903 6

FMSS

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

Drilling Plan Data Report

11/02/2018

APD ID: 10400024474

Submission Date: 11/20/2017

Highlighted data reflects the most recent changes

Show Final Text

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND 12 01 FED 003

Well Type: OIL WELL

Well Work Type: Drill

Well Number: 1H

Section 1 - Geologic Formations

Formation ID	Formation Name RUSTLER	Elevation 3580	True Vertical Depth 766	Measured Depth 766	Lithologies LIMESTONE	Mineral Resources NONE	Producing Formation No
	RUSTLER					1015	Nia
2	CASTILE	590	2990	2990	LIMESTONE,ANHYDRIT E,GYPSUM	NONE	No
3	LAMAR	-995	4575	4575	LIMESTONE	NONE	No
4	BELL CANYON	-1046	4626	4626	SANDSTONE	NONE	No
5	CHERRY CANYON	-1900	5480	5480	SANDSTONE	NONE	No
6	BRUSHY CANYON	-3180	6760	6760	SANDSTONE	NONE	No
7	AVALON SAND	-4863	8443	8443	SANDSTONE	USEABLE WATER,NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 9036

Equipment: Chevron will have a minimum of a 5,000 psi rig stack (see proposed schematic) for drill out below surface casing. Wolfcamp is not exposed until drill out of the intermediate casing, stack will be tested as specified in the attached testing requirements.

Requesting Variance? YES

Variance request: Chevron requests a variance to use a FMC Technologies UH-S Multibowl wellhead, which will be run through the rig floor on surface casing. BOPE will be nippled up and tested after cementing surface casing. Subsequent tests will be performed as needed, not to exceed 30 days. The field report from FMC Technologies and BOP test information will be provided in a subsequent report at the end of the well. Please see the attached wellhead schematic. An installation manual has been placed on file with the BLM Office and remains unchanged from previous submittal. Another variance is requested to use a co-flex line between the BOP & choke manifold.

Testing Procedure: Test BOP from 250 psi to 5000 psi in Ram and 250 psi to 3500 psi in annular. BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. Batch drilling of the surface, intermediate, and production will take place. A full BOP test will be performed unless approval from the BLM is received otherwise. Flex choke hose will be used for all wells on the pad (see attached specs). BOP test will be conducted by a third party.

Choke Diagram Attachment:

SND_12_01_FED_003_1H_5M_Choke_20171120140336.pdf

Well Number: 1H

SND_12_01_FED_003_1H_5M_Choke_20171120140336.pdf

BOP Diagram Attachment:

SND_12_01_FED_003_1H_5M_BOP_20171120140347.pdf

5K_BOPE_Choke_Schematic_Testing_Procedures_20180807093233.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 length 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	800	0	800			800	J-55	54.5	STC	3.12	1.8	DRY	3.17	DRY	3.17
2		12.0 25	9.625	NEW	API	N	0	4500	0	4500			4500	L-80	43.5	LTC	1.28	1.23	DRY	1.6	DRY	1.6
-	PRODUCTI ON	8.5	5.5	NEW	API	N	0	19060	0	19060			19060	P- 110	20	OTHER - TXP BTC	1.39	1.15	DRY	2.19	DRY	2.19

Casing Attachments

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

SND_12_01_Fed_003_1H_9pt_plan_v2_20180807092407.pdf

Casing Attachments

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

SND_12_01_FED_003_1H_P110_ICY_TXP_BTC_20171120142211.pdf

Casing Design Assumptions and Worksheet(s):

SND_12_01_FED_003_1H_P110_WEDGE_513_20171120142252.pdf

SND_12_01_FED_003_1H_P110_ICY_TXP_BTC_20171120143225.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

SND_12_01_FED_003_1H_P110_WEDGE_521_20171120142450.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	800	547	1.34	14.8	123	10	CLASS C	NONE

INTERMEDIATE	Lead	0	3500	476	2.56	11.9	217	10	CLASS C	NONE
INTERMEDIATE	Tail	350	4500	287	1.33	14.8	68	10	CLASS C	NONE

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND 12 01 FED 003

Well Number: 1H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		3500	8500	'54L2'	2.46		269	10	et liga n a eta	15(C.974)

PRODUCTION	Lead	8500	1806 0	્ લ્લુઓ	1.85	1/3 <i>2</i> 2	4.9 <u>%</u> _1	10	$(\stackrel{\infty}{\to} \stackrel{\mathcal{M}}{\longrightarrow} \stackrel{\mathcal{M}}{\longrightarrow} (\stackrel{\mathcal{M}}{\to} \stackrel{\mathcal{M}}{\longrightarrow})$		
PRODUCTION	Tail	1806 0	1906 0	i**ø",		15		10		"∋cto sor	

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: A closed system will by utilized consisting of above ground steel tanks. All wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. Sanitary wastes will be contained in a chemical portatoilet and then hauled to an approved sanitary landfill. All fluids and cuttings will be disposed of in accordance with NMOCD regulations.

Describe the mud monitoring system utilized: A mud test shall be performed every 24 hours after mudding up to determine, as applicable, density, viscosity, gel strength, filtration, and pH. Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume. When abnormal pressures are anticipated -- a pit volume totalizer (PVT), stroke counter, and flow sensor will be used to detect volume changes indicating loss or gain of circulating material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate - in compliance with Onshore Order #2.

Circulating Medium Table

Top Depth	Bottom Depth		Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (Ibs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
4500	1906 0	OIL-BASED MUD	8.3	9.5							
800	4500	OTHER : Brine	9	10.1							

Operator Name: CHEVRON USA INCORPORATED Well Name: SND 12 01 FED 003

Well Number: 1H

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	800	SPUD MUD	8.3	8.9							

Section 6 - Test, Logging, Coring

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

Deffi Stream licenst starte most jeft statuted

The logging program will he as follows.

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

CRAWOD:

Coring operation description for the well:

Drill stem tests are not planned; a direction survey will be run - will send log(s) when run.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4464

Anticipated Surface Pressure: 2476.08

Anticipated Bottom Hole Temperature(F): 140

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:

SND_12_01_Fed_003_1H_H2S_Summary_20171120140916.pdf

Operator Name: CHEVRON USA INCORPORATED Well Name: SND 12 01 FED 003

Well Number: 1H

Section 8 - Other Information

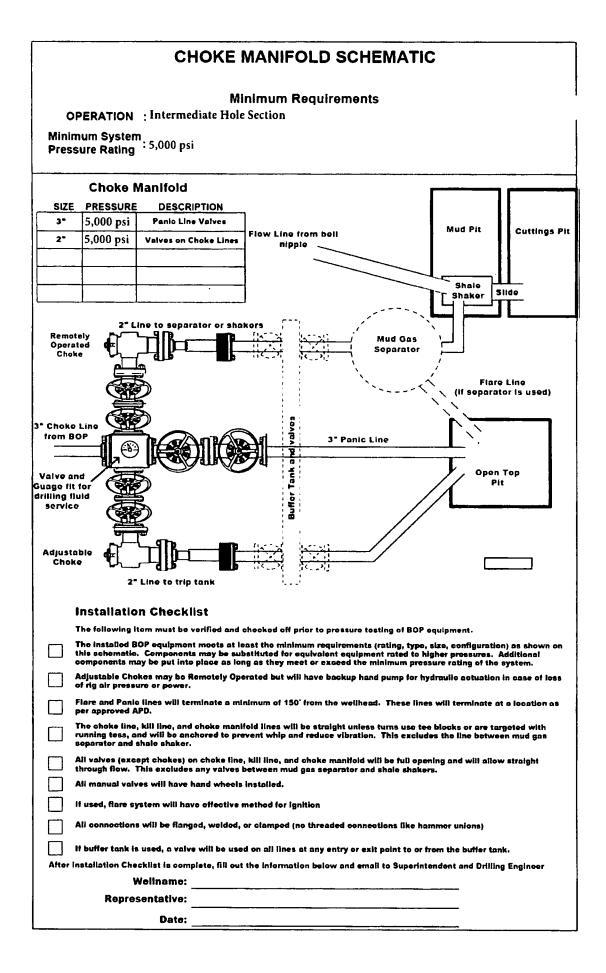
Proposed horizontal/directional/multi-lateral plan submission:

SND_12_01_FED_003_1H_Drilling_Plan_20171120140951.pdf SND_12_01_Fed_003_1H_rig_layout_20171120140951.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Other Variance attachment:

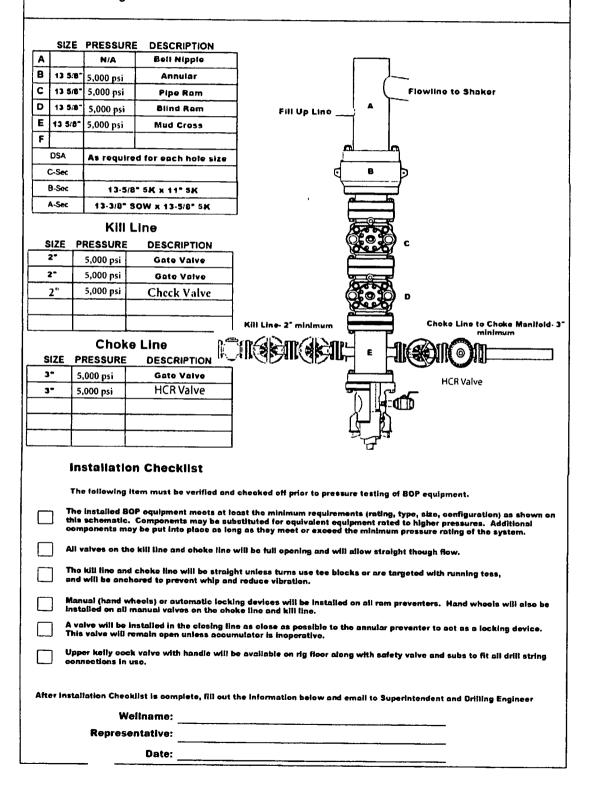


BLOWOUT PREVENTOR SCHEMATIC

Minimum Requirements

OPERATION Intermediate Hole Section

Minimum System Pressure Rating : 5,000 psi



BLOWOUT PREVENTOR SCHEMATIC Minimum Requirements OPERATION : Intermediate and Production Hole Sections Minimum System Pressure Rating 5,000 psi SIZE PRESSURE DESCRIPTION Α **Bell Nipple** N/A В 13 5/8* 5,000 psi Annular **Flowline to Shaker** С 13 5/81 5,000 psi Pipe Ram A D 13 5/8" Blind Ram 5,000 psi Fill Up Line ε 13 5/8* 5,000 psi **Mud Cross** F DSA As required for each hole size в C-Sec **B-Sec** 13-5/8" 5K x 11" 5K A-Sec 13-3/8" SOW x 13-5/8" 5K Kill Line C PRESSURE SIZE DESCRIPTION 2 **Gate Valve** 5,000 psi 2* 5,000 psi **Gate Valve** 2" 5,000 psi **Check Valve** D Choke Line to Choke Manifold- 3 Kill Line- 2" minimum minimum **Choke Line** E 0 PRESSURE DESCRIPTION SIZE Gate Valve 3-5,000 psi HCR Valve HCR Valve 3-5,000 psi ╡ **Installation Checklist** The following item must be verified and checked off prior to pressure testing of BOP equipment. The installed BOP equipment meets at least the minimum requirements (rating, type, size, configuration) as shown on this schematic. Components may be substituted for equivalent equipment rated to higher pressures. Additional components may be put into place as long as they meet or exceed the minimum pressure rating of the system. All valves on the kill line and choke line will be full opening and will allow straight though flow. The kill line and cheke line will be straight unless turns use tee blocks or are targeted with running tess, and will be anchored to prevent whip and reduce vibration. Manual (hand wheels) or automatic locking devices will be installed on all ram preventers. Hand wheels will also be installed on all manual valves on the chake line and kill line. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will remain open unless accumulator is inoperativo. Upper kelly cock valve with handle will be available on rig floor along with safety valve and subs to fit all drill string connections in use. After Installation Checklist is complete, fill out the information below and email to Superintendent and Drilling Engineer Wellname: **Representative:** Date:

Chevron BOPE Testing – 5K and 10K Systems

Minimum Requirements

Closing Unit and Accumulator Checklist

The following item must be performed, verified, and checked off at least once per well prior to low/high pressure testing of BOP equipment. This must be repeated after 6 months on the same well.

Precharge pressure for each accumulator bottle must fall within the range below. Bottles may be further charged with nitrogen gas only. Tested precharge pressures must be recorded for each individual bottle and kept on location through the end of the well. Test will be conducted prior to connecting unit to BOP stack.

Check one that applies		Minimum acceptable operating pressure	Desired precharge pressure	Maximum acceptable precharge pressure	Minimum acceptable precharge pressure
	1500 psi	1500 psi	750 psi	800 psi	700 psi
	2000 psi	2000 psi	1000 psi	1100 psi	900 psi
	3000 psi	3000 psi	1000 psi	1100 psi	900 psi

Accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if used), close all rams, close the annular preventer, and retain a minimum of 200 psi above the maximum acceptable precharge pressure (see table above) on the closing manifold without the use of the closing pumps. This test will be performed with test pressure recorded and kept on location through the end of the well

Accumulator fluid reservoir will be double the usable fluid volume of the accumulator system capacity. Fluid level will be maintained at manufacturer's recommendations. Usable fluid volume will be recorded. Reservoir capacity will be recorded. Reservoir fluid level will be recorded along with manufacturer's recommendation. All will be kept on location through the end of the well.

Closing unit system will have two independent power sources (not counting accumulator bottles) to close the preventers.

Power for the closing unit pumps will be available to the unit at all times so that the pumps will automatically start when the closing valve manifold pressure decreases to the pre-set level. It is recommended to check that air line to accumulator pump is "ON" during each tour change.

With accumulator bottles isolated, closing unit will be capable of opening the hydraulically-operated choke line valve (if used) plus close the annular preventer on the smallest size drill plpe within 2 minutes and obtain a minimum of 200 psi above maximum acceptable precharge pressure (see table above) on the closing manifold. Test pressure and closing time will be recorded and kept on location through the end of the well.

Master controls for the BOPE system will be located at the accumulator and will be capable of opening and closing all proventer and the choke line valve (if used)

Remote controls for the BOPE system will be readily accessible (clear path) to the driller and located on the rig floor (not in the dog house). Remote controls will be capable of closing all preventers.

Record accumulator tests in drilling reports and IADC sheet

BOPE 5K Test Checklist

The following items must be checked off prior to beginning test:

- □ BLM will be given at least 4 hour notice prior to beginning BOPE testing.
- □ Valve on casing head below test plug will be open.
- □ Test will be performed using clear water.

The following items must be performed during the BOPE testing:

- BOPE will be pressure tested when initially installed, whenever any seal subject to test pressure is broken, following related repairs, and at a minimum of 30 day intervals. Test pressure and times will be recorded by a 3rd party on a test charge and kept on location through the end of the well.
- □ Test plug will be used.
- Ram type preventer and all related well control equipment will be tested to 250 psi (low) and 5,000 psi (high).
- □ Annular type preventer will be tested to 250 psi (low) and 3,500 psi (high).
- Valves will be tested fromt eh working pressure side with all downstream valves open.
 The check valve will be held open to test the kill line valve(s).
- □ Each pressure test will be held for 10 minutes with no allowable leak off.
- Master controls and remote controls to the closing unit (accumulator) must be function tested as part of the BOPE test.
- □ Record BOP tests and pressures in drilling reports and IADC sheet.

BOPE 10K (with 5K annular) Test Checklist

The following items must be checked off prior to beginning test:

- □ BLM will be given at least 4 hour notice prior to beginning BOPE testing.
- □ Valve on casing head below test plug will be open.
- □ Test will be performed using clear water.

The following items must be performed during the BOPE testing:

- BOPE will be pressure tested when initially installed, whenever any seal subject to test pressure is broken, following related repairs, and at a minimum of 30 day intervals. Test pressure and times will be recorded by a 3rd party on a test charge and kept on location through the end of the well.
- □ Test plug will be used.
- □ Ram type preventer and all related well control equipment will be tested to 250 psi (low) and 7,500 psi (high).
- □ Annular type preventer will be tested to 250 psi (low) and 5,000 psi (high).
- Valves will be tested from the working pressure side with all downstream valves open.
 The check valve will be held open to test the kill line valve(s).
- □ Each pressure test will be held for 10 minutes with no allowable leak off.
- □ Master controls and remote controls to the closing unit (accumulator) must be function tested as part of the BOPE test.
- □ Record BOP tests and pressures in drilling reports and IADC sheet.

For the latest performance data, always visit our website: www.tenaris.com

January 18 2016



Connection: TenarisXP® BTC Casing/Tubing: CAS Coupling Option: REGULAR

Size: 5.500 in. Wall: 0.361 in. Weight: 20.00 lbs/ft Grade: P110-ICY Min. Wall Thickness: 87.5 %

		PIPE BODY			
		GEOMET	RY		
Nominal OD	5.500 in.	Nominal Weight 2	2 0.00 lbs/ft	Standard Drift Diameter	4.653 in.
Nominal ID	4.778 in.	Wall Thickness).361 in.	Special Drift Diameter	N/A
Plain End Weight	19.83 lbs/ft				
		PERFORM	ANCE		
Body Yield Strength	729 × 1000 lbs	Internal Yield	14360 psi	SMYS	125000 psi
Collapse	12100 psi				
	TE	NARISXP® BTC CO	NNECTION D	ATA	
		GEOMET		1	
Connection OD	6.100 in.	Coupling Length	9.450 in.	Connection ID	4,766 in.
Critical Section Area	5.828 sq. in.	Threads per in.	5.00	Make-Up Loss	4.204 in.
		PERFORM	ANCE		
Tension Efficiency	/ 100 %	Joint Yield Strength	729 x 1000 Ibs	Internal Pressure Capacity ^(<u>1</u>)	14360 psi
Structural Compression Efficiency	100 %	Structural Compression Strength	729 x 1000 Ibs	Structural Bending ^(<u>2</u>)	104 °/100 f
External Pressure Capacity	• 12100 psi				
		ESTIMATED MAKE-	UP TORQUES	;(3)	
Minimum	11540 ft-lbs	Optimum	12820 ft-lbs	Maximum	14100 ft-lt
		OPERATIONAL LI	MIT TORQUE	s	
Operating Torque	e 22700 ft-lbs	Yield Torque	25250 ft-lb	5	
		BLANKING DI	MENSIONS		
		Blanking Di	mensions		
	Nominal ID Plain End Weight Body Yield Strength Collapse Connection OD Critical Section Area Tension Efficiency Structural Compression Efficiency External Pressure Capacity Minimum	Nominal ID 4.778 in. Plain End Weight 19.83 lbs/ft Body Yield 729 x 1000 lbs Strength 12100 psi Collapse 12100 psi TEG Connection OD 6.100 in. Critical Section 5.828 sq. in. Area 100 % Structural Compression 100 % Structural Compressure 12100 psi External Pressure Capacity 11540 ft-lbs	GEOMETNominal OD5.500 in.Nominal Weight2Nominal ID4.778 in.Wall Thickness0Plain End Weight19.83 lbs/ftPERFORM/Body Yield729 x 1000 lbsInternal Yield1Strength729 x 1000 lbsInternal Yield1Collapse12100 psiTENARISXP@ BTC COConnection OD6.100 in.Coupling LengthCritical Section Area5.828 sq. in.Threads per in.PERFORM5.828 sq. in.Threads per in.Structural Compression100 %Structural CompressionStructural Capacity100 %Structural CompressionExternal Pressure Capacity12100 psiCoperating Torque22700 ft-lbsYield TorqueYield Torque	Nominal ID 4.778 in. Wall Thickness 0.361 in. Plain End Weight 19.83 lbs/ft PERFORMANCE Body Yield 729 x 1000 lbs Strength Collapse 12100 psi TENARISXP® BTC CONNECTION D GEOMETRY Connection OD 6.100 in. Critical Section Area 5.828 sq. in. Area PERFORMANCE PERFORMANCE Tension Efficiency 100 % Structural Compression 100 % Efficiency External Pressure Capacity IDD PSi ESTIMATED MAKE-UP TORQUES Minimum 11540 ft-lbs OPERATIONAL LIMIT TORQUE	GEOMETRYNominal OD5.500 in.Nominal Weight20.00 lbs/ftStandard DriftNominal ID4.778 in.Wall Thickness0.361 in.Special DriftPlain End Weight19.83 lbs/ftPERFORMANCESpecial DriftBody Yield Strength729 x 1000 lbsInternal Yield14360 psiSMYSCollapse12100 psiInternal Yield14360 psiSMYSConnection OD6.100 in.Coupling Length9.450 in.Connection IDConnection OD6.100 in.Coupling Length9.450 in.Connection IDAreaThreads per in.5.00Make-Up LossPERFORMANCETension Efficiency100 %Structural Compression729 x 1000 IbsInternal Pressure Capacity(1)Structural Compression100 %Structural CompressionStructural Bending(2)ESTIMATED MAKE-UP TORQUES(3)External Pressure CapacityOptimum12820 ft-IbsMaximumOperating Torque22700 ft-IbsYield Torque25250 ft-IbsOperating Torque22700 ft-IbsYield Torque25250 ft-Ibs

(1) Internal Pressure $C_{x_{1}}$ _ity related to structural resistance only. Internal pressure leak resistance as per section 10.3 API 5C3 / ISO 10400 - 2007.

(2) Structural rating, pure bending to yield (i.e no other loads applied)

(3) Torque values calculated for API Modified thread compounds with Friction Factor=1. For other thread compounds please contact us at <u>licensees@oilfield.tenaris.com</u>. Torque values may be further reviewed. For additional information, please contact us at <u>contact-tenarishydril@tenaris.com</u>

1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

SUB-SEA TVD	KBTVD	MD
	766	
	2,990	
	4,575	
	4,626	
	5,480	
	6,760	
	8,443	
	9,036	19,060
	9,380	
	10,032	
	11,330	
	11,769	
	12,545	
	SUB-SEA TVD	766 2,990 4,575 4,626 5,480 6,760 8,443 9,036 9,380 10,032 11,330 11,769

2. ESTIMATED DEPTH OF WATER, OIL, GAS & OTHER MINERAL BEARING FORMATIONS

The estimated depths at which the top and bottom of the anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered are as follows:

Substance	Formation	Depth
Deepest Ex	pected Base of Fresh Water	400
Water	Castile	2,990
Water	Cherry Canyon	5,480
Oil/Gas	Brushy Canyon	6,760
Oil/Gas	Avaion	8,443
Oil/Gas	First Bone Spring	9,380
Õil/Gas	Second Bone Spring	10,032
Oil/Gas	Third Bone Spring	11,330
Oil/Gas	Wolfcamp A	11,769
Oil/Gas	Wolfcamp B	12,545

All shows of fresh water and minerals will be reported and protected.

3. BOP EQUIPMENT

Chevron will have a minimum of a 5 000 psi rig stack (see proposed schematic) for drill out below surface casing. The stack will be tested as specified in the attached testing requirements. Betch drilling of the surface, intermediate, and production will take place. A full, BOP test will be performed unless approval from BLM is redelved otherwise. Flex choke hose will be used for all wells on the pad (see attached specs). BOP test will be conducted by a third party. į,

Chevron requests a variance to use a FMC Technologies UH-S Multibowi wellhead which will be run through the rig floor on surface pasing. BOPE will be nippled up and tested after comenting surface casing. Subsequent tests will be performed as needed, not to exceed 30 days. The field report from FMC Technologies and BOP test information will be provided in a subsequent report at the end of the well. Please see the attached wellhead schematic. An installation manual has been placed on file with the BLM office and remains unchanged from previous i se a 2011 - 144 submittal 🚓 1.1

31.

4. CASING PROGRAM

a. The proposed casing program will be as follows:

Purpose	From	То	Hole Size	Csg Size	Weight	Grade	Thread	Condition
Surface	0'	800'	17-1/2"	13-3/8"	54.5 #	J-55	STC	New
Intermediate	0'	4,500'	12-1/4"	9-5/8"	43.5#	L-80 IC	LTC	New
Production	0'	19,060'	8-1/2"	5-1/2"	20.0 #	P-110 ICY	TXP BTC	New

b. Casing design subject to revision based on geologic conditions encountered.

- C. ***A "Worst Case" casing design for wells in a particular area is used below to calculate the Casing Safety Factors. If for any reason the casing design for a particular well requires setting casing deeper than the following "worst case" design, then the Casing Safety Factors will be recalculated & sent to the BLM prior to drilling.
- d. Chevron will fill casing at a minimum of every 20 jts (840') while running for intermediate and production casing in order to maintain collapse SF.

SF Calculations based on the following "Worst Case" casing design:

Casing String	Min SF Burst	Min SF Collapse	Min SF Tension	Min SF Tri-Axial
Surface	1.80	3.12	3.17	2.26
Intermediate	1.23	1.28	1.60	1.50
Production	1.15	1.39	2.19	1.38

The following worst case load cases were considered for calculation of the above Min. Safety Factors:

Burst Design		Surf	Int	Prod
Pressure Test- Surfac	e, Int, Prod Csg	X	X	X
P external:	Mud weight above TOC, PP below	1		
P internal:	Test psi + next section heaviest mud in csg			
Displace to Gas- Surf	Csg	х		
P external:	Mud weight above TOC, PP below			
P internal:	Dry Gas from Next Csg Point			
Gas over mud (60/40)	- Int Csg/Liner		x	
P external:	Mud weight above TOC, PP below			
P internal:	60% gas over 40% mud from Pilot hole TD PP			
Stimulation (Frac) Pre	ssures- Prod Csg			X
P external:	Mud weight above TOC, PP below			
P internal:	Max inj pressure w/ heaviest injected fluid			
Tubing leak- Prod Cso	g (packer at KOP)			X
P external:	Mud weight above TOC, PP below			
P internal:	Leak just below surf, 8.45 ppg packer fluid			
Collapse Design				
Full Evacuation		X	X	X
P external:	Mud weight gradient	1		
P internal:	none			
Cementing- Surf, Int,	Prod Csg	X	×	x
P external:	Wet cement	1		
P internal:	displacement fluid - water			
Tension Design				
100k ib overpuli		X	X	X

ONSHORE ORDER NO. 1 Chevron SND 12 01 Fed 003 1H Eddy County, NM

5. CEMENTING PROGRAM

Slurry	Туре	Тор	Bottom	Weight	Yield	%Excess	Sacks	Water	Volume
Surface				(ppg)	(cu ft/sk)	Open Hole		gal/sk	bbls
Tail	Class C	0'	800'	14.8	1.34	10	547	6.40	123
Intermediate Csg									-
Lead	Class C	0'	3,500'	11.9	2.56	10	476	14.66	217
Tail		3,500'	4,500'	14.8	1.33	10	287	6.37	68
Production									
Lead 1	Class C	3,500'	8,500'	11.9	2.46	10	512	14.05	
Lead 2	Class C	8,500'	18,060'	13.2	1.85	10	1301	9,87	429
Tail	Acid Sol Class H	18,060'	19,060'	15	2,19	10	120	9.54	47

1. Final cement volumes will be determined by caliper.

2. Surface casing shall have at least one centralizer installed on each of the bottom three joints starting with the shoe joint.

3. Production casing will have one horizontal type centralizer on every joint for the first 1000' from TD, then every other joint to EOB, and then every third joint to KOP. Bowspring type centralizers will be run from KOP to intermediate casing.

4,464 psi

6. MUD PROGRAM

From	То	Туре	Weight	Viscosity	Filtrate
0'	800'	Spud Mud	8.3 - 8.9	28-30	N/C
800'	4,500'	Brine	9.0 - 10.1	28-31	N/C
4,500'	19,060'	OBM	8.3 - 9.5	10-15	15-25

A closed system will be utilized consisting of above ground steel tanks. All wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. Sanitary wastes will be contained in a chemical porta-toilet and then hauled to an approved sanitary landfill.

All fluids and cuttings will be disposed of in accordance with New Mexico Oil Conservation Division rules and regulations.

A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.

Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume. When abnormal pressures are anticipated – a pit volume totalizer (PVT), stroke counter, and flow sensor will be used to detect volume changes indicating loss or gain of circulating fluid volume.

A weighting agent and lost circulating material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate.

7. TESTING, LOGGING, AND CORING

The anticipated type and amount of testing, logging, and coring are as follows:

- a. Drill stem tests are not planned.
- b. The logging program will be as follows:

TYPE	Logs	Interval	Timing
Mudlogs	2 man mudlog	Int Csg to TD	Drill out of Surt Cag Shoe
LWD	MWD Gamma	Int. and Prod. Hole	While Drilling

c. Conventional whole core samples are not planned.

d. A Directional Survey will be run.

8. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

a. No abnormal pressure or temperatures are expected. Estimated BHP is:

b. Hydrogen sulfide gas is not anticipated. An H2S Contingency plan is attached with this APD in the event that H2S is encountered

For the latest performance data, always visit our website: www.tenaris.com

June 17 2015



Connection: Wedge 513[™] Casing/Tubing: CAS

Size: 7.625 in. Wall: 0.375 in. Weight: 29.70 lbs/ft Grade: P110-IC Min. Wall Thickness: 87.5 %

PIPE BODY DATA

		GEOM	IETRY		
Nominal OD	7.625 in.	Nominal Weight	29.70 lbs/ft	Standard Drift Diameter	6.750 in.
Nominal ID	6.875 in.	Wall Thickness	0.375 in.	Special Drift Diameter	N/A
Plain End Weight	29.06 lbs/ft				
		PERFOR	RMANCE		
Body Yield Strength	940 x 1000 lbs	Internal Yield	9470 psi	SMYS	110000 psi
Collapse	7150 psi				

WEDGE 513[™] CONNECTION DATA

		GEOMET	RY		
Connection OD	7.625 in.	Connection ID	6.800 in.	Make-Up Loss	4.420 in.
Critical Section Area	5.125 sq. in.	Threads per in.	3.29		
		PERFORM	ANCE		-
Tension Efficiency	60.0 %	Joint Yield Strength	564 × 1000 Ibs	Internal Pressure Capacity	9470 psi
Compression Strength	707 × 1000 lbs	Compression 75.2 % Efficiency		Bending	40 °/100 ft
External Pressure Capacity	7150 psi				
		MAKE-UP TO	RQUES		
Minimum	9000 ft-lbs	Optimum	10800 ft-lbs	Maximum ^(<u>*</u>)	15800 ft-lbs
		OPERATIONAL LIN	MIT TORQUES		
Operating Torque	47000 ft-lbs	Yield Torque	70000 ft-lbs		
^		BLANKING DI	IENSIONS		

Blanking Dimensions

* If you need to use torque values that are higher than the maximum indicated, please contact a local

Tenaris technical sales representative.

January 18 2016



Connection: TenarisXP® BTC **Casing/Tubing**: CAS **Coupling Option**: REGULAR

Size: 5.500 in. Wall: 0.361 in. Weight: 20.00 lbs/ft Grade: P110-ICY Min. Wall Thickness: 87.5 %

2			PIPE BODY	DATA		
\$			GEOMET	RY		
	Nominal OD	5.500 in.	Nominal Weight	20.00 lbs/ft	Standard Drift Diameter	4.653 in.
ž	Nominal ID	4.778 in.	Wall Thickness 0.361 in.		Special Drift Diameter	N/A
ξ	Plain End Weight	19.83 lbs/ft				
ξ			PERFORM	ANCE		
ş	Body Yield Strength	729 x 1000 lbs	Internal Yield	14360 psi	SMYS	125000 psi
Ę.	Collapse	12100 psi				
		TE	NARISXP® BTC CO	NNECTION D	ATA	
ĺ			GEOMET	RY		
[]	Connection OD	6.100 in.	Coupling Length	9.450 in.	Connection ID	4.766 in.
ş	Critical Section Area	5.828 sq. in.	Threads per in.	5.00	Make-Up Loss	4.204 in.
3			PERFORM	ANCE	-	
Ş	Tension Efficiency	100 %	Joint Yield Strength	729 x 1000 lbs	Internal Pressure Capacity ^(<u>1</u>)	14360 psi
AAAA	Structural Compression Efficiency	100 %	Structural Compression Strength	729 x 1000 Ibs	Structural Bending ^(<u>2</u>)	104 °/100 ft
5 5	External Pressure Capacity	12100 psi	-			
		E	STIMATED MAKE-U	IP TORQUES	3)	
	Minimum	11540 ft-lbs	Optimum	12820 ft-lbs	Maximum	14100 ft-lbs
			OPERATIONAL LI	MIT TORQUES	5	
	Operating Torque	22700 ft-lbs	Yield Torque	25250 ft-lbs		
			BLANKING DI	MENSIONS		
			Blanking Din	nensions		

(1) Internal Pressure C. . .ty related to structural resistance only. Interna. . . .essure leak resistance as per section 10.3 API 5C3 / ISO 10400 - 2007.

(2) Structural rating, pure bending to yield (i.e no other loads applied)

ι

(3) Torque values calculated for API Modified thread compounds with Friction Factor=1. For other thread compounds please contact us at <u>licensees@oilfield.tenaris.com</u>. Torque values may be further reviewed. For additional information, please contact us at <u>contact-tenarishydril@tenaris.com</u>

For the latest performance data, always visit our website: www.tenaris.com

May 12 2015



Connection: Wedge 521[™] **Casing/Tubing**: CAS

Size: 5.000 in. Wall: 0.362 in. Weight: 18.00 lbs/ft Grade: P110-IC Min. Wall Thickness: 87.5 %

PIPE BODY DATA GEOMETRY Standard Drift Nominal OD 5.000 in. Nominal Weight 18.00 lbs/ft 4.151 in. Diameter Special Drift Nominal ID 4.276 in. Wall Thickness 0.362 in. N/A Diameter Plain End Weight 17.95 lbs/ft PERFORMANCE Body Yield 580 × 1000 lbs Internal Yield 13940 psi SMYS 110000 psi Strength Collapse 14840 psi WEDGE 521TM CONNECTION DATA GEOMETRY Connection OD 5.359 in. Connection ID 4.226 in. Make-Up Loss 3.620 in. Critical Section 3.891 sq. in. Threads per in. 3.36 Area PERFORMANCE 428 × 1000 Internal Pressure Tension Efficiency 73.8 % Joint Yield Strength 13940 psi lbs Capacity Compression Compression 514 x 1000 lbs 88.7 % Bending 75 º/100 ft Strength Efficiency **External Pressure** 14840 psi Capacity MAKE-UP TORQUES Minimum 6100 ft-lbs Optimum 7300 ft-lbs Maximum (±) 10700 ft-lbs **OPERATIONAL LIMIT TORQUES** 17300 ft-lbs 26000 ft-lbs Operating Torque Yield Torque **BLANKING DIMENSIONS**

Blanking Dimensions

* If you need to use torque values that are higher than the maximum indicated, please contact a local

Tenaris technical sales representative.





SND 12 01 Fed 003 1H, 2H, 3H

Training

MCBU Drilling and Completions H₂S training requirements are intended to define the minimum level of training required for employees, contractors and visitors to enter or perform work at MCBU Drilling and Completions locations that have known concentrations of H₂S.

Awareness Level

Employees and visitors to MCBU Drilling and Completions locations that have known concentrations of H_2S , who are not required to perform work in H_2S areas, will be provided with an awareness level of H_2S training prior to entering any H_2S areas. At a minimum, awareness level training will include:

- 1. Physical and chemical properties of H₂S
- 2. Health hazards of H₂S
- 3. Personal protective equipment
- 4. Information regarding potential sources of H₂S
- 5. Alarms and emergency evacuation procedures

Awareness level training will be developed and conducted by personnel who are qualified either by specific training, educational experience and/or work-related background.

Advanced Level H₂S Training

Employees and contractors required to work in areas that may contain H₂S will be provided with Advanced Level H₂S training prior to initial assignment. In addition to the Awareness Level requirements, Advanced Level H₂S training will include:

- 1. H₂S safe work practice procedures;
- 2. Emergency contingency plan procedures;
- 3. Methods to detect the presence or release of H₂S (e.g., alarms, monitoring equipment), including hands-on training with direct reading and personal monitoring H₂S equipment.
- Basic overview of respiratory protective equipment suitable for use in H₂S environments. Note: Employees who work at sites that participate in the Chevron Respirator User program will require separate respirator training as required by the MCBU Respiratory Protection Program;
- Basic overview of emergency rescue techniques, first aid, CPR and medical evaluation procedures. Employees who may be required to perform "standby" duties are required to receive additional first aid and CPR training, which is not covered in the Advanced Level H₂S training;
- 6. Proficiency examination covering all course material.

Advanced H₂S training courses will be instructed by personnel who have successfully completed an appropriate H₂S train-the-trainer development course (ANSI/ASSE Z390.1-2006) or who possess significant past experience through educational or work-related background.

H₂S Preparedness and Contingency Plan Summary



H₂S Training Certification

All employees and visitors will be issued an H₂S training certification card (or certificate) upon successful completion of the appropriate H₂S training course. Personnel working in an H₂S environment will carry a current H₂S training certification card as proof of having received the proper training on their person at all times.

Briefing Area

A minimum of two briefing areas will be established in locations that at least one area will be upwind from the well at all times. Upon recognition of an emergency situation, all personnel should assemble at the designated upwind briefing areas for instructions.

H₂S Equipment

Respiratory Protection

- a) Six 30 minute SCBAs 2 at each briefing area and 2 in the Safety Trailer.
- b) Eight 5 minute EBAs 5 in the dog house at the rig floor, 1 at the accumulator, 1 at the shale shakers and 1 at the mud pits.

Visual Warning System

- a) One color code sign, displaying all possible conditions, will be placed at the entrance to the location with a flag displaying the current condition.
- b) Two windsocks will be on location, one on the dog house and one on the Drill Site Manager's Trailer.

H₂S Detection and Monitoring System

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- a) H₂S monitoring system (sensor head, warning light and siren) placed throughout rig.
 - Drilling Rig Locations: at a minimum, in the area of the Shale shaker, rig floor, and bell nipple.
 - Workover Rig Locations: at a minimum, in the area of the Cellar, rig floor and circulating tanks or shale shaker.

H₂S Preparedness and Contingency Plan Summary



Well Control Equipment

- a) Flare Line 150' from wellhead with igniter.
- b) Choke manifold with a remotely operated choke.
- c) Mud / gas separator

Mud Program

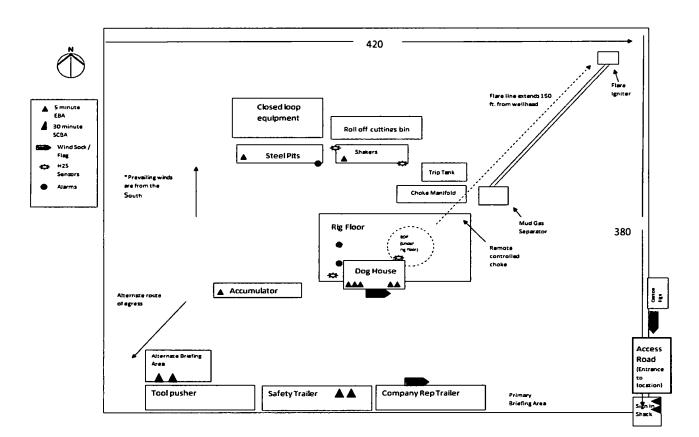
In the event of drilling, completions, workover and well servicing operations involving a hydrogen sulfide concentration of 100 ppm or greater the following shall be considered:

- 1. Use of a degasser
- 2. Use of a zinc based mud treatment
- 3. Increasing mud weight

Public Safety - Emergency Assistance

Agency	Telephone Number
Eddy County Sheriff's Department	575-887-7551
Carlsbad Fire Department	575-885-3125
Carlsbad Medical Center	575-887-4100
Eddy County Emergency Management	575-885-3581
Poison Control Center	800-222-1222

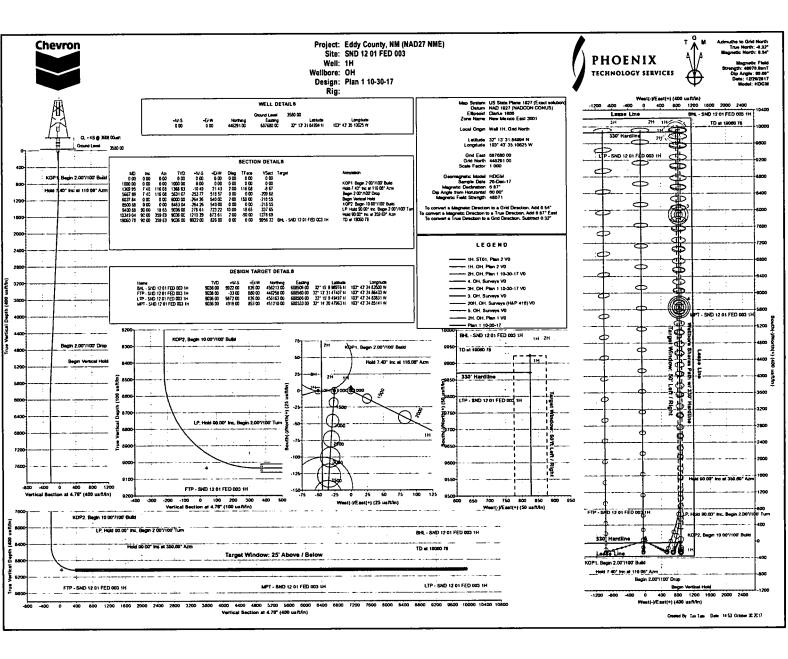
H₂S Preparedness and Contingency Plan Summary



Page 4 of 4

SND 12 01 Fed 003 1H, 2H, 3H

Chevron





Chevron

Eddy County, NM (NAD27 NME) SND 12 01 FED 003 1H

OH

Plan: Plan 1 10-30-17

Standard Planning Report

30 October, 2017





Phoenix Technology Services LP Planning Report



Database: Company: Project: Site: Well: Wellbore: Design:	Chevr Eddy (SND 1 1H OH	ass 5000 GCI on County, NM (1 12 01 FED 003 10-30-17	NAD27 NME)	TVD Refe MD Refer North Re	ence:	(Vell 1H SL + KB @ 36(SL + KB @ 36(Grid Minimum Curva)8.00usft	
Project	Eddy C	County, NM (N	IAD27 NME)							
Map System: Geo Datum: Map Zone:	NAD 193	e Plane 1927 27 (NADCON xico East 300	CONUS)	on)	System Da	atum:	Me	an Sea Level		
Site	SND 1	2 01 FED 003	 }	-				-		
Site Position: From: Position Uncer	•	Northing: Map Easting: 0.00 usft Slot Radius:		•	91.00 usft 80.00 usft 13-3/16 "	Latitude: Longitude: Grid Convei	gence:		2° 13' 31.84994 N 3° 43' 35.10625 W 0.32 °	
Well	1H									
Well Position	+N/-S +E/-W			orthing: Isting:		446,291.00 687,680.00		itude: ngitude:	-	2° 13' 31.84994 N 3° 43' 35.10625 W
Position Uncer	rtainty	0.0	0 usft W	ellhead Ele	vation:	0.00	usft Gro	ound Level:		3,580.00 usft
Wellbore	OH							-	- ·	
Magnetics	Мо	del Name	Name Sample Date		Declina (°)	ntion	Dip A ('	•	Field Str (nT	-
		HDGM	12	2/26/2017		6.87		60.00		48,071
Design Audit Notes: Version:	Plan 1	10-30-17	Phas	;e:	PROTOTYPE	, , Ti	e On Depth:		0.00	
Vertical Section	on:	De	epth From (T (usft) 0.00	VD)	+N/-S (usft) 0.00	(u	E/-W Isft) 1.00		ection (°) 76	
Plan Sections	·									
Measured Depth i (usft)	nclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	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	
1,369.95	7.40	116.08	1,368.93	-10.49		2.00			116.08 0.00	
5,667.89	7.40	116.08	5,631.08	-253.77		0.00 2.00			0.00 180.00	
6,037.84	0.00	0.00	6,000.00 8.462.04	-264.26 -264.26		0.00			0.00	
8,500.88	0.00	0.00	8,463.04 9,036.00	-264.26 278.61		10.00			18.65	
9,400.88	90.00	18.65								
10,349.04	90.00	359.69	9,036.00	1,210.39	873.61	2.00	0.00	-2.00	-90.00	



noenix Technology Services LP

Planning Report



Database: Company: Project: Site:	Compass 5000 GCR Chevron Eddy County, NM (NAD27 NME) SND 12 01 FED 003	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:	Well 1H GL + KB @ 3608.00usft GL + KB @ 3608.00usft Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН	-	
Design:	Plan 1 10-30-17		

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	. ,	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00 0.00
	jin 2.00°/100' E		1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	2.00	116.08	1,099.98	-0.77	1.57	-0.63	2.00	2.00	0.00
1,200.00	4.00	116.08	1,199.84	-3.07	6.27	-0.03	2.00	2.00	0.00
1,300.00	6.00	116.08	1,299.45	-6.90	14.10	-5.71	2.00	2.00	0.00
1,369.95	7.40	116.08	1,368.93	-10.49	21.43	-8.67	2.00	2.00	0.00
	Inc at 116.08°								
1,400.00	7.40	116.08	1,398.72	-12.19	24.90	-10.08	0.00	0.00	0.00
1,500.00	7.40	116.08	1,497.89	-17.85	36.47	-14.76	0.00	0.00	0.00
1,600.00 1,700.00	7.40 7.40	116.08	1,597.06	-23.51	48.04	-19.44	0.00	0.00	0.00
		116.08	1,696.22	-29.17	59.60	-24.12	0.00	0.00	0.00
1,800.00	7.40	116.08	1,795.39	-34.83	71.17	-28.80	0.00	0.00	0.00
1,900.00	7.40	116.08	1,894.56	-40.49	82.74	-33.49	0.00	0.00	0.00
2,000.00	7.40	116.08	1,993.73	-46.15	94.30	-38.17	0.00	0.00	0.00
2,100.00	7.40	116.08	2,092.89	-51.81	105.87	-42.85	0.00	0.00	0.00
2,200.00	7.40	116.08	2,192.06	-57.47	117.44	-47.53	0.00	0.00	0.00
2,300.00	7.40	116.08	2,291.23	-63.13	129.01	-52.21	0.00	0.00	0.00
2,400.00	7.40	116.08	2,390.40	-68.79	140.57	-56.89	0.00	0.00	0.00
2,500.00	7.40	116.08	2,489.56	-74.45	152.14	-61.57	0.00	0.00	0.00
2,600.00	7.40	116.08	2,588.73	-80.11	163.71	-66.26	0.00	0.00	0.00
2,700.00	7.40	116.08	2,687.90	-85.77	175.27	-70.94	0.00	0.00	0.00
2,800.00	7.40	116.08	2,787.07	-91.43	186.84	-75.62	0.00	0.00	0.00
2,900.00	7.40	116.08	2,886.23	-97.10	198.41	-80.30	0.00	0.00	0.00
3,000.00	7.40	116.08	2,985.40	-102.76	209.98	-84.98	0.00	0.00	0.00
3,100.00	7.40	116.08	3,084.57	-108.42	221.54	-89.66	0.00	0.00	0.00
3,200.00	7.40	116.08	3,183.73	-114.08	233.11	-94.34	0.00	0.00	0.00
3,300.00	7.40	116.08	3,282.90	-119.74	244.68				
3,400.00	7.40	116.08	3,382.07	-119.74	244.00	-99.03 -103.71	0.00 0.00	0.00 0.00	0.00 0.00
3,500.00	7.40	116.08	3,481.24	-131.06	267.81	-108.39	0.00	0.00	0.00
3,600.00	7.40	116.08	3,580.40	-136.72	279.38	-113.07	0.00	0.00	0.00
3,700.00	7.40	116.08	3,679.57	-142.38	290.95	-117.75	0.00	0.00	0.00
3,800.00	7.40	116.08	3,778,74	-148.04					
3,900.00	7.40	116.08	3,877.91	-146.04 -153.70	302.51 314.08	-122.43 -127.11	0.00	0.00	0.00
4,000.00	7.40	116.08	3,977.07	-159.36	325.65	-127.11	0.00 0.00	0.00 0.00	0.00 0.00
4,100.00	7.40	116.08	4,076.24	-165.02	337.21	-136.48	0.00	0.00	0.00
4,200.00	7.40	116.08	4,175.41	-170.68	348.78	-141.16	0.00	0.00	0.00
4,300.00	7.40								
4,400.00	7.40	116.08	4,274.58	-176.34	360.35	-145.84	0.00	0.00	0.00
4,400.00	7.40	116.08 116.08	4,373.74 4,472.91	-182.00	371.92 383.48	-150.52	0.00	0.00	0.00
4,600.00	7.40	116.08	4,472.91 4,572.08	-187.67 -193.33	363.46	-155.20	0.00	0.00	0.00
4,700.00	7.40	116.08	4,572.08	-193.33	406.62	-159.88	0.00	0.00	0.00
						-164.57	0.00	0.00	0.00
4,800.00	7.40	116.08	4,770.41	-204.65	418.18	-169.25	0.00	0.00	0.00
4,900.00	7.40	116.08	4,869.58	-210.31	429.75	-173.93	0.00	0.00	0.00
5,000.00	7.40	116.08	4,968.75	-215.97	441.32	-178.61	0.00	0.00	0.00
5,100.00	7.40	116.08	5,067.91	-221.63	452.89	-183.29	0.00	0.00	0.00
5,200.00	7.40	116.08	5,167.08	-227.29	464.45	-187.97	0.00	0.00	0.00
5,300.00	7.40	116.08	5,266.25	-232.95	476.02	-192.66	0.00	0.00	0.00
5,400.00	7.40	116.08	5,365.42	-238.61	487.59	-197.34	0.00	0.00	0.00
5,500.00	7.40	116.08	5,464.58	-244.27	499.15	-202.02	0.00	0.00	0.00
5,600.00	7.40	116.08	5,563.75	-249.93	510.72	-206.70	0.00	0.00	0.00
5,667.89	7.40	116.08	5,631.08	-253.77	518.57	-209.88	0.00	0.00	0.00



Phoenix Technology Services L.

Planning Report



Database: Company: Project: Site: Well: Wellbore:	Compass 5000 GCR Chevron Eddy County, NM (NAD27 NME) SND 12 01 FED 003 1H OH	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Well 1H GL + KB @ 3608.00usft GL + KB @ 3608.00usft Grid Minimum Curvature
Design:	Plan 1 10-30-17		

Planned Survey

fleasured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100ust
5,700.00	6.76	116.08	5,662.94	-255.51	522.13	-211.32	2.00	-2.00	0.
5,800.00	4.76	116.08	5,762.43	-259.92	531.14	-214.96	2.00	-2.00	0.
	2.76	116.08	5,862.21	-262.80	537.02	-217.34	2.00	-2.00	0.
5,900.00	0.76	116.08	5,962.16	-264.15	539.78	-218.46	2.00	-2.00	0.
6,000.00		0.00	6,000.00	-264.26	540.00	-218.55	2.00	-2.00	Ŭ.
6,037.84 Begin Ver	0.00 tical Hold	0.00	6,000.00	-204.20	540.00	-210.00	2.00	-2.00	0.
8,500.88	0.00	0.00	8,463.04	-264.26	540.00	-218.55	0.00	0.00	0.
	gin 10.00°/100'		0,100.01	201.20	• • • • • • •				
8,600.00	9.91	18.65	8,561.66	-256.16	542.73	-210.25	10.00	10.00	0
8,700.00	19.91	18.65	8,658.17	-231.81	550.95	-185.30	10.00	10.00	0
8,800.00	29.91	18.65	8,748,75	-191.95	564.41	-144.46	10.00	10.00	0
8,900.00	39.91	18.65	8,830.65	-137.79	582.69	-88.97	10.00	10.00	0
9,000.00	49.91	18.65	8,901.38	-70.98	605.23	-20.52	10.00	10.00	0
9,100.00	59.91	18.65	8,958.79	6.45	631.37	58.81	10.00	10.00	0
9,200.00		18.65	9,001.14	92.15	660.29	146.61	10.00	10.00	0
9,300.00	79.91	18.65	9,027.14	183.52	691.13	240.22	10.00	10.00	0
9,400.00	89.91	18.65	9,036.00	277.78	722.94	336.79	10.00	10.00	Q
9,400.88		18.65	9,036.00	278.61	723.22	337.65	10.00	10.00	0
	90.00° Inc, Beg	in 2.00°/100' 1	lurn		750.00	42.4.00	0.00	0.00	-2
9,500.00		16.67	9,036.00	373.05	753.29	434.26	2.00		
9,600.00			9,036.00	469.33	780.29	532.45	2.00	0.00	-2
9,700.00		12.67	9,036.00	566.50	803.92	631.24	2.00	0.00	-2
9,800.00	90.00	10.67	9,036.00	664.43	824.14	730.51	2.00	0.00	-2
9,900.00	90.00	8.67	9,036.00	763.00	840.94	830.14	2.00	0.00	-2
10,000.00	90.00	6.67	9,036.00	862.10	854.28	930.00	2.00	0.00	-2
10,100.00	90.00	4.67	9,036.00	961.61	864.15	1,029.98	2.00	0.00	-2
10,200.00		2.67	9,036.00	1,061.40	870.55	1,129.96	2.00	0.00	-2
10,300.00		0.67	9,036.00	1,161.35	873.46	1,229.81	2.00	0.00	-2
10,349.04		359.69	9,036.00	1,210.39	873.61	1,278.69	2.00	0.00	-2
	0° Inc at 359.6					4 200 45	0.00	0.00	C
10,400.00		359.69	9,036.00	1,261.35	873.33	1,329.45	0.00	0.00	
10,500.00		359.69	9,036.00	1,361.35	872.79	1,429.06	0.00	0.00	0
10,600.00	90.00	359.69	9,036.00	1,461.35	872.24	1,528.67	0.00	0.00	(
10,700.00	90.00	359.69	9,036.00	1,561.34	871.69	1,628.28	0.00	0.00	(
10,800.00		359.69	9,036.00	1,661.34	871.15 870.60	1,727.89 1.827.50	0.00 0.00	0.00 0.00	(
10,900.00		359.69	9,036.00	1,761.34			0.00	0.00	(
11,000.00		359.69	9,036.00	1,861.34	870.05	1,927.10			, (
11,100.00		359.69 359.69	9,036.00 9,036.00	1,961.34 2,061.34	869.51 868.96	2,026.71 2,126.32	0.00 0.00	0.00 0.00	
11,300.00		359.69	9.036.00	2,161.34	868.41	2,225.93	0.00	0.00	(
		359.69	9,036.00	2,101.34	867.87	2,325.54	0.00	0.00	í
11,400.00			9,036.00	2,201.33	867.32	2,425.15	0.00	0.00	í
11,500.00						2,425.75	0.00	0.00	Ì
11,600.00			9,036.00	2,461.33	866.78			0.00	Ì
11,700.00			9,036.00	2,561.33	866.23	2,624.36	0.00		
11,800.00			9,036.00 9,036.00	2,661.33 2.761.33	865.68 865.14	2,723.97 2,823.58	0.00 0.00	0.00 0.00	(
11,900.00			9,036.00	2,861.32	864.59	2,923.19	0.00	0.00	i
12,000.00					864.04	3,022.80	0.00	0.00	Č
12,100.00 12,200.00			9,036.00 9,036.00	2,961.32 3,061.32	863.50	3,022.60	0.00	0.00	Č
12,200.00			9,036.00	3,161.32	862.95	3,222.01	0.00	0.00	(
12,400.00			9,036.00	3,261.32	862.40	3,321.62	0.00	0.00	
12,500.00			9,036.00	3,361.32	861.86	3,421.23	0.00	0.00	(
			9,036.00	3,461.32	861.31	3,520.84	0.00	0.00	ĺ
12,600.00			9,036.00	3,561.31	860.76	3,620.45	0.00	0.00	ĺ
- i 2 200 00	. 90.00	339.09	9.030.00	3,301.31	000.70	0,020.40	0.00	0.00	



noenix Technology Services LP

Planning Report



Database: Compass 5000 GCR Well 1H Local Co-ordinate Reference: Company: Chevron **TVD Reference:** GL + KB @ 3608.00usft Eddy County, NM (NAD27 NME) Project: MD Reference: GL + KB @ 3608.00usft SND 12 01 FED 003 Site: North Reference: Grid Well: 1H Survey Calculation Method: Minimum Curvature Wellbore: ОН Plan 1 10-30-17 Design:

Planned Survey

;	Measured Depth (usft)	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
	(usit)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
	12,800.00	90.00	359.69	9,036.00	3,661.31	860.22	3,720.06	0.00	0.00	0.00
	12,900.00	90.00	359.69	9,036.00	3,761.31	859.67	3,819.67	0.00	0.00	0.00
	13,000.00	90.00	359.69	9,036.00	3,861.31	859.12	3,919.27	0.00	0.00	0.00
	13,100.00	90.00	359.69	9,036.00	3,961.31	858.58	4,018.88	0.00	0.00	0.00
	13,200.00	90.00	359.69	9,036.00	4,061.31	858.03	4,118.49	0.00	0.00	0.00
	13,300.00	90.00	359.69	9,036.00	4,161.31	857.48	4,218.10	0.00	0.00	0.00
	13,400.00	90.00	359.69	9,036.00	4,261.30	856.94	4,317.71	0.00	0.00	0.00
	13,500.00	90.00	359.69	9,036.00	4,361.30	856.39	4,417.32	0.00	0.00	0.00
	13,600.00	90.00	359.69	9,036.00	4,461.30	855.84	4,516.92	0.00	0.00	0.00
	13,700.00	90.00	359.69	9,036.00	4,561.30	855.30	4,616.53	0.00	0.00	0.00
	13,800.00	90.00	359.69	9,036.00	4,661.30	854.75	4,716.14	0.00	0.00	0.00
	13,900.00	90.00	359.69	9,036.00	4,761.30	854.21	4,815.75	0.00	0.00	0.00
	14,000.00 14,100.00	90.00 90.00	359.69 359.69	9,036.00 9,036.00	4,861.29 4,961.29	853.66	4,915.36	0.00	0.00	0.00
	14,200.00	90.00	359.69	9,036.00	4,961.29 5,061.29	853.11 852.57	5,014.97 5,114.57	0.00 0.00	0.00 0.00	0.00 0.00
	14,300.00 14,400.00	90.00 90.00	359.69 359.69	9,036.00	5,161.29	852.02	5,214.18	0.00	0.00	0.00
	14,500.00	90.00	359.69	9,036.00 9,036.00	5,261.29 5,361.29	851.47 850.93	5,313.79 5,413.40	0.00 0.00	0.00 0.00	0.00 0.00
	14,600.00	90.00	359.69	9,036.00	5,461.29	850.38	5,513.01	0.00	0.00	0.00
	14,700.00	90.00	359.69	9,036.00	5,561.28	849.83	5,612.62	0.00	0.00	0.00
	14,800.00	90.00	359.69	9,036.00	5,661.28	849.29	5,712.23	0.00	0.00	0.00
	14,900.00	90.00	359.69	9,036.00	5,761.28	848.74	5,811.83	0.00	0.00	0.00
	15,000.00	90.00	359.69	9,036.00	5,861.28	848.19	5,911.44	0.00	0.00	0.00
	15,100.00	90.00	359.69	9,036.00	5,961.28	847.65	6.011.05	0.00	0.00	0.00
	15,200.00	90.00	359.69	9,036.00	6,061.28	847.10	6,110.66	0.00	0.00	0.00
	15,300.00	90.00	359.69	9,036.00	6.161.28	846.55	6,210.27	0.00	0.00	0.00
	15,400.00	90.00	359.69	9,036.00	6,261.27	846.01	6,309.88	0.00	0.00	0.00
	15,500.00	90.00	359.69	9,036.00	6,361.27	845.46	6,409.48	0.00	0.00	0.00
	15,600.00	90.00	359.69	9,036.00	6,461.27	844.91	6,509.09	0.00	0.00	0.00
	15,700.00	90.00	359.69	9,036.00	6,561.27	844.37	6,608.70	0.00	0.00	0.00
	15,800.00	90.00	359.69	9,036.00	6,661.27	843.82	6,708.31	0.00	0.00	0.00
	15,900.00	90.00	359.69	9,036.00	6,761.27	843.27	6,807.92	0.00	0.00	0.00
	16,000.00	90.00	359.69	9,036.00	6,861.26	842.73	6,907.53	0.00	0.00	0.00
	16,100.00	90.00	359.69	9,036.00	6,961.26	842.18	7,007.14	0.00	0.00	0.00
	16,200.00	90.00	359.69	9,036.00	7,061.26	841.64	7,106.74	0.00	0.00	0.00
	16,300.00	90.00	359.69	9,036.00	7,161.26	841.09	7,206.35	0.00	0.00	0.00
	16,400.00	90.00	359.69	9,036.00	7,261.26	840.54	7,305.96	0.00	0.00	0.00
	16,500.00	90.00	359.69	9,036.00	7,361.26	840.00	7,405.57	0.00	0.00	0.00
	16,600.00	90.00	359.69	9,036.00	7,461.26	839.45	7,505.18	0.00	0.00	0.00
	16,700.00	90.00	359.69	9,036.00	7,561.25	838.90	7,604.79	0.00	0.00	0.00
	16,800.00	90.00	359.69	9,036.00	7,661.25	838.36	7,704.39	0.00	0.00	0.00
	16,900.00	90.00	359.69	9,036.00	7,761.25	837.81	7,804.00	0.00	0.00	0.00
	17,000.00	90.00	359.69	9,036.00	7,861.25	837.26	7,903.61	0.00	0.00	0.00
	17,100.00	90.00	359.69	9,036.00	7,961.25	836.72	8,003.22	0.00	0.00	0.00
	17,200.00	90.00	359.69	9,036.00	8,061.25	836.17	8,102.83	0.00	0.00	0.00
	17,300.00	90.00	359.69	9,036.00	8,161.25	835.62	8,202.44	0.00	0.00	0.00
	17,400.00	90.00	359.69	9,036.00	8,261.24	835.08	8,302.04	0.00	0.00	0.00
	17,500.00	90.00	359.69	9,036.00	8,361.24	834.53	8,401.65	0.00	0.00	0.00
	17,600.00	90.00	359.69	9,036.00	8,461.24	833.98	8,501.26	0.00	0.00	0.00
	17,700.00	90.00	359.69	9,036.00	8,561.24	833.44	8,600.87	0.00	0.00	0.00
	17,800.00	90.00	359.69	9,036.00	8,661.24	832.89	8,700.48	0.00	0.00	0.00
	17,900.00	90.00	359.69	9,036.00	8,761.24	832.34	8,800.09	0.00	0.00	0.00
	18,000.00	90.00	359.69	9,036.00	8,861.24	831.80	8,899.70	0.00	0.00	0.00
	18,100.00	90.00	359.69	9,036.00	8,961.23	831.25	8,999.30	0.00	_0.00	0.00



Phoenix Technology Services L.

Planning Report



Database: Company: Project: Site:	Compass 5000 GCR Chevron Eddy County, NM (NAD27 NME) SND 12 01 FED 003	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:	Well 1H GL + KB @ 3608.00usft GL + KB @ 3608.00usft Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 10-30-17		

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)
•	18,200.00	90.00	359.69	9,036.00	9,061.23	830.70	9,098.91	0.00	0.00	0.00
	18,300.00	90.00	359.69	9.036.00	9,161.23	830.16	9,198.52	0.00	0.00	0.00
	18,400.00	90.00	359.69	9.036.00	9.261.23	829.61	9,298.13	0.00	0.00	0.00
	18,500.00	90.00	359.69	9.036.00	9.361.23	829.06	9,397.74	0.00	0.00	0.00
	18,600,00	90.00	359.69	9,036.00	9.461.23	828.52	9,497.35	0.00	0.00	0.00
	18,700.00	90.00	359.69	9,036.00	9,561.22	827.97	9,596.95	0.00	0.00	0.00
	18.800.00	90.00	359.69	9.036.00	9.661.22	827.43	9,696.56	0.00	0.00	0.00
	18,900.00	90.00	359.69	9.036.00	9,761.22	826.88	9,796.17	0.00	0.00	0.00
	19,000.00	90.00	359.69	9.036.00	9.861.22	826.33	9,895.78	0.00	0.00	0.00
	19,060.78	90.00	359.69	9,036.00	9,922.00	826.00	9,956.32	0.00	0.00	0.00
	TD at 1906	0.78								

10 at 15000.7

Design Targets

Target Name

	- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting		
į.	- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude

LTP - SND 12 01 FEE 0.00 0.01 9,036.00 9,872.00 826.00 456,163.00 688,506.00 32° 15' 9.49497 N 03° 43' 24.83831 W - plan misses target center by 10.79usft at 19000.00usft MD (9036.00 TVD, 9861.22 N, 826.33 E) - Point

FTP - SND 12 01 FEE 0.00 0.00 9,036.00 -33.00 880.00 446,258.00 688,560.00 32° 13' 31.47407 N 03° 43' 24.86433 W - plan misses target center by 253.23usft at 9170.98usft MD (8990.49 TVD, 66.58 N, 651.66 E) - Point

MPT - SND 12 01 FEI 0.00 0.00 9,036.00 4,919.00 853.00 451,210.00 688,533.00 32° 14' 20.47963 N 03° 43' 24.85142 W - plan misses target center by 0.34usft at 14057.71usft MD (9036.00 TVD, 4919.00 N, 853.34 E) - Point

BHL - SND 12 01 FEI 0.00 359.69 9,036.00 9,922.00 826.00 456,213.00 688,506.00 32° 15' 9.98976 N 03° 43' 24.83500 W - plan hits target center

- Rectangle (sides W100.00 H8,677.63 D50.00)

· · -- - •

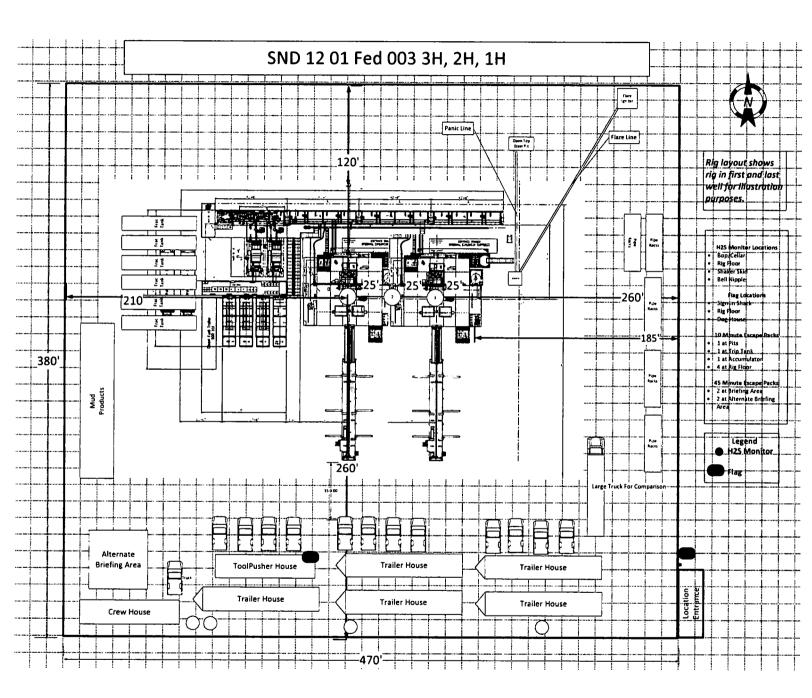
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Plan Annotations

	Measured	Vertical	Local Coor	dinates	
1	Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
1	1.000.00	1,000.00	0.00	0.00	KOP1, Begin 2.00°/100' Build
	1,369.95	1,368.93	-10.49	21.43	Hold 7.40° Inc at 116.08° Azm
	5,667.89	5,631.08	-253.77	518.57	Begin 2.00°/100' Drop
	6.037.84	6,000.00	-264.26	540.00	Begin Vertical Hold
	8,500,88	8,463.04	-264.26	540.00	KOP2, Begin 10.00°/100' Build
	9.400.88	9.036.00	278.61	723.22	LP, Hold 90.00° Inc, Begin 2.00°/100' Turn
	10.349.04	9,036.00	1,210.39	873.61	Hold 90.00° Inc at 359.69° Azm
	19,060.78	9,036.00	9,922.00	826.00	TD at 19060.78



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AFMSS

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

APD ID: 10400024474

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND 12 01 FED 003

Well Type: OIL WELL

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

SND_12_01_Fed_003_1H_Road_Plat_20171120143408.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? YES

Existing Road Improvement Description: The operator will improve or maintain existing roads in a condition the same as or better than before operations begin. The Operator will also repair any pot holes, clear ditches, repair crown; etc. All existing structures on the entire access route such as cattle guards, other range improvement project, culverts, etc. will be properly repaired or replaced if they are damaged or have deteriorated beyond practical use. We will prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations, or wind events. BLM written approval will be acquired before application of surfactants, binding agents, or other dust suppression chemicals on roadways. **Existing Road Improvement Attachment:**

Section 2 - New or Reconstructed Access Roads Will new roads be needed? YES New Road Map: SND 12 01 Fed_003_1H_New_Road_Plat_20180717112519.pdf New road type: LOCAL Width (ft.): 25 Length: 206 Feet Max grade (%): 3 Max slope (%): 2 Army Corp of Engineers (ACOE) permit required? NO ACOE Permit Number(s):

New road travel width: 25

New road access erosion control: Erosion/Drainage: Drainage control system shall be constructed on the entire length of road by the use of any of the following: ditching and will be graveled as needed for drilling, side hill out-sloping and insloping, lead-off ditches, culvert installation, or low water crossing, culverts, and water bars where needed: straw waddles will be used on the down-slope side of new roads where undisturbed grades away from the roadway are 5% or greater.

-lighlighted data reflects the most

Show Final Text

Well Number: 1H

Well Work Type: Drill

Submission Date: 11/20/2017

recent changes

SUPO Data Repor

Operator Name: CHEVRON USA INCORPORATED Well Name: SND 12 01 FED 003

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: NONE

Access topsoil source: ONSITE

Access surfacing type description:

Access onsite topsoil source depth: 0

Offsite topsoil source description:

Onsite topsoil removal process: none needed

Access other construction information:

Access miscellaneous information:

Number of access turnouts: 60

Access turnout map:

Drainage Control

New road drainage crossing: CULVERT

Drainage Control comments: Sediment traps (hay bales suggested by BLM) we don't use every time but keep handy.

Road Drainage Control Structures (DCS) description: Ditching will be constructed on both sides of road.

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:

SND_12_01_FED_003_1H_Radius_Map_20171120144611.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: • Facilities: New production facilities are to be constructed located in the SW quarter of Sec. 12, T24S-R31E where oil and gas sales will take place. o Proposed Facility Pad is 500' x 700' o The facility is proposed in SW4 of Sec. 12, T24S-R31E o Gas purchaser pipeline will be brought to the tank battery. o Open top tanks or open

Well Name: SND 12 01 FED 003

Well Number: 1H

containments will be netted. o Open vent exhaust stacks will be modified to prevent birds or bats from entering, discourage perching, roosting, and nesting. o Facilities will have a secondary containment 1.5 times the holding capacity of largest storage tank. o All above ground structures will be painted non-reflective shale green for blending with surrounding environment. o The tank battery will be connected to the existing water gathering system in the field for permanent water disposal. The system design will be determined and approved prior to construction of any water transfer pipeline. Until permanent water takeaway is available, produced water will be hauled off location in trucks. • Pipelines: o One 4" buried pipeline gas lift line, approximately 710', will be laid from well running north to CTB pad in Section 12. o Three buried flowlines, approximately 710', will be laid from well running north to CTB pad in Section 12. o No ROW will be required from the BLM (On-lease). o Pipeline will follow existing disturbances. o All construction activity will be confined to the approved BLM Standards.

Production Facilities map:

SND_12_01_FED_003_1H_60__ROW_20171120144719.pdf SND_12_01_FED_003_1H_Frac_Pond_Road_20171120144720.pdf SND_12_01_FED_003_1H_Frac_Pond_waterline_20171120144720.pdf SND_12_01_FED_003_1H_Frac_Pond_20171120144721.pdf Sand_Dunes_Sec_12_CTB_SUP_Plat_20180717112543.pdf Sand_Dunes_Sec_12_CTB_Cut___Fill_Cert_20180717112555.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Well latitude:	Well Longitude:	Well datum:
New Water We	ell Info	
New water well? NO		
Water source comments:		
SND_12_01_FED_003_1H_Aerial_	_Detail_20171120144825.pdf	
Water source and transportation	map:	
Source volume (gal): 2940000	0	
Water source volume (barrels)): 700000	Source volume (acre-feet): 90.22517
Source transportation land ow	vnership: FEDERAL	
Water source transport metho	d: PIPELINE, TRUCKING	
Source land ownership: FEDE	RAL	
Water source permit type: PRI	VATE CONTRACT	
Source datum: NAD83		
Source latitude:		Source longitude:
Water source use type: INTER SURFACE CASING Describe type:	MEDIATE/PRODUCTION CASING,	Water source type: GW WELL

Well target aquifer:

Operator Name: CHEVRON USA INCOR	PORATED
Well Name: SND 12 01 FED 003	Well Number: 1H
Est. depth to top of aquifer(ft):	Est thickness of aquifer:
Aquifer comments: Aquifer documentation:	
Well depth (ft):	Well casing type:
Well casing outside diameter (in.):	Well casing inside diameter (in.):
New water well casing?	Used casing source:
Drilling method:	Drill material:
Grout material:	Grout depth:
Casing length (ft.):	Casing top depth (ft.):
Well Production type:	Completion Method:
Water well additional information:	
State appropriation permit:	
Additional information attachment:	

Section 6 - Construction Materials

Construction Materials description: Caliche will be sourced from the nearest federal, state, or private permitted pit in Section 12, T24S-R31E or an alternate private pit in Section 32, T23S-R31E, State Lands. **Construction Materials source location attachment**:

Section 7 - Methods for Handling Waste

Waste type: GARBAGE

Waste content description: Garbage and Trash Human waste and grey water Other waste material such as chemicals, salts, frac sand Drill Cutting

Amount of waste: 200 pounds

Waste disposal frequency : Daily

Safe containment description: Collected in a trash container collected for disposal properly contained The well will be drilled utilizing a closed loop system and properly disposed of into steel tanks. All to be properly disposed at a State approved disposal facility.

Safe containmant attachment:

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

Disposal location description: State approved facility. Carlsbad 6601 Hobbs HWY Carlsbad, NM 575-393-1079

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Well Name: SND 12 01 FED 003

Well Number: 1H

Reserve pit volume (cu. yd.)

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

Reserve pit depth (ft.)

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? NO

Description of cuttings location

Cuttings area length (ft.)

Cuttings area width (ft.) Cuttings area volume (cu. yd.)

Cuttings area depth (ft.)

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

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: YES

Ancillary Facilities attachment:

SND_12_01_FED_003_1H_Comp_Station_Pwrline_20171220144009.pdf SND_12_01_FED_003_1H_Comp_Stn_Access_Roadpdf_20171220144009.pdf SND_12_01_FED_003_1H_Tower_Site_20171220144010.pdf **Comments:** • Ancillary Facilities are included in the SUP for SND 12 01 004 1-4H Drill Pad and include: o SWD Facility o Fresh Water Pond o Recycle-on-the-fly Facility o Compressor Station o Staging Area

Section 9 - Well Site Layout

Well Site Layout Diagram:

SND_12_01_Fed_003_1H_Well_Plat_20171120145124.pdf

SND_12_01_Fed_003_1H_Proposed_Pad_20171120145134.pdf

Comments: Exterior well pad dimensions are 380' X 470' Interior well pad dimensions from point of entry (well head) of the easternmost well are N-120', S-260, E-210', W-260'.

Well Name: SND 12 01 FED 003

Well Number: 1H

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance Me

Multiple Well Pad Name: SND 12 01 FED 003

Multiple Well Pad Number: 1H 2H 3H

Recontouring attachment:

SND_12_01_Fed_003_1H_IR_20171120153623.pdf

SND_12_01_Fed_003_1H_CutFill_20171120153952.pdf

SND_12_01_FED_001_SUP.xlsx_20171120155629.pdf

Drainage/Erosion control construction: Proper erosion control methods will be used on the area to control erosion, runoff, and siltation of the surrounding area.

Drainage/Erosion control reclamation: The well pad, road, and surrounding area will be cleared of material, trash, and equipment. All surfacing material will be removed and returned to the original mineral pit or recycled to repair for build roads and well pads.

Well pad proposed disturbance	Well pad interim reclamation (acres):	Well pad long term disturbance
(acres): 4.1	1.56	(acres): 2.54
Road proposed disturbance (acres): 0.27	Road interim reclamation (acres): 0	Road long term disturbance (acres): 0.27
Powerline proposed disturbance (acres): 0.42	U	(acres): 0.42
Pipeline proposed disturbance	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance
(acres): 0.27	Other interim reclamation (acres): 0	(acres): 0.27
Other proposed disturbance (acres): 0	Total interim reclamation: 1.56	Other long term disturbance (acres): 0
Total proposed disturbance: 5.06		Total long term disturbance: 3.5

Disturbance Comments: see SUPO attached

Reconstruction method: see SUPO attached

Topsoil redistribution: see SUPO attached

Soil treatment: see SUPO attached

Existing Vegetation at the well pad: mesquite, shrubs, grass

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: mesquite, shrubs, grass

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: mesquite, shrubs, grass

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: mesquite, shrubs, grass Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Well Name: SND 12 01 FED 003

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Seed Managemen	t	
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:
Seed S	ummary	Total pounds/Acre:
Seed Type	Pounds/Acre	

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: kevin

Last Name: dickerson

Phone:

Email: kevin.dickerson@chevron.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Well Name: SND 12 01 FED 003

Well Number: 1H

Weed treatment plan description: as per BLM requirements

Weed treatment plan attachment:

Monitoring plan description: The interim reclamation will be monitored periodically to ensure that vegetation has reestablished. **Monitoring plan attachment:**

monitoring plan attachment.

Success standards: as per BLM requirements

Pit closure description: none

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

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

ROW Applications

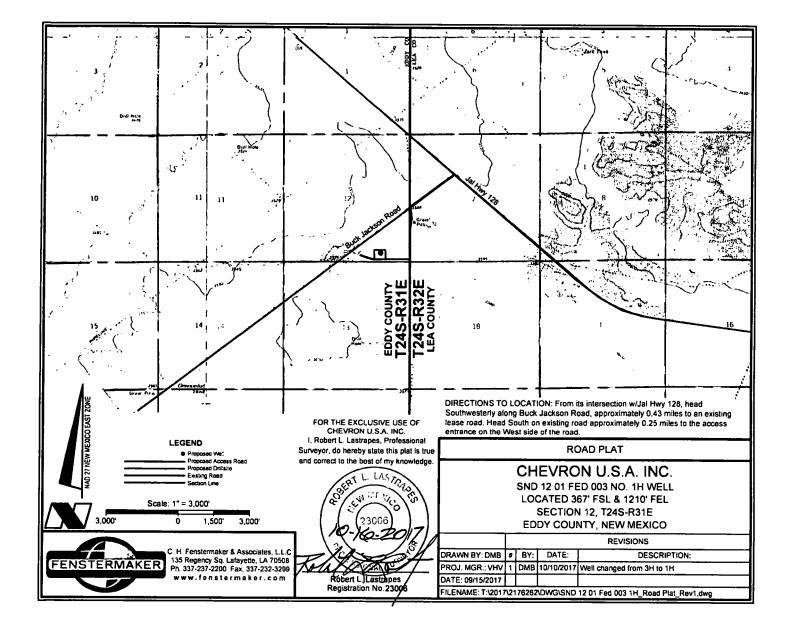
Well Number: 1H

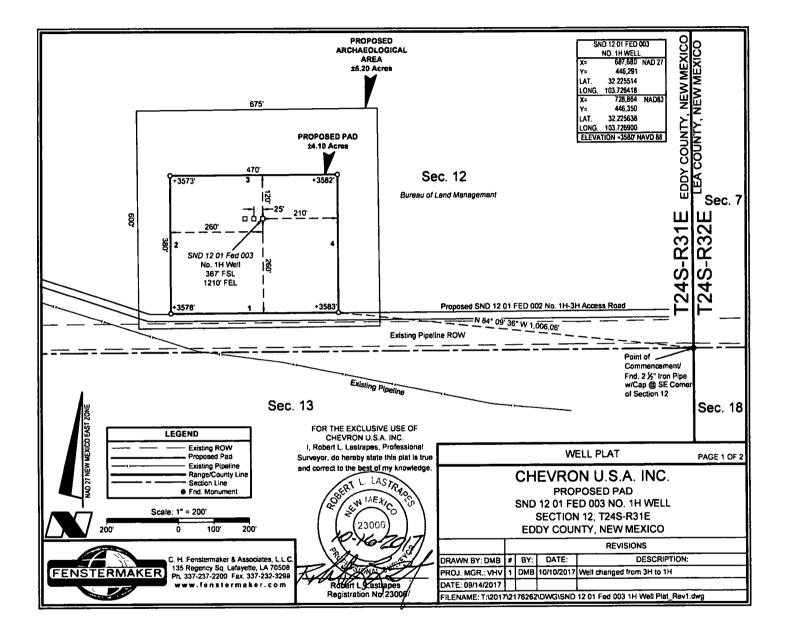
SUPO Additional Information:

Use a previously conducted onsite? YES

Previous Onsite information: • On-site performed by BLM NRS: Paul Murphy 10/13/2017

Other SUPO Attachment





DISCLAIMER: At this time, C. H. Fenstermaker & Associates, L.L.C. has not performed nor was asked to perform any type of engineering, hydrological modeling, flood plain, or "No Rise" certification analyses, including but not limited to determining whether the project will impact flood hazards in connection with federal/FEMA, state, and/or local laws, ordinances and regulations. Accordingly, Fenstermaker makes no warranty or representation of any kind as to the foregoing issues, and persons or entitles using this information shall do so at their own risk.

NOTE: Please be advised, that while reasonable efforts are made to locate and Presso be advised, that while reasonable ettorts are made to locate and verify pipelines and anomalics using our standard pipeline locating equipment, it is impossible to be 100 % effective. As such, we advise using caution when performing work as there is a possibility that pipelines and other hazards, such as fiber optic cables, PVC pipelines, etc. may exist undetected on site.

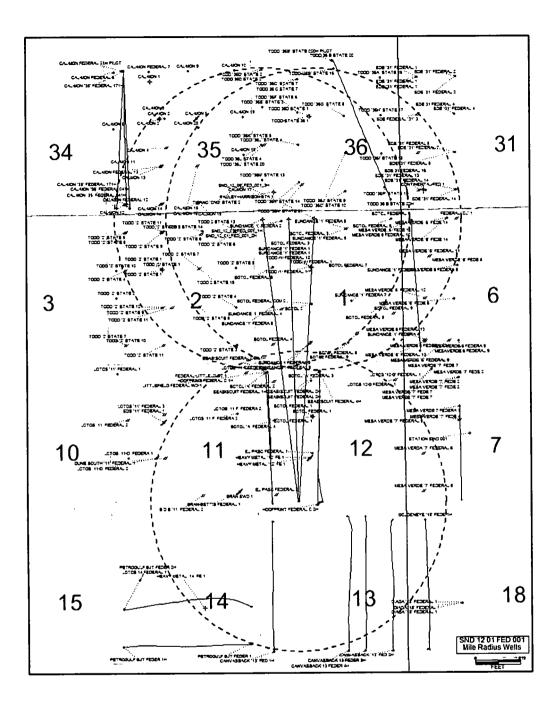
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NOTE: Many states maintain information centers that establish links between those who dig (excavators) and those who own and operate underground facilities (operators). It is advisable and in most states, law, for the contractor to contact the center for assistance in locating and marking underground utilities. For guidance, New Mexico One Call <u>www.nmonecall.org</u>

NW AF	RCH. AREA C			RCH. AREA CO			ICH, AREA CO	ORNER	SW AF	RCH. AREA CA	ORNER
X=		NAD 27	X=	688,002	NAD 27	X=	688,008	NAD 27	X=	687,333	NAD 27
Y=	446,588		Y=	446,594		Y=	445,994		Y=	445,988	
LAT.	32.226336		LAT.	32.226343		LAT.	32.224693		LAT.	32.224687	
LONG.	103.727555		LONG.	103,725372		LONG.	103.725364		LONG.	103.727547	
X=	728,511	NAD83	X=	729,186	NAD83	X≈	729,192	NAD83	X=	728,517	NAD83
Y=	446,647		Y=	446,653		Y≖	446,053		Y=	446,047	
LAT.	32.226459		LAT.	32.226466		LAT.	32,224816		LAT.	32.224810	
LONG.	103.728037		LONG.	103.725854		LONG.	103.725846		LONG.	103.728030	
ELEVA	TION +3570 N	VAVD 88	ELEVA	TION +3582" N	AVD 68	ELEVA	TION +3584" N	AVD 68	ELEVA	TION +3579' N	IAVD 88
N	N PAD CORN	ER	N	E PAD CORNI	ER	S	E PAD CORNE	R	SI	N PAD CORN	ER
X=	687,419	NAD 27	X=	687,889	NAD 27	X=	687,891	NAD 27	X=	687,421	NAD 27
Y=						¥±					
7=	446,410		Y=	446,412		¥=	446,032		Y=	446,030	
LAT.	445,410 32.225845		Y= LAT.	446,412 32.225844		τ≖ LAT.	446,032 32.224799		Y≡ ŁAT.	445,030 32,224800	
•											
LAT. LONG. X=	32.225845	NAD83	LAT. LONG	32.225844	NAD83	LAT. LONG.	32.224799	NAD83	LAT. LONG.	32,224800	NAD83
LAT. LONG. X= Y=	32.225845 103.727259	NAD83	LAT. LONG	32.225844 103.725739	NAD83	LAT. LONG.	32.224799 103.725740	NAD83	LAT. LONG.	32.224800 103.727260	NAD83
LAT. LONG. X=	32.225845 103.727259 728,604	NAD83	LAT. LONG. X=	32.225844 103.725739 729,074	NAD83	LAT. LONG. X=	32.224799 103.725740 729,075	NAD83	LAT. LONG. X=	32.224800 103.727260 728,605	NAD83
LAT. LONG. X= Y=	32.225845 103.727259 728,604 446,469	NAD83	LAT. LONG. X= Y=	32.225844 103.725739 729,074 446,471		LAT. LONG. X= Y=	32.224799 103.725740 729,075 446,091	NAD83	LAT. LONG. X= Y=	32.224800 103.727260 728,605 446,089	NADS

		PROPOSED PAD							
	COURSE	BEARING	DISTANCE						
	1	S 89° 44' 05" W	470.00'						
[2	N 00" 15' 55" W	380.00'						
	3	N 89° 44' 05" E	470.00'						
	4	S 00° 15' 55" E	380.00						
				FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC. I. Robert L. Lastrapes, Professional					
				Surveyor, do hereby state this plat is true and correct to the best of my knowledge.			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ÆLL PLAT	PAGE 2 OF 2
				1 145-		CH	IEVRO	ON U.S.A. INC.	
				BERT L. LASTRAD				POSED PAD	
				CU EN MEATCO				ED 003 NO. 1H WELL	
				(23006)				N 12, T24S-R31E NTY, NEW MEXICO	
								REVISIONS	
	<u> II </u>		stermaker & Associates, L.L. ency Sq. Lafayette, LA 7050		DRAWN BY: DMB	# BY:	DATE:	DESCRIPTION	
FENS	TERMA	ANER Ph. 337-2	237-2200 Fax, 337-232-329		PROJ. MGR.: VHV	1 DMB	10/10/2017	Well changed from 3H to 1H	
6		www.	fenstermaker.com		DATE: 09/14/2017				
			······	Registration No. 23006	FILENAME: T:\2017	217626	2\DWG\SND	12 01 Fed 003 1H Well Plat_Rev1	.dwg



UWI (APINum)	Well Label	Operator
30015058480000	PAULEY-HARRISON-STA 1	MILLER CHARLES P
30015102590000	FEDERAL-LITTLELD CT 1	CHESAPEAKE OPERATING INCORPORATE
30015102590001	LITTLEFIELD FEDERAL WD-1	CHESAPEAKE OPERATING INCORPORATED
30015203410000	TODD-STATE 36 1	DEVON ENERGY (NEVADA)
30015203410001	TODD 36D STATE 1	DEVON ENERGY PROD
30015211430000	TODD /1/ FEDERAL 1	TEXAS AMR OIL CORPOR
30015212610000	TODD /1/ FEDERAL 1-Y	TEXAS AMR OIL CORPOR
30015212910000	TODD /1/ FEDERAL 1Z	OXY USA INC
30015212910001	SUNDANCE '1' FEDERA 1	OXY USA INC
30015212910002	SUNDANCE '1' FEDERA 1	POGO PRODUCING CO
30015214970000	TODD /2/ STATE 1	TEXACO PRODUCING INCORPORATED
30015214970001	TODD `2` STATE 1	TEXACO PRODUCING INCORPORATED
30015214970002	TODD '2' STATE 1	CHEVRON U S A INCORPORATED
30015225550000	EL PASO FEDERAL 1	COQUINA OIL CORPORATION
30015226810000	EL PASO FEDERAL 2	COQUINA OIL CORP
30015234590000	SOTOL FEDERAL 1	SUPERIOR OIL COMPANY THE
30015234590001	SOTOL FEDERAL 1	MOBIL PRODUCING TEXAS & NEW MEXICO I
30015234590002	SOTOL FEDERAL 1	SONAT EXPLORATION COMPANY
30015239770000	SOTOL FEDERAL COM 2	CHESAPEAKE OPERATING INCORPORATE
30015239770001	SOTOL 2	CHESAPEAKE OPERATING INCORPORATE
30015246080000	CAL-MON 1	POGO PRODUCING CO
30015251760000	CAL-MON 2	OXY USA INC
30015251760001	CAL-MON 2	POGO PRODUCING COMPANY
30015254050000	CAL-MON 3	POGO PRODUCING COMPANY
30015255810000	CAL-MON 4	POGO PRODUCING CO
30015256400000	CAL-MON 5	OXY USA INC
30015256970000	BRAN-BETTIS FEDERAL 1	MESQUITE SWD INCORPORATED
30015256970001	BRAN SWD 1	MESQUITE SWD INCORPORATED
30015268850000	CAL-MON FEDERAL 6	OXY USA INC
30015270810000	CAL-MON FEDERAL 7	OXY USA INC
30015271130000	CAL-MON 8	OXY USA INC
30015272060000	CAL-MON 9	OXY USA INC
30015272230000	CAL-MON 11	OXY USA INC
30015272270000	SUNDANCE `1` FEDERA 2	OXY USA INC
30015272670000	CAL-MON FEDERAL 12	POGO PRODUCING CO
30015272690000	CAL-MON 10	OXY USA INC
30015273150000	CAL-MON FEDERAL 13	POGO PRODUCING CO
30015273650000	TODD '36D' STATE 2	DEVON ENERGY PRODUCTION COMPANY

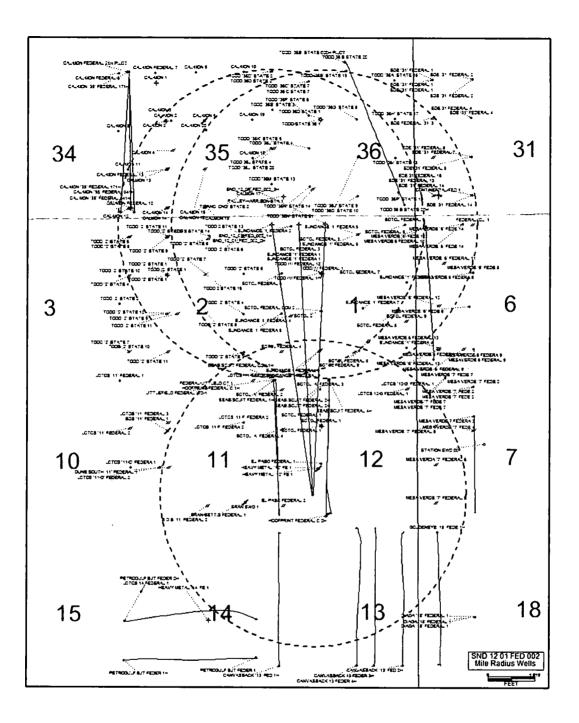
30015274950000	CAL-MON 14	POGO PRODUCING CO
30015274960000	CAL-MON 19	OXY USA INC
30015275490000	CAL-MON 20	OXY USA INC
30015276270000	SDS `11` FEDERAL 1	OXY USA INC
30015276300000	S D S `11` FEDERAL 2	ENRON OIL & GAS CO
	DUNE SOUTH '11' FEDERAL	
30015277930000	1	ENRON OIL & GAS CO
		DEVON ENERGY PRODUCTION COMPANY
30015280050000	TODD `36E` STATE 3	LP
30015280220000	CAL-MON 15	POGO PRODUCING CO
30015280230000	CAL-MON 16	POGO PRODUCING CO
30015280240000	CALMON 17	OXY USA INC
30015280260000	CAL-MON 18	OXY USA INC
30015280340000	TIRANO `CNG` STATE 2	ENERGEX COMPANY
30015280610000	TODD '2' STATE 2	CHEVRON U S A INCORPORATED
30015281050000	TODD `2` STATE 3	TEXACO EXPL&PROD INC
30015281060000	TODD `2` STATE 4	TEXACO EXPL&PROD INC
30015281070000	TODD `2` STATE 5	TEXACO EXPL&PROD INC
30015281080000	TODD `2` STATE 6	TEXACO EXPL&PROD INC
30015281100000	TODD `2` STATE 7	TEXACO EXPL&PROD INC
30015281110000	TODD `2` STATE 8	TEXACO EXPL&PROD INC
30015281120000	TODD '2' STATE 9	TEXACO EXPL&PROD INC
30015281130000	TODD '2' STATE 10	TEXACO EXPL&PROD INC
30015281140000	TODD `2` STATE 11	TEXACO EXPL&PROD INC
30015281200000	SUNDANCE '1' FEDERA 3	OXY USA INC
30015281760000	SUNDANCE '1' FEDERA 4	CHEVRON U S A INCORPORATED
		DEVON ENERGY PRODUCTION COMPANY
30015281980000	TODD `36L` STATE 4	LP
30015281980001	TODD 36L STATE 4	DEVON ENERGY PROD
		DEVON ENERGY PRODUCTION COMPANY
30015285200000	TODD `36F` STATE 6	LP
		DEVON ENERGY PRODUCTION COMPANY
30015285210000	TODD `36K` STATE 5	L P DEVON ENERGY PRODUCTION COMPANY
30015285220000	TODD '36C' STATE 7	L P
30015285220000	TODD 36 C STATE 7	DEVON ENERGY PROD
30015286260000	SOTOL 'A' FEDERAL 3	CHEVRON U S A INCORPORATED
30015286510000	SOTOL A FEDERAL 3	CHEVRON U S A INCORPORATED
30015286510000	SOTOL FEDERAL 3	SONAT EXPL INC
30015286520000	SOTOL FEDERAL 4	SONAT EXPLINE
30015286530000	SOTOL FEDERAL 5	CHEVRON U S A INCORPORATED
	SOTOL FEDERAL 5	SONAT EXPL INC
30015286530001		
30015286550000	LOTOS `11-F`FEDERAL 1	SONAT EXPLINC
30015286560000	SOTOL `A` FEDERAL 2	SONAT EXPL INC

30015286720000	LOTOS `11` FEDERAL 1	CHEVRON U S A INCORPORATED
		DEVON ENERGY PRODUCTION COMPANY
30015287620000	TODD '36N' STATE 14	LP
30015287650000	SUNDANCE '1' FEDERAL 4	SONAT EXPL INC
		DEVON ENERGY PRODUCTION COMPANY
30015288150000	TODD `36M` STATE 13	LP
30015288210000	LOTOS `11 F` FEDERA 2	CHEVRON U S A INCORPORATED
30015288210001	LOTOS `11 F` FEDERA 2	SONAT EXPL INC
30015288240000	SUNDANCE '1' FEDERAL 5	POGO PRODUCING CO
30015288640000	SOTOL FEDERAL 6	CHEVRON U S A INCORPORATED
30015288650000	SOTOL FEDERAL 7	CHEVRON U S A INCORPORATED
30015289050000	TODD '2' STATE 4	CHEVRON U S A INCORPORATED
30015289060000	TODD `2` STATE 3	CHEVRON U S A INCORPORATED
30015289360000	LOTOS `12-G` FEDERAL 1	SONAT EXPL INC
30015290710000	SOTOL FEDERAL 8	SONAT EXPL INC
30015290720000	SOTOL FEDERAL 9	SONAT EXPL INC
30015290730000	SOTOL `A` FEDERAL 4	SONAT EXPL INC
		DEVON ENERGY PRODUCTION COMPANY
30015291020000	TODD `36B` STATE 15	LP
		DEVON ENERGY PRODUCTION COMPANY
30015292920000	TODD `36G` STATE 8	LP
		DEVON ENERGY PRODUCTION COMPANY
30015292930000	TODD `36H` STATE 17	
30015292940000	TODD `36A` STATE 16	DEVON ENERGY PRODUCTION COMPANY
30015293660000	TODD '2' STATE 5	CHEVRON U S A INCORPORATED
50015255000000		DEVON ENERGY PRODUCTION COMPANY
30015294040000	TODD `36J` STATE 9	
		DEVON ENERGY PRODUCTION COMPANY
30015294050000	TODD `360` STATE 10	LP
		DEVON ENERGY PRODUCTION COMPANY
30015294060000	TODD `36I` STATE 18	LP
		DEVON ENERGY PRODUCTION COMPANY
30015294070000	TODD '36P' STATE 19	L P
30015294400000	LOTOS `11-D` FEDERA 1	CHEVRON U S A INCORPORATED
30015294410000	LOTOS `11` FEDERAL 2	SONAT EXPL INC
30015296020000	HEAVY METAL `12` FE 1	MESQUITE SWD INCORPORATED
30015296020001	HEAVY METAL `12` FE 1	MESQUITE SWD INCORPORATED
30015296030000	HEAVY METAL `14` FE 1	SANTA FE ENRG RES
30015296390000	TODD `36L` STATE 20	DEVON ENERGY CORP
30015296400000	TODD `36N` STATE 21	DEVON ENERGY CORP
30015296860000	SUNDANCE `1` FEDERA 8	OXY USA INC
30015298220000	LOTOS `11-D` FEDERAL 2	SONAT EXPL INC
30015298230000	LOTOS `11` FEDERAL 3	SONAT EXPL INC
30015300610000	SUNDANCE `1` FEDERA 7	OXY USA INC

30015300720000	TODD `2` STATE 6	SONAT EXPL INC
30015300730000	TODD '2' STATE 7	CHEVRON U S A INCORPORATED
30015300740000	TODD `2` STATE 8	SONAT EXPL INC
30015300750000	TODD `2` STATE 9	SONAT EXPL INC
30015300760000	TODD `2` STATE 10	CHEVRON U S A INCORPORATED
30015300770000	TODD `2` STATE 11	SONAT EXPL INC
30015302130000	SUNDANCE '1' FEDERA 5	OXY USA INC
30015308850000	LOTOS 12-G FEDERAL 1	RISING STAR ENRG LTD
30015316450000	CAL-MON 12	OXY USA INC
30015324160000	TODD '2' STATE 12	CHEVRON U S A INCORPORATED
30015324200000	TODD `2` STATE 11	CHEVRON U S A INCORPORATED
30015325000000	TODD 2 STATE 13	CHEVRON U S A INCORPORATED
30015325570000	SOTOL FEDERAL 8	RICKS EXPL INC
30015327620000	SOTOL FEDERAL 9	CHEVRON U S A INCORPORATED
30015327810000	TODD 2 STATE 14	CHEVRON U S A INCORPORATED
30015330040000	TODD 2 STATE 15	CHEVRON U S A INCORPORATED
30015330330000	SUNDANCE 1 FEDERAL 9	POGO PRODUCING CO
30015338930000	SUNDANCE 1 FEDERAL 9	POGO PRODUCING CO
30015349700000	CALMON 13	POGO PRODUCING CO
30015349710000	CALMON 15	POGO PRODUCING CO
30015349720000	CALMON 14	POGO PRODUCING CO
30015360690000	LOTOS 14 FEDERAL 1	CHEVRON U S A INCORPORATED
30015373650000	PETROGULF BJT FEDER 1	YATES PETROLEUM CORP
30015373650100	PETROGULF BJT FEDER 1H	EOG Y RESOURCES INC
30015373670000	PETROGULF BJT FEDER 2H	EOG Y RESOURCES INC
30015376050000	SEABISCUIT FEDERAL 1H	COG OPERATING LIMITED LIABILITY CORP
50015570050000	SEABISCUIT FEDERAL COM	
30015376050100	1H	COG OPERATING LLC
30015376070000	SEABISCUIT FEDERAL 2H	COG OPERATING LIMITED LIABILITY CORP
30015376070100	SEABISCUIT FEDERAL 2H	COG OPERATING LIMITED LIABILITY CORP
		DEVON ENERGY PRODUCTION COMPANY
30015380440000	TODD 36 B STATE 20H	LP
3001538044000P	TODD 36 B STATE 20	DEVON ENERGY CORPORATION
	TODD `36B` STATE 020H	
30015380447000	PILOT	DEVON ENERGY PROD
30015391910000	CANVASBACK `13` FED 1H	COG PRODUCTION LLC
30015405380000		COG PRODUCTION LLC
30015415290000	CANVASBACK 13 FEDER 3H	COG PROD LLC
30015415520000	CANVASBACK 13 FEDER 4H	COG PRODUCTION LLC
30015415630000	HOOFPRINT FEDERAL C 2H	COG OPERATING LLC
30015415630100	SEABISCUIT FEDERAL 4H	COG OPERATING LIMITED LIABILITY CORP
30015416200000	HOOFPRINT FEDERAL C 1H	COG OPERATING LIMITED LIABILITY CORP
	CAL-MON FEDERAL 21H	
30015431400000	PILOT	OXY U S A INC

1	CAL MON '35' FEDERAL	1
30015431400100		OXY U S A INC
30013131100100	CAL-MON `35` FEDERAL	
30015431400200	041H	OXY U S A INC
	CAL-MON '35' FEDERAL	
30015442690000	171H	OXY U S A INC
	CAL-MON `35` FEDERAL	
30015442690100	171H	OXY U S A INC
30025081250000	CONTINENTAL-FED 1	HANKAMER CURTIS CORP
30025277430000	FEDERAL 'CL' 1	AMOCO PROD CO
50025277150000		DEVON ENERGY PRODUCTION COMPANY
30025323970000	MESA VERDE `6` FEDE 6	LP
		DEVON ENERGY PRODUCTION COMPANY
30025323990000	MESA VERDE `7` FEDE 2	LP
		DEVON ENERGY PRODUCTION COMPANY
30025323990001	MESA VERDE `7` FEDE 2	LP
30025323990002	MESA VERDE `7` FEDE 2	SANTA FE ENRG RES
		DEVON ENERGY PRODUCTION COMPANY
30025326140000	MESA VERDE `6` FEDE 8	LP
		DEVON ENERGY PRODUCTION COMPANY
30025326140001	MESA VERDE 6 FEDERA 8	LP
30025326760000	SDE `31` FEDERAL 1	XTO ENERGY INCORPORATED
30025326760001	SDE '31' FEDERAL 1	TEXACO EXPL&PROD INC
30025326760002	SDE `31` FEDERAL 1	XTO ENERGY INCORPORATED
30025327010000	SDE `31` FEDERAL 2	XTO ENERGY INCORPORATED
30025327010001	SDE `31` FEDERAL 2	TEXACO EXPL&PROD INC
30025327150000	SDE FEDERAL '31' 3	TEXACO EXPL&PROD INC
30025327160000	SDE `31` FEDERAL 4	XTO ENERGY INCORPORATED
30025327160001	SDE 31 FEDERAL 4	XTO ENERGY INC
30025327510000	MESA VERDE `6` FEDE 10	SANTA FE ENRG RES
30025327510001	MESA VERDE 6 FEDERAL 10	DEVON ENERGY PROD
		DEVON ENERGY PRODUCTION COMPANY
30025327510100	MESA VERDE 6 FEDERA 10H	L P
	MESA VERDE `6` FEDERAL	
30025327520000	11	SANTA FE ENRG RES
		DEVON ENERGY PRODUCTION COMPANY
30025327530000	MESA VERDE `6` FEDE 14	LP
		DEVON ENERGY PRODUCTION COMPANY
30025327530001	MESA VERDE `6` FEDE 14	LP
30025328660000	SDE `31` FEDERAL 7	TEXACO EXPL&PROD INC
30025328670000	SDE `31` FEDERAL 8	XTO ENERGY INCORPORATED
30025328670001	SDE `31` FEDERAL 8	XTO ENERGY INCORPORATED
30025329160000	SDE `31` FEDERAL 14	XTO ENERGY INCORPORATED
30025329160001	SDE `31` FEDERAL 14	XTO ENERGY INCORPORATED
30025329530000	SDE `31` FEDERAL 13	TEXACO EXPL&PROD INC
	of reservers	

	MESA VERDE `6` FEDERAL	
30025330550000	13	SANTA FE ENRG RES
30025330750000	MESA VERDE `6` FEDERAL 9	SANTA FE ENRG RES
	MESA VERDE `6` FEDERAL	
30025330760000	12	SANTA FE ENRG RES
		DEVON ENERGY PRODUCTION COMPANY
30025331030000	MESA VERDE `7` FEDE 7	LP
		DEVON ENERGY PRODUCTION COMPANY
30025331030001	MESA VERDE `7` FEDE 7	LP
30025331030002	MESA VERDE `7` FEDE 7	SANTA FE/SNYDER CORP
30025336260000	DIAGA `18` FEDERAL 1	OXY USA INC
30025336260001	DIAGA `18` FEDERAL 1	POGO PRODUCING CO
30025336260002	DIAGA `18` FEDERAL 1	POGO PRODUCING CO
		DEVON ENERGY PRODUCTION COMPANY
30025364670000	MESA VERDE 6 FEDERA 9	LP
30025364670001	MESAVERDE 6 FEDERAL 9	DEVON ENERGY PROD
30025364680000	MESA VERDE 6 FEDERAL 13	DEVON ENERGY PROD
30025381380000	SDE 31 FEDERAL 16	XTO ENERGY INCORPORATED
		DEVON ENERGY PRODUCTION COMPANY
30025394440000	MESA VERDE 7 FEDERA 3	LP
30025395860000	MESA VERDE '7' FEDE 4	DEVON ENERGY PROD
30025397420000	GOLDENEYE '18' FEDE 1H	COG PRODUCTION LLC
30025397690000	MESA VERDE '7' FEDERAL 5	DEVON ENERGY PROD
30025397700000	MESA VERDA `7` FEDERAL 6	DEVON ENERGY PROD
30025397710000	MESA VERDE '7' FEDERAL 8	DEVON ENERGY PROD
30025434730000	STATION SWD 001	MESQUITE SWD INC
SND 12 01 Fed 001	SND_12_01_FED_001_1H	
SND_12_01_FED_001_2H	SND_12_01_FED_001_2H	
SND_12_01_FED_001_3H	SND_12_01_FED_001_3H	



	SND 12 01 FED 002 Mile	Radius Wells
UWI (APINum)	Well Label	Operator
30015058480000	PAULEY-HARRISON-STA 1	MILLER CHARLES P
30015102590000	FEDERAL-LITTLELD CT 1	CHESAPEAKE OPERATING INCORPORATED
30015102590001	LITTLEFIELD FEDERAL WD-1	CHESAPEAKE OPERATING INCORPORATED
30015203410000	TODD-STATE 36 1	DEVON ENERGY (NEVADA)
30015203410001	TODD 36D STATE 1	DEVON ENERGY PROD
30015211430000	TODD /1/ FEDERAL 1	TEXAS AMR OIL CORPOR
30015212610000	TODD /1/ FEDERAL 1-Y	TEXAS AMR OIL CORPOR
30015212910000	TODD /1/ FEDERAL 1Z	OXY USA INC
30015212910001	SUNDANCE `1` FEDERA 1	OXY USA INC
30015212910002	SUNDANCE `1` FEDERA 1	POGO PRODUCING CO
30015214970000	TODD /2/ STATE 1	TEXACO PRODUCING INCORPORATED
30015214970001	TODD `2` STATE 1	TEXACO PRODUCING INCORPORATED
30015214970002	TODD `2` STATE 1	CHEVRON U S A INCORPORATED
30015225550000	EL PASO FEDERAL 1	COQUINA OIL CORPORATION
30015226810000	EL PASO FEDERAL 2	COQUINA OIL CORP
30015234590000	SOTOL FEDERAL 1	SUPERIOR OIL COMPANY THE
20015224500001		MOBIL PRODUCING TEXAS & NEW MEXICO
30015234590001	SOTOL FEDERAL 1	
30015234590002	SOTOL FEDERAL 1	SONAT EXPLORATION COMPANY
30015239770000	SOTOL FEDERAL COM 2	CHESAPEAKE OPERATING INCORPORATED
<u>30015239770001</u> 30015246080000	SOTOL 2 CAL-MON 1	CHESAPEAKE OPERATING INCORPORATED POGO PRODUCING CO
30015251760000	CAL-MON 2	OXY USA INC
30015251760001	CAL-MON 2	POGO PRODUCING COMPANY
30015254050000	CAL-MON 3 CAL-MON 4	POGO PRODUCING COMPANY
<u>30015255810000</u> 30015256400000	CAL-MON 5	
· · · · · · · · · · · · · · · · · · ·	·····	
30015256970000	BRAN-BETTIS FEDERAL 1	
30015256970001	BRAN SWD 1	MESQUITE SWD INCORPORATED
30015268850000	CAL-MON FEDERAL 6	
<u> </u>	CAL-MON FEDERAL 7 CAL-MON 8	OXY USA INC OXY USA INC
30015272060000	CAL-MON 9	
	CAL-MON 9 CAL-MON 11	
<u>30015272230000</u> 30015272270000	SUNDANCE '1' FEDERA 2	
30015272270000	CAL-MON FEDERAL 12	
30015272670000	CAL-MON 10	
	-	
30015273150000	CAL-MON FEDERAL 13	POGO PRODUCING CO DEVON ENERGY PRODUCTION COMPANY L
30015273650000	TODD `36D` STATE 2	P
		+ · · · · · · · · · · · · · · · · · · ·
30015273650001	TODD 36D STATE 2	DEVON ENERGY CORP

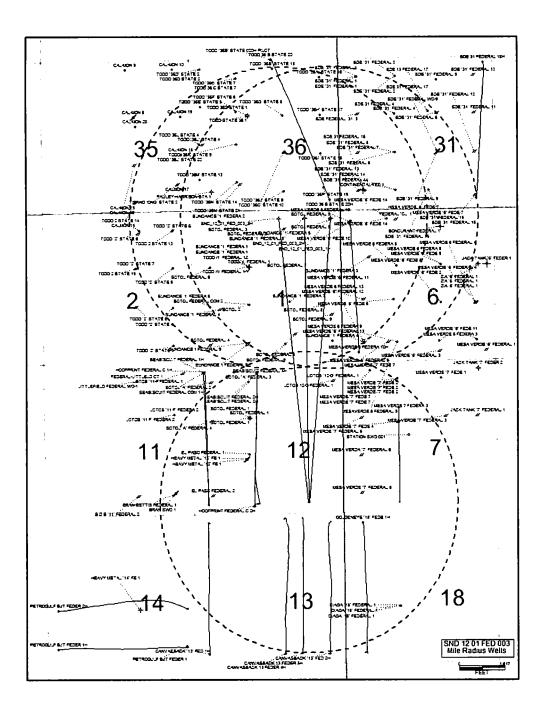
30015274950000	CAL-MON 14	POGO PRODUCING CO
30015274960000	CAL-MON 19	OXY USA INC
30015275490000	CAL-MON 20	OXY USA INC
30015276270000	SDS `11` FEDERAL 1	OXY USA INC
30015276300000	S D S `11` FEDERAL 2	ENRON OIL & GAS CO
30015277930000	DUNE SOUTH '11' FEDERAL 1	ENRON OIL & GAS CO
		DEVON ENERGY PRODUCTION COMPANY L
30015280050000	TODD `36E` STATE 3	Ρ
30015280220000	CAL-MON 15	POGO PRODUCING CO
30015280230000	CAL-MON 16	POGO PRODUCING CO
30015280240000	CALMON 17	OXY USA INC
30015280260000	CAL-MON 18	OXY USA INC
30015280340000	TIRANO `CNG` STATE 2	ENERGEX COMPANY
30015280610000	TODD `2` STATE 2	CHEVRON U S A INCORPORATED
30015281050000	TODD `2` STATE 3	TEXACO EXPL&PROD INC
30015281060000	TODD `2` STATE 4	TEXACO EXPL&PROD INC
30015281070000	TODD '2' STATE 5	TEXACO EXPL&PROD INC
30015281080000	TODD `2` STATE 6	TEXACO EXPL&PROD INC
30015281100000	TODD `2` STATE 7	TEXACO EXPL&PROD INC
30015281110000	TODD '2' STATE 8	TEXACO EXPL&PROD INC
30015281120000	TODD `2` STATE 9	TEXACO EXPL&PROD INC
30015281130000	TODD '2' STATE 10	TEXACO EXPL&PROD INC
30015281140000	TODD '2' STATE 11	TEXACO EXPL&PROD INC
30015281200000	SUNDANCE '1' FEDERA 3	OXY USA INC
30015281760000	SUNDANCE '1' FEDERA 4	CHEVRON U S A INCORPORATED
		DEVON ENERGY PRODUCTION COMPANY L
30015281980000	TODD `36L` STATE 4	P
30015281980001	TODD 36L STATE 4	DEVON ENERGY PROD
30015285200000	TODD `36F` STATE 6	DEVON ENERGY PRODUCTION COMPANY L P
30015285210000	TODD `36K` STATE 5	DEVON ENERGY PRODUCTION COMPANY L P
30015285220000	TODD `36C` STATE 7	DEVON ENERGY PRODUCTION COMPANY L
30015285220001	TODD 36 C STATE 7	DEVON ENERGY PROD
30015286260000	SOTOL `A` FEDERAL 3	CHEVRON U S A INCORPORATED
30015286510000	SOTOL FEDERAL 3	CHEVRON U S A INCORPORATED
30015286510001	SOTOL FEDERAL 3	SONAT EXPL INC
30015286520000	SOTOL FEDERAL 4	SONAT EXPLINE
30015286530000	SOTOL FEDERAL 5	CHEVRON U S A INCORPORATED
30015286530001	SOTOL FEDERAL 5	SONAT EXPL INC
30015286550000	LOTOS `11-F`FEDERAL 1	SONAT EXPLINE
30015286560000	SOTOL 'A' FEDERAL 2	SONAT EXPLINE
30015286720000	LOTOS `11` FEDERAL 1	CHEVRON U S A INCORPORATED

		DEVON ENERGY PRODUCTION COMPANY L
30015287620000	TODD `36N` STATE 14	P
30015287650000	SUNDANCE '1' FEDERAL 4	SONAT EXPL INC
		DEVON ENERGY PRODUCTION COMPANY L
30015288150000	TODD `36M` STATE 13	Р
30015288210000	LOTOS `11 F` FEDERA 2	CHEVRON U S A INCORPORATED
30015288210001	LOTOS `11 F` FEDERA 2	SONAT EXPL INC
30015288240000	SUNDANCE `1` FEDERAL 5	POGO PRODUCING CO
30015288640000	SOTOL FEDERAL 6	CHEVRON U S A INCORPORATED
30015288650000	SOTOL FEDERAL 7	CHEVRON U S A INCORPORATED
30015289050000	TODD `2` STATE 4	CHEVRON U S A INCORPORATED
30015289060000	TODD `2` STATE 3	CHEVRON U S A INCORPORATED
30015289360000	LOTOS `12-G` FEDERAL 1	SONAT EXPL INC
30015290710000	SOTOL FEDERAL 8	SONAT EXPL INC
30015290720000	SOTOL FEDERAL 9	SONAT EXPL INC
30015290730000	SOTOL `A` FEDERAL 4	SONAT EXPL INC
		DEVON ENERGY PRODUCTION COMPANY L
30015291020000	TODD `36B` STATE 15	Р
		DEVON ENERGY PRODUCTION COMPANY L
30015292920000	TODD `36G` STATE 8	P
2004520202000		DEVON ENERGY PRODUCTION COMPANY L
30015292930000	TODD `36H` STATE 17	P DEVON ENERGY PRODUCTION COMPANY L
30015292940000	TODD `36A` STATE 16	P
30015293660000	TODD '2' STATE 5	CHEVRON U S A INCORPORATED
30013233000000		DEVON ENERGY PRODUCTION COMPANY L
30015294040000	TODD `36J` STATE 9	P
		DEVON ENERGY PRODUCTION COMPANY L
30015294050000	TODD `360` STATE 10	Р
		DEVON ENERGY PRODUCTION COMPANY L
30015294060000	TODD `36I` STATE 18	Р
		DEVON ENERGY PRODUCTION COMPANY L
30015294070000	TODD `36P` STATE 19	P
30015294400000	LOTOS `11-D` FEDERA 1	CHEVRON U S A INCORPORATED
30015294410000	LOTOS `11` FEDERAL 2	SONAT EXPL INC
30015296020000	HEAVY METAL `12` FE 1	MESQUITE SWD INCORPORATED
30015296020001	HEAVY METAL `12` FE 1	MESQUITE SWD INCORPORATED
30015296030000	HEAVY METAL `14` FE 1	SANTA FE ENRG RES
30015296390000	TODD `36L` STATE 20	DEVON ENERGY CORP
30015296400000	TODD `36N` STATE 21	DEVON ENERGY CORP
30015296860000	SUNDANCE `1` FEDERA 8	OXY USA INC
30015298220000	LOTOS `11-D` FEDERAL 2	SONAT EXPL INC
30015298230000	LOTOS `11` FEDERAL 3	SONAT EXPL INC
30015300610000	SUNDANCE `1` FEDERA 7	OXY USA INC
30015300720000	TODD `2` STATE 6	SONAT EXPL INC

30015300730000	TODD `2` STATE 7	CHEVRON U S A INCORPORATED
30015300740000		SONAT EXPLINC
30015300750000		SONAT EXPLINC
30015300760000	TODD '2' STATE 10	CHEVRON U S A INCORPORATED
30015300770000	TODD '2' STATE 11	SONAT EXPL INC
30015302130000	SUNDANCE '1' FEDERA 5	OXY USA INC
30015308850000		RISING STAR ENRG LTD
30015316450000		OXY USA INC
30015324160000		CHEVRON U S A INCORPORATED
30015324200000	TODD '2' STATE 11	CHEVRON U S A INCORPORATED
30015325000000	TODD 2 STATE 13	CHEVRON U S A INCORPORATED
30015325570000	SOTOL FEDERAL 8	RICKS EXPL INC
30015327620000	· · · · · · · · · · · · · · · · · · ·	CHEVRON U S A INCORPORATED
30015327810000		CHEVRON U S A INCORPORATED
30015330040000	TODD 2 STATE 14	······································
30015330040000	SUNDANCE 1 FEDERAL 9	CHEVRON U S A INCORPORATED
		POGO PRODUCING CO
30015338930000	SUNDANCE 1 FEDERAL 9	POGO PRODUCING CO
30015349700000		POGO PRODUCING CO
30015349710000		POGO PRODUCING CO
30015349720000	· · · · · · · · · · · · · · · · · · ·	POGO PRODUCING CO
30015360690000	LOTOS 14 FEDERAL 1	CHEVRON U S A INCORPORATED
30015373650000		YATES PETROLEUM CORP
30015373650100		EOG Y RESOURCES INC
30015373670000	PETROGULF BJT FEDER 2H	EOG Y RESOURCES INC
30015376050000	SEABISCUIT FEDERAL 1H	COG OPERATING LIMITED LIABILITY CORP
	SEABISCUIT FEDERAL COM	
30015376050100	1H	COG OPERATING LLC
30015376070000	SEABISCUIT FEDERAL 2H	COG OPERATING LIMITED LIABILITY CORP
30015376070100	SEABISCUIT FEDERAL 2H	COG OPERATING LIMITED LIABILITY CORP
30015380440000	TODD 36 B STATE 20H	DEVON ENERGY PRODUCTION COMPANY
3001538044000P	TODD 36 B STATE 20	DEVON ENERGY CORPORATION
	TODD `36B` STATE 020H	
30015380447000	PILOT	DEVON ENERGY PROD
30015391910000	CANVASBACK `13` FED 1H	COG PRODUCTION LLC
30015405380000	CANVASBACK `13` FED 2H	COG PRODUCTION LLC
30015415290000	CANVASBACK 13 FEDER 3H	COG PROD LLC
30015415520000	CANVASBACK 13 FEDER 4H	COG PRODUCTION LLC
30015415630000	HOOFPRINT FEDERAL C 2H	COG OPERATING LLC
30015415630100	SEABISCUIT FEDERAL 4H	COG OPERATING LIMITED LIABILITY CORP
30015416200000	HOOFPRINT FEDERAL C 1H	COG OPERATING LIMITED LIABILITY CORP
	CAL-MON FEDERAL 21H	
30015431400000	PILOT	OXY U S A INC
30015416200000	HOOFPRINT FEDERAL C 1H CAL-MON FEDERAL 21H	COG OPERATING LIMITED LIABILITY CORP

1	CAL MON `35` FEDERAL	1
30015431400100	041H	OXY U S A INC
	CAL-MON `35` FEDERAL	
30015431400200	041H	OXY U S A INC
	CAL-MON `35` FEDERAL	
30015442690000	171H	OXY U S A INC
	CAL-MON `35` FEDERAL	
30015442690100	171H	OXY U S A INC
30025081250000	CONTINENTAL-FED 1	HANKAMER CURTIS CORP
30025277430000	FEDERAL `CL` 1	AMOCO PROD CO
		DEVON ENERGY PRODUCTION COMPANY L
30025323970000	MESA VERDE `6` FEDE 6	P
		DEVON ENERGY PRODUCTION COMPANY L
30025323990000	MESA VERDE `7` FEDE 2	
20025222000001		DEVON ENERGY PRODUCTION COMPANY L
30025323990001	MESA VERDE '7' FEDE 2	
30025323990002	MESA VERDE `7` FEDE 2	SANTA FE ENRG RES DEVON ENERGY PRODUCTION COMPANY L
30025326140000	MESA VERDE `6` FEDE 8	P
50025520140000		DEVON ENERGY PRODUCTION COMPANY L
30025326140001	MESA VERDE 6 FEDERA 8	P
30025326760000	SDE `31` FEDERAL 1	XTO ENERGY INCORPORATED
30025326760001	SDE `31` FEDERAL 1	TEXACO EXPL&PROD INC
30025326760002	SDE `31` FEDERAL 1	XTO ENERGY INCORPORATED
30025327010000	SDE `31` FEDERAL 2	XTO ENERGY INCORPORATED
30025327010001	SDE `31` FEDERAL 2	TEXACO EXPL&PROD INC
30025327150000	SDE FEDERAL `31` 3	TEXACO EXPL&PROD INC
30025327160000	SDE `31` FEDERAL 4	XTO ENERGY INCORPORATED
30025327160001	SDE 31 FEDERAL 4	XTO ENERGY INC
30025327510000	MESA VERDE `6` FEDE 10	SANTA FE ENRG RES
30025327510001	MESA VERDE 6 FEDERAL 10	DEVON ENERGY PROD
		DEVON ENERGY PRODUCTION COMPANY L
30025327510100	MESA VERDE 6 FEDERA 10H	Р
30025327520000	MESA VERDE `6` FEDERAL 11	SANTA FE ENRG RES
		DEVON ENERGY PRODUCTION COMPANY L
30025327530000	MESA VERDE `6` FEDE 14	Р
		DEVON ENERGY PRODUCTION COMPANY L
30025327530001	MESA VERDE `6` FEDE 14	P
30025328660000	SDE `31` FEDERAL 7	TEXACO EXPL&PROD INC
30025328670000	SDE `31` FEDERAL 8	XTO ENERGY INCORPORATED
30025328670001	SDE `31` FEDERAL 8	XTO ENERGY INCORPORATED
30025329160000	SDE `31` FEDERAL 14	XTO ENERGY INCORPORATED
30025329160001	SDE `31` FEDERAL 14	XTO ENERGY INCORPORATED
30025329530000	SDE `31` FEDERAL 13	TEXACO EXPL&PROD INC
30025330550000	MESA VERDE `6` FEDERAL 13	SANTA FE ENRG RES

30025330750000	MESA VERDE `6` FEDERAL 9	SANTA FE ENRG RES
30025330760000	MESA VERDE `6` FEDERAL 12	SANTA FE ENRG RES
		DEVON ENERGY PRODUCTION COMPANY L
30025331030000	MESA VERDE `7` FEDE 7	Ρ
		DEVON ENERGY PRODUCTION COMPANY L
30025331030001	MESA VERDE `7` FEDE 7	P
30025331030002	MESA VERDE `7` FEDE 7	SANTA FE/SNYDER CORP
30025336260000	DIAGA `18` FEDERAL 1	OXY USA INC
30025336260001	DIAGA `18` FEDERAL 1	POGO PRODUCING CO
30025336260002	DIAGA `18` FEDERAL 1	POGO PRODUCING CO
		DEVON ENERGY PRODUCTION COMPANY L
30025364670000	MESA VERDE 6 FEDERA 9	P
30025364670001	MESAVERDE 6 FEDERAL 9	DEVON ENERGY PROD
30025364680000	MESA VERDE 6 FEDERAL 13	DEVON ENERGY PROD
30025381380000	SDE 31 FEDERAL 16	XTO ENERGY INCORPORATED
		DEVON ENERGY PRODUCTION COMPANY L
30025394440000	MESA VERDE 7 FEDERA 3	Ρ
30025395860000	MESA VERDE `7` FEDE 4	DEVON ENERGY PROD
30025397420000	GOLDENEYE `18` FEDE 1H	COG PRODUCTION LLC
30025397690000	MESA VERDE `7` FEDERAL 5	DEVON ENERGY PROD
30025397700000	MESA VERDA '7' FEDERAL 6	DEVON ENERGY PROD
30025397710000	MESA VERDE '7' FEDERAL 8	DEVON ENERGY PROD
30025434730000	STATION SWD 001	MESQUITE SWD INC
SND_12_01_FED_002_1H	SND_12_01_FED_002_1H	
SND_12_01_FED_002_2H	SND_12_01_FED_002_2H	
SND_12_01_FED_002_3H	SND_12_01_FED_002_3H	



SND 12 01 FED 003 Mile Radius Wells		
UWI (APINum)	Well Label	Operator
30015058480000	PAULEY-HARRISON-STA 1	MILLER CHARLES P
30015102590000	FEDERAL-LITTLELD CT 1	CHESAPEAKE OPERATING INCORPORATED
30015102590001	LITTLEFIELD FEDERAL WD-1	CHESAPEAKE OPERATING INCORPORATED
30015203410000	TODD-STATE 36 1	DEVON ENERGY (NEVADA)
30015203410001	TODD 36D STATE 1	DEVON ENERGY PROD
30015211430000	TODD /1/ FEDERAL 1	TEXAS AMR OIL CORPOR
30015212610000	TODD /1/ FEDERAL 1-Y	TEXAS AMR OIL CORPOR
30015212910000	TODD /1/ FEDERAL 1Z	OXY USA INC
30015212910001	SUNDANCE `1` FEDERA 1	OXY USA INC
30015212910002	SUNDANCE `1` FEDERA 1	POGO PRODUCING CO
30015225550000	EL PASO FEDERAL 1	COQUINA OIL CORPORATION
30015226810000	EL PASO FEDERAL 2	COQUINA OIL CORP
30015234590000	SOTOL FEDERAL 1	SUPERIOR OIL COMPANY THE
		MOBIL PRODUCING TEXAS & NEW MEXICO
30015234590001	SOTOL FEDERAL 1	1
30015234590002	SOTOL FEDERAL 1	SONAT EXPLORATION COMPANY
30015239770000	SOTOL FEDERAL COM 2	CHESAPEAKE OPERATING INCORPORATED
30015239770001	SOTOL 2	CHESAPEAKE OPERATING INCORPORATED
30015256400000	CAL-MON 5	OXY USA INC
30015256970000	BRAN-BETTIS FEDERAL 1	MESQUITE SWD INCORPORATED
30015256970001	BRAN SWD 1	MESQUITE SWD INCORPORATED
30015272060000	CAL-MON 9	OXY USA INC
30015272270000	SUNDANCE '1' FEDERA 2	OXY USA INC
30015272690000	CAL-MON 10	OXY USA INC
		DEVON ENERGY PRODUCTION COMPANY L
30015273650000	TODD `36D` STATE 2	Р
30015273650001	TODD 36D STATE 2	DEVON ENERGY CORP
30015274960000	CAL-MON 19	OXY USA INC
30015275490000	CAL-MON 20	OXY USA INC
30015276300000	S D S `11` FEDERAL 2	ENRON OIL & GAS CO
		DEVON ENERGY PRODUCTION COMPANY L
30015280050000	TODD `36E` STATE 3	P
30015280220000	CAL-MON 15	POGO PRODUCING CO
30015280230000	CAL-MON 16	POGO PRODUCING CO
30015280240000	CALMON 17	OXY USA INC
30015280260000	CAL-MON 18	OXY USA INC
30015280340000	TIRANO `CNG` STATE 2	ENERGEX COMPANY
30015281080000	TODD `2` STATE 6	TEXACO EXPL&PROD INC
30015281100000	TODD `2` STATE 7	TEXACO EXPL&PROD INC
30015281110000	TODD `2` STATE 8	TEXACO EXPL&PROD INC
30015281200000	SUNDANCE `1` FEDERA 3	OXY USA INC

30015281760000	SUNDANCE `1` FEDERA 4	CHEVRON U S A INCORPORATED
		DEVON ENERGY PRODUCTION COMPANY L
30015281980000	TODD `36L` STATE 4	Р
30015281980001	TODD 36L STATE 4	DEVON ENERGY PROD
		DEVON ENERGY PRODUCTION COMPANY L
30015285200000	TODD `36F` STATE 6	Р
		DEVON ENERGY PRODUCTION COMPANY L
30015285210000	TODD '36K' STATE 5	P
		DEVON ENERGY PRODUCTION COMPANY L
30015285220000	TODD `36C` STATE 7	P
30015285220001	TODD 36 C STATE 7	DEVON ENERGY PROD
30015286260000	SOTOL `A` FEDERAL 3	CHEVRON U S A INCORPORATED
30015286510000	SOTOL FEDERAL 3	CHEVRON U S A INCORPORATED
30015286510001	SOTOL FEDERAL 3	SONAT EXPL INC
30015286520000	SOTOL FEDERAL 4	SONAT EXPL INC
30015286530000	SOTOL FEDERAL 5	CHEVRON U S A INCORPORATED
30015286530001	SOTOL FEDERAL 5	SONAT EXPL INC
30015286550000	LOTOS `11-F`FEDERAL 1	SONAT EXPL INC
30015286560000	SOTOL `A` FEDERAL 2	SONAT EXPL INC
		DEVON ENERGY PRODUCTION COMPANY L
30015287620000	TODD `36N` STATE 14	Р
30015287650000	SUNDANCE '1' FEDERAL 4	SONAT EXPL INC
		DEVON ENERGY PRODUCTION COMPANY L
30015288150000	TODD '36M' STATE 13	Р
30015288210000	LOTOS `11 F` FEDERA 2	CHEVRON U S A INCORPORATED
30015288210001	LOTOS `11 F` FEDERA 2	SONAT EXPL INC
30015288240000	SUNDANCE '1' FEDERAL 5	POGO PRODUCING CO
30015288640000	SOTOL FEDERAL 6	CHEVRON U S A INCORPORATED
30015288650000	SOTOL FEDERAL 7	CHEVRON U S A INCORPORATED
30015289050000	TODD '2' STATE 4	CHEVRON U S A INCORPORATED
30015289060000	TODD '2' STATE 3	CHEVRON U S A INCORPORATED
30015289360000	LOTOS `12-G` FEDERAL 1	SONAT EXPL INC
30015290710000	SOTOL FEDERAL 8	SONAT EXPL INC
30015290720000	SOTOL FEDERAL 9	SONAT EXPL INC
30015290730000	SOTOL 'A' FEDERAL 4	SONAT EXPL INC
		DEVON ENERGY PRODUCTION COMPANY L
30015291020000	TODD `36B` STATE 15	Р
		DEVON ENERGY PRODUCTION COMPANY L
30015292920000	TODD '36G' STATE 8	Р
		DEVON ENERGY PRODUCTION COMPANY L
30015292930000	TODD `36H` STATE 17	P
		DEVON ENERGY PRODUCTION COMPANY L
30015292940000	TODD `36A` STATE 16	P
30015293660000	TODD `2` STATE 5	CHEVRON U S A INCORPORATED

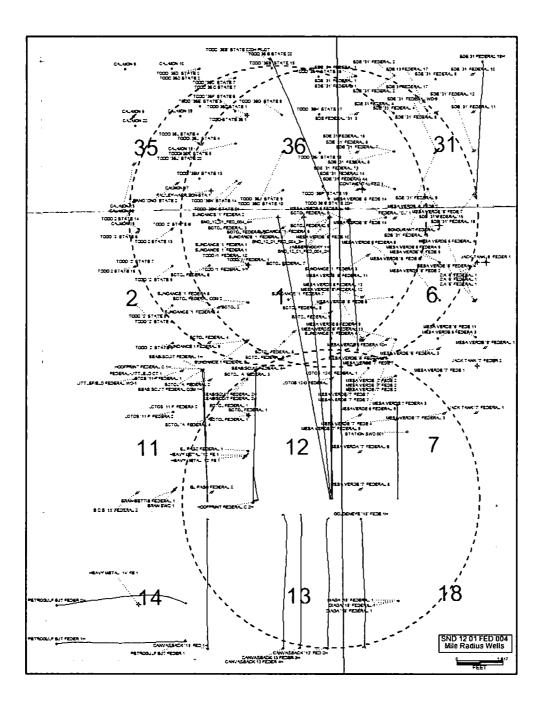
		DEVON ENERGY PRODUCTION COMPANY L
30015294040000	TODD '36J' STATE 9	P
30015294050000	TODD `360` STATE 10	DEVON ENERGY PRODUCTION COMPANY L P
30015294060000	TODD `36I` STATE 18	DEVON ENERGY PRODUCTION COMPANY L P
		DEVON ENERGY PRODUCTION COMPANY L
30015294070000	TODD `36P` STATE 19	Ρ
30015296020000	HEAVY METAL `12` FE 1	MESQUITE SWD INCORPORATED
30015296020001	HEAVY METAL `12` FE 1	MESQUITE SWD INCORPORATED
30015296030000	HEAVY METAL '14' FE 1	SANTA FE ENRG RES
30015296390000	TODD `36L` STATE 20	DEVON ENERGY CORP
30015296400000	TODD `36N` STATE 21	DEVON ENERGY CORP
30015296860000	SUNDANCE '1' FEDERA 8	OXY USA INC
30015300610000	SUNDANCE `1` FEDERA 7	OXY USA INC
30015300720000	TODD '2' STATE 6	SONAT EXPL INC
30015302130000	SUNDANCE '1' FEDERA 5	OXY USA INC
30015308850000	LOTOS 12-G FEDERAL 1	RISING STAR ENRG LTD
30015325000000	TODD 2 STATE 13	CHEVRON U S A INCORPORATED
30015325570000	SOTOL FEDERAL 8	RICKS EXPL INC
30015327620000	SOTOL FEDERAL 9	CHEVRON U S A INCORPORATED
30015327810000	TODD 2 STATE 14	CHEVRON U S A INCORPORATED
30015330040000	TODD 2 STATE 15	CHEVRON U S A INCORPORATED
30015330330000	SUNDANCE 1 FEDERAL 9	POGO PRODUCING CO
30015338930000	SUNDANCE 1 FEDERAL 9	POGO PRODUCING CO
30015349710000	CALMON 15	POGO PRODUCING CO
30015373650000	PETROGULF BJT FEDER 1	YATES PETROLEUM CORP
30015373650100	PETROGULF BJT FEDER 1H	EOG Y RESOURCES INC
30015373670000	PETROGULF BJT FEDER 2H	EOG Y RESOURCES INC
30015376050000	SEABISCUIT FEDERAL 1H	COG OPERATING LIMITED LIABILITY CORP
	SEABISCUIT FEDERAL COM	
30015376050100	1H	COG OPERATING LLC
30015376070000	SEABISCUIT FEDERAL 2H	COG OPERATING LIMITED LIABILITY CORP
30015376070100	SEABISCUIT FEDERAL 2H	COG OPERATING LIMITED LIABILITY CORP
		DEVON ENERGY PRODUCTION COMPANY L
30015380440000	TODD 36 B STATE 20H	Р
3001538044000P	TODD 36 B STATE 20	DEVON ENERGY CORPORATION
	TODD `36B` STATE 020H	
30015380447000	PILOT	DEVON ENERGY PROD
30015391910000	CANVASBACK `13` FED 1H	COG PRODUCTION LLC
30015405380000	CANVASBACK `13` FED 2H	COG PRODUCTION LLC
30015415290000	CANVASBACK 13 FEDER 3H	COG PROD LLC
30015415520000	CANVASBACK 13 FEDER 4H	COG PRODUCTION LLC
30015415630000	HOOFPRINT FEDERAL C 2H	COG OPERATING LLC

I	30015415630100	SEABISCUIT FEDERAL 4H	COG OPERATING LIMITED LIABILITY CORP
	30015416200000	HOOFPRINT FEDERAL C 1H	COG OPERATING LIMITED LIABILITY CORP
	30025081250000	CONTINENTAL-FED 1	HANKAMER CURTIS CORP
	30025081380000	BONDURANT-FEDERAL 1	HANKAMER CURTIS CORP
		FEDERAL 'CL' 1	AMOCO PROD CO
	30025277430000		MUSSELMAN OWEN&KING
	30025306910000	JACK TANK `6` FEDER 1	DEVON ENERGY PRODUCTION COMPANY L
	30025322020000	MESA VERDE `6` FEDE 2	P
	30025322090000	MESA VERDE `6` FEDERAL 1	ENRON OIL & GAS CO
			DEVON ENERGY PRODUCTION COMPANY L
	30025323970000	MESA VERDE `6` FEDE 6	P
			DEVON ENERGY PRODUCTION COMPANY L
	30025323980000	MESA VERDE `7` FEDE 1	Р
			DEVON ENERGY PRODUCTION COMPANY L
	30025323990000	MESA VERDE `7` FEDE 2	Р
			DEVON ENERGY PRODUCTION COMPANY L
	30025323990001	MESA VERDE `7` FEDE 2	Р
	30025323990002	MESA VERDE `7` FEDE 2	SANTA FE ENRG RES
<u> </u>	30025324770000	JACK TANK `7` FEDERAL 1	MERIDIAN OIL INC
	30025324820000	JACK TANK `7` FEDER 2	MERIDIAN OIL INC
	30025325020000	MESA VERDE `6` FEDERAL 3	ENRON OIL & GAS CO
	30025325030000	MESA VERDE '6' FEDERAL 4	ENRON OIL & GAS CO
\vdash	50023323030000		DEVON ENERGY PRODUCTION COMPANY L
	30025325040000	MESA VERDE `6` FEDE 5	P
\vdash			DEVON ENERGY PRODUCTION COMPANY I
	30025325040001	MESA VERDE 6 FEDERA 5	P
			DEVON ENERGY PRODUCTION COMPANY I
	30025325050000	ZIA `6` FEDERAL 1	P
			DEVON ENERGY PRODUCTION COMPANY I
	30025325050001	ZIA `6` FEDERAL 1	Р
	30025325050002	ZIA `6` FEDERAL 1	SANTA FE/SNYDER CORP
	the second se	MESA VERDE '7' FEDERAL 3	ENRON OIL & GAS CO
F			DEVON ENERGY PRODUCTION COMPANY
	30025326130000	MESA VERDE `6` FEDE 7	Ρ
			DEVON ENERGY PRODUCTION COMPANY
	30025326130001	MESA VERDE `6` FEDE 7	Р
			DEVON ENERGY PRODUCTION COMPANY
	30025326140000	MESA VERDE `6` FEDE 8	Р
			DEVON ENERGY PRODUCTION COMPANY
	30025326140001	MESA VERDE 6 FEDERA 8	Р
		SDE '31' FEDERAL 1	XTO ENERGY INCORPORATED
-	30025326760000		
	30025326760000 30025326760001	SDE `31` FEDERAL 1	TEXACO EXPL&PROD INC
	30025326760001	· · · · · · · · · · · ·	TEXACO EXPL&PROD INC XTO ENERGY INCORPORATED
-		SDE '31' FEDERAL 1	

30025327150000	SDE FEDERAL '31' 3	TEXACO EXPL&PROD INC
30025327160000	SDE `31` FEDERAL 4	XTO ENERGY INCORPORATED
30025327160001	SDE 31 FEDERAL 4	XTO ENERGY INC
30025327170000	SDE `31` FEDERAL 5	CHEVRON U S A INCORPORATED
30025327510000	MESA VERDE `6` FEDE 10	SANTA FE ENRG RES
30025327510001	MESA VERDE 6 FEDERAL 10	DEVON ENERGY PROD
		DEVON ENERGY PRODUCTION COMPANY L
30025327510100	MESA VERDE 6 FEDERA 10H	P
30025327520000	MESA VERDE `6` FEDERAL 11	SANTA FE ENRG RES
		DEVON ENERGY PRODUCTION COMPANY L
30025327530000	MESA VERDE `6` FEDE 14	Р
		DEVON ENERGY PRODUCTION COMPANY L
30025327530001	MESA VERDE `6` FEDE 14	Р
30025328650000	SDE '31' FEDERAL 6	TEXACO EXPL&PROD INC
30025328660000	SDE `31` FEDERAL 7	TEXACO EXPL&PROD INC
30025328670000	SDE `31` FEDERAL 8	XTO ENERGY INCORPORATED
30025328670001	SDE '31' FEDERAL 8	XTO ENERGY INCORPORATED
30025328680000	SDE `31` FEDERAL 9	XTO ENERGY INCORPORATED
30025328680001	SDE `31` FEDERAL WD-9	TEXACO EXPL&PROD INC
30025329160000	SDE '31' FEDERAL 14	XTO ENERGY INCORPORATED
30025329160001	SDE `31` FEDERAL 14	XTO ENERGY INCORPORATED
30025329170000	SDE '31' FEDERAL 15	XTO ENERGY INCORPORATED
30025329170001	SDE `31` FEDERAL 15	XTO ENERGY INCORPORATED
30025329500000	SDE '31' FEDERAL 10	TEXACO EXPL&PROD INC
30025329510000	SDE `31` FEDERAL 11	TEXACO EXPL&PROD INC
30025329520000	SDE `31` FEDERAL 12	TEXACO EXPL&PROD INC
30025329530000	SDE `31` FEDERAL 13	TEXACO EXPL&PROD INC
30025329540000	SDE `31` FEDERAL 16	TEXACO EXPL&PROD INC
30025330550000	MESA VERDE `6` FEDERAL 13	SANTA FE ENRG RES
30025330750000	MESA VERDE `6` FEDERAL 9	SANTA FE ENRG RES
30025330760000	MESA VERDE `6` FEDERAL 12	SANTA FE ENRG RES
		DEVON ENERGY PRODUCTION COMPANY L
30025331030000	MESA VERDE `7` FEDE 7	Р
		DEVON ENERGY PRODUCTION COMPANY L
30025331030001	MESA VERDE `7` FEDE 7	Р
30025331030002	MESA VERDE `7` FEDE 7	SANTA FE/SNYDER CORP
30025336260000	DIAGA `18` FEDERAL 1	OXY USA INC
30025336260001	DIAGA '18' FEDERAL 1	POGO PRODUCING CO
30025336260002	DIAGA `18` FEDERAL 1	POGO PRODUCING CO
30025364660000	MESA VERDE 6 FEDERA 3	DEVON ENERGY PRODUCTION COMPANY L P
30025364670000	MESA VERDE 6 FEDERA 9	DEVON ENERGY PRODUCTION COMPANY L P
30025364670001	MESAVERDE 6 FEDERAL 9	DEVON ENERGY PROD

30025364680000	MESA VERDE 6 FEDERAL 13	DEVON ENERGY PROD
30025380880000	SDE 31 FEDERAL 17	XTO ENERGY INCORPORATED
30025380880001	SDE 13 FEDERAL 17	XTO ENERGY INCORPORATED
30025381380000	SDE 31 FEDERAL 16	XTO ENERGY INCORPORATED
		DEVON ENERGY PRODUCTION COMPANY L
30025394440000	MESA VERDE 7 FEDERA 3	Ρ
		DEVON ENERGY PRODUCTION COMPANY L
30025395850000	MESA VERDE `6` FEDE 11	Р
30025395860000	MESA VERDE `7` FEDE 4	DEVON ENERGY PROD
30025397420000	GOLDENEYE '18' FEDE 1H	COG PRODUCTION LLC
30025397690000	MESA VERDE '7' FEDERAL 5	DEVON ENERGY PROD
30025397700000	MESA VERDA '7' FEDERAL 6	DEVON ENERGY PROD
30025397710000	MESA VERDE `7` FEDERAL 8	DEVON ENERGY PROD
30025398540000	MESA VERDE 6 FEDERAL 4	DEVON ENERGY PROD
30025404600000	SDE 31 FEDERAL 18H	XTO ENERGY INCORPORATED
30025434730000	STATION SWD 001	MESQUITE SWD INC
SND_12_01_FED_003_1H	SND_12_01_FED_003_1H	
SND_12_01_FED_003_2H	SND_12_01_FED_003_2H	
SND_12_01_FED_003_3H	SND_12_01_FED_003_3H	

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SND 12 01 FED 004 Mile Radius Wells		
UWI (APINum)	Well Label	Operator
30015058480000	PAULEY-HARRISON-STA 1	MILLER CHARLES P
30015102590000	FEDERAL-LITTLELD CT 1	CHESAPEAKE OPERATING INCORPORATED
30015102590001	LITTLEFIELD FEDERAL WD-1	CHESAPEAKE OPERATING INCORPORATED
30015203410000	TODD-STATE 36 1	DEVON ENERGY (NEVADA)
30015203410001	TODD 36D STATE 1	DEVON ENERGY PROD
30015211430000	TODD /1/ FEDERAL 1	TEXAS AMR OIL CORPOR
30015212610000	TODD /1/ FEDERAL 1-Y	TEXAS AMR OIL CORPOR
30015212910000	TODD /1/ FEDERAL 1Z	OXY USA INC
30015212910001	SUNDANCE `1` FEDERA 1	OXY USA INC
30015212910002	SUNDANCE `1` FEDERA 1	POGO PRODUCING CO
30015225550000	EL PASO FEDERAL 1	COQUINA OIL CORPORATION
30015226810000	EL PASO FEDERAL 2	COQUINA OIL CORP
30015234590000	SOTOL FEDERAL 1	SUPERIOR OIL COMPANY THE
		MOBIL PRODUCING TEXAS & NEW MEXICO
30015234590001	SOTOL FEDERAL 1	1
30015234590002	SOTOL FEDERAL 1	SONAT EXPLORATION COMPANY
30015239770000	SOTOL FEDERAL COM 2	CHESAPEAKE OPERATING INCORPORATED
30015239770001	SOTOL 2	CHESAPEAKE OPERATING INCORPORATED
30015256400000	CAL-MON 5	OXY USA INC
30015256970000	BRAN-BETTIS FEDERAL 1	MESQUITE SWD INCORPORATED
30015256970001	BRAN SWD 1	MESQUITE SWD INCORPORATED
30015272060000	CAL-MON 9	OXY USA INC
30015272270000	SUNDANCE '1' FEDERA 2	OXY USA INC
30015272690000	CAL-MON 10	OXY USA INC
		DEVON ENERGY PRODUCTION COMPANY I
30015273650000	TODD `36D` STATE 2	Ρ
30015273650001	TODD 36D STATE 2	DEVON ENERGY CORP
30015274960000	CAL-MON 19	OXY USA INC
30015275490000	CAL-MON 20	OXY USA INC
30015276300000	S D S `11` FEDERAL 2	ENRON OIL & GAS CO
		DEVON ENERGY PRODUCTION COMPANY I
30015280050000	TODD `36E` STATE 3	Ρ
30015280220000	CAL-MON 15	POGO PRODUCING CO
30015280230000	CAL-MON 16	POGO PRODUCING CO
30015280240000	CALMON 17	OXY USA INC
30015280260000	CAL-MON 18	OXY USA INC
30015280340000	TIRANO `CNG` STATE 2	ENERGEX COMPANY
30015281080000	TODD `2` STATE 6	TEXACO EXPL&PROD INC
30015281100000	TODD `2` STATE 7	TEXACO EXPL&PROD INC
30015281110000	TODD '2' STATE 8	TEXACO EXPL&PROD INC
30015281200000	SUNDANCE '1' FEDERA 3	OXY USA INC

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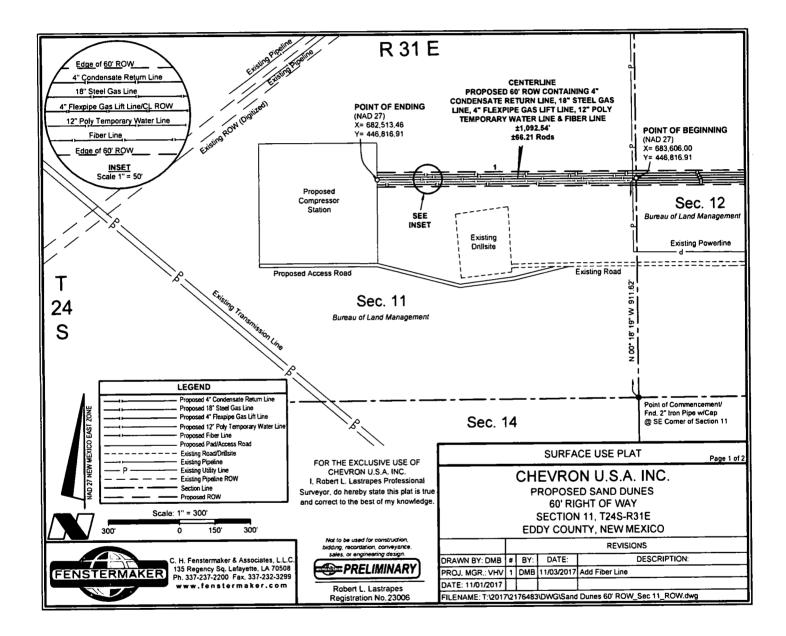
30015281760000	SUNDANCE '1' FEDERA 4	CHEVRON U S A INCORPORATED
		DEVON ENERGY PRODUCTION COMPANY L
30015281980000	TODD `36L` STATE 4	Ρ
30015281980001	TODD 36L STATE 4	DEVON ENERGY PROD
		DEVON ENERGY PRODUCTION COMPANY L
30015285200000	TODD `36F` STATE 6	P
		DEVON ENERGY PRODUCTION COMPANY L
30015285210000	TODD `36K` STATE 5	P
		DEVON ENERGY PRODUCTION COMPANY L
30015285220000	TODD '36C' STATE 7	P
30015285220001	TODD 36 C STATE 7	DEVON ENERGY PROD
30015286260000	SOTOL `A` FEDERAL 3	CHEVRON U S A INCORPORATED
30015286510000	SOTOL FEDERAL 3	CHEVRON U S A INCORPORATED
30015286510001	SOTOL FEDERAL 3	SONAT EXPL INC
30015286520000	SOTOL FEDERAL 4	SONAT EXPL INC
30015286530000	SOTOL FEDERAL 5	CHEVRON U S A INCORPORATED
30015286530001	SOTOL FEDERAL 5	SONAT EXPL INC
30015286550000	LOTOS `11-F`FEDERAL 1	SONAT EXPL INC
30015286560000	SOTOL `A` FEDERAL 2	SONAT EXPL INC
		DEVON ENERGY PRODUCTION COMPANY L
30015287620000	TODD `36N` STATE 14	Ρ
30015287650000	SUNDANCE `1` FEDERAL 4	SONAT EXPL INC
		DEVON ENERGY PRODUCTION COMPANY L
30015288150000	TODD `36M` STATE 13	Ρ
30015288210000	LOTOS `11 F` FEDERA 2	CHEVRON U S A INCORPORATED
30015288210001	LOTOS `11 F` FEDERA 2	SONAT EXPL INC
30015288240000	SUNDANCE `1` FEDERAL 5	POGO PRODUCING CO
30015288640000	SOTOL FEDERAL 6	CHEVRON U S A INCORPORATED
30015288650000	SOTOL FEDERAL 7	CHEVRON U S A INCORPORATED
30015289050000	TODD `2` STATE 4	CHEVRON U S A INCORPORATED
30015289060000	TODD `2` STATE 3	CHEVRON U S A INCORPORATED
30015289360000	LOTOS `12-G` FEDERAL 1	SONAT EXPL INC
30015290710000	SOTOL FEDERAL 8	SONAT EXPL INC
30015290720000	SOTOL FEDERAL 9	SONAT EXPL INC
30015290730000	SOTOL `A` FEDERAL 4	SONAT EXPL INC
		DEVON ENERGY PRODUCTION COMPANY L
30015291020000	TODD '36B' STATE 15	Р
		DEVON ENERGY PRODUCTION COMPANY L
30015292920000	TODD '36G' STATE 8	P
		DEVON ENERGY PRODUCTION COMPANY L
30015292930000	TODD `36H` STATE 17	P
		DEVON ENERGY PRODUCTION COMPANY L
30015292940000	TODD '36A' STATE 16	P
30015293660000	TODD `2` STATE 5	CHEVRON U S A INCORPORATED

1		DEVON ENERGY PRODUCTION COMPANY L
30015294040000	TODD `36J` STATE 9	Ρ
		DEVON ENERGY PRODUCTION COMPANY L
30015294050000	TODD `36O` STATE 10	Р
		DEVON ENERGY PRODUCTION COMPANY L
30015294060000	TODD `36I` STATE 18	Ρ
		DEVON ENERGY PRODUCTION COMPANY L
30015294070000	TODD `36P` STATE 19	Р
30015296020000	HEAVY METAL `12` FE 1	MESQUITE SWD INCORPORATED
30015296020001	HEAVY METAL `12` FE 1	MESQUITE SWD INCORPORATED
30015296030000	HEAVY METAL `14` FE 1	SANTA FE ENRG RES
30015296390000	TODD `36L` STATE 20	DEVON ENERGY CORP
30015296400000	TODD `36N` STATE 21	DEVON ENERGY CORP
30015296860000	SUNDANCE '1' FEDERA 8	OXY USA INC
30015300610000	SUNDANCE '1' FEDERA 7	OXY USA INC
30015300720000	TODD `2` STATE 6	SONAT EXPL INC
30015302130000	SUNDANCE '1' FEDERA 5	OXY USA INC
30015308850000	LOTOS 12-G FEDERAL 1	RISING STAR ENRG LTD
30015325000000	TODD 2 STATE 13	CHEVRON U S A INCORPORATED
30015325570000	SOTOL FEDERAL 8	RICKS EXPL INC
30015327620000	SOTOL FEDERAL 9	CHEVRON U S A INCORPORATED
30015327810000	TODD 2 STATE 14	CHEVRON U S A INCORPORATED
30015330040000	TODD 2 STATE 15	CHEVRON U S A INCORPORATED
30015330330000	SUNDANCE 1 FEDERAL 9	POGO PRODUCING CO
30015338930000	SUNDANCE 1 FEDERAL 9	POGO PRODUCING CO
30015349710000	CALMON 15	POGO PRODUCING CO
30015373650000	PETROGULF BJT FEDER 1	YATES PETROLEUM CORP
30015373650100	PETROGULF BJT FEDER 1H	EOG Y RESOURCES INC
30015373670000	PETROGULF BJT FEDER 2H	EOG Y RESOURCES INC
30015376050000	SEABISCUIT FEDERAL 1H	COG OPERATING LIMITED LIABILITY CORP
	SEABISCUIT FEDERAL COM	
30015376050100	1H	COG OPERATING LLC
30015376070000	SEABISCUIT FEDERAL 2H	COG OPERATING LIMITED LIABILITY CORP
30015376070100	SEABISCUIT FEDERAL 2H	COG OPERATING LIMITED LIABILITY CORP
		DEVON ENERGY PRODUCTION COMPANY L
30015380440000	TODD 36 B STATE 20H	Ρ
3001538044000P	TODD 36 B STATE 20	DEVON ENERGY CORPORATION
	TODD `36B` STATE 020H	
30015380447000	PILOT	DEVON ENERGY PROD
30015391910000	CANVASBACK `13` FED 1H	COG PRODUCTION LLC
30015405380000	CANVASBACK `13` FED 2H	COG PRODUCTION LLC
30015415290000	CANVASBACK 13 FEDER 3H	COG PROD LLC
30015415520000	CANVASBACK 13 FEDER 4H	COG PRODUCTION LLC
30015415630000	HOOFPRINT FEDERAL C 2H	COG OPERATING LLC

30015415630100	SEABISCUIT FEDERAL 4H	COG OPERATING LIMITED LIABILITY CORP
30015416200000	HOOFPRINT FEDERAL C 1H	COG OPERATING LIMITED LIABILITY CORP
30025081250000	CONTINENTAL-FED 1	HANKAMER CURTIS CORP
30025081380000	BONDURANT-FEDERAL 1	HANKAMER CURTIS CORP
30025277430000	FEDERAL `CL` 1	AMOCO PROD CO
30025306910000	JACK TANK `6` FEDER 1	MUSSELMAN OWEN&KING
50025500510000		DEVON ENERGY PRODUCTION COMPANY L
30025322020000	MESA VERDE `6` FEDE 2	P
30025322090000	MESA VERDE `6` FEDERAL 1	ENRON OIL & GAS CO
30025323970000	MESA VERDE `6` FEDE 6	DEVON ENERGY PRODUCTION COMPANY L P
30025323980000	MESA VERDE `7` FEDE 1	DEVON ENERGY PRODUCTION COMPANY L
30025323990000	MESA VERDE `7` FEDE 2	DEVON ENERGY PRODUCTION COMPANY L P
30025323990001	MESA VERDE `7` FEDE 2	DEVON ENERGY PRODUCTION COMPANY L P
30025323990002	MESA VERDE `7` FEDE 2	SANTA FE ENRG RES
30025324770000	JACK TANK `7` FEDERAL 1	MERIDIAN OIL INC
30025324820000	JACK TANK `7` FEDER 2	MERIDIAN OIL INC
30025325020000	MESA VERDE `6` FEDERAL 3	ENRON OIL & GAS CO
30025325030000	MESA VERDE `6` FEDERAL 4	ENRON OIL & GAS CO
30025325040000	MESA VERDE `6` FEDE 5	DEVON ENERGY PRODUCTION COMPANY L P
		DEVON ENERGY PRODUCTION COMPANY L
30025325040001	MESA VERDE 6 FEDERA 5	P
30025325050000	ZIA `6` FEDERAL 1	DEVON ENERGY PRODUCTION COMPANY L
		DEVON ENERGY PRODUCTION COMPANY L
30025325050001	ZIA `6` FEDERAL 1	Р
30025325050002	ZIA `6` FEDERAL 1	SANTA FE/SNYDER CORP
30025325520000	MESA VERDE `7` FEDERAL 3	ENRON OIL & GAS CO
		DEVON ENERGY PRODUCTION COMPANY L
30025326130000	MESA VERDE `6` FEDE 7	Р
30025326130001	MESA VERDE `6` FEDE 7	DEVON ENERGY PRODUCTION COMPANY L
30023320130001		DEVON ENERGY PRODUCTION COMPANY L
30025326140000	MESA VERDE `6` FEDE 8	Ρ
		DEVON ENERGY PRODUCTION COMPANY L
30025326140001	MESA VERDE 6 FEDERA 8	P
30025326760000	SDE '31' FEDERAL 1	XTO ENERGY INCORPORATED
30025326760001	SDE '31' FEDERAL 1	TEXACO EXPL&PROD INC
30025326760002	SDE '31' FEDERAL 1	XTO ENERGY INCORPORATED
30025327010000	SDE `31` FEDERAL 2	XTO ENERGY INCORPORATED
30025327010001	SDE `31` FEDERAL 2	TEXACO EXPL&PROD INC
	1	

30025327150000	SDE FEDERAL `31` 3	TEXACO EXPL&PROD INC
30025327160000	SDE `31` FEDERAL 4	XTO ENERGY INCORPORATED
30025327160001	SDE 31 FEDERAL 4	XTO ENERGY INC
30025327170000	SDE `31` FEDERAL 5	CHEVRON U S A INCORPORATED
30025327510000	MESA VERDE `6` FEDE 10	SANTA FE ENRG RES
30025327510001	MESA VERDE 6 FEDERAL 10	DEVON ENERGY PROD
50025527510001		DEVON ENERGY PRODUCTION COMPANY L
30025327510100	MESA VERDE 6 FEDERA 10H	P
30025327520000	MESA VERDE `6` FEDERAL 11	SANTA FE ENRG RES
		DEVON ENERGY PRODUCTION COMPANY L
30025327530000	MESA VERDE `6` FEDE 14	P
		DEVON ENERGY PRODUCTION COMPANY L
30025327530001	MESA VERDE `6` FEDE 14	Р
30025328650000	SDE `31` FEDERAL 6	TEXACO EXPL&PROD INC
30025328660000	SDE `31` FEDERAL 7	TEXACO EXPL&PROD INC
30025328670000	SDE '31' FEDERAL 8	XTO ENERGY INCORPORATED
30025328670001	SDE `31` FEDERAL 8	XTO ENERGY INCORPORATED
30025328680000	SDE `31` FEDERAL 9	XTO ENERGY INCORPORATED
30025328680001	SDE `31` FEDERAL WD-9	TEXACO EXPL&PROD INC
30025329160000	SDE `31` FEDERAL 14	XTO ENERGY INCORPORATED
30025329160001	SDE `31` FEDERAL 14	XTO ENERGY INCORPORATED
30025329170000	SDE `31` FEDERAL 15	XTO ENERGY INCORPORATED
30025329170001	SDE `31` FEDERAL 15	XTO ENERGY INCORPORATED
30025329500000	SDE `31` FEDERAL 10	TEXACO EXPL&PROD INC
30025329510000	SDE `31` FEDERAL 11	TEXACO EXPL&PROD INC
30025329520000	SDE `31` FEDERAL 12	TEXACO EXPL&PROD INC
30025329530000	SDE `31` FEDERAL 13	TEXACO EXPL&PROD INC
30025329540000	SDE `31` FEDERAL 16	TEXACO EXPL&PROD INC
30025330550000	MESA VERDE `6` FEDERAL 13	SANTA FE ENRG RES
30025330750000	MESA VERDE `6` FEDERAL 9	SANTA FE ENRG RES
30025330760000	MESA VERDE `6` FEDERAL 12	SANTA FE ENRG RES
		DEVON ENERGY PRODUCTION COMPANY L
30025331030000	MESA VERDE `7` FEDE 7	Р
		DEVON ENERGY PRODUCTION COMPANY L
30025331030001	MESA VERDE `7` FEDE 7	Р
30025331030002	MESA VERDE `7` FEDE 7	SANTA FE/SNYDER CORP
30025336260000	DIAGA `18` FEDERAL 1	OXY USA INC
30025336260001	DIAGA `18` FEDERAL 1	POGO PRODUCING CO
30025336260002	DIAGA `18` FEDERAL 1	POGO PRODUCING CO
		DEVON ENERGY PRODUCTION COMPANY L
30025364660000	MESA VERDE 6 FEDERA 3	Р
		DEVON ENERGY PRODUCTION COMPANY L
30025364670000	MESA VERDE 6 FEDERA 9	Р
30025364670001	MESAVERDE 6 FEDERAL 9	DEVON ENERGY PROD

	30025364680000	MESA VERDE 6 FEDERAL 13	DEVON ENERGY PROD
	30025380880000	SDE 31 FEDERAL 17	XTO ENERGY INCORPORATED
	30025380880001	SDE 13 FEDERAL 17	XTO ENERGY INCORPORATED
	30025381380000	SDE 31 FEDERAL 16	XTO ENERGY INCORPORATED
			DEVON ENERGY PRODUCTION COMPANY L
	30025394440000	MESA VERDE 7 FEDERA 3	Р
			DEVON ENERGY PRODUCTION COMPANY L
	30025395850000	MESA VERDE `6` FEDE 11	Р
	30025395860000	MESA VERDE `7` FEDE 4	DEVON ENERGY PROD
	30025397420000	GOLDENEYE '18' FEDE 1H	COG PRODUCTION LLC
	30025397690000	MESA VERDE `7` FEDERAL 5	DEVON ENERGY PROD
	30025397700000	MESA VERDA `7` FEDERAL 6	DEVON ENERGY PROD
	30025397710000	MESA VERDE '7' FEDERAL 8	DEVON ENERGY PROD
	30025398540000	MESA VERDE 6 FEDERAL 4	DEVON ENERGY PROD
	30025404600000	SDE 31 FEDERAL 18H	XTO ENERGY INCORPORATED
	30025434730000	STATION SWD 001	MESQUITE SWD INC
JABBERW	OCKY_1H	JABBERWOCKY 1H	Chevron
SND_12_	01_FED_004_2H	SND_12_01_FED_004_2H	
SND_12_	01_FED_004_3H	SND_12_01_FED_004_3H	
SND_12_	01_FED_004_4H	SND_12_01_FED_004_4H	



DISCLAIMER: At this time, C. H. Fenstermaker & Associates, L.L.C. has not performed nor was asked to perform any type of engineering, hydrological modeling, flood plain, or "No Rise" certification analyses, induding but not limited to determining whether the project will impact flood hazards in connection with federaI/FEMA, state, and/or local laws, ordinances and regulations. Accordingly, Fenstermaker makes no warranty or representation of any kind as to the foregoing issues, and persons or entities using this information shall do so at their own risk.

NOTE:

Please be advised, that while reasonable efforts are made to locate and verify pipelines and anomalies using our standard pipeline locating equipment, it is impossible to be 100 % effective. As such, we advise using caution when performing work as there is a possibility that pipelines and other hazards, such as fiber optic cables, PVC pipelines, etc. may exist undetected on site.

NOTE:

Many states maintain information centers that establish links between those who dig (excavators) and those who own and operate underground facilities (operators). It is advisable and in most states, law, for the contractor to contact the center for assistance in locating and marking underground utilities. For guidance: New Mexico One Call www.nmonecall.org. METES AND BOUNDS DESCRIPTION OF A PROPOSED 60' ROW SECTION 11, 1245-R31E EDDY COUNTY, NEW MEXICO

PROPOSED 60' ROW

Survey of the centertine of a Proposed 50 toot wide ROW essement with 30 feet on each side of centertine, containing 1,092,54 feet or 66,21 Rods crossing Bureau of Land Management land in Section 11 of Township 24 South Range 31 East, Eddy County, New Mexico.

COMMENCING at a Found 2' from Pipe with Cap, located at the Southeast Corner of said Section 11 Township 24 South Range 31 East, THENCE North 00 degrees 18 minutes 19 acconds West 911.52 feet to the Point of Beginning at the common section line between Sections 11 and 12, said Point of Beginning having the following coordinates: X= 683,606.00 and Y= 446,816.91 (New Mexico State Pisne Coordinate System, East Zone, NAD 27).

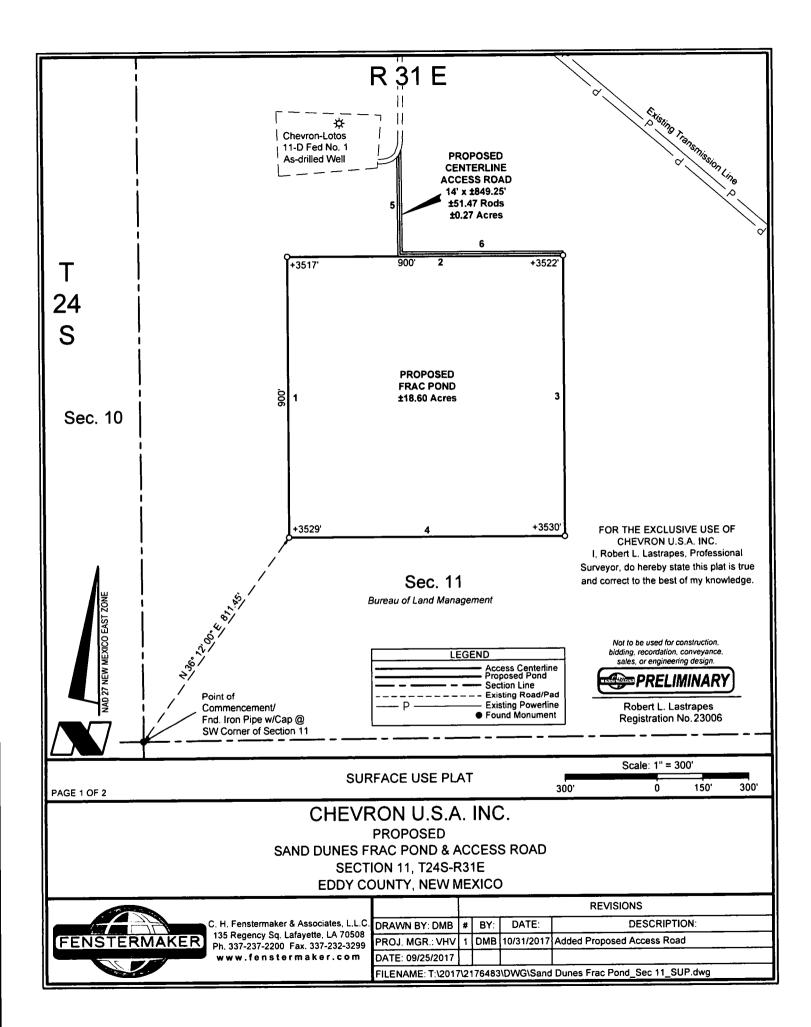
THENCE West 1,092,54 feet to Point of Ending having the following coordinates: X= 682,513,46 and Y= 446,816.91 (New Marrico State Plane Coordinate System, East Zone, NAD 27).

The bearings recited hereon are oriented to New Mexico State Plane Coordinate System, East Zone, NAD 27.

This description represents a survey made on the ground for the centertine of a Proposed ROW and intended solely for that purpose, This description does not represent a boundary survey.

CENTERLINE PROPOSED 60' ROW					
COURSE BEARING DISTANCE					
1	WEST	1092.54'			

			_					
		SURFACE USE PLAT Page						
	I, Robert L. Lastrapes Professional Surveyor, do hereby state this plat is true and correct to the best of my knowledge.			P	ROPOSI 60' RI SECTIOI	ON U.S.A. INC. ED SAND DUNES GHT OF WAY N 11, T24S-R31E NTY, NEW MEXICO		
	bidding, recordation, conveyance.		Γ			REVISIONS		
C. H. Fenstermaker & Associates, L.L.C 135 Regency Sq. Lafayette, LA 70508	PREI IMINARY	DRAWN BY: DMB	#	BY:	DATE:	DESCRIPTION:		
FENSTERMAKER 135 Regency Sq. Lafayette, LA 70508 Ph. 337-237-2200 Fax, 337-232-3299		PROJ. MGR.: VHV	1	DMB	11/03/2017	Add Fiber Line		
www.fenstermaker.com	Robert L. Lastrapes	DATE: 11/01/2017						
	Registration No. 23006	FILENAME: T-1201	7\21	76483		Dunes 60' ROW Sec 11 ROW dwg		



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NOTE:

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FOR THE EXCLUSIVE USE OF
CHEVRON U.S.A. INC.
I, Robert L. Lastrapes, Professional
Surveyor, do hereby state this plat is true
and correct to the best of my knowledge.

Not to be used for construction, bidding, recordation, conveyance, sales, or engineering design.



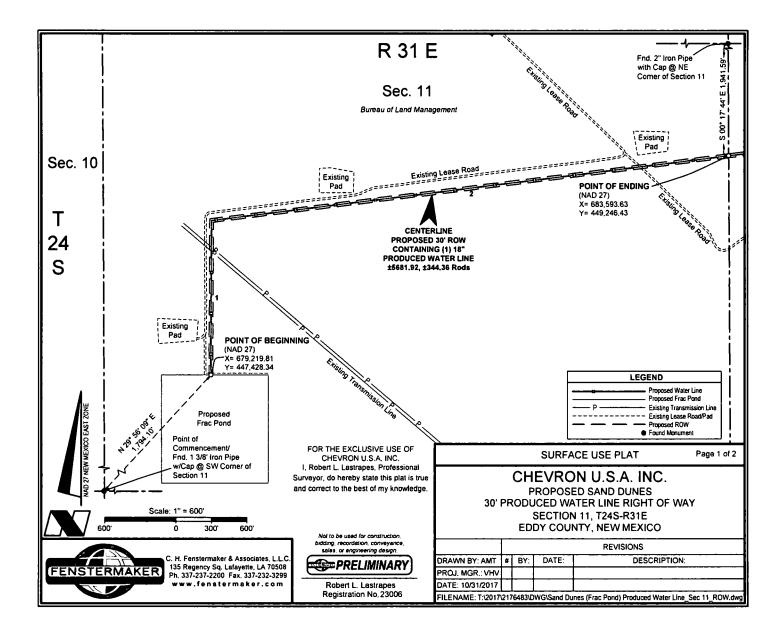
Robert L. Lastrapes Registration No.23006

NW FF	RAC POND CO	ORNER	NE F	RAC POND C	ONER		
X=	678,804	NAD 27	X=	679,704	NAD 27		
Y=	447,428		Y=	447,428			
LAT.	32.228775		LAT.	32.228762			
LONG.	103.755101		LONG.	103.752191			
X=	719,988	NAD83	X=	720,888	NAD83		
Y=	447,487		Y=	447,487			
LAT.	32.228898		LAT.	32.228885			
LONG.	103.755584		LONG.	103.752674			
ELEVA	TION +3517' N	AVD 88	ELEVA	TION +3522' N	AVD 88		
SW FRAC POND CORNER			SE FRAC POND CORNER				
SW FF	RAC POND CO	ORNER	SE FF	AC POND CO	RNER		
-				AC POND CC 679,704			
-				679,704			
X= Y=	678,804		X= Y=	679,704			
X= Y= LAT.	678,804 446,528	NAD 27	X= Y= LAT.	679,704 446,528			
X= Y= LAT. LONG.	678,804 446,528 32.226301 103.755117	NAD 27	X= Y= LAT. LONG.	679,704 446,528 32.226288	NAD 27		
X= Y= LAT. LONG.	678,804 446,528 32.226301 103.755117 719,988	NAD 27	X= Y= LAT. LONG.	679,704 446,528 32.226288 103.752207 720,888	NAD 27		
X= Y= LAT. LONG. X= Y=	678,804 446,528 32.226301 103.755117 719,988	NAD 27	X= Y= LAT. LONG. X= Y=	679,704 446,528 32.226288 103.752207 720,888	NAD 27		
X= Y= LAT. LONG. X= Y= LAT.	678,804 446,528 32,226301 103,755117 719,988 446,587	NAD 27 NAD83	X= Y= LAT. LONG. X= Y= LAT.	679,704 446,528 32.226288 103.752207 720,888 446,587	NAD 27		

PROPOSED FRAC POND					
COURSE	BEARING	DISTANCE			
1	1 NORTH 2 EAST				
2					
3	SOUTH	900.00'			
4	WEST	900.00'			

CENTERLINE PROPOSED ACCESS ROAD							
COURSE	DISTANCE						
5	S 00° 24' 44" E	317.38'					
6	EAST	531.87					

PAGE 2 OF 2	RFACE USE PL	АТ			
SAND DUNES F	RON U.S.A PROPOSED RAC POND & A ION 11, T24S-F DUNTY, NEW M	ACC 8311	ES E	S ROAD	
					REVISIONS
C. H. Fenstermaker & Associates, L.L.C. 135 Regency Sq. Lafayette, LA 70508	DRAWN BY: DMB	#	BY:	DATE:	DESCRIPTION:
FENSTERMAKER ¹³⁵ Regency Sq. Lafayette, LA 70508 Ph. 337-237-2200 Fax. 337-232-3299	PROJ. MGR.: VHV	1 C	MB	10/31/2017	Added Proposed Access Road
www.fenstermaker.com	DATE: 09/25/2017				
	FILENAME: T:\2017	\217	6483	DWG\Sand	Dunes Frac Pond_Sec 11_SUP.dwg



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METES AND BOUNDS DESCRIPTION OF A PROPOSED 30' PRODUCED WATER LINE ROW SECTION 11, T24S-R31E EDDY COUNTY, NEW MEXICO

PROPOSED 30' PRODUCED WATER LINE ROW

Survey of the centerline of a Proposed 30 foot wide Produced Water Line ROW easement with 15 feet on each side of centerline, 5,681.92 feet or 344.36 Rods crossing Bureau of Land Management land in Section 11 of Township 24 South Range 31 East, Eddy County, New Mexico.

COMMENCING at a Found 1 3/8⁴ from Pipe with Cap, located at the Southwest Corner of said Section 11 Township 24 South Range 31 East: THENCE North 29 degrees 56 minutes 09 seconds East 1,794.10 feet to the POINT OF BEGINNING, said POINT OF BEGINNING having the following coordinates: X= 679,219.81 and Y= 447,428.34 (New Mexico State Plane Coordinate System, East Zone, NAD 27).

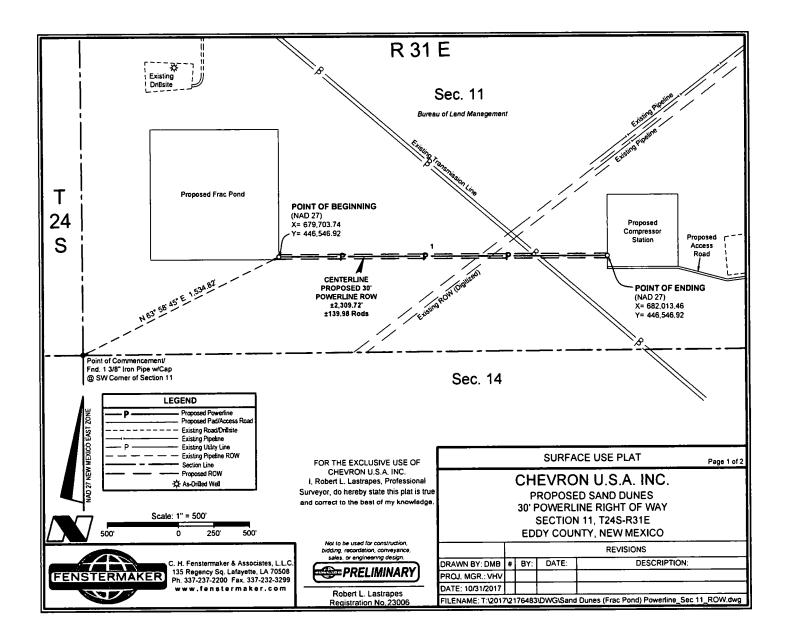
THENCE North 00 degrees 14 minutes 55 seconds East 1,280.73 feet to a point;

THEINCE North 82 degrees 59 minutes 13 seconds East 4.401.19 feet to the POINT OF ENDING at the common section time between Sections 11 and 12, said POINT OF ENDING having the following coordinates: X= 683,593,63 and Y= 449,264.33 (New Mexico State Plane Coordinate System, East Zone, NAD 27).

The bearings recited hereon are oriented to New Mexico State Plane Coordinate System, East Zone, NAD 27.

This description represents a survey made on the ground for the centerline of a Proposed Produced Water Line ROW and intended solely for that purpose. This description does not represent a boundary survey.

		c			5" E 1280.73'	
	FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC. I, Robert L. Lastrapes, Professional Surveyor, do hereby state this plat is true and correct to the best of my knowledge.		F		CE USE PLAT	Page 2 of 2
	Not to be used for construction, bidding, recordation, conveyance,	30'		SECTION	NTER LINE RIGHT OF N 11, T24S-R31E NTY, NEW MEXICO REVISIONS	F WAY
C. H. Fenstermaker & Associates, L.L.C.	sales, or engineering design.	DRAWN BY: AMT	# BY:	DATE:	DESCRIP	
FENSTERMAKER 135 Regency Sq. Lafayette, LA 70508 Ph, 337-237-2200 Fax, 337-232-3299	PRELIMINARY	PROJ. MGR.: VHV				
www.fenstermaker.com	Robert L. Lastrapes	DATE: 10/31/2017		1		·
	Registration No. 23006	FILENAME: T:\2017\	2176483\	DWG\Sand Du	nes (Frac Pond) Produced Wate	r Line_Sec 11_ROW.dw



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METES AND BOUNDS DESCRIPTION OF A PROPOSED 30' POWERLINE ROW SECTION 11, T24S-R31E EDDY COUNTY, NEW MEXICO

PROPOSED 30' POWERLINE ROW

Survey of the centerline of a Proposed 30 foot wide Powerline ROW easement with 15 feel on each side of centerline, containing 2,309.72 feet or 139.98 rods crossing Bureau of Lend Management land in Section 11 of Township 24 South Range 31 East, Eddy County, New Mexico.

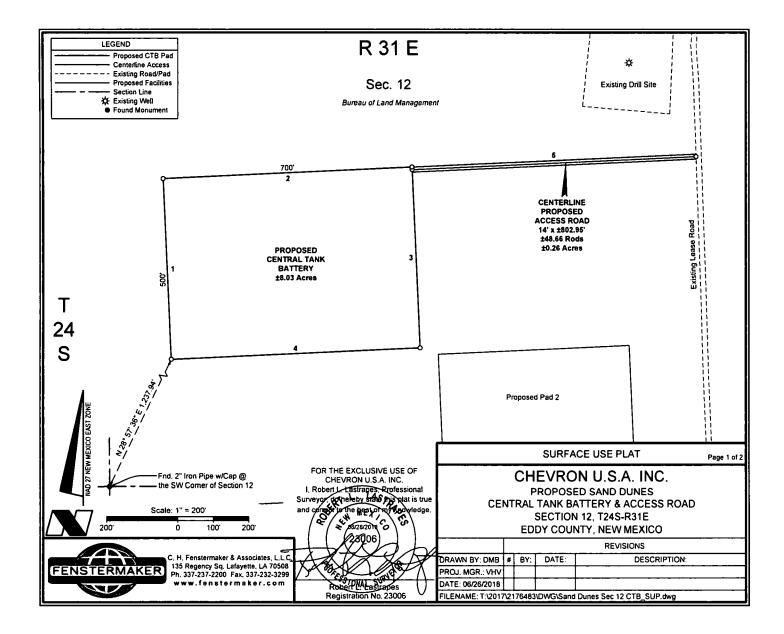
COMMENCING at a Found 1 3/8" Iron Pipe with Cap, located at the Southwest Comer of said Section 11 Township 24 South Range 31 East: THENCE North 63 degrees 58 minutes 45 seconds East 1,534.82 feel to the Point of Beginning, said Point of Beginning having the following coordinates: X= 679,703.74 and Y= 446,545.92 (New Mexico State Plane Coordinate System, East Zone, NAD 27).

THENCE East 2,309,72 teet to Point of Ending having the following coordinates: X= 682,013,46 and Y= 446,546.92 (New Mexico State Plane Coordinate System, East Zone, NAD 27).

The bearings recited hereon are oriented to New Mexico State Plane Coordinate System, East Zone, NAD 27,

This description represents a survey made on the ground for the centerline of a Proposed Powertine ROW and intended solely for that purpose. This description does not represent a boundary survey.

			COURSE 1	30' POWE	NE PROPOSED RLINE ROW RING DISTANCE AST 2309.72	
	FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC.			SURFA	ACE USE PLAT	Page 2 of 2
	I, Robert L. Lastrapes, Professional Surveyor, do hereby state this plat is true and correct to the best of my knowledge.		F 30'	PROPOSE POWERL	DN U.S.A. INC. ED SAND DUNES INE RIGHT OF WAY 11, T24S-R31E NTY, NEW MEXICO	
	Not to be used for construction, bidding, recordation, conveyance, salos, or engineering design				REVISIONS	
C. H. Fenstermaker & Associates, L.L.C. ISS Regency Sq. Lafayette, LA 70508 Ph. 332,232,2300 Eav. 332,232,230		DRAWN BY: DMB	# BY:	DATE:	DESCRIPTION:	
Ph. 337-237-2200 Fax. 337-232-3299 www.fenstermaker.com	Robert L. Lastrapes	PROJ. MGR.: VHV DATE: 10/31/2017			· · · · · · · · · · · · · · · · · · ·	
	Registration No. 23006		12176483	DWG\Sand	L Dunes (Frac Pond) Powerline_Sec	11_ROW.dwg



DISCLAIMER: At this time, C. H. Fenstermaker & Associates, L.L.C. has not performed nor was asked to perform any type of engineering, hydrological modeling, flood plain, or "No Rise" certification analyses, including but not limited to determining whether the project will impact flood hazards in connection with federal/FEMA, state, and/or local laws, ordinances and regulations. Accordingly, Fenstermaker makes no warranty or representation of any kind as to the foregoing issues, and persons or entities using this information shall do so at their own risk.

NOTE:

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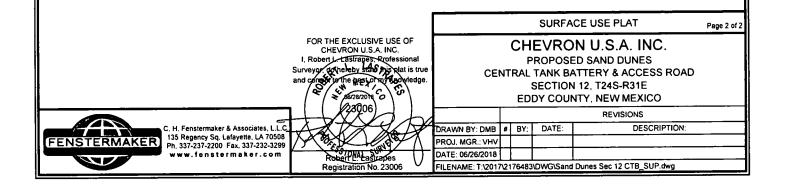
NOTE:

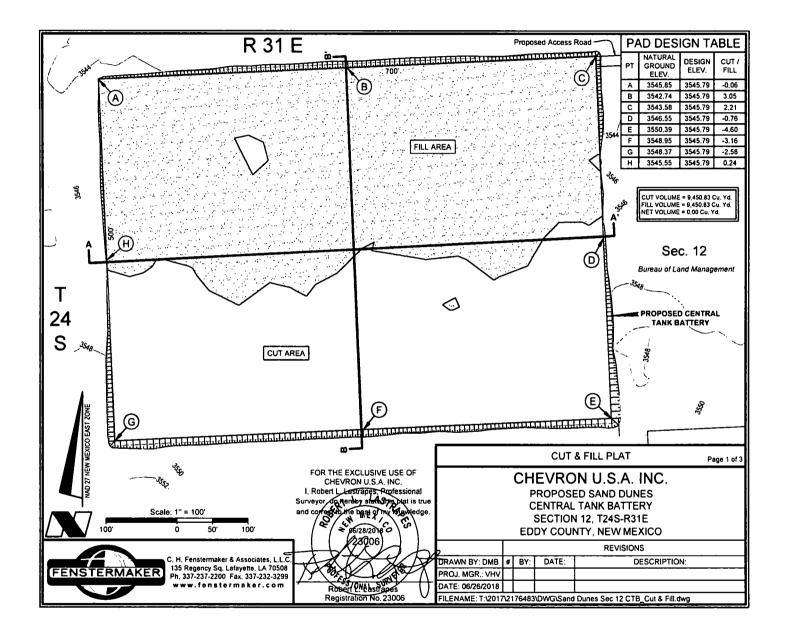
Many states maintain information centers that establish links between those who dig (excavators) and those who own and operate underground facilities (operators) It is advisable and in most states, law, for the contractor to contact the center for assistance in locating and marking underground utilities. For guidance, a few states with such programs are listed below: New Mexico One Call System - <u>www.nmonecall.org</u>.

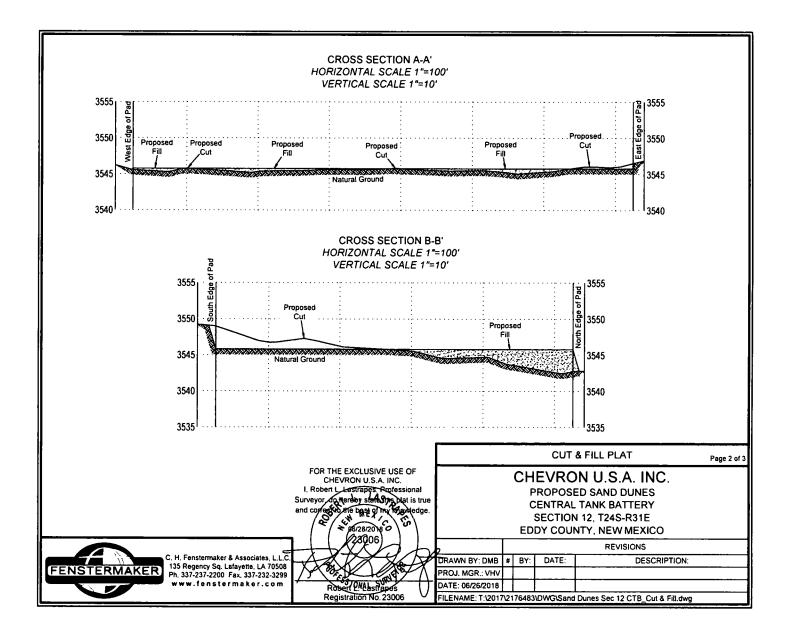
1	NW CTB CORNE	R		NE CTB CORNE	R
X=	684,188		X=	684,887	
Y=	447,488	NAD 27	Y=	447,520	NAD 27
LAT.	32.228858 N	NAU 27	LAT.	32.228934 N	NAU ZI
LONG.	103.737690 W		LONG.	103.735428 W	
X=	725,372		X=	726,071	
Y=	447,547	NAD83/2011	Y=	447,578	NAD83/2011
LAT.	32.228981 N	NAD63/2011	LAT.	32.229057 N	10406372011
LONG.	103.738173 W		LONG.	103.735911 W	
ELE	VATION +3546' N	AVD 68	FIF	VATION +3544' N	AVD 88
	SW CTB CORN			SE CTB CORNE	
X=			X=		
X= Y=	SW CTB CORN	ER		SE CTB CORNE	R
	SW CTB CORN 684,210		X=	SE CTB CORNE 684,910	
Y=	SW CTB CORN 684,210 446,988 32.227484 N	ER	X= Y=	SE CTB CORNE 684,910 447,020 32.227561 N	R
Y= LAT.	SW CTB CORN 684,210 446,988 32.227484 N	ER	X= Y= LAT.	SE CTB CORNE 684,910 447,020 32.227561 N	R
Y= LAT, LONG.	SW CTB CORNE 684,210 446,988 32.227484 N 103.737626 W	ER NAD 27	X= Y= LAT. LONG. X= Y=	SE CTB CORNE 684,910 447,020 32.227561 N 103.735364 W	NAD 27
Y= LAT, LONG. X=	SW CTB CORN 684,210 446,988 32.227484 N 103.737626 W 725,394	ER	X= Y= LAT. LONG. X= Y=	SE CTB CORNE 684,910 447,020 32.227561 N 103.735364 W 726,093	R
Y= LAT, <u>LONG.</u> X= Y≖	SW CTE CORNE 684,210 446,988 32.227484 N 103.737626 W 725,394 447,047	ER NAD 27	X= Y= LAT. LONG. X= Y=	SE CTB CORNE 684,910 447,020 32.227561 N 103.735364 W 726.093 447,079	NAD 27

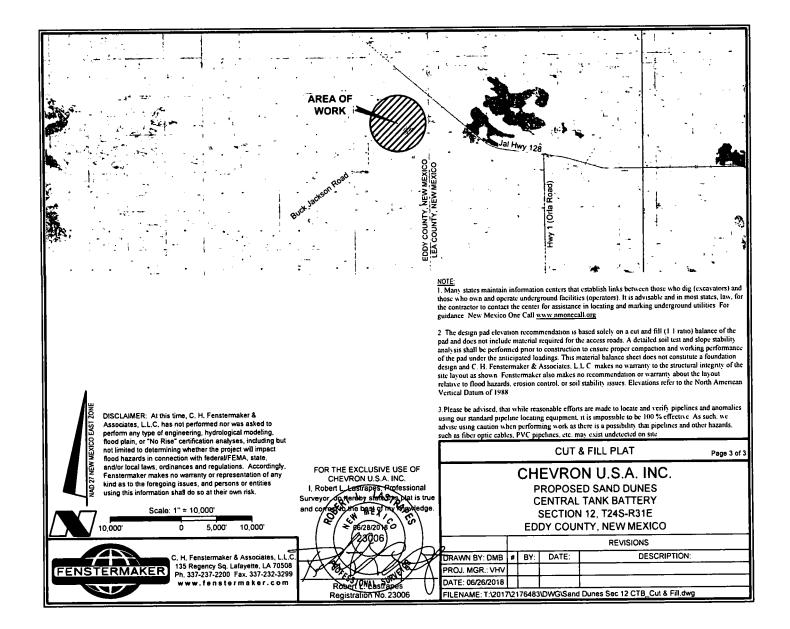
PROPOS	ED CENTRAL TANK	BATTERY
COURSE	BEARING	DISTANCE
1	N 02* 35' 27" W	500.00'
2	N 87° 24' 33" E	700.00
3	S 02* 35' 27" E	500.00'
4	S 87° 24' 33" W	700.00'

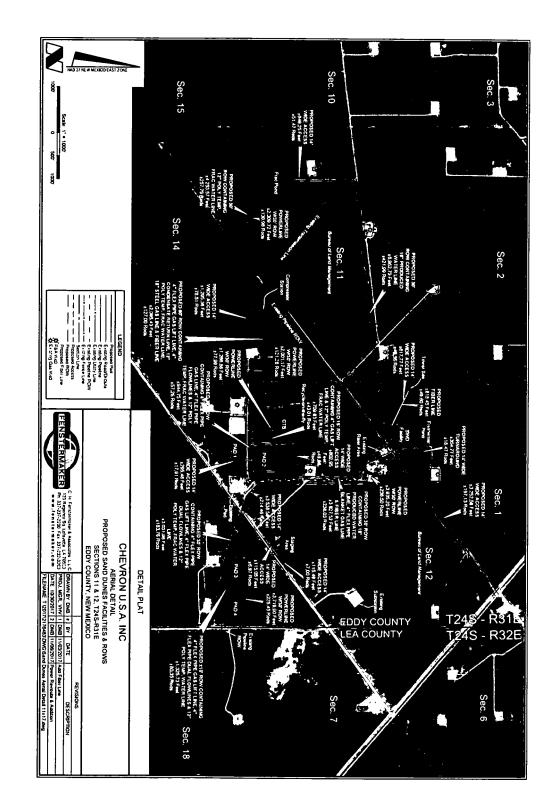
CENTERLI	NE PROPOSED AC	CESS ROAD
COURSE	BEARING	DISTANCE
5	N 87° 24' 33" E	802.95

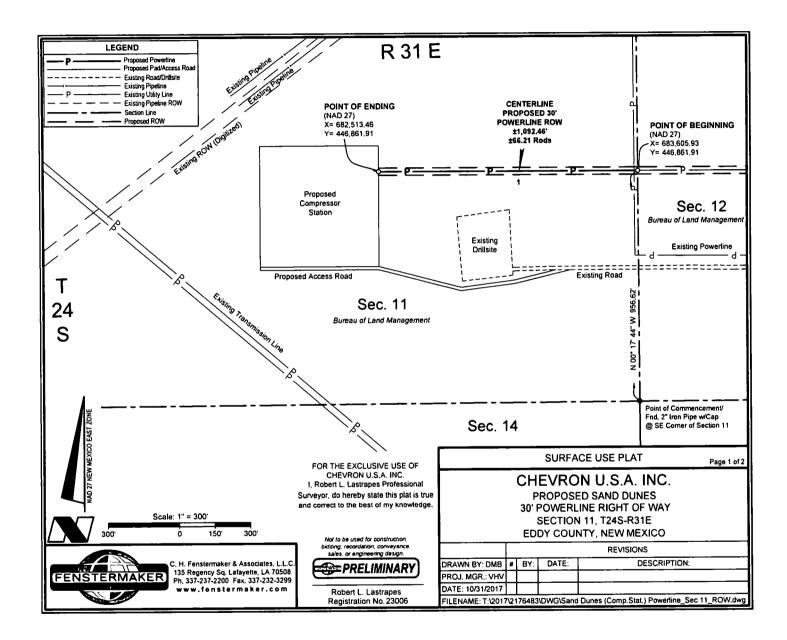












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METES AND BOUNDS DESCRIPTION OF A PROPOSED 30' POWERLINE ROW SECTION 11, 1245-R31E EDDY COUNTY, NEW MEXICO

PROPOSED 30' POWERLINE ROW

Survey of the centerline of a Proposed 30 foot wide Powerline ROW easement with 15 feet on each side of centarline, containing 1,092,46 feet or 66,21 Rods crossing Bureau of Land Management land in Section 11 of Township 24 South Range 31 East, Eddy County, New Maxico.

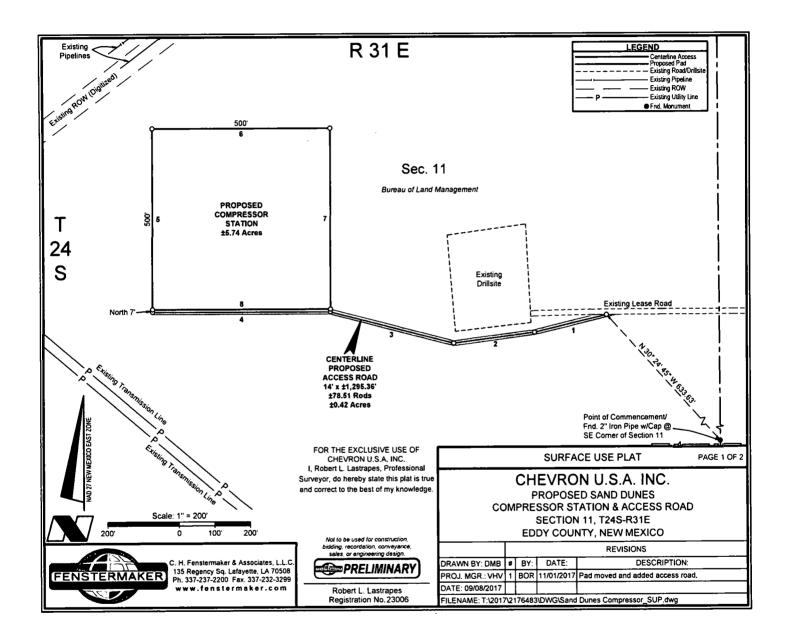
COMMENCING at a Found 2' fron Pipe with Cap, located at the Southeast Corner of said Section 11 Township 24 South Range 31 East, THENCE North 00 degrees 17 minutes 44 seconds East 956.62 test to the Point of Beginning at the common section line between Sections 11 and 12, said Point of Beginning having the following coordinates X=683,605.93 and Y= 446,861.91 (New Maxico State Plane Coordinate System, East Zone, NAD 27).

THENCE West 1,092.46 feet to Point of Ending having the following coordinates X= 682,513.46 and Y= 446,661.91 (New Mexico State Plane Coordinate System, East Zone, NAD 27).

The bearings recited hereon are oriented to New Mexico State Plane Coordinate System, East Zone, NAD 27.

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			co	DURSE	BEARING	DISTANCE	
				1	WEST	1092.46'	
						,	
	FOR THE EXCLUSIVE USE OF			SURF	FACE USE P	LAT	Page 2 of 2
	CHEVRON U.S.A. INC.		<u>сп</u>		ON U.S.		
	I, Robert L. Lastrapes Professional						
	Surveyor, do hereby state this plat is true and correct to the best of my knowledge.				SED SAND		
	,,,,,						
					DN 11, T24S-		
	Not to be used for construction bidding recordation conveyance				UNTY, NEW	MEXICO	
	sales or engineering design				REVI	SIONS	
C. H. Fenstermaker & Associates, L.L.C. 135 Regency Sq. Lafayette, LA 70508	PRELIMINARY	DRAWN BY: DMB	# BY:	DATE:		DESCRIPTION:	
Ph. 337-237-2200 Fax. 337-232-3299		PROJ. MGR.: VHV					
www.fenstermaker.com	Robert L. Lastrapes	DATE: 10/31/2017					
	Registration No. 23006	FILENAME: T:\2017	2176483	DWG\Sa	nd Dunes (Comp	Stat.) Powerline Sec	11 ROW.dw



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NOTE:

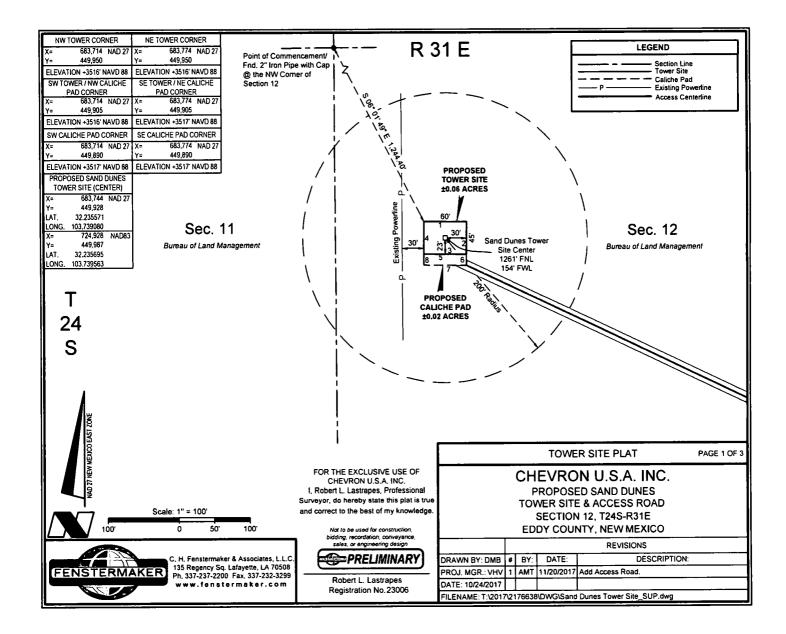
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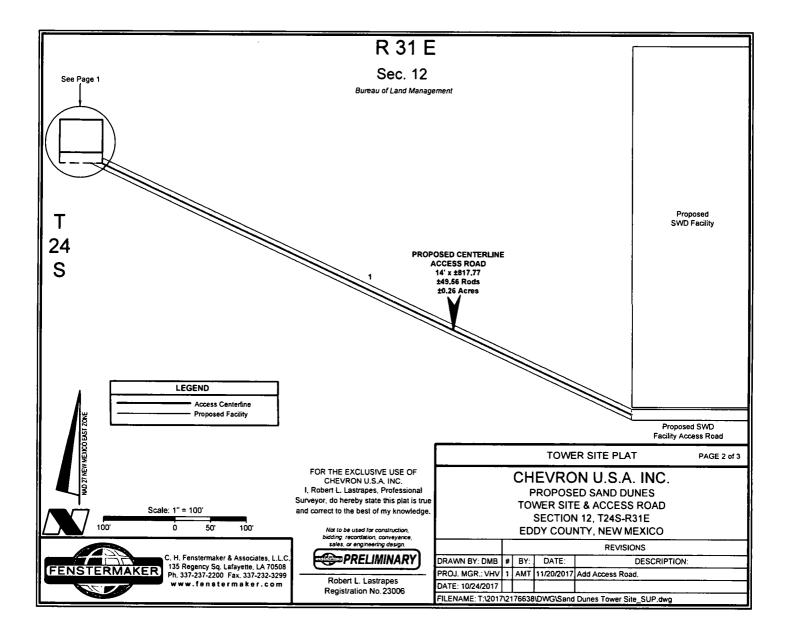
NW CO	MPRESSOR S	STATION	NE COR	MPRESSOR S	TATION
	CORNER			CORNER	
X=	682,013	NAD 27	X=	682,513	NAD 27
Y=	446,970		Y=	446,970	
LAT.	32.227466		LAT.	32.227458	
LONG.	103.744730		LONG.	103,743113	
X=	723,198	NAD83	X=	723,698	NAD83
Y=	447,029		Y=	447,029	
LAT.	32.227589		LAT.	32.227582	
LONG.	103.745212		LONG.	103.743596	
ELEVA	TION +3543' N	IAVD 88	ELEVA	TION +3542' N	AVD 88
SW CO	MPRESSOR 5	TATION	SE COM	PRESSOR S	TATION
	CORNER			CORNER	
X=	682,013	NAD 27	X=	682,513	NAD 27
Y=	446,470		Y=	446,470	
LAT.	32.226092		LAT.	32.226084	
LONG.	103.744739		LONG.	103,743122	
X=	723,198	NAD83	X=	723,698	NAD83
Y≖	446,529		Y=	446,529	
LAT.	32.226215		LAT.	32.226208	
LONG.	103.745221		LONG.	103.743604	
	TION +3546' N		S. S. 41	TION +3550' N	

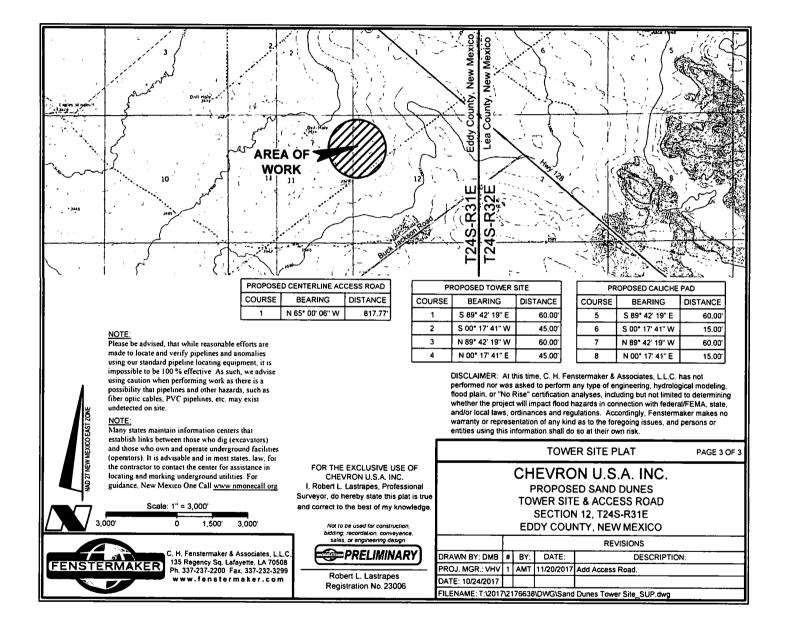
CENTERLINE PROPOSED ACCESS ROAD					
COURSE	BEARING	DISTANCE			
1	S 76° 41' 50" W	208.78			
2	S 82* 32' 22" W	229.43			
3	N 75* 39' 11" W	358.03			
4	WEST	499.12			

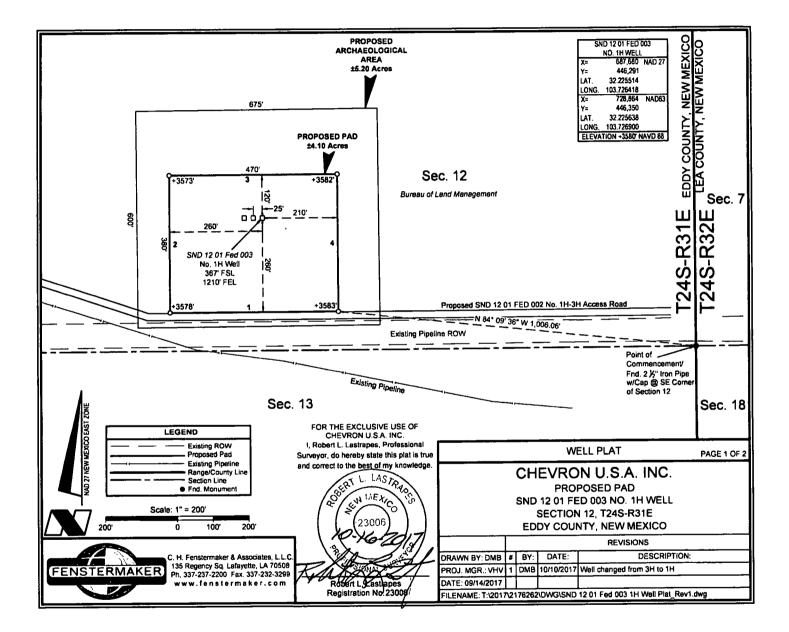
PROPOS	PROPOSED COMPRESSOR STATION						
COURSE	BEARING	DISTANCE					
5	NORTH	500.00'					
6	EAST	500.00					
7	SOUTH	500.00'					
8	WEST	500.00'					

	FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC. I. Robert L. Lastrapes, Professional				SURFA	CE USE PLAT	PAGE 2 OF 2
	Not to be used for construction.			F PRE	ROPOSI SSOR S SECTION	ON U.S.A. INC. ED SAND DUNES TATION & ACCESS RO. N 11, T24S-R31E NTY, NEW MEXICO	AD
	bidding. recordation, conveyance, sales, or engineering design.					REVISIONS	
C. H. Fenstermaker & Associates, L.L.C. 135 Regency Sq. Lafayette, LA 70508		DRAWN BY: DMB	#	BY:	DATE:	DESCRIPTIO	N:
FENSTERMAKER 135 Regency Sq. Lafayette, LA 70508 Ph. 337-237-2200 Fax. 337-232-3299		PROJ. MGR .: VHV	1	BOR	11/01/2017	Pad moved and added access	road.
www.fenstermaker.com	Robert L. Lastrapes	DATE: 09/08/2017	ĽT				
	Registration No. 23006	FILENAME: T:\2013	7\21	76483	DWG\Sand	Dunes Compressor_SUP.dwg	









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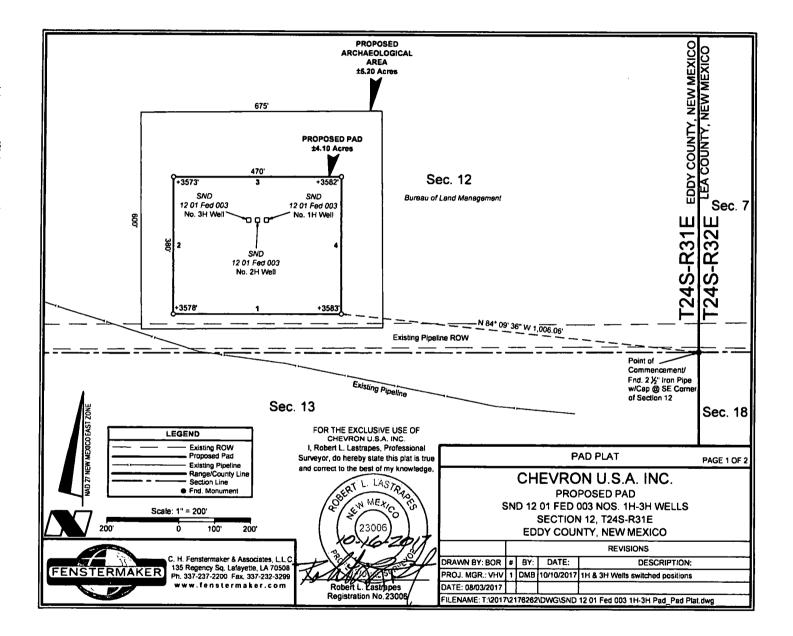
NOTE: Please be advised, that while reasonable efforts are made to locate and Prease of advised, that while reasonable errors are made to locate and verify pipelines and anomalics using our standard pipeline locating equipment, it is impossible to be 100 % effective. As such, we advise using caution when performing work as there is a possibility that pipelines and other hazards, such as fiber optic cables, PVC pipelines, etc. may exist undetected on site.

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NW AF	RCH. AREA CI	ORNER	NE AF	CH. AREA CO	DRNER	SE AF	CH, AREA CO	RNER	SW AF	CH. AREA C	ORNER
X≓ Y=	687,327 446,588	NAD 27	X= Y=	688,002 446,594	NAD 27	X= Y=	688,008 445,994	NAD 27	X≖ Y=	687,333 445,988	NAD 27
LAT. LONG.	32.226336 103.727555		LAT. LONG.	32.226343		LAT. LONG.	32.224693		LAT, LONG,	32.224687 103.727547	
X÷ Y=	728,511 446,647	NAD83		729,185 446,653	NAD83	X= Y=	729,192 446,053	NAD83	X≂ Y=	728,517 446,047	NAD83
LAT. LONG	32.226459 103.728037		LAT. LONG,	32.226466 103.725854		LAT. Long.	32.224816 103.725846		LAT. LONG.	32.224810 103.728030	
ELEVA	TION +3570" N	AVD 88	ELEVA	TION +3582 M	VAVD 68	ELEVA	TION +3584' N	IAVD 88	ELEVA	TION +3579' I	iavd 88
N	W PAD CORN	ER	N	E PAD CORN	ER	s	E PAD CORNI	ER	SI	N PAD CORN	ER
X≃ Y= LAT. LONG.	687,419 446,410 32.225845 103.727259	NAD 27	X= Y = LAT, LONG,	687,889 446,412 32.225844 103.725739	NAD 27	X= Y= LAT, LONG.	687,891 446,032 32.224799 103.725740	NAD 27	X= Y= Lat. Long.	687,421 446,030 32,224800 103.727260	NAD 27
X= Y= LAT. LONG.	728,604 446,469 32,225968 103,727741	NAD83	X= Y= LAT, LONG.	729,074 446,471 32,225967 103,726221	NAD83	X= Y= Lat. Long.	729,075 446,091 32,224923 103,726222	NAD83	X= Y= Lat. Long.	728,605 446,089 32.224924 103.727742	NAD83
						_					

;

[PROPOSED PAD							
	COURSE	BEARING	DISTANCE						
	1	S 89° 44' 05" W	470.00'						
	2	N 00° 15' 55" W	380.00'						
	3	N 89° 44' 05" E	470.00'						
	4	S 00° 15' 55" E	380.00'						
				FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC. I, Robert L. Lastrapes, Professional					PAGE 2 OF 2
				Surveyor, do hereby state this plat is true and correct to the best of my knowledge.					PAGE 2 OF 2
				SERT L. LASTRA		CH		NU.S.A. INC.	
				US EN MEXICO		SND	+	POSED PAD ED 003 NO. 1H WELL	
				(23006)			SECTIO	N 12, T24S-R31E NTY, NEW MEXICO	
								REVISIONS	
a de la compañía de		405 D	stermaker & Associates, L.		DRAWN BY: DMB	# BY:	DATE:	DESCRIPTION:	
FENS	TERM	AKER Ph. 337	ency Sq. Lafayette, LA 705 237-2200 Fax, 337-232-32	" KANKARA	PROJ. MGR.: VHV	1 DMB	10/10/2017	Well changed from 3H to 1H	
		www.	fenstermaker.co		DATE: 09/14/2017				
			<u> </u>	Registration No.23006	FILENAME: T:V201	7\217626	2\DWG\SND	12 01 Fed 003 1H Well Plat_Rev1	.dwg



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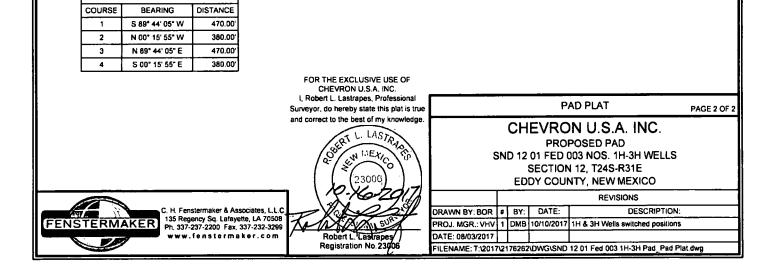
NOTE:

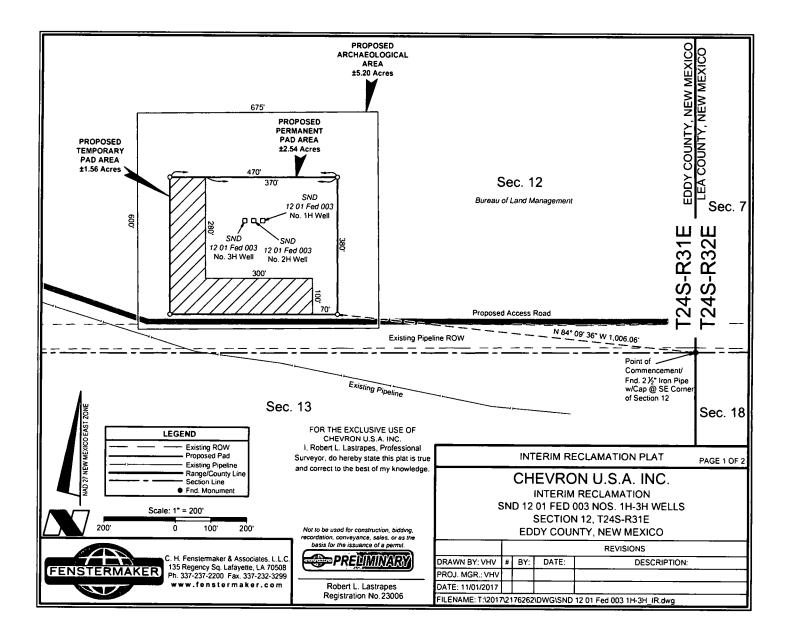
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PROPOSED PAD

NW AR	RCH, AREA CO	ORNER	NE AF	CH. AREA CO	DRNER	SE AR	CH. AREA CO	RNER	SW AF	RCH. AREA CO	ORNER
X= Y= LAT.	446,588 32.226336	NAD 27	Y= LAT.	446,594 32.226343	NAD 27	Y= LAT.	445,994 32.224693	NAD 27	Y= LAT.	687,333 445,988 32.224687 103,727547	NAD 27
LONG. X= Y= LAT. LONG.	103.727555 728,511 446,647 32.226459 103.728037	NAD83	LONG. X= Y= LAT. LONG,	103.725372 729,186 446,653 32.226466 103.725854	NAD83	LONG. X= Y= LAT. LONG.	103.725364 729,192 446,053 32.224816 103.725846	NAD83	LONG. X= Y= LAT. LONG.	728,517 446,047 32.224810 103.728030	NAD83
	TION +3570" N			TION +3582 M			TION +3584' N E PAD CORNI		_	TION +3579" N N PAD CORN	
X=	687,419		V-	607 840	NAD 27	V-	687,891	114 0 07	V-	697 421	NAD 27
Y= LAT. LONG.	446,410 32.225845	NAD 27	Y= Lat.	446,412 32.225844		Y= LAT.	446,032 32,224799	NAU 27	A- Y= LAT. LONG.	446,030 32.224800 103.727260	11.0 21
Y= LAT.	446,410	NAD 27	Y= LAT. LONG.	446,412	NAD83	Y= Lat. Long.	446,032	NAD 27	Y= LAT.	446,030 32.224800	NAD





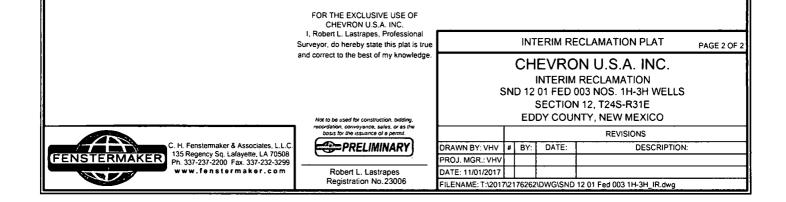
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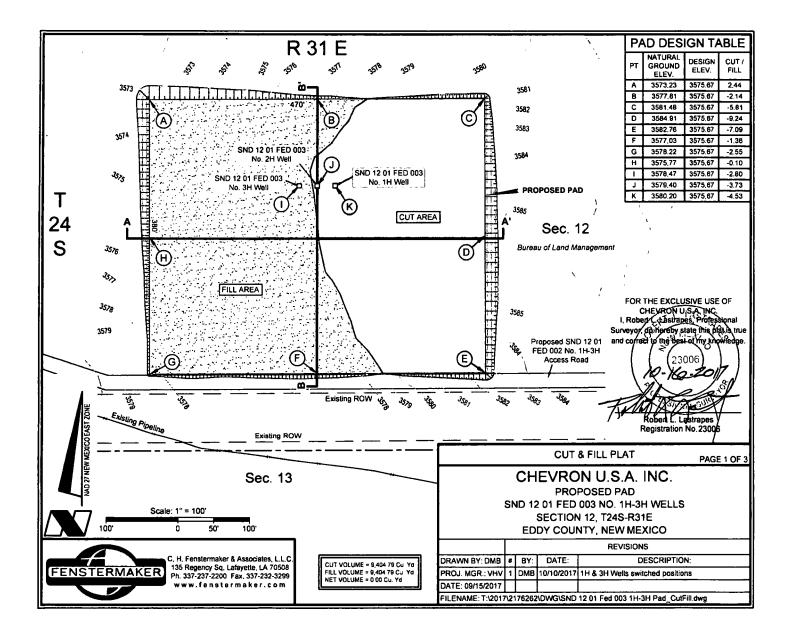
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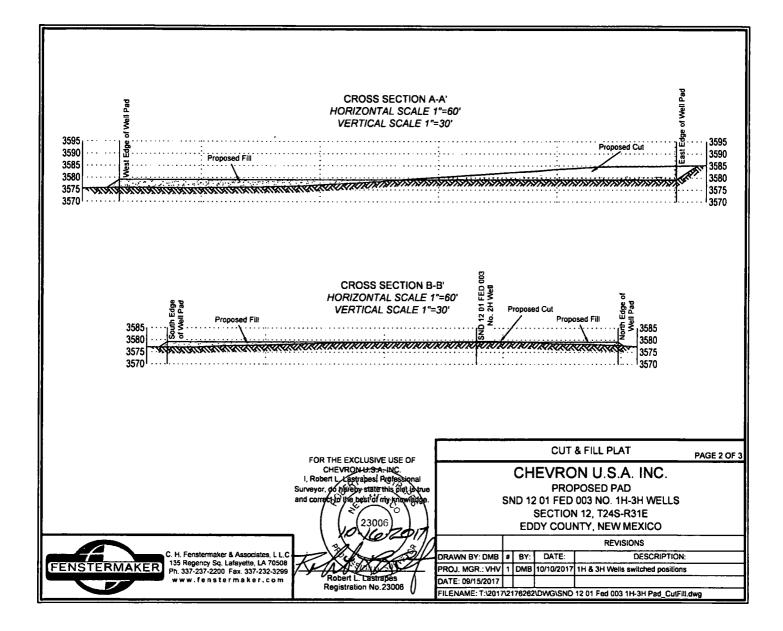
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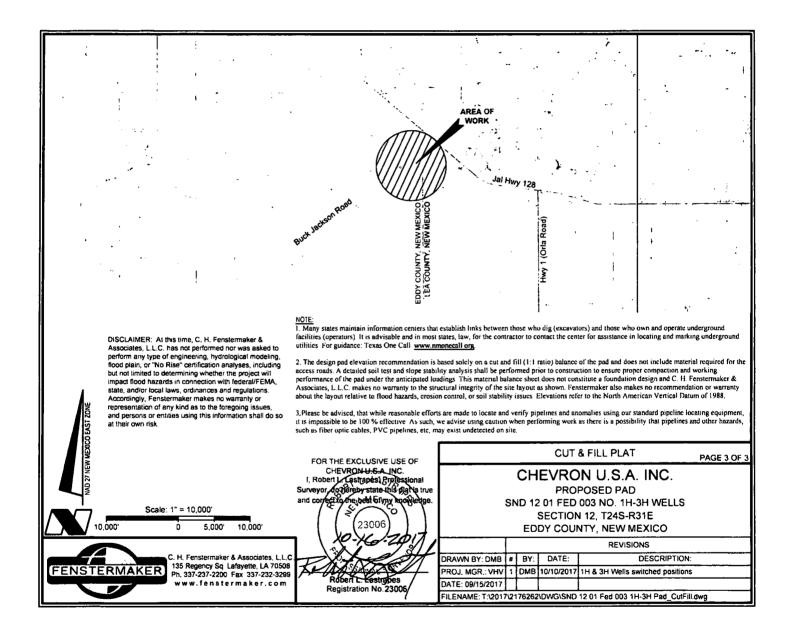
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NW ARCH. AREA CORNER			NE ARCH. AREA CORNER			SE ARCH. AREA CORNER			SWARCH. AREA CORNER		
X=	687,327	NAD 27	Х=	688,002	NAD 27	X=	688,008	NAD 27	X=	687,333	NAD 27
Y≃	446,588		Y=	446,594		Y=	445,994		Y=	445,988	
LAT.	32.226336		LAT.	32.226343		LAT.	32.224693		LAT.	32.224687	
LONG.	103.727555		LONG.	103.725372	i	LONG.	103.725364		LONG.	103.727547	
X=	728,511	NAD83	X=	729,186	NAD83	X=	729,192	NAD83	X=	728,517	NAD83
Y=	446,647		Y=	446,653		Y=	446,053		Y=	446,047	
LAT.	32.226459		LAT.	32.226466		LAT.	32.224816		LAT.	32.224810	
LONG.	103.728037		LONG.	103.725854		LONG.	103.725846		LONG.	103.728030	
ELEVATION +3570' NAVD 88			ELEVA	TION +3582" N	IAVD 88	ELEVA	TION +3584' N	AVD 88	ELEVA	TION +3579" N	AVD 88
NW PAD CORNER			NE PAD CORNER			SE PAD CORNER			SW PAD CORNER		
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X=	687,419	-	X≃		NAD 27			NAD 27		687,421	_
X= Y=		-									_
	687,419	-	X≃	687,889		Χ=	687,891		X=	687,421	_
Y=	687,419 446,410	-	X= Y=	687,889 446,412		X= Y=	687,891 446,032		X= Y=	687,421 446,030	_
Y= LAT.	687,419 446,410 32.225845	-	X= Y= LAT.	687,889 446,412 32.225844		X= Y= LAT.	687,891 446,032 32,224799		X= Y= LAT. LONG.	687,421 446,030 32,224800	_
Y= LAT. LONG.	687,419 446,410 32,225845 103,727259	NAD 27	X= Y= LAT. LONG.	687,889 446,412 32.225844 103.725739	NAD 27	X= Y= LAT. LONG.	687,891 446,032 32,224799 103,725740	NAD 27	X= Y= LAT. LONG.	687,421 446,030 32,224800 103,727260	NAD 27
Y= LAT. LONG. X=	687,419 446,410 32.225845 103.727259 728,604	NAD 27	X= Y= LAT. LONG. X=	687,889 446,412 32.225844 103.725739 729,074	NAD 27	X= Y= LAT. LONG. X=	687,891 446,032 32,224799 103,725740 729,075	NAD 27	X= Y= LAT. LONG. X=	687,421 446,030 32,224800 103.727260 728,605	NAD 27
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CHEVRON U.S.A. Inc SND 12 01 FED 003 1H NMNM 120901 SECTION 12, T24S-R31E SHL 367' FSL & 1210' FEL

SECTION 1, T24S, R31E BHL 100' FNL & 330' FEL

APD Surface Use Plan of Operations

Existing Roads

- The operator will improve or maintain existing roads in a condition the same as or better than before operations begin. The operator will repair pot holes, clear ditches, repair the crown, etc. All existing structures on the entire access route such as cattle guards, other range improvement projects, culverts, etc. will be properly repaired or replaced if they are damaged or have deteriorated beyond practical use. We will prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations, or wind events. BLM written approval will be acquired before application of surfactants, binding agents, or other dust suppression chemicals on roadways.
- Driving Directions From Jal, New Mexico. The location is approximately 33 miles from the nearest town, which is Jal, New Mexico. From Jal, proceed west on Highway 128 approximately 32 miles and turn left (Southwest) onto Buck Jackson Rd. and go approximately .5 miles on Buck Jackson until the road reaches an existing lease road. Travel approximately .2 miles on this lease road and location is on the south side of the road.

New or Reconstructed Access Roads - Survey plat

- There will be 3539' of new road construction for the well pad and facilities.
- Road Width: The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed 14'. The maximum width of surface disturbance shall not exceed 25'.
- Maximum Grade: 3%
- Crown Design: Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2%. The road shall conform to cross section and plans for typical road construction found in the BLM Gold Book.
- Turnouts: 50-60'
- Ditch Design: Ditching will be constructed on both sides of road.
- Cattle guards: Suggested
- Major Cuts and Fills: 2:1 during drilling and completions. Cuts and fills taken back to 3:1 at interim.
- Type of Surfacing Material: Caliche

CHEVRON U.S.A. Inc SND 12 01 FED 003 1H NMNM 120901 SECTION 12, T24S-R31E SHL 367' FSL & 1210' FEL BHL 100' FNL & 330' FEL

Location of Existing Wells

• 1-Mile radius map is attached

Location of Existing and/or Proposed Production Facilities

- Facilities: New production facilities are to be constructed located in the SW quarter of Sec. 12, T24S-R31E where oil and gas sales will take place.
 - Proposed Facility Pad is 500' x 700'
 - The facility is proposed in SW4 of Sec. 12, T24S-R31E
 - Gas purchaser pipeline will be brought to the tank battery.
 - Open top tanks or open containments will be netted.
 - Open vent exhaust stacks will be modified to prevent birds or bats from entering, discourage perching, roosting, and nesting.
 - Facilities will have a secondary containment 1.5 times the holding capacity of largest storage tank.
 - All above ground structures will be painted non-reflective shale green for blending with surrounding environment.
 - The tank battery will be connected to the existing water gathering system in the field for permanent water disposal. The system design will be determined and approved prior to construction of any water transfer pipeline. Until permanent water takeaway is available, produced water will be hauled off location in trucks.
- Pipelines:
 - One 4" buried pipeline gas lift line, approximately 3032', will be laid from well running north to CTB pad in Section 12.
 - Six buried flowlines, approximately 3032', will be laid from well running north to CTB pad in Section 12.
 - No ROW will be required from the BLM (On-lease).
 - Pipeline will follow existing disturbances.
 - All construction activity will be confined to the approved BLM Standards.

Location and Types of Water Supply

- New pond in SW/4 of Section 11, T24S-R31E will be utilized for fresh water.
- Pond measures 900' x 900'.
- Fresh water will be obtained from a private water source.
- A temporary 12" expanding pipe transfer line will run from frac pond to well location in section 12.
 - Fresh water line will run parallel to road and will stay within 10' of access road.

CHEVRON U.S.A. Inc SND 12 01 FED 003 1H NMNM 120901 SECTION 12, T24S-R31E SECTION 1, T24S, R31E SHL 367' FSL & 1210' FEL BHL 100' FNL & 330' FEL O A BLM ROW will not be required for the water transfer line.

Construction Material

- Caliche will be used to construct well pad and roads. Material will be purchased from the nearest federal, state, or private permitted pit.
 - Primary: Use caliche on existing location.
 - Secondary: To be determined
- The proposed source of construction material will be located and purchased by construction contractor.
 - Payment shall be made by contractor prior to any removal of federal minerals material by contacting agent at (575) 234-5972.
 - Notification shall be given to BLM at (575) 234-5909 at least 3 working days prior to commencing construction of access road and/or well pad.

Methods for Handling Waste

- Drilling fluids and produced oil and water from the well during drilling and completion operations will be stored safely and disposed of properly in an NMOCD approved disposal facility.
- Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly at a state approved disposal facility. All trash on and around the well site will be collected for disposal.
- Human waste and grey water will be properly contained and disposed of properly at a state approved disposal facility.
- After drilling and completion operations, trash, chemicals, salts, frac sand and other waste material will be removed and disposed of properly at a state approved disposal facility.
- The well will be drilled utilizing a closed loop system. Drill cutting will be properly disposed of into steel tanks and taken to an NMOCD approved disposal facility.

Ancillary Facilities

- Ancillary Facilities are included in the SUP for SND 12 01 004 1-4H Drill Pad and include:
 - o SWD Facility
 - o Fresh Water Pond
 - o Recycle-on-the-fly Facility
 - o Compressor Station
 - o Staging Area

SECTION 1, T24S, R31E BHL 100' FNL & 330' FEL

Well Site Lavout

- Surveyor Plat
 - Exterior well pad dimensions are 380' x 470'.
 - o Interior well pad dimensions from point of entry (well head) of the easternmost well are N-120', S-260', E-210', W-260'.
 - Topsoil placement is on the North where interim reclamation is planned to be completed upon completion of well and evaluation of best management practices.
 - Cut and fill: will be minimal. Diagram attached.
- Rig Layout (attached)

Plans for Surface Reclamation

Reclamation Objectives

- The objective of interim reclamation is to restore vegetative cover and a portion of the landform sufficient to maintain healthy, biologically active topsoil; control erosion; and minimize habitat and forage loss, visual impact, and weed infestation, during the life of the well or facilities.
- The long-term objective of final reclamation is to return the land to a condition similar to what existed prior to disturbance. This includes restoration of the landform and natural vegetative community, hydrologic systems, visual resources, and wildlife habitats. To ensure that the long-term objective will be reached through human and natural processes, actions will be taken to ensure standards are met for site stability, visual quality, hydrological functioning, and vegetative productivity.
- The BLM will be notified at least 3 days prior to commencement of any reclamation procedures.
- If circumstances allow, interim reclamation and/or final reclamation actions will be • completed no later than 6 months from when the final well on the location has been completed or plugged. We will gain written permission from the BLM if more time is needed.
- Reclamation will be performed by using the following procedures:

Interim Reclamation Procedures

- Within 6 months, Chevron will contact BLM Surface Management Specialists to devise the best strategies to reduce the size of the location. Current plans for interim reclamation include reducing the pad size to approximately 3.16 (permanent pad) acres from the proposed size of 4.94 acres (temporary pad). Within 30 days of well completion, the well location and surrounding areas will be cleared of, and maintained free of, all materials, trash, and equipment not required for production. A plan will be submitted showing where interim reclamation will be completed in order to allow for safe operations, protection of the environment outside of drilled well, and following best management practices found in the BLM "Gold Book".
- In areas planned for interim reclamation, all the surfacing material will be removed

CHEVRON U.S.A. Inc SND 12 01 FED 003 1H NMNM 120901 SECTION 12, T24S-R31E SHL 367' FSL & 1210' FEL

SECTION 1, T24S, R31E

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and returned to the original mineral pit or recycled to repair or build roads and well pads.

- The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.
- Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts & fills. To seed the area, the proper BLM seed mixture (BLM #2), free of noxious weeds, will be used.
- Proper erosion control methods will be used on the area to control erosion, runoff and siltation of the surrounding area.
- The interim reclamation will be monitored periodically to ensure that vegetation has reestablished

Final Reclamation (well pad, buried pipelines, and power lines, etc.)

- Prior to final reclamation procedures, the well pad, road, and surrounding area will be cleared of material, trash, and equipment.
- All surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.
- All disturbed areas, including roads, pipelines, pads, production facilities, and interim reclaimed areas will be recontoured to the contour existing prior to initial construction or a contour that blends in distinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.
- After all the disturbed areas have been properly prepared; the areas will be seeded with the proper BLM seed mixture (BLM #2), free of noxious weeds.
- Proper erosion control methods will be used on the entire area to control erosion, runoff and siltation of the surrounding area.
- Plat attached.

Surface Ownership

- BLM Surface
 - Surface Tenant Richardson Cattle Company
- Nearest Post Office: Jal Post Office; 50 Miles East

CHEVRON U.S.A. Inc SND 12 01 FED 003 1H NMNM 120901 SECTION 12, T24S-R31E SHL 367' FSL & 1210' FEL

SECTION 1, T24S, R31E BHL 100' FNL & 330' FEL

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Other Information

- On-site performed by BLM NRS: Paul Murphy 10/13/2017
- Cultural report attached: Yes
 Participating Agreement attached: N/A

Chevron Representatives

Primary point of contact: Kevin Dickerson <u>Kevin.Dickerson@chevron.com</u> C- 432-250-4489



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



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: 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:

Injection well name: Injection well API number:

PWD disturbance (acres):

PWD disturbance (acres):



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

Bond Information

Federal/Indian APD: FED

BLM Bond number: CA0329

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

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Bond Info Data Report

11/02/2018