RECEIVED

Form 3160-3 (June 2015)		JAN 0 9 2		OMB N Expires: Ja	APPROVED o. 1004-0137 anuary 31, 2018	
UNITED STATES DEPARTMENT OF THE IN		STRICT II-ARTES	SIA O.C.I	5. Lease Serial No.	· · · · · · · · · · · · · · · · · · ·	
BUREAU OF LAND MANA	AGEMEN	NT		NMNM104684		
APPLICATION FOR PERMIT TO D	RILL OF	REENTER		6. If Indian, Allotee	or Tribe Name	
Ia. Type of work: I DRILL	EENTER			7. If Unit or CA Ag	reement, Name and No.	
lb. Type of Well: Oil Well 🖌 Gas Well Oi	ther			8. Lease Name and	Well No.	
Ic. Type of Completion: Hydraulic Fracturing 🖌 Si	ngle Zone	Multiple Zone		SND 12 01 FED 0	01	
				^{2H} 32	3/29	
2. Name of Operator CHEVRON USA INCORPORATED		4323		9. API Well No. 30-0/5	5-45597	
3a. Address 6301 Deauville Blvd. Midland TX 79706	3b. Phone (432)687	No. (include area cod -7866	'e)	10. Field and Pool, PURPLE SAGE /	or Exploratory WOLFCAMP (GAS)	
4. Location of Well (Report location clearly and in accordance w	•	• •			r Blk. and Survey or Area	
At surface SESW / 367 FSL / 1445 FWL / LAT 32.2256				SEC 12 / T24S / R	STE / NMP	
At proposed prod. zone NWNW / 100 FNL / 1254 FWL / 1			35997	 	L 12 Ctore	
14. Distance in miles and direction from nearest town or post offi 32 miles	ce*	_		12. County or Paris EDDY	h 13. State NM	
15. Distance from proposed* location to nearest property or lease line, ft.	16. No of 160			ing Unit dedicated to this well		
(Also to nearest drig. unit line, if any) 18. Distance from proposed location*	10 Propo	roposed Depth 20. BLM/		BIA Bond No. in file		
to nearest well, drilling, completed, 700 feet applied for, on this lease, ft.		et / 21592 feet	FED: CA			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3558 feet	22. Appro 04/01/20	oximate date work will 18	start*	23. Estimated duration 130 days		
	24. Au	achments				
The following, completed in accordance with the requirements of (as applicable)	f Onshore C	Dil and Gas Order No.	l, and the H	lydraulic Fracturing r	rule per 43 CFR 3162.3-3	
 Well plat certified by a registered surveyor. A Drilling Plan. 		4. Bond to cover the Item 20 above).	ne operatior	is unless covered by a	n existing bond on file (see	
3. A Surface Use Plan (if the location is on National Forest Syster SUPO must be filed with the appropriate Forest Service Office				mation and/or plans as	s may be requested by the	
25. Signature (Electronic Submission)		ne (Printed/Typed) ra Becerra / Ph: (432	2)687-766	5	Date 11/29/2017	
Title Permitting Specialist	I .				· · ·	
Approved by (Signature) (Electronic Submission)		ne <i>(Printed/Typed)</i> Allen / Ph: (575)234-	5978		Date 12/21/2018	
Title Wildlife Biologist	Off CAF	ice RLSBAD		· ·	· ·	
Application approval does not warrant or certify that the applican applicant to conduct operations thereon. Conditions of approval, if any, are attached.	it holds lega	al or equitable title to the ti	hose rights	in the subject lease w	hich would entitle the	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m of the United States any false, fictitious or fraudulent statements of	nake it a cri	me for any person kno tations as to any matter	wingly and within its	willfully to make to a	any department or agency	
				· · · · · ·		
			10.910			
	mn W	TTU CONDIT	IOND	:		

(Continued on page 2)

APPBI Approval Date: 12/21/2018

*(Instructions on page 2) KWP / - /0 - /9

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: SESW / 367 FSL / 1445 FWL / TWSP: 24S / RANGE: 31E / SECTION: 12 / LAT: 32.225645 / LONG: -103.735393 (TVD: 0 feet, MD: 0 feet)
 PPP: NWNW / 5282 FSL / 1254 FWL / TWSP: 24S / RANGE: 31E / SECTION: 12 / LAT: 32.239157 / LONG: -103.736004 (TVD: 0 feet, MD: 0 feet)
 PPP: SWSW / 330 FSL / 1254 FWL / TWSP: 24S / RANGE: 31E / SECTION: 12 / LAT: 32.225544 / LONG: -103.73601 (TVD: 11882 feet, MD: 21592 feet)
 BHL: NWNW / 100 FNL / 1254 FWL / TWSP: 24S / RANGE: 31E / SECTION: 1 / LAT: 32.253394 / LONG: -103.735997 (TVD: 11882 feet, MD: 21592 feet)

BLM Point of Contact

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

Approval Date: 12/21/2018

(Form 3160-3, page 3)

Review and Appeal Rights

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

Approval Date: 12/21/2018

(Form 3160-3, page 4)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Chevron U.S.A. Inc.
LEASE NO.:	NMNM-104684
WELL NAME & NO.:	SND 12 01 Fed 001 2H
SURFACE HOLE FOOTAGE:	0367' FSL & 1445' FWL
BOTTOM HOLE FOOTAGE	0100' FNL & 1254' FWL Sec. 01, T. 24 S., R 31 E.
LOCATION:	Section 12, T. 24 S., R 31 E., NMPM
COUNTY:	County, New Mexico

Operator to submit sundry to add "COM" to the well name.

Communitization Agreement

The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.

In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be</u><u>on the sign.</u>

A. DRILLING OPERATIONS REQUIREMENTS

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

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

Eddy County

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

1. 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

Page 1 of 7

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.

2. 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. If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a "Major" violation.

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 wells.

4. 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 is located, this does not include the dog house or stairway area.

5. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

3.

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.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Potash Areas:

Page 2 of 7

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24 hours</u>. WOC time will be recorded in the driller's log.

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.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Secretary's Potash

Possibility of water and brine flows in the Salado and Castile. Possibility of lost circulation in the Rustler, Red Beds, and Delaware. Abnormal pressure may be encountered in the 3rd BS and all subsequent formations.

 The 13-3/8 inch surface casing shall be set at approximately 836 feet (in a competent bed <u>below the Magenta Dolomite</u>, which is a <u>Member of the Rustler</u>, and if salt is encountered, set casing at least 25 feet above the salt) and cemented to the surface. Excess calculates to 10% - Additional cement may be required.

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 is to include the lead cement slurry.

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.

Formation below the 13-3/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

9-5/8" Intermediate casing shall be kept fluid filled while running into hole to meet

Page 3 of 7

BLM minimum collapse requirements.

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

Operator has proposed DV tool at depth of 4600', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

a. First stage to DV tool:_

Cement to circulate. If cement does not circulate, contact the appropriate

BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage. Excess calculates to 11% - Additional cement may be required.

b. Second stage above DV tool:

ALTERNATIVE DESIGN

Cement to surface. If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash. Excess calculates to 9% - Additional cement may be required.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

Centralizers required through the curve and a minimum of one every other joint.

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. Excess calculates to 15% - Additional cement may be required.

Page 4 of 7

4. The minimum required fill of cement behind the 7-5/8 inch production liner is:

Cement as proposed. Operator shall provide method of verification. Wait on

cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash. Excess calculates to 12% - Additional cement may be required.

Formation below the 7-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

- 5. The minimum required fill of cement behind the 5-1/2 X 5 inch production casing is:
 - Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.
- 6. 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.

C. **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 53.
- 2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of

the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be psi.

- 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. Operator shall perform the 9-5/8" and 7-5/8" casing integrity tests to 70% of the casing burst. This will test the multi-bowl seals.
- e. 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.

5M 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. The appropriate BLM office shall be notified a minimum of hours in advance for a representative to witness the tests.
 - a. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time.
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - 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 if test is done with a test

Page 6 of 7

plug and 30 minutes without a test plug. 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.

D. 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.

E. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

F. 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.

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PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

•.	OPERATOR'S NAME:	CHEVRON USA INC.		
	LEASE NO.:	NMNM104684		
	WELL NAME & NO.:	SND 12 01 FED 001 – 2H		
	SURFACE HOLE FOOTAGE:	367'/S & 1445'/W		
	BOTTOM HOLE FOOTAGE	100'/N & 1254'/W		
	LOCATION:	SECTION 12, T24S, R31E, NMPM		
	COUNTY:	EDDY	ر	

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.

	Gen	eral	Pro	vision	S
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Permit Expiration

Archaeology, Paleontology, and Historical Sites

Noxious Weeds

Special Requirements

Lesser Prairie-Chicken Timing Stipulations Hydrology

Tyurology

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

Page 1 of 21

I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

IV. NOXIOUS WEEDS

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

V. SPECIAL REQUIREMENT(S)

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.

Hydrology

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 ¹/₂ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

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.

Page 4 of 21

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)

Page 5 of 21

Exclosure Fencing

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

G. ON LEASE ACCESS ROADS

Road Width

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

Surfacing

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

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

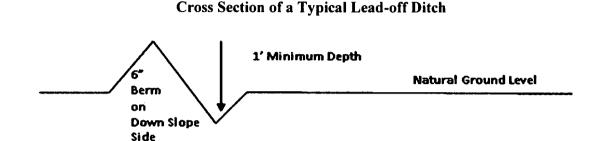
Turnouts

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

Drainage

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

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



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: $\underline{400'} + 100' = 200'$ 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.

Page 7 of 21

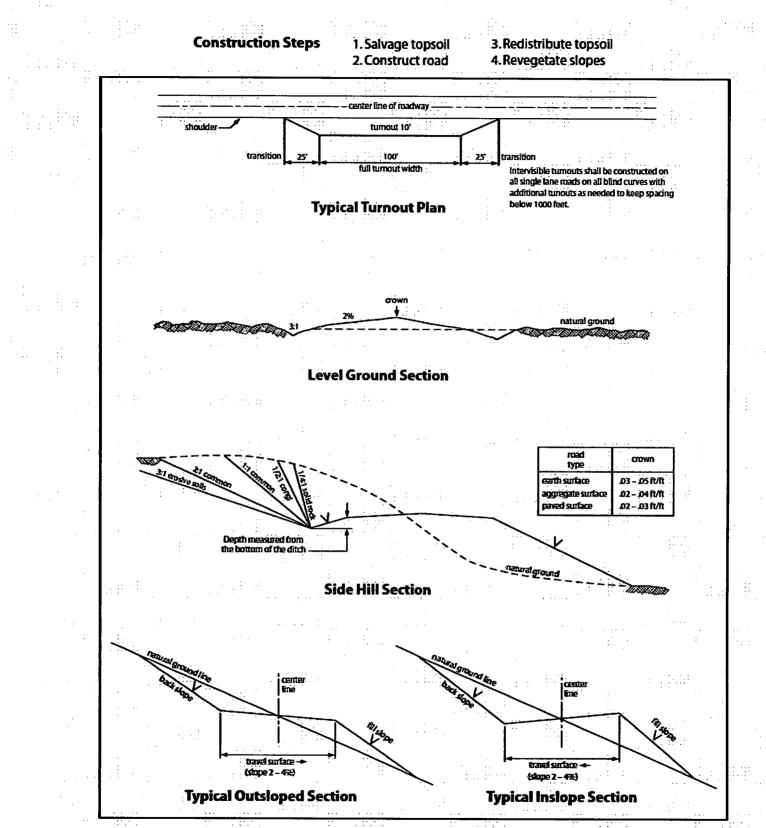


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or PS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

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

Exclosure Netting (Open-top Tanks)

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

Chemical and Fuel Secondary Containment and Exclosure Screening

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

Open-Vent Exhaust Stack Exclosures

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

Containment Structures

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

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, <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.

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.

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

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

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

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

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

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

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

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

for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

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

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

- 18. Special Stipulations:
 - a. Lesser Prairie-Chicken: Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities 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 <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

Page 13 of 21

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.)

Page 14 of 21

- 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 2
(X) seed mixture 2/LPC

() seed mixture 3

() seed mixture 4

() Aplomado Falcon Mixture

Page 15 of 21

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

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

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

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

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

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

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

19. Special Stipulations:

Lesser Prairie-Chicken

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

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

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

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

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the

Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

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

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

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

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

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

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

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

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

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

11. Special Stipulations:

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

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

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

VIII. INTERIM RECLAMATION

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

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce

Page 19 of 21

the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

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

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

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

IX. FINAL ABANDONMENT & RECLAMATION

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

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

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

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

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.

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.

lb/acre

5lbs/A

5lbs/A

3lbs/A

6lbs/A

2lbs/A

1lbs/A

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

Species

Plains Bristlegrass Sand Bluestem Little Bluestem Big Bluestem Plains Coreopsis Sand Dropseed

*Pounds of pure live seed:

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

1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

FORMATION	SUB-SEA TVD	KBTVD	MD
Rustler		766	· ·
Castile		2,990	
Lamar		4,575	
Bell Canyon		4,626	
Cherry Canyon		5,480	
Brushy Canyon		6,760	
Avalon	· · · · ·	8,443	
First Bone Spring		9,380	
Second Bone Spring		10,032	
Third Bone Spring		11,330	
Wolfcamp A		11,769	
Lateral TD (Wolfcamp A)	· · ·	11,882	21,592
Wolfcamp B		12,545	

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 E:	pected Base of Fresh Water	400
Water	Castile	2,990
Water	Cherry Canyon	5,480
Oil/Gas	Brushy Canyon	6,760
Oil/Gas	Avalon	8,443
Oil/Gas	First Bone Spring	9,380
Oil/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 easing. The Wolfcamp is not exposed until drill out of the intermediate easing, and the stack will be tested as specified in the attached testing requirements.Batch drilling of the surface, intermediate, and production will take place. A full BOP test will be performed unless approval from ELM is received otherwise. Thex choke hese will be used for all wells on the pad (see attached spees). BOP test will be conducted by a third pariy.

Chevron requests a variance to use a LMC Technologies UEES Multibowl wellhead, which will be run through the rig froor on surface easing. EOET will be nippled up and tested after comenting surface easing. Subsequent tests will be performed as needed, not to exceed 30 days. The field report from LMC Technologies and EOE 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 EEM office and remains unchanged from previous submittal.

.: .

4. CASING PROGRAM

a. The proposed casing program will be as follows:

Production

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'	11,010'	12-1/4"	9-5/8"	43.68	1-8016	LTC	New
Production	0'	21,592'	8-1/2"	5-1/2"	20.0 #	P-110 ICY	TXP BTC	New

An alternative casing design with a contingency string is as follows:

1.11

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 Csg	0'	11,010'	12-1/4"	9-5/8"	43,5#	1 - 80fC	LTC	New
Intermediate Liner	10,710'	11,900'	8-1/2"	7-5/8"	29.7 #	P-110	Wedge 513	New
Production	0'	11,750	6-3/4"	5-1/2"	20.0 #	P-110 ICY	TXP BTC	New
Production	11,750'	21,592'	0-3/4	5"	18.0 #	P-110 IC	Wedge 521	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.

SI Calculations based Surface Casing: Informediate Casing: Informediate Liner Ca Production Casing:	600 11010 sing: 11900			
Casing String	Min SF Burst	Min St Collapse	Min St. Tension	Min SP TTE Axia
Surface	1.40	2:14	3,55	1.74
Internediate	1.66	2.18	1.98	1.20
Production	1.11	1.22	2.11	1.31
For allomate casing de	sign with contingency	<u>;</u>		
Casing String	Min SI Truse	Min SE Collapse	Min St. Lonsion	Min Statri Axief
Suriace.	1.40	2.14	3,55	1.74
Informediate Csg	1.44	2,18	1.98	1,20
Interneciate Liner	1.58	2.79	2:18	1.80

1.68

1.35

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

1.64

Burst Design	Surf	Int	Prod
Pressure Test- Surface, Int, Prod Csg	x	X	X
P external: Mud weight above TOC, PP below			
P internal: Test psi + next section heaviest mud in csg			
Displace to Gas- Surf Csg	X		
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 PI	-] ·		
Stimulation (Frac) Pressures- Prod Csg			X
P external: Mud weight above TOC, PP below			
P internal: Max inj pressure w/ heaviest injected fluid			
Tubing leak- Prod Csg (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
P external: Mud weight gradient			
P internal: none			
Cementing- Surf, Int, Prod Csg	X	X	X
P external: Wet cement			1 ·
P internal: displacement fluid - water			
Tension Design			
100k lb overpull	x	X	X

ONSHORE ORDER NO. 1 Chevron SND 12 01Fed 001 2H Eddy County, NM

CONFIDENTIAL -- TIGHT HOLE DRILLING PLAN PAGE: 3

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	519	6.40	124
Intermediate Csg - Stag	<u>e 1</u>			<u></u>	••••••			-	
Lead	Class C	4,600'	10,010'	11.9	2.56	10	624	14,66	332
Tail	Class C	10,010	11,010'	14.8	1.33	10	287	6.38	68
Intermediate Csg - Stag	e 2 (DV tool @ 4,60	0')			··				
Lead	Class C	0'	4,100'	11.9	2.56	10	564	14,66	256
Tail	Class C	4,100'	4,600'	14.8	7.3 3	10	129	6,38	31
Production									
Lead	Class C	10,000'	20,592	14.5	1.38	10	1933	6,855	476
Tail	Class C	20,592	21,592'	: 15	2.18	10	121	9.56	47

Cementing Program for alternate casing design with contingency string:

*No change to surface and intermediate cement design with implementation of contingency liner

Slurry	Туре	Тор	Bottom	Weight	Yield	%Excess	Sacks	Water	Volume
				(ppg)	(cu ft/sk)	Open Hole		gal/sk	bbls
Intermediate Liner									
Tail	Class C	10,710	11,900'	14.5	1.4	35	88	6.77	22
Production					· · · · · · · · · · · · · · · · · · ·			•	- <u></u>
Lead	Class C	10,000'	20,592'	14.5	1.4	35	1390	6.77	347
Tail	Class C	20,592	21,592'	15	2.19	35	73	9.54	29

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. No centrilizers will be run on the 5.5" csg inside the liner.

4. Intermediate casing cement job will be a 2 stage job with DV tool set at the base of Lamar.

7 353 losi

6. MUD PROGRAM

From	То	Туре	Weight	Viscosity	Filtrate
0'	_800'	Spud Mud	8.3 - 8.9	28-30	N/C
800'	11,010'	OBM	8.7 9.6	10-20	10-12
11,010'	21,592'	OBM	8.8-11.9	10-15	15-25

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 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	Drillout of surficeg shoc
LWD	MWD Gamma	Int. and Prod. Hole	While Drilling

c. 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





SND 12 01 Fed 001 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.

Page 1 of 4

SND 12 01 Fed 001 1H, 2H, 3H

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

- 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.

SND 12 01 Fed 001 1H, 2H, 3H

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	<u>Telephone Number</u>
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

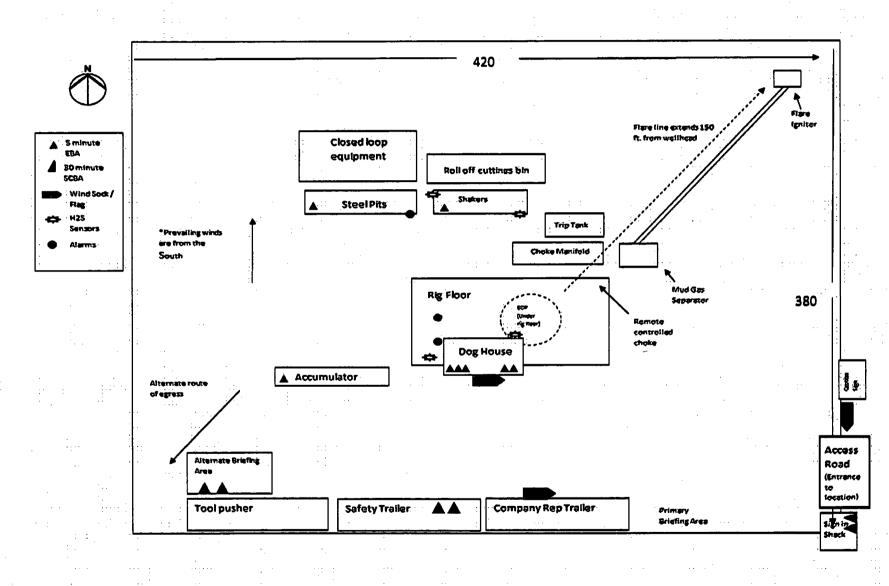
Page 3 of 4

SND 12 01 Fed 001 1H, 2H, 3H

Chevron

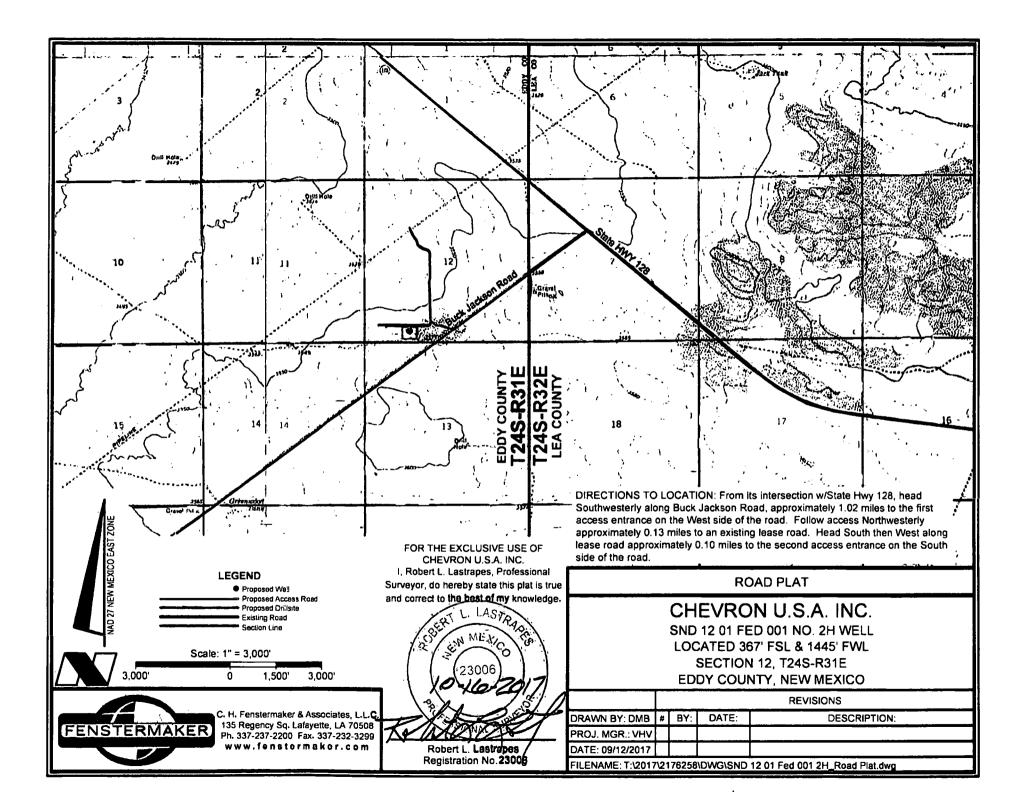
H₂S Preparedness and Contingency Plan Summary

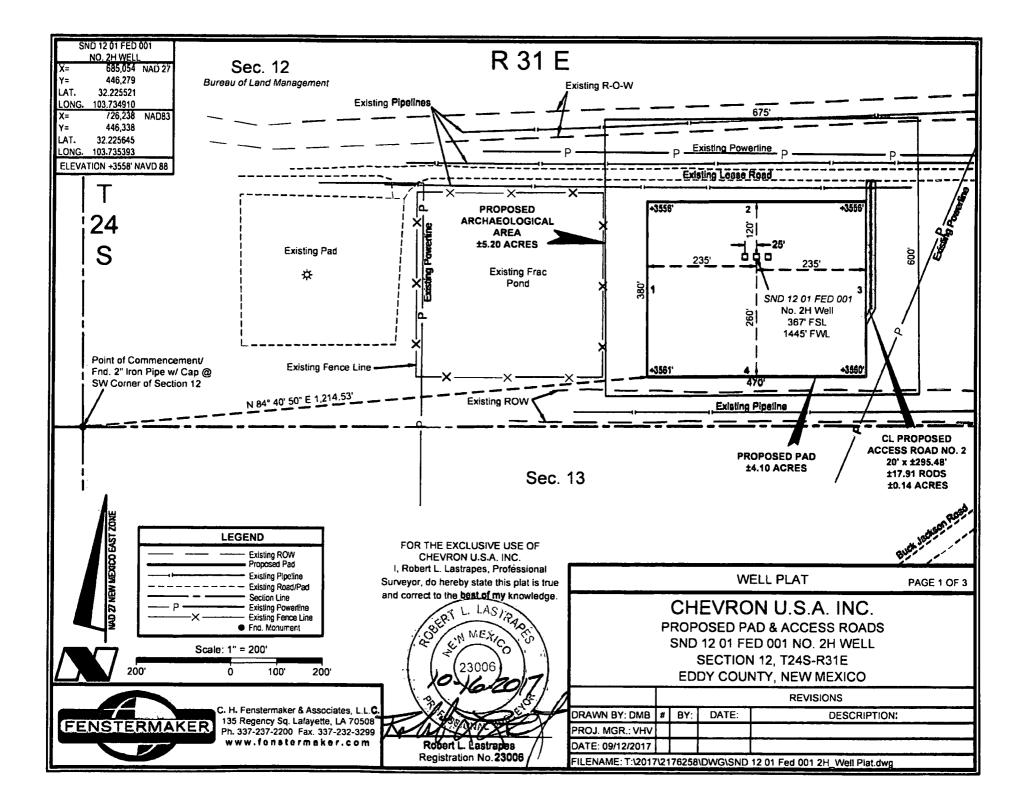


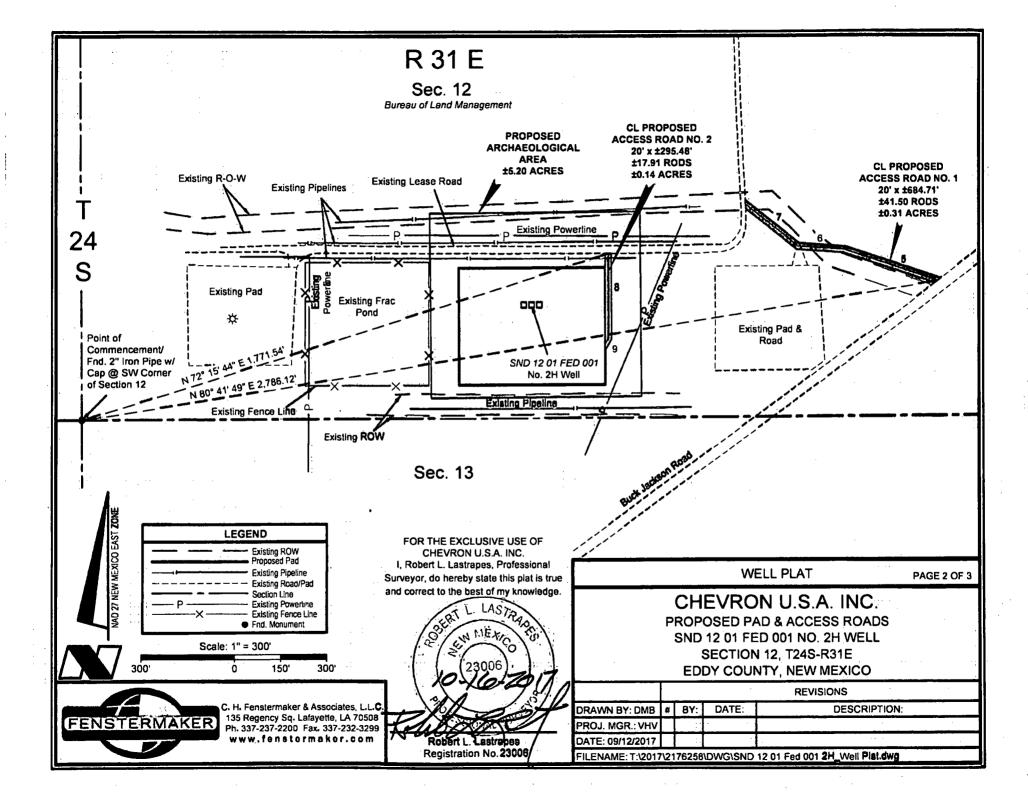


SND 12 01 Fed 001 1H, 2H, 3H

Page 4 of 4







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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>

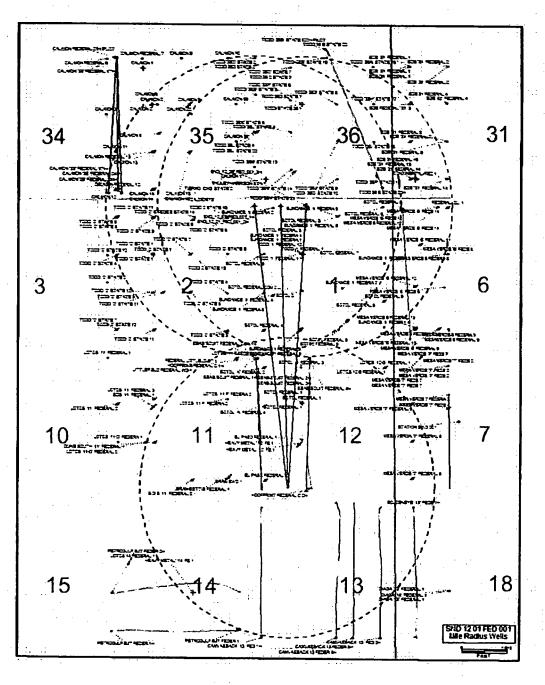
NW AF	RCH. AREA C	ORNER	NE AF	RCH. AREA CO	ORNER	N	W PAD CORN	ER	N	E PAD CORN	ER
X=	684,726	NAD 27	X=	685,401	NAD 27	X=	684,818	NAD 27	X=	685,288	NAD 27
Y=	446,576		Y=	446,582		Y=	446,398		Y=	446,400	
LAT.	32.226343		LAT.	32.226350		LAT.	32.225852		LAT.	32.225851	
LONG.	103.735966		LONG.	103.733783		LONG.	103.735670		LONG	103,734150	
X=	725,910	NAD83	X=	726,585	NAD83	X=	726,003	NAD83	X=	726,473	NAD83
Y=	446,635		Y=	446,641		Y=	446,457		Y=	446,459	
LAT.	32.226466		LAT.	32.226473		LAT.	32.225975		LAT.	32.225974	
LONG.	103.736448		LONG.	103.734266		LONG.	103.736152		LONG.	103,734632	
ELEVA	TION +3553' N	IAVD 88	ELEVA	TION +3556' N	AVD 88	ELEVA	TION +3556' N	AVD 88	ELEVA'	TION +3556' N	IAVD 88
SW AF	RCH. AREA CO	ORNER	SE AR	CH. AREA CO	DRNER	S	W PAD CORN	ER	S	E PAD CORN	ER
X=	684,732	NAD 27	X=	685,407	NAD 27	X=	684,820	NAD 27	X=	685,290	NAD 27
Y=	445,976		Y=	445,982		Y=	446,018		Y=	446,020	
LAT.	32.224694		LAT.	32.224700		LAT.	32.224807		LAT.	32,224806	
			LONG.	103.733775		LONG.	103.735671		LONG.	103.734151	
	103.735958			1000100710							
LONG. X=	103.735958 725,916	NAD83		726,591	NAD83	X=	726,004	NAD83	X=	726,474	NAD83
LONG.		NAD83			NAD83	X= Y=	726,004 446,077	NAD83	X= Y=	726,474 446,079	NAD83
LONG. X=	725,916	NAD83	X=	726,591	NAD83			NAD83			NAD83
LONG. X= Y=	725,916 446,035	NAD83	X= Y=	726,591 446,041	NAD83	Y =	446,077	NAD83	Y=	446,079	NAD83

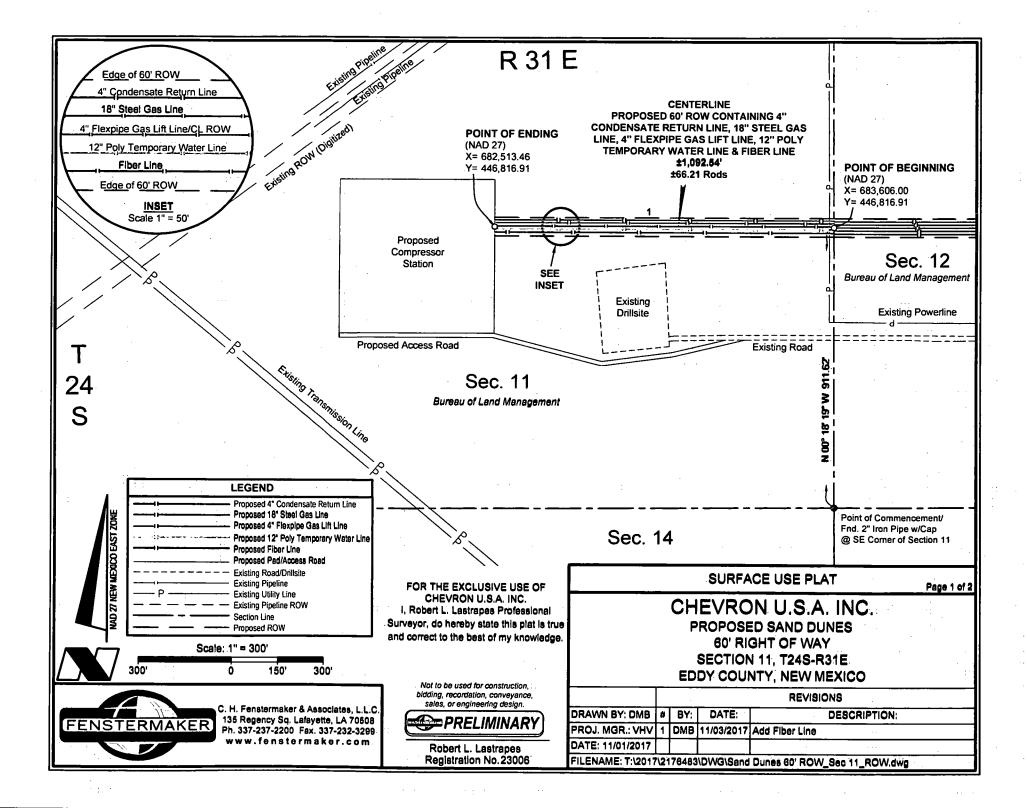
PROPOSED PAD					
COURSE	DISTANCE				
1	N 00° 15' 55" W	380.00'			
2	N 89° 44' 05" E	470.00'			
3	S 00" 15' 55" E	380.00'			
4	S 89° 44' 05" W	470.00'			

CL PROPOSED ACCESS ROAD NO. 1						
COURSE BEARING DISTANCE						
5	N 71° 28' 19" W	319.86'				
6	N 86° 13' 07" W	148.30'				
7	N 50° 59' 13" W	216.55'				

CL PROPOSED ACCESS ROAD NO. 2						
COURSE BEARING DISTANCE						
8	S 00° 15' 55" E	274.96'				
9	S 28° 53' 39" W	20.52'				

· ·	FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC.						
	I, Robert L. Lastrapes, Professional Surveyor, do hereby state this plat is true				W	ELL PLAT	PAGE 3 OF 3
	and correct to the best of my knowledge.		PR(SI	DP ND	OSED PA 12 01 FE SECTION	NU.S.A. INC. AD & ACCESS ROADS ED 001 NO. 2H WELL N 12, T24S-R31E	
	1 Reterzen		, 			NTY, NEW MEXICO	
C. H. Fenstermaker & Associates, L.L.C. 135 Regency Sq. Lafayette, LA 70508		DRAWN BY: DMB	# E	IY:	DATE:	DESCRIPTION:	
FENSTERIVIANER Ph. 337-237-2200 Fax. 337-232-3299		PROJ. MGR.: VHV			•		
www.fenstormakor.com	Robert C. Lastrapes	DATE: 09/12/2017					
	Registration No.23008	FILENAME: T:V201	7\2176	258	DWG\SND	12 01 Fed 001 2H_Well Plat.dwg	





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METES AND BOUNDS DESCRIPTION OF A PROPOSED 60' ROW SECTION 11, T24S-R31E EDDY COUNTY, NEW MEXICO

PROPOSED 60' ROW

Survey of the centerline of a Proposed 60 foot wide ROW easement with 30 feet on each side of centerline, 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^o Iron 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 seconds West 911.62 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 Plane Coordinate System, East Zone, NAD 27).

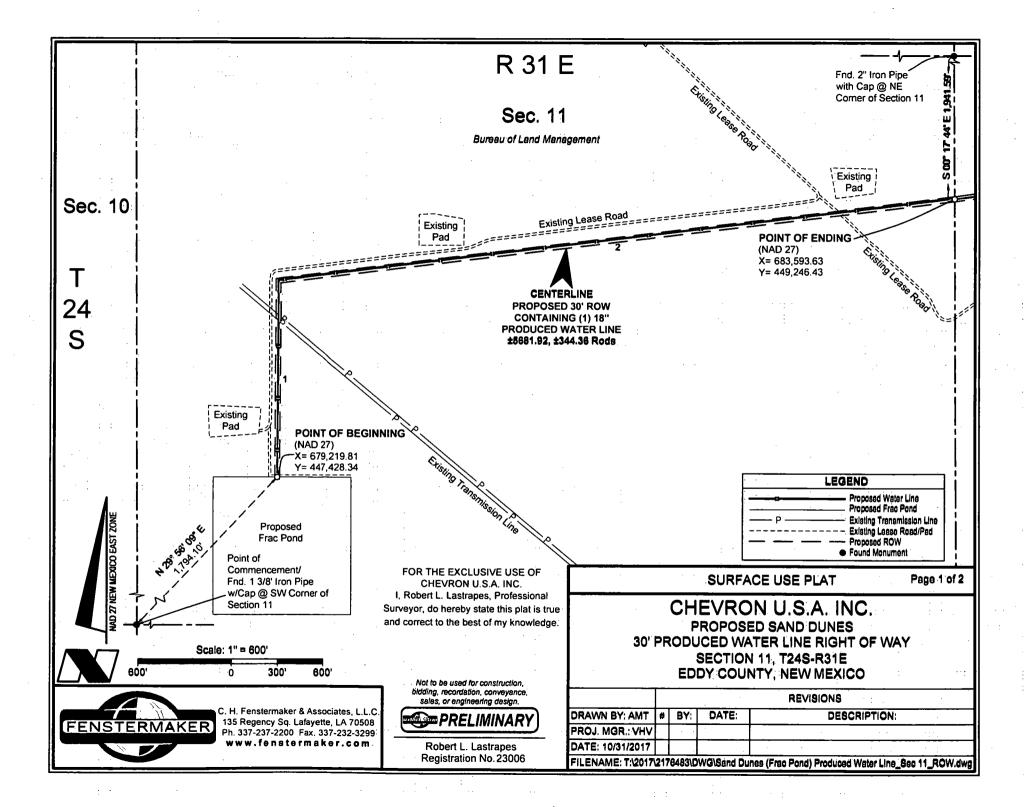
THENCE West 1,092.54 feet to Point of Ending having the following coordinates: X= 682,513.46 and Y= 446,816.91 (New Mexico State Plane Coordinate System, East Zone, NAD 27).

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 ROW and intended solely for that purpose. This description does not represent a boundary survey.

CENTERLINE PROPOSED 60' ROW					
COURSE	DISTANCE				
1	WEST	1092.54'			

	FOR THE EXCLUSIVE USE OF	SURFACE USE PLAT					
	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,		F	PROPOSI 60' RI SECTIOI	ON U.S.A. INC. ED SAND DUNES GHT OF WAY N 11, T24S-R31E NTY, NEW MEXICO		
	bidding, recordation, conveyance, sales, or engineering design.				REVISIONS		
C. H. Fenstermaker & Associates, L.L.C. 135 Regency Sq. Lafeyette, LA 70508	PRELIMINARY	DRAWN BY: DMB	# 8Y:	DATE:	DESCRIPTION:		
FENSIERIVIAKER 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:\2017	\217648	3\DWG\Sand	Dunes 60' ROW_Sec 11_ROW.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 3/8" Iron 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;

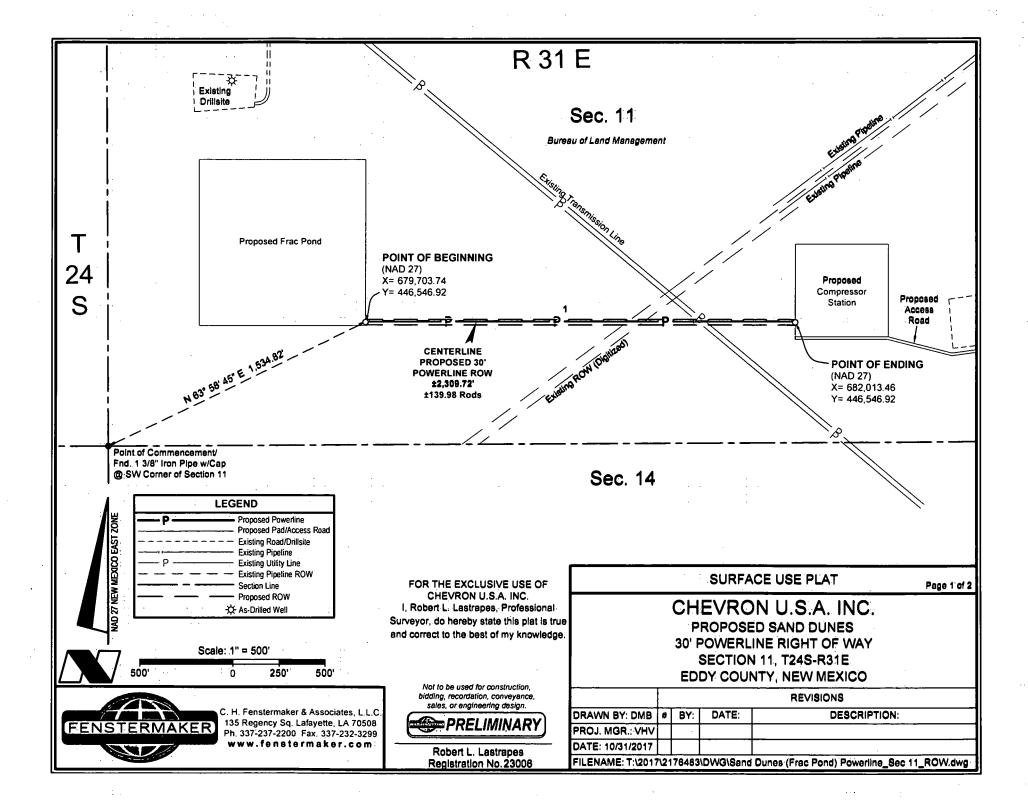
THENCE North 82 degrees 59 minutes 13 seconds East 4,401.19 feet to the POINT OF ENDING at the common section line between Sections 11 and 12, said POINT OF ENDING having the following coordinates: X= 683,593.63 and Y= 449,246.43 (New Mexico State Plane Coordinate System, East Zone, NAD 27).

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.

CENTERLINE PROPOSED 30' PRODUCED WATER LINE ROW					
COURSE BEARING DISTAN					
1	N 00° 14' 55" E	1280.73'			
2	N 82° 59' 13" E	4401.19'			

	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. Not to be used for construction.	30'	PROD	PROPOSI UCED W/ SECTIO	ON U.S.A. INC. ED SAND DUNES ATER LINE RIGHT OF WAY N 11, T24S-R31E NTY, NEW MEXICO
	bidding, recordation, conveyance, sales, or engineering design.				REVISIONS
C. H. Fenstermaker & Associates, L.L.C. 135 Regency Sq. Lafayette, LA 70808	PRELIMINARY	DRAWN BY: AMT	# BY:	DATE:	DESCRIPTION:
FENSTERMAKER 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\Sand D	unes (Frac Pond) Produced Water Line_Sec 11_ROW.dwg



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 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 feet on each side of centerline, containing 2,309.72 feet or 139.98 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 3/8" Iron Pipe with Cap, located at the Southwest Corner of said Section 11 Township 24 South Range 31 East; THENCE North 63 degrees 58 minutes 45 seconds East 1,534.82 feet to the Point of Beginning, said Point of Beginning having the following coordinates: X= 679.703.74 and Y= 446,546.92 (New Mexico State Plane Coordinate System, East Zone, NAD 27).

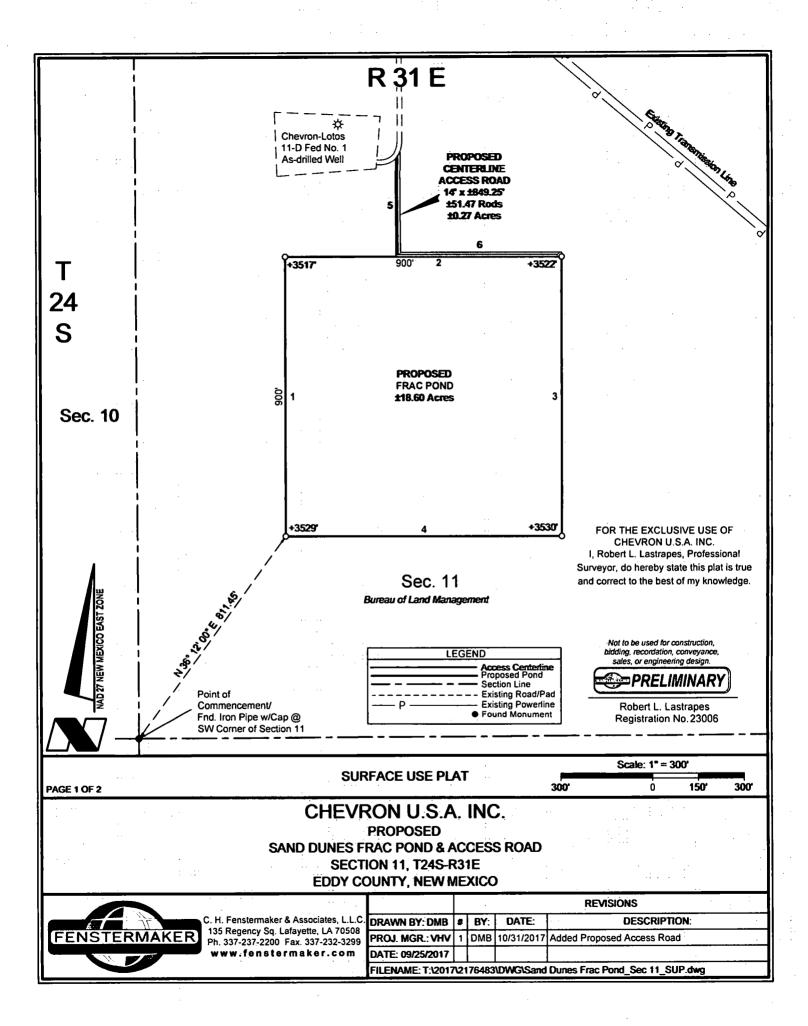
THENCE East 2,309.72 feet to Point of Ending having the following coordinates: X= 682,013.46 and Y= 446,546.92 (New Mexico State Plane Coordinate System, East Zone, NAD 27).

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 Powerline ROW and intended solely for that purpose. This description does not represent a boundary survey.

CENTERLINE PROPOSED 30' POWERLINE ROW				
COURSE	BEARING	DISTANCE		
1	EAST	2309.72		

	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.		-		NCE USE PLAT	Page 2 of 2
	Not to be used for construction.		EC		N 11, T24S-R31E NTY, NEW MEXICO	
	bidding, recordation, conveyance,				REVISIONS	
C. H. Fenstermaker & Associates, L.L.C. 135 Regency Sq. Lafayette, LA 70508		DRAWN BY: DMB	# BY:	DATE:	DESCRIPTION	
FENSTERIVIANER Ph. 337-237-2200 Fax: 337-232-3289	PRELIMINARY	PROJ. MGR.: VHV				
www.fenstermaker.com	Robert L. Lastrapes	DATE: 10/31/2017				
	Registration No. 23006	FILENAME: T:\2017	\217648	3\DWG\Sand	Dunes (Frac Pond) Powerline	11_ROW.dwg



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

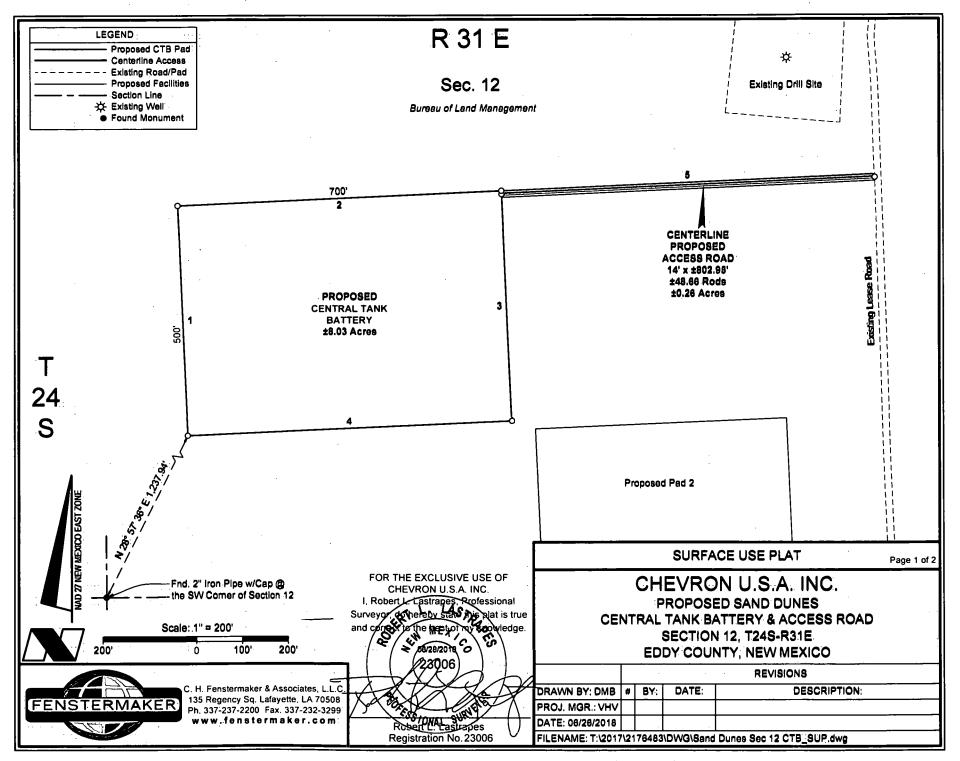
Separati Sep

NW FRAC POIND CORNER			NER	RAC POND O	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	NADE
Y =	447,487		Y=	447,487	
LAT.	32,228898		LAT.	32.228885	
LONG.	103,755584		LONG.	103.752674	
ELEVA	TION +3517 M	IAVD 88	ELEVA	TION +3522 N	IAVD 88
SW FF	RAC POND CO	DRIVER	SE FRAC POND CORNER		
	670 004	NAD 27	Y -	670 701	MAD 2
X=	678,804		^	0/3//04	
X= Y=	446,528	1000	Y≓	446,528	NAU ZI
Y=			Y=		
Y= Lat.	446,528		Y≓ LAT.	445,528	
y= Lat. Long.	446,528 32,226301		Y= Lat. Long.	446,528 32,776288	
y= Lat. Long.	446,528 32,226301 103,755117	NAD83	Y= Lat. Long.	445,528 32,226288 103,752207	
Y= LAT. LONG. X= Y=	446,528 32,226301 103.755117 719,988	NAD83	Y= Lat. Long. X=	445,528 32,226288 103,752207 720,888	
Y= LAT. LONG. X= Y=	446,528 32,226301 103.755117 719,988 446,587 32,226424	NAD83	Y= Lat. Long. X= Y= Lat.	445,528 32,226288 103,752207 720,888 445,587	

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

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

PAGE 2 OF 2	RFACE USE PL	AT	-			• • •
CHEVE	RON U.S.A	١.	INC	C.	· · · · · ·	
	PROPOSED RAC POND & A ION 11, T24S-F DUNTY, NEW N	R 3'	1E		: 	
					REVISIONS	
C. H. Fenstermaker & Associates, L.L.C.	DRAWN BY: DMB		BY:	DATE:	DESCRIPTION:	
135 Regency So Lafavette LA 70508	PROJ. MGR.: VHV		DMB	10/31/2017	Added Proposed Access Road	.:
www.fenstermaker.com	DATE: 09/25/2017		-		·····	
	FILENAME: T:\2017	121	76483	NDWG\Sand	Dunes Frac Pond Sec 11 SUP.dwg	



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NOTE:

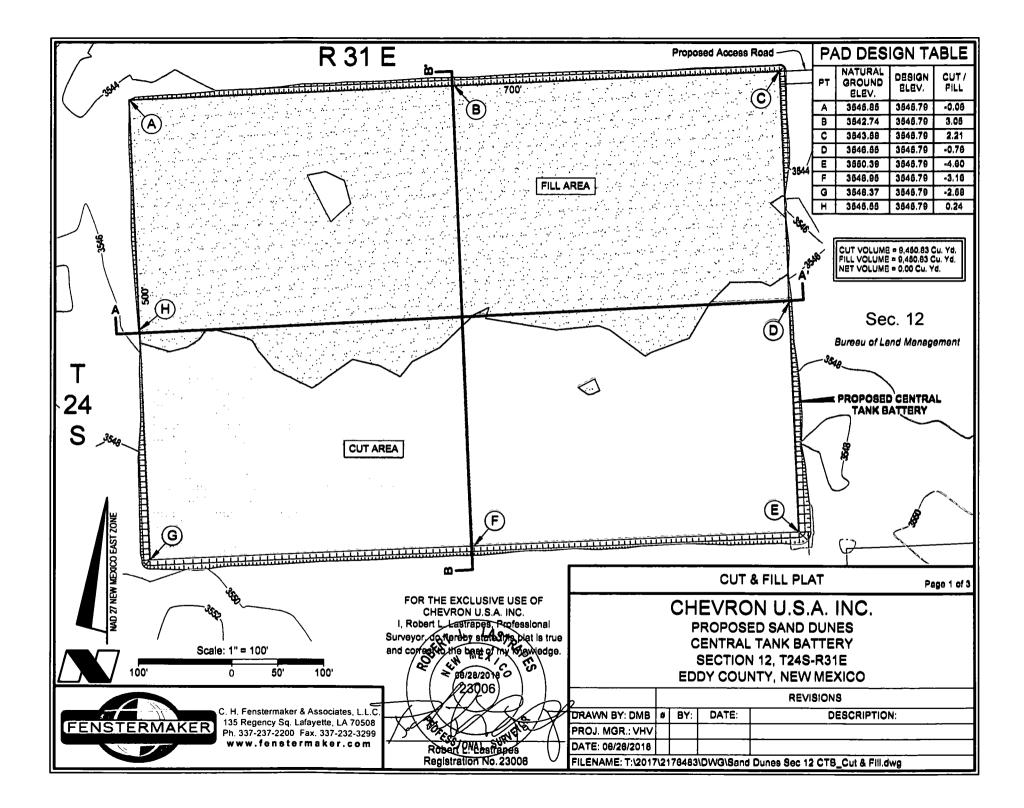
Many states maintain information centers that establish links between those who dig (excavators) and those who own and operate underground facilities (operators). It is advisable and in most states, law, for the contractor to contact the center for assistance in locating and marking underground utilities.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

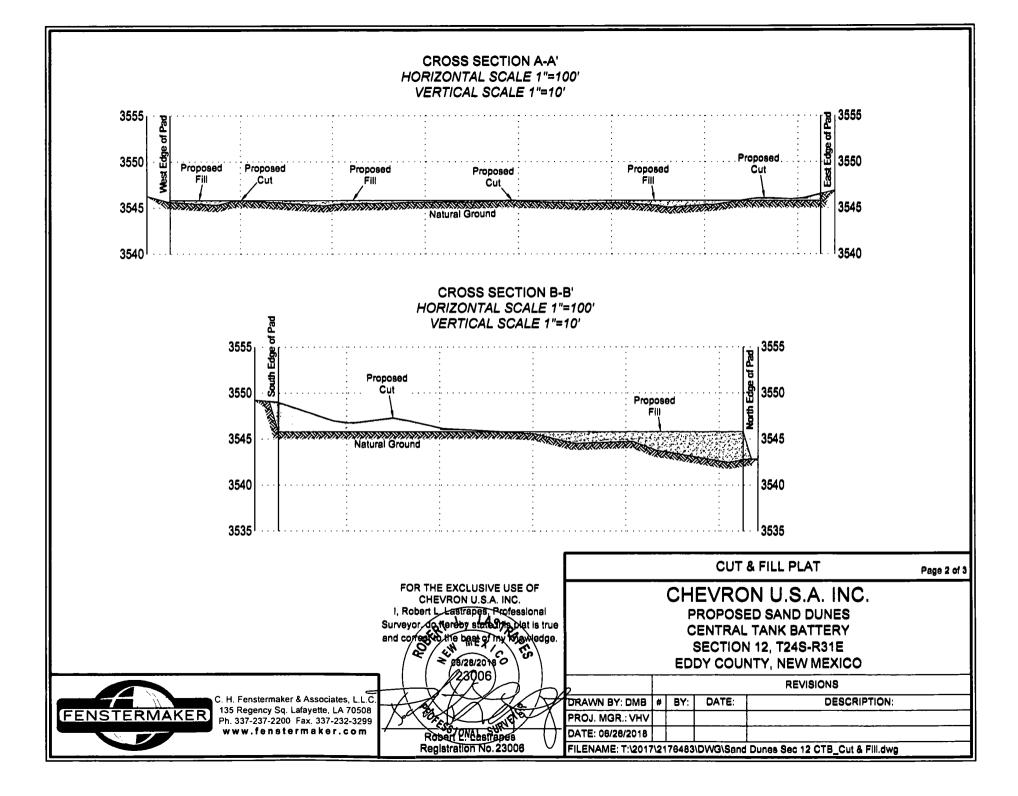
r						
	NW CTB CORNER			NE CTB CORNER		
X=	684,188		X=	684,887		
Y=	447,488	NAD 27	Y=	447,520		
LAT.	32.228858 N	NAU 27	LAT.	32.228934 N	NAD 27	
LONG.	103.737690 W		LONG.	103.735428 W		
X=	725,372	•	X=	726,071		
Y=	447,547	NAD83/2011	Y=	447,578	NAD83/2011	
LAT.	32.228981 N	NAD63/2011	LAT.	32.229057 N	NAD83/2011	
LONG.	103:738173 W		LONG.	103.735911 W		
ELE	ELEVATION +3546' NAVD 88			VATION +3544' N	IAVD 88	
	SW CTB CORNER			SE CTB CORNE	R	
X=	684,210		X=	684,910		
Y=	446,988	NAD 27	Y=	447,020		
LAT.	32.227484 N	NAU 27	LAT.	32.227561 N	NAD 27	
LONG.	103.737626 W		LONG.	103.735364 W		
X=	725,394		X=	726,093		
Y=	447,047	NAD83/2011	Y=	447,079	NAD83/2011	
LAT.	32.227608 N	NAD63/2011	LAT.	32.227684 N	NAD03/2011	
LONG.	103.738109 W		LONG.	103.735847 W		
ELE	ELEVATION +3548' NAVD 88 ELEVATION +3550' NAVD 88					

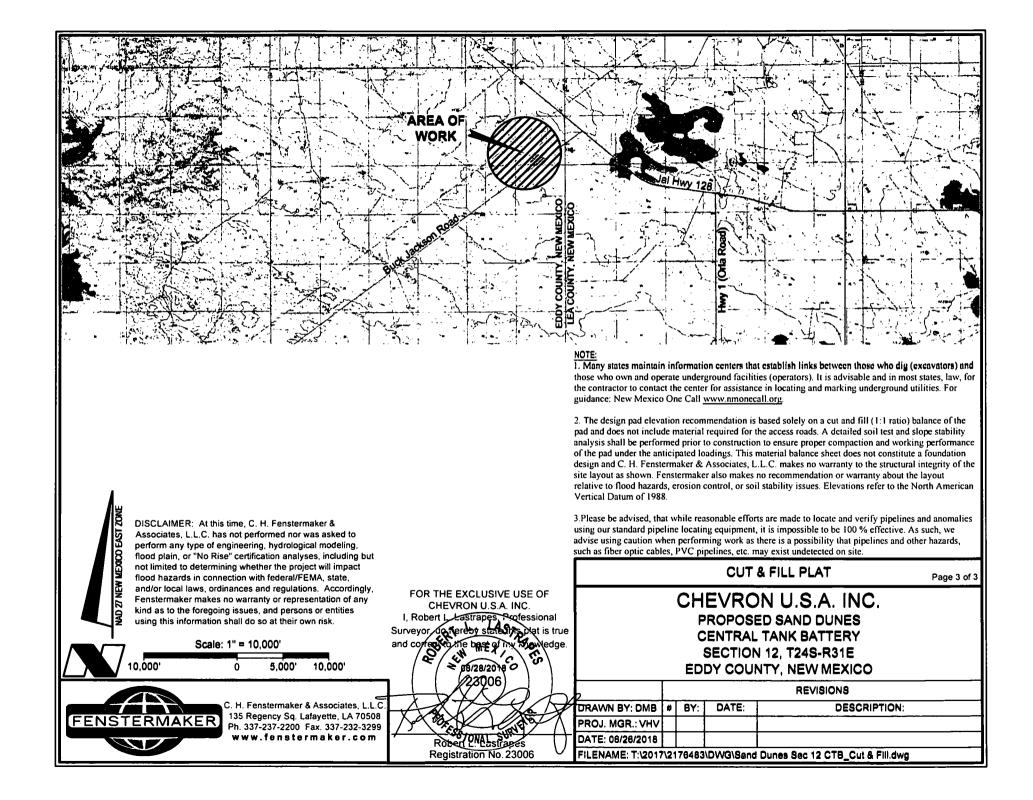
PROPOSED CENTRAL TANK BATTERY				
COURSE	BEARING	DISTANCE		
1	N 02° 35' 27" W	800.00'		
2	N 87° 24' 33" E	. 700,00'		
3	S 02* 36' 27" E	\$00.00 [,]		
4	8 87° 24' 33" W	700.00'		

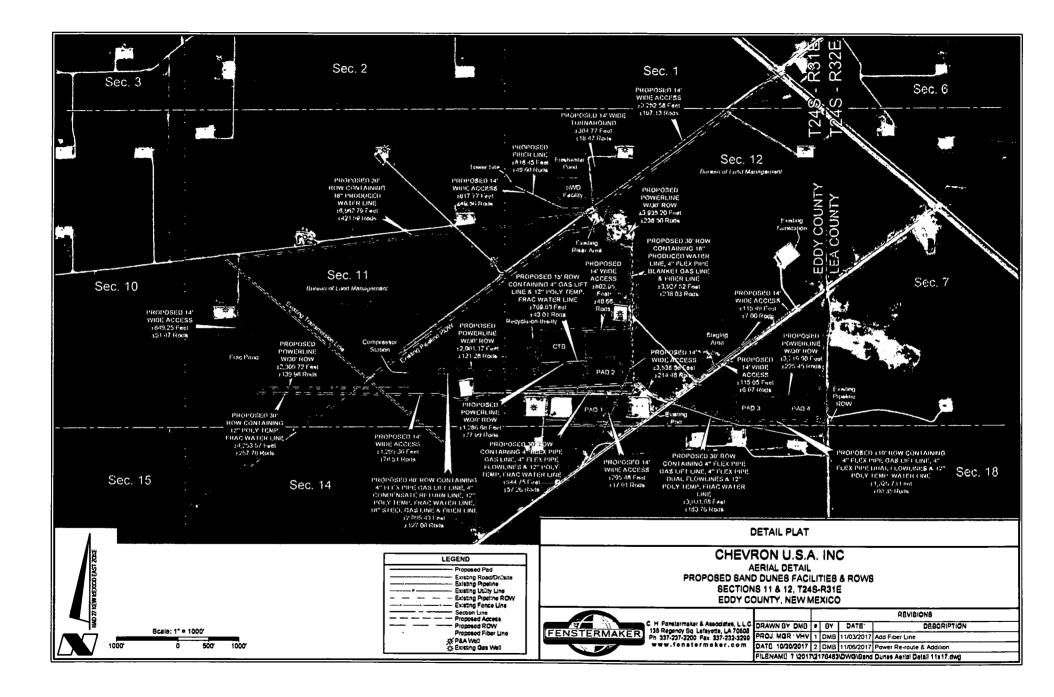
CENTERLI	CENTERLINE PROPOSED ACCESS ROAD				
COURSE	BEARING	DISTANCE			
5 .	N 87° 24' 33" E	802.95'			

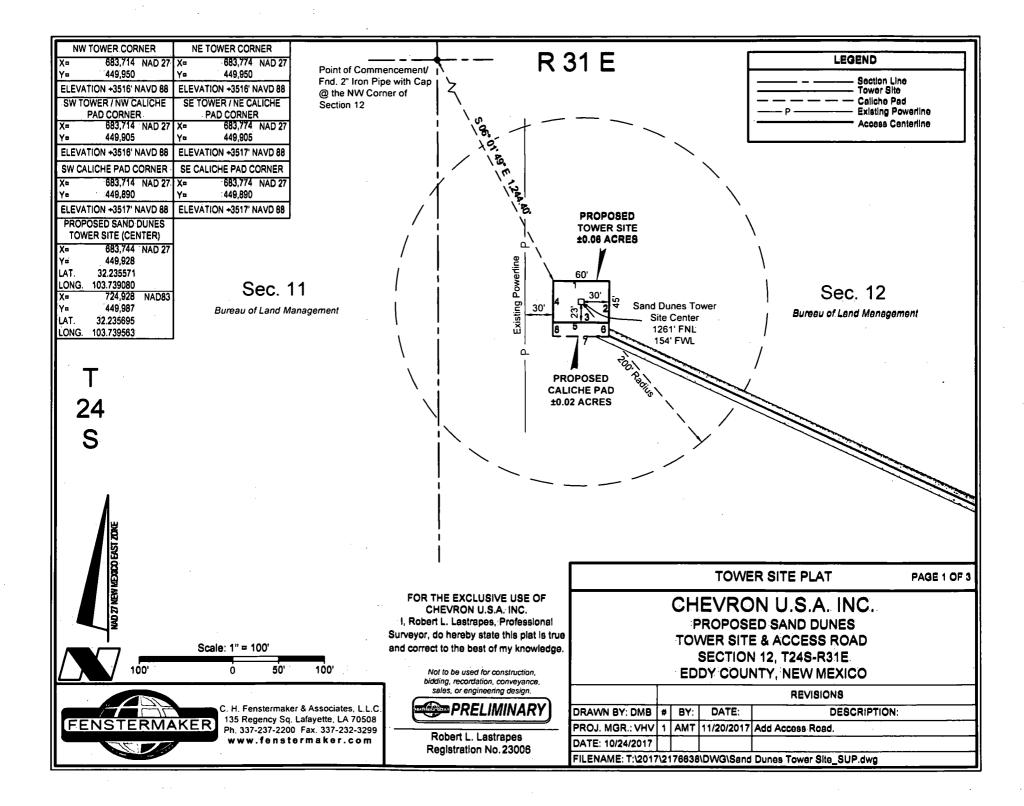
				SURFA	CE USE PLAT	Page 2 of 2
	FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC. I, Robert L. Lastrapes, Rofessional Surveyor, dothereby state file plat is true and correct of the these of the plat is plat is true and correct of the these of the plat is for a by 2005	CE	F NTRAL	PROPOSE TANK BA	NU.S.A. INC. ED SAND DUNES ATTERY & ACCESS ROAD 12, T24S-R31E NTY, NEW MEXICO	
					REVISIONS	
C. H. Fenstermaker & Associates, L.L.C. FENSTERMAKER		DRAWN BY: DMB	# 8Y:	DATE:	DESCRIPTION:	
Ph. 337-237-2200 Fax. 337-232-3299 www.fenstermaker.com	y the second	PROJ. MGR.: VHV	-			
www.tenstermaker.com	Robert L'Agirapes Registration No. 23006	DATE: 08/28/2018	12178483	NDW@\Sand	Dunes Sec 12 CTB_SUP.dwg	

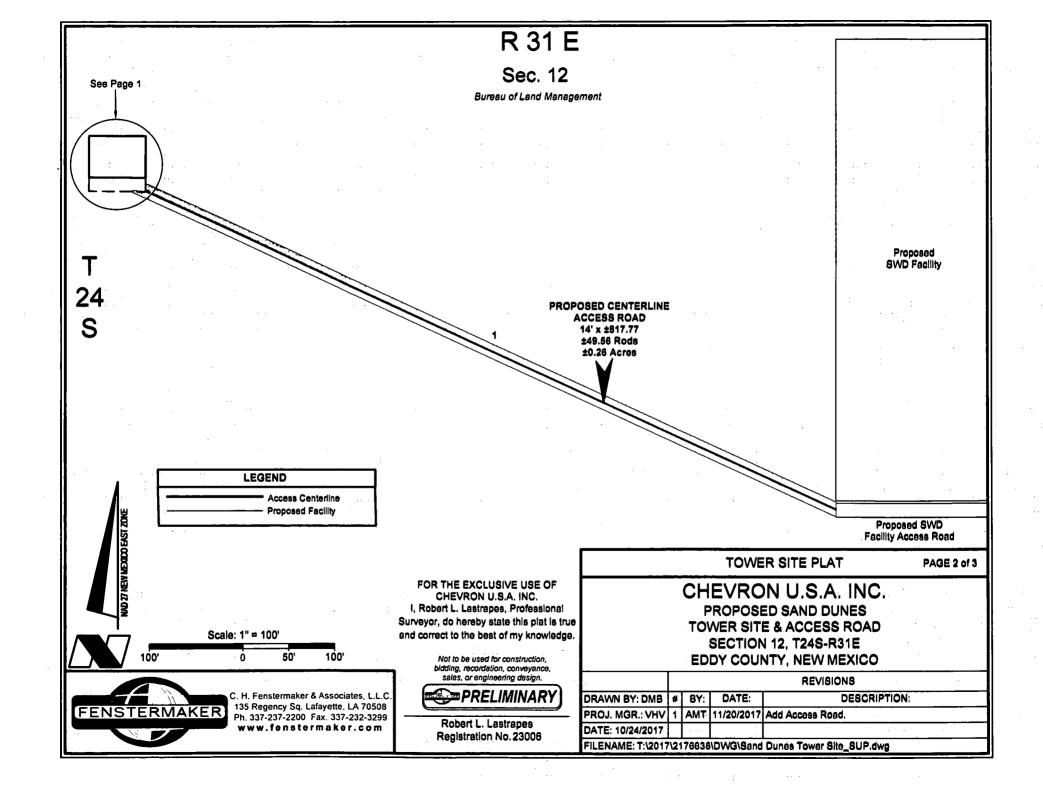












PROPOSE	D CENTERLINE AC	CESS ROAD
COURSE	BEARING	DISTANCE
1	N 65° 00' 06" W	817.77'

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VORK

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NOTE:

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NOTE:

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Many states maintain information centers that establish links between those who dig (excavators)

PF	ROPOSED TOWER	SITE	
COURSE	BEARING	DISTANCE	C
1	S 89° 42' 19" E	60.00'	
2	S 00° 17' 41" W	45.00'	
3	N 89° 42' 19" W	60.00'	
4	N 00° 17' 41" E	45.00'	

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County, New County,

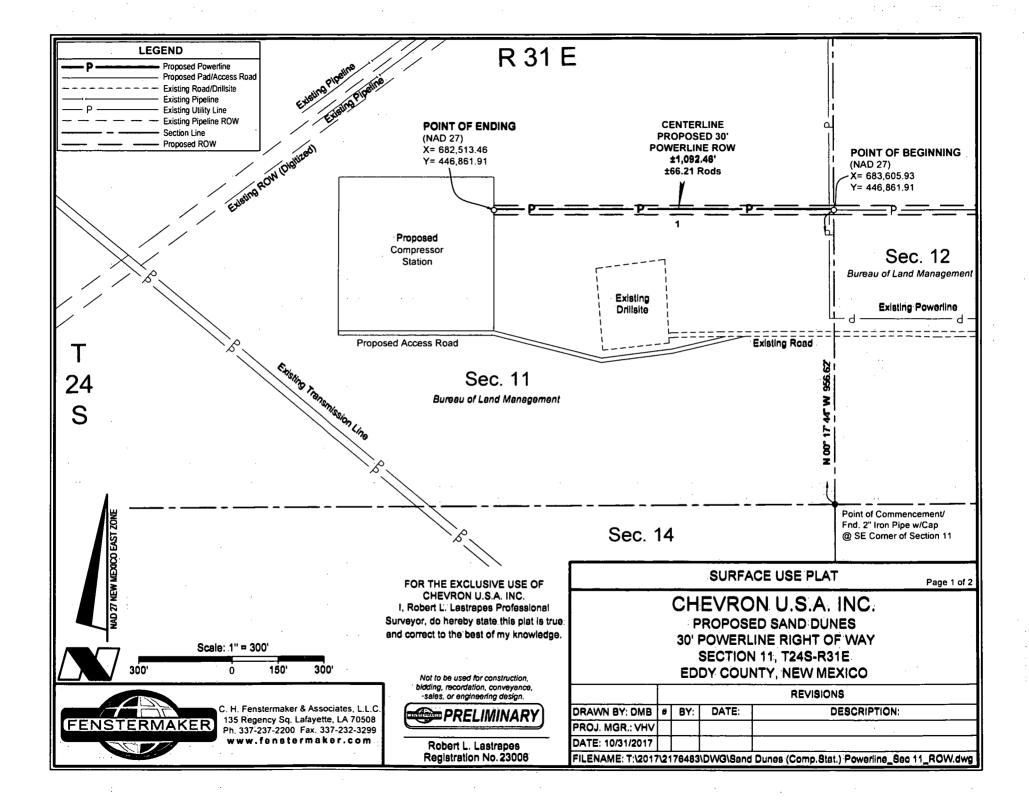
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PROPOSED CALICHE PAD				
COURSE	BEARING	DISTANCE		
5	S 89° 42' 19" E	60.00'		
6	S 00° 17' 41" W	15.00'		
7	N 89° 42' 19" W	60.00'		
8	N 00° 17' 41" E	15.00'		

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 hezards 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,

and those who own and operate underground facilities (operators). It is advisable and in most states, law, for				TOWE	R SITE PLAT	PAGE 3 OF 3
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> Scale: 1" = 3,000'	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 TO	PROPOSI	N U.S.A. INC. ED SAND DUNES E & ACCESS ROAD I 12, T24S-R31E	
3,000' 0 1,500' 3,000'	Not to be used for construction, bidding, recordation, conveyance,		ED	DY COUI	NTY, NEW MEXICO	
	salas, or engineering design.				REVISIONS	
C. H. Fenstermaker & Associates, L.L.C. 135 Regency Sq. Lafayette, LA 70508	PRELIMINARY	DRAWN BY: DMB	# BY:	DATE:	DESCRIPTION	
FENSIERIMARER Ph. 337-237-2200 Fax. 337-232-3299	Bebott Li astronon	PROJ. MGR.: VHV	1 AMT	11/20/2017	Add Access Road.	
www.fenstermaker.com	Robert L. Lastrapes Registration No. 23006	DATE: 10/24/2017				
		FILENAME: T:\2017	2176638	NDWG\Sand	Dunes Tower Site_SUP.dwg	



NOTE:

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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 feet on each side of centerline, 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 Mexico.

COMMENCING at a Found 2" Iron 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 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= 683,605.93 and Y= 446,861.91 (New Mexico State Plane Coordinate System, East Zone, NAD 27).

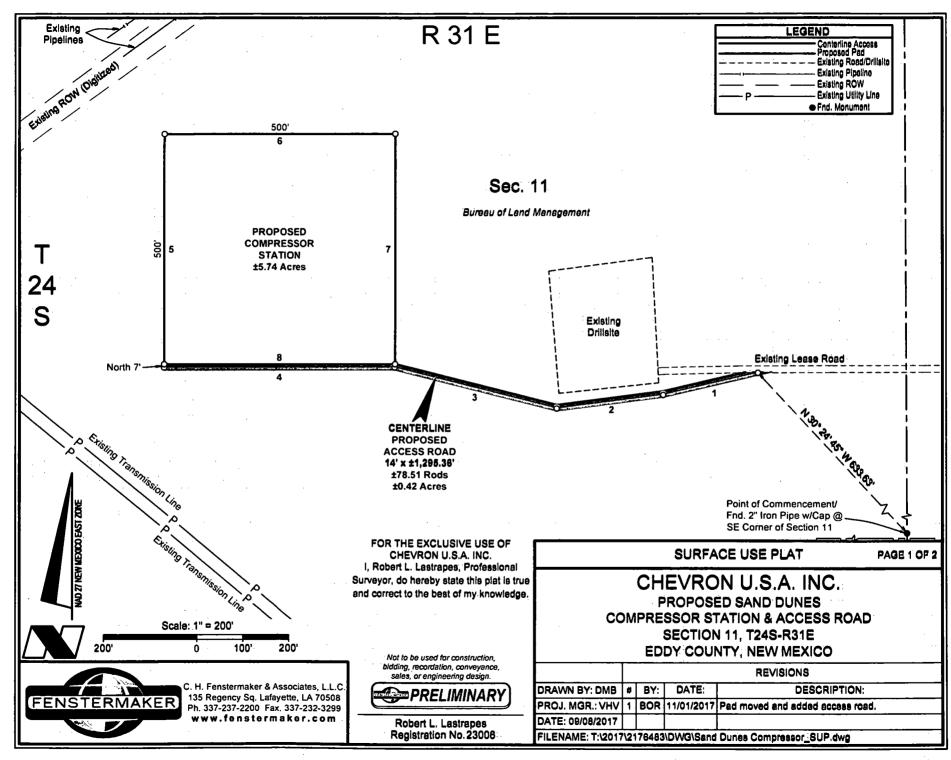
THENCE West 1,092 46 feet to Point of Ending having the following coordinates: X= 682,513.46 and Y= 446,861.91 (New Mexico State Plane Coordinate System, East Zone, NAD 27).

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

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

CENTERLINE PROPOSED 30' POWERLINE ROW					
COURSE	BEARING	DISTANCE			
1	WEST	1092.46			

· · · · · · · ·					
	FOR THE EXCLUSIVE USE OF			SURF	ACE USE PLAT Page 2 of 2
	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.		-	PROPOS	ON U.S.A. INC. ED SAND DUNES LINE RIGHT OF WAY
	Not to be used for construction,		EC		N 11, T24S-R31E NTY, NEW MEXICO
	bidding, recordation, conveyance, sales, or engineering design.				REVISIONS
C. H. Fenstermaker & Associates, L.L.C. 135 Regency Sq. Lafayette, LA 70508	PRELIMINARY	DRAWN BY: DMB	# BY:	DATE:	DESCRIPTION
FEINSTERIVIAKER Ph. 337-237-2200 Fex. 337-232-3299		PROJ. MGR.: VHV			
www.fenstermaker.com	Robert L. Lastrapes	DATE: 10/31/2017			
		FILENAME: T:\2017	1217848	3\DWG\Sand	d Dunes (Comp.Stat.) Powerline_Sec 11_ROW.dwg



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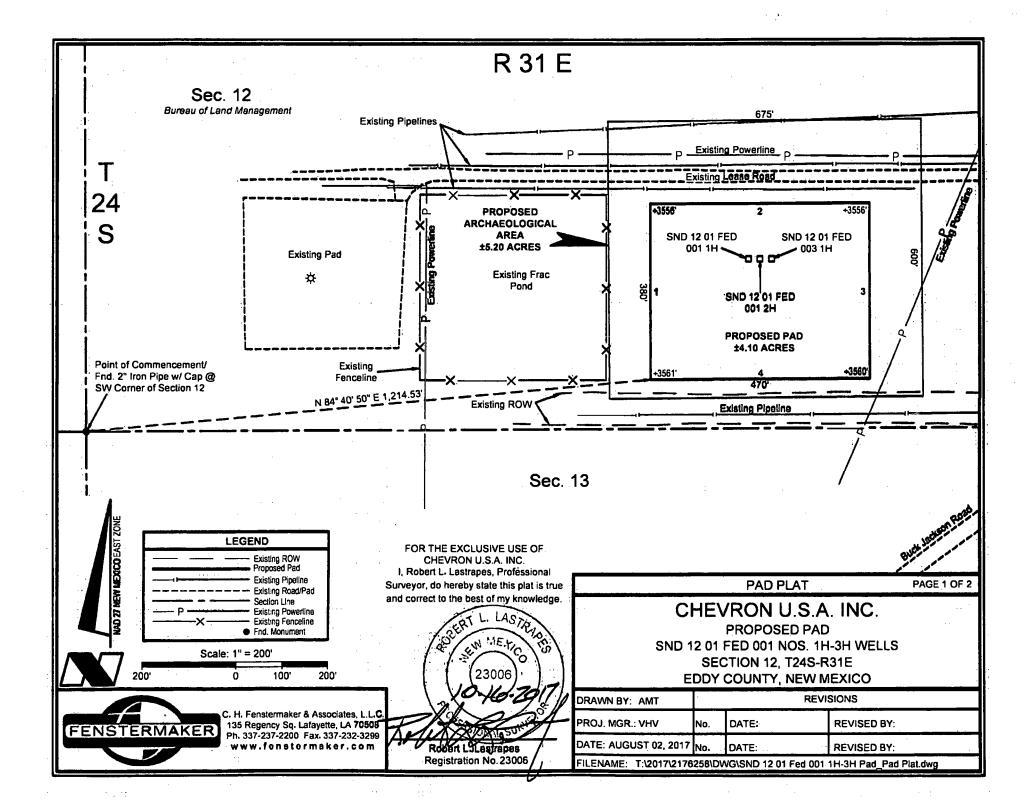
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NW CO	MPRESSOR S CORNER	STATION	NE CO	MPRESSOR S CORNER	TATION
X¤ Y¤ LAT:	446,970 32.227466	NAD 27	Y¤ LAT.	682,513 446,970 32.227458	NAD 27
LONG. X¤ Y¤ LAT:	103.744730 723,198 447,029 32,227589	NAD83		103.743113 723,698 447,029 32,227582	NAD83
· · · · · ·	103.745212 TION +3543' N	AVD 88	LONG.		AVD 88
SW CO	MPRESSOR S CORNER	TATION	SE CO	MPRESSOR S CORNER	TATION
SW CO X= Y= LAT. LONG.	CORNER 682,013 446,470 32.226092			CORNER 682,513 446,470 32.226084	-
X¤ Y¤ LAT.	CORNER 682,013 446,470 32.226092	NAD 27	X¤ Y¤ LAT.	CORNER 682,513 446,470 32.226084	-

CENTERLINE PROPOSED ACCESS ROAD					
COURSE	BEARING	DISTANCE			
1	8 76° 41' 50" W	208.78'			
2	8 82° 32' 22" W	229.43'			
3	N 75° 39' 11" W	358.03'			
4	WEST	499.12'			

PROPOSED COMPRESSOR STATION						
COURSE	BEARING	DISTANCE				
5	NORTH	600.00'				
8	EAST	500.00'				
7	SOUTH	500.00'				
8	WEST	800.00'				

	FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC.			SURF	ACE USE PLAT	PAGE 2 OF 2
	 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. 		OMPF	PROPOS RESSOR S SECTIO	ON U.S.A. INC. SED SAND DUNES STATION & ACCESS ROAD IN 11, T24S-R31E JNTY, NEW MEXICO)
	bidding, recordation, conveyance, sales, or engineering design.				REVISIONS	
C. H. Fenstermaker & Associates, L.L.C. 135 Regency Sq. Lafayette, LA 70508 Ph. 337-237-2200 Fax, 337-232-3299		DRAWN BY: DMB PROJ. MGR.: VHV	# B 1 BC		DESCRIPTION: 7 Pad moved and added access ros	
www.fenstermaker.com	Robert L. Lastrapes	DATE: 09/08/2017 FILENAME: T:\2017				



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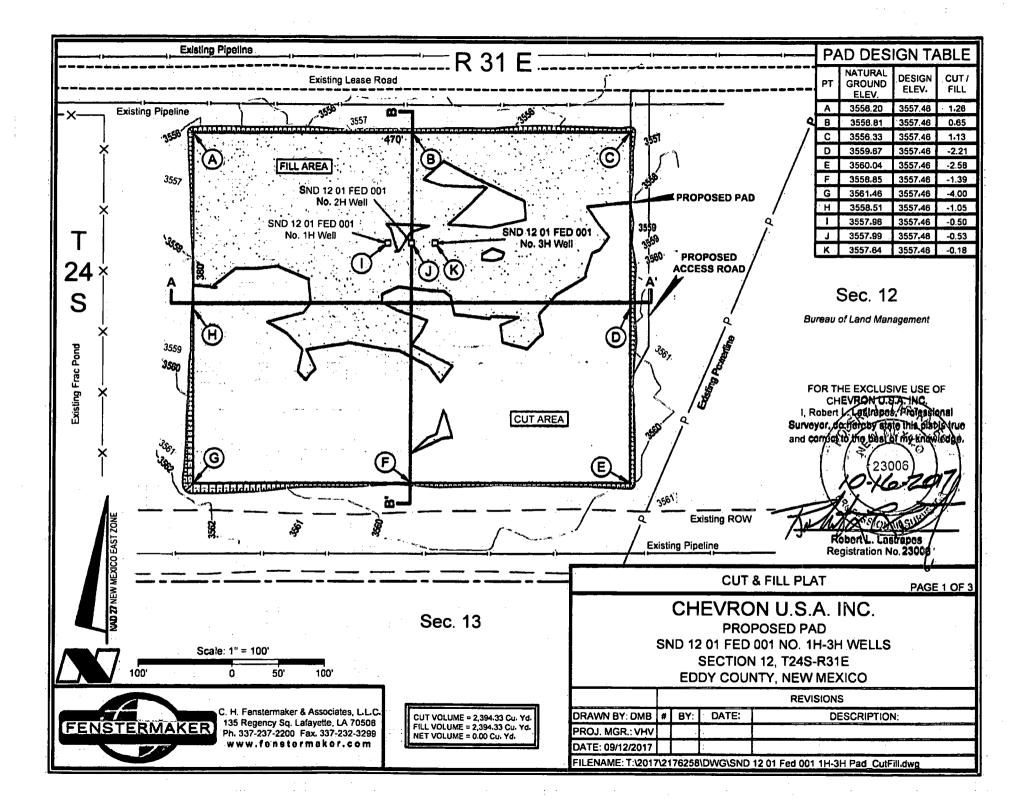
NOTE:

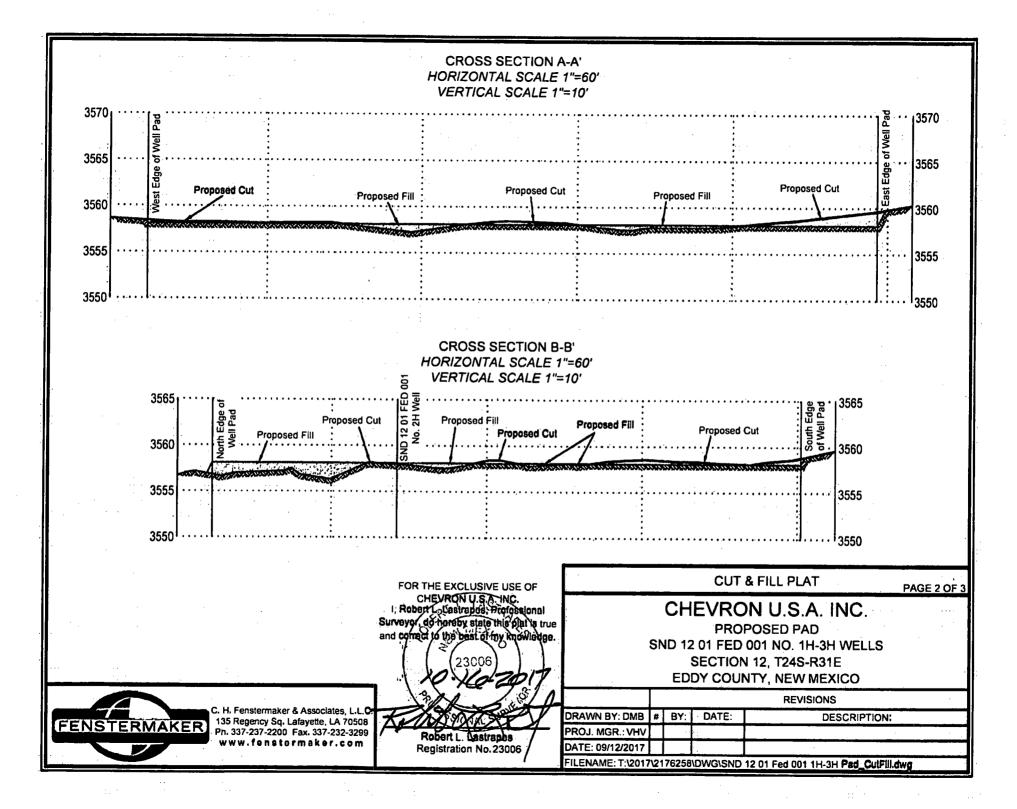
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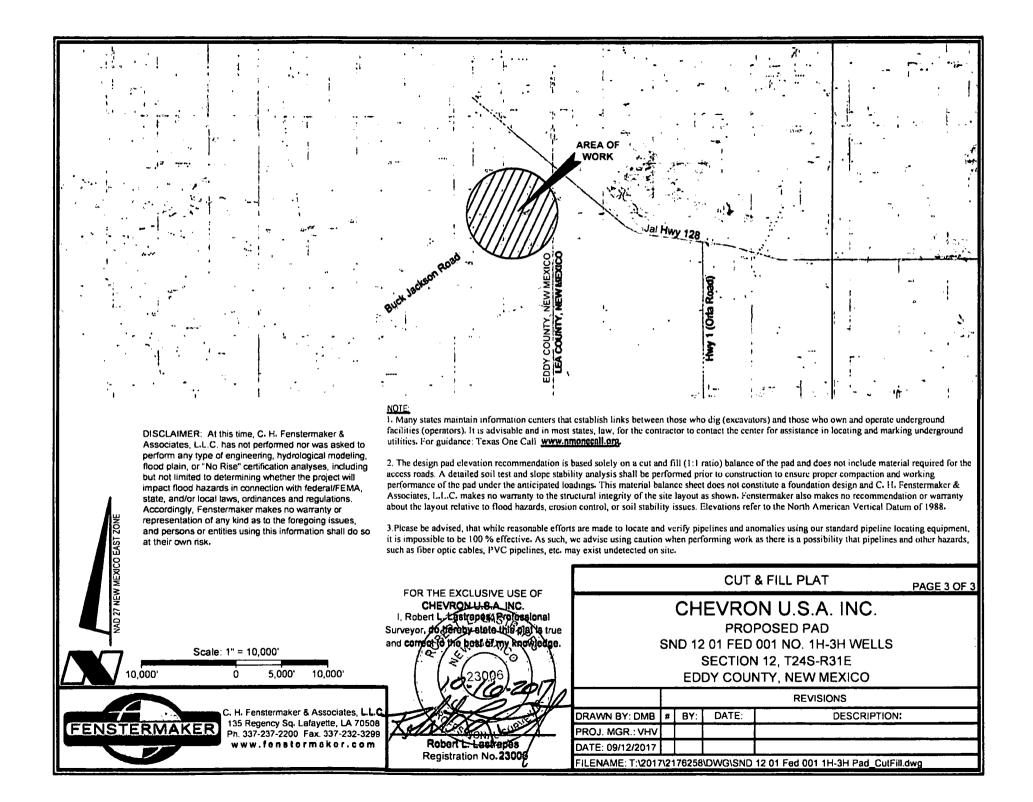
_	PROPOSED PAD)
COURSE	BEARING	DISTANCE
1	N 00° 15' 55" W	380.00'
2	N 89° 44' 05" E	470.00'
3	S 00° 15' 55" E	380.00'
4	S 89° 44' 05" W	470.00'

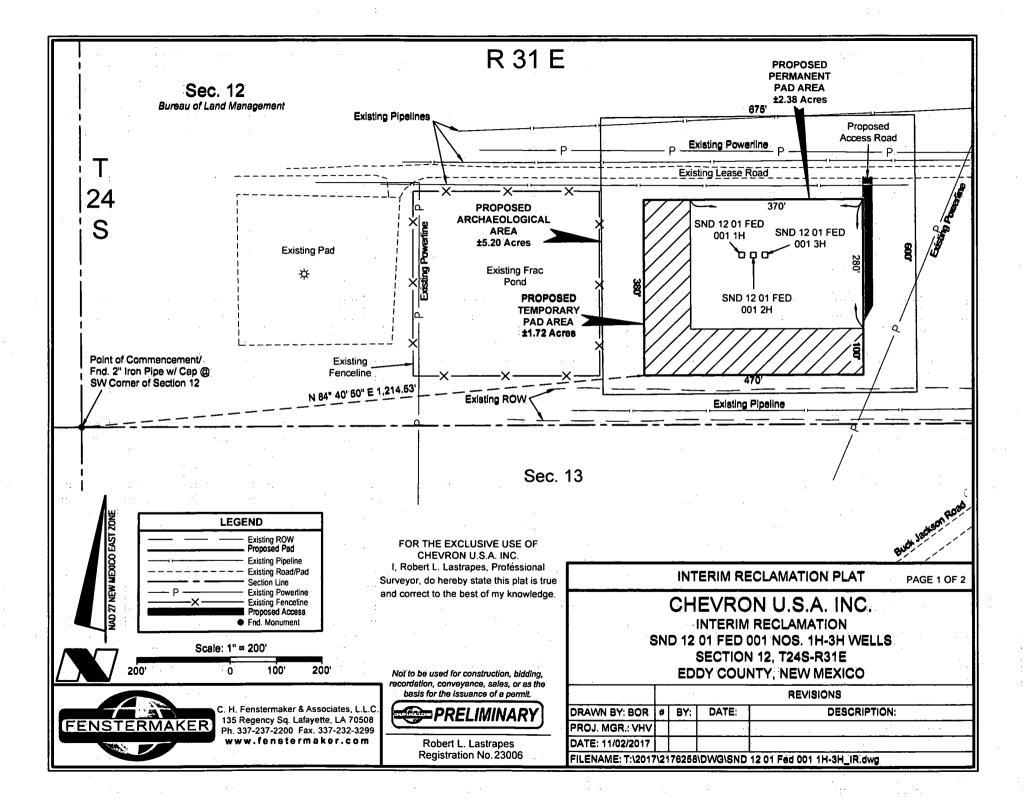
NW AF	RCH. AREA C	ORNER	NE AF	RCH. AREA CO	ORNER	N	N PAD CORN	ER	N	E PAD CORN	ER
X=	684,726	NAD 27	X=	685,401	NAD 27	X=	684,818	NAD 27	X=	685,288	NAD 27
Y=	446,576		Y=	446,582		Y=	446,398	1	Y=	446,400	
AT.	32.226343		LAT.	32.226350		LAT.	32.225852		LAT.	32.225851	
ONG.	103.735966		LONG.	103.733783		LONG.	103.735670		LONG,	103.734150	
(=	725,910	NAD83	X=	726,585	NAD83	X=	726,003	NAD83	X=	726,473	NAD83
/=	446,635		Y=	446,641		Y=	446,457		Y=	446,459	•
AT.	32.226466		LAT.	32.226473		LAT.	32.225975		LAT.	32.225974	
ONG.	103.736448		LONG.	103,734266		LONG.	103.736152		LONG,	103.734632	
ELEVA	TION +3553' N	AVD 88	ELEVA	TION +3556' N	AVD 88	ELEVA	TION +3556' N	AVD 88	ELEVA	TION +3556' N	IAVD 68
SW AF	RCH. AREA C	ORNER	SE AF	RCH. AREA CO	DRNER ·	SI	N PAD CORN	ER	S	E PAD CORNI	ER
(=	684,732	NAD 27	X=	685,407	NAD 27	X=	684,820	NAD 27	X=	685,290	NAD 27
(=	445,976		Y=	445,982		Y=	446,018		Y=	446,020	
AT.	32.224694		LAT.	32.224700		LAT.	32.224807		LAT.	32.224806	
ONG.	103-735958		LONG.	103.733775		LONG.	103,735671		LONG.	103.734151	
	725.916	NAD83	X=	726,591	NAD83	X=	726,004	NAD83	X=	726,474	NAD83
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-	446,035 32.224817		LAT.	32.224824		LAT.	32.224931		LAT.	32.224930	•
/=	•		LAT. LONG,	32.224824 103.734258		LAT. LONG.	32.224931 103,736153		LAT. LONG,	32.224930 103.734633	•

	FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC. I, Robert L. Løstrapes, Professional					
	Surveyor, do hereby state this plat is true		_	PAD PLA	Т	PAGE 2 OF 2
	and correct to the basil of my knowladge.	C SND ²	12 01 SE(VRON U.S PROPOSED FED 001 NOS CTION 12, T24 COUNTY, NE	PAD 5. 1H-3H WELLS 4S-R31E	
	300 July	DRAWN BY: AMT			REVISIONS	
C. H. Fenstermaker & Associates, L.L.C. 135 Regency Sq. Lafayette, LA 70508 Ph. 337-237-2200 Fax, 337-232-3289		PROJ. MGR.: VHV	No.	DATE:	REVISED BY:	_
Ph. 337-237-2200 Fax. 337-232-3299 www.fenstormakor.com	Robert Ľ. Lastrapes/	DATE: AUGUST 02, 2017	No.	DATE:	REVISED BY:	
	Registration No.23008	FILENAME: T:\2017\2176	5258\D\	WG\SND 12 01 Fee	1 001 1H-3H Pad_Pad	Plat.dwg









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

NW AF	RCH. AREA CO	ORNER	NE AF	CH. AREA CO	DRNER	N١	W PAD CORN	ER	N	E PAD CORN	ER
X=	684,726	NAD 27	X=	685,401	NAD 27	X=	684,818	NAD 27	X=	685,288	NAD 27
Y=	446,576		Y=	446,582		Y=	446,398		Y=	446,400	
LAT.	32.226343		LAT.	32.226350		LAT.	32.225852		LAT.	32.225851	
LONG.	103.735966		LONG.	103.733783		LONG.	103.735670		LONG.	103.734150	
X=	725,910	NAD83	X=	726,585	NAD83	X=	726,003	NAD83	X=	726,473	NAD83
Y=	446,635		Y=	446,641		Y=	446,457		Y=	446,459	
LAT.	32.226466		LAT.	32.226473		LAT.	32.225975		LAT.	32.225974	
LONG.	103.736448		LONG.	103.734266		LONG.	103.736152		LONG.	103.734632	
ELEVA	TION +3553' N	AVD 88	ELEVA	TION +3556' N	AVD 88	ELEVA	TION +3556' N	AVD 88	ELEVA	TION +3556' N	AVD 88
SW AF	CH. AREA CO	ORNER	SE AF	CH. AREA CO	ORNER	SI	N PAD CORN	ER	S	E PAD CORN	FR
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	-	NAD 27			NAD 27		684,820		X=	685,290	
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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			INT	ERIM RE	CLAMATION PLAT	PAGE 2 OF 2
	and correct to the best of my knowledge. Not to be used for construction, bidding,	5	SND	12 (INTERIM 01 FED (SECTION	NU.S.A. INC. RECLAMATION 001 NOS. 1H-3H WELLS 12, T24S-R31E NTY, NEW MEXICO	
	recordation, conveyance, sales, or as the basis for the issuance of a permit.					REVISIONS	
C. H. Fenstermaker & Associates, L.L.C. 135 Regency Sq. Lafayette, LA 70508		DRAWN BY: BOR	#	BY:	DATE:	DESCRIPTION:	
FEINS I ERIVIAKER, Ph. 337-237-2200 Fax. 337-232-3299		PROJ. MGR.: VHV					
www.fenstermaker.com		DATE: 11/02/2017					
	Registration No. 23006	FILENAME: T:\2017	7\2176	3258	DWG\SND	12 01 Fed 001 1H-3H_IR;dwg	

SECTION 1, T24S, R31E BHL 100' FNL & 1254' FWL

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 295' 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

SECTION 1, T24S, R31E BHL 100' FNL & 1254' FWL

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.
 - o 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 945', will be laid from well running north to CTB pad in Section 12.
- Three buried flowlines, approximately 945', 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 001 2H NMNM 120901 & NMNM 69369 SECTION 12, T24S-R31E SECTION 1, T24S, R31E SHL 367' FSL & 1445' FWL BHL 100' FNL & 1254' FWL 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
 - Recycle-on-the-fly Facility
 - o Compressor Station
 - o Staging Area

SECTION 1, T24S, R31E BHL 100' FNL & 1254' FWL

Well Site Layout

- Surveyor Plat
 - 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-235', W-235'.
 - 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

SECTION 1, T24S, R31E BHL 100' FNL & 1254' FWL

- 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

SECTION 1, T24S, R31E BHL 100' FNL & 1254' FWL

Other Information

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

Chevron Representatives

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