Form 3160-3 (March 2012)

UNITED STATES

FORM	APPROVED
OMB N	lo. 1004-0137
Expires C	october 31 2014

DEPARTMENT OF THE BUREAU OF LAND MA	5. Lease Serial No. NMNM22080							
APPLICATION FOR PERMIT TO	6. If Indian, Allotee or Trib e Name							
	*/h/Px		E trading	_				
la. Type of work:					7. If Unit on CA Agre	ement, Na	me and No.	
lb. Type of Well: Oil Well Gas Well Other Single Zone Multiple Zone					8. Lease Name and TOMB RAIDER 12		зн <i>З</i> 2,	1158
Name of Operator DEVON ENERGY PRODUCTION CO	MPANY	'LP	(0 1	31	9. API Well No. 30-01	15-4	4854	-
3a. Address 333 West Sheridan Avenue Oklahoma City Ok (405)552-6571					30 E'11 1D 1 E 1 4			39350
4. Location of Well (Report location clearly and in accordance with a	any State r	equirem	ents.*)		11. Sec., T. R. M. or B	3lk. and Su	vey or Area	-
At surface SWSE / 50 FSL / 1450 FEL / LAT 32.31183	37 / LON	NG -10	3.7276518		SEC 12 / T23S / R31E / NMP			
At proposed prod. zone NWNE / 290 FNL / 1650 FEL / LA	AT 32.32	54052	2 / LONG -103.728	296				
14. Distance in miles and direction from nearest town or post office*					12. County or Parish EDDY		13. State NM	_
15. Distance from proposed* location to nearest 50 feet property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of acres in lease 17. Space 1280				Unit dedicated to this well			-
18. Distance from proposed location* to nearest well, drilling, completed, 490 feet	19. Pr	roposed	Depth	20. BLM/	BIA Bond No. on file			_
to nearest well, drilling, completed, 490 feet applied for, on this lease, ft.	II. drilling, completed, 490 feet				O1104			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	1 '	22. Approximate date work will start*			23. Estimated duration			-
3504 feet	04/29/2018			45 days			_	
			hments					_
The following, completed in accordance with the requirements of Onsh	ore Oil an	d Gas	Order No.1, must be a	tached to th	is form:			
 Well plat certified by a registered surveyor. A Drilling Plan. 			4. Bond to cover the Item 20 above).	ne operatio	ns unless covered by an	existing b	oond on file (see	:
	3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification							
SUPO must be filed with the appropriate Forest Service Office).			BLM.	specific ini	ormation and/or plans a	s may be r	equired by the	_
25. Signature		Name (Printed/Typed)			Date		_	
(Electronic Submission)		Chance Bland / Ph: (405)228-859			3 	08/24/	2017	_
Title Regulatory Compliance Professional								
Approved by (Signature)		Name	(Printed/Typed)			Date	····	-
(Elect ron ic Submissi on)		Cody Layton / Ph: (575)234-5959				03/09/	2018	_
Title Supervisor Multiple Resources	I	Office CARLSBAD						
Application approval does not warrant or certify that the applicant ho conduct operations thereon. Conditions of approval, if any, are attached.	olds legal	or equi	table title to those righ	ts in the sub	oject lease which would	entitle the a	applicant to	=
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a States any false, fictitious or fraudulent statements or representations a	crime for as to any m	r any pe natter w	erson knowingly and vithin its jurisdiction.	villfully to r	nake to any department	or agency	of the United	_
(Continued on page 2)					*(Inci	truction	on nage 2)	_



INIC OIL CONSERVATION ARTESIA DISTRICT APR 03 2018

INSTRUCTIONS

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

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

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

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

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

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

NOTICES

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

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

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts. ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

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

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

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

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

(Continued on page 3) (Form 3160-3, page 2)

Additional Operator Remarks

Location of Well

1. SHL: SWSE / 50 FSL / 1450 FEL / TWSP: 23S / RANGE: 31E / SECTION: 12 / LAT: 32.3118337 / LONG: -103.7276518 (TVD: 9786 feet, MD: 9786 feet)

PPP: SWSE / 330 FSL / 1450 FEL / TWSP: 23S / RANGE: 31E / SECTION: 12 / LAT: 32.312282 / LONG: -103.728386 (TVD: 10242 feet, MD: 10400 feet)

BHL: NWNE / 290 FNL / 1650 FEL / TWSP: 23S / RANGE: 31E / SECTION: 12 / LAT: 32.3254052 / LONG: -103.728296 (TVD: 10272 feet, MD: 14963 feet)

BLM Point of Contact

Name: Judith Yeager

Title: Legal Instruments Examiner

Phone: 5752345936 Email: jyeager@blm.gov

(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.

(Form 3160-3, page 4)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Devon Energy Production Company LP

LEASE NO.: | NMNM22080

WELL NAME & NO.: | Tomb Raider 12 Fed 213H

SURFACE HOLE FOOTAGE: 50'/S & 1450'/E BOTTOM HOLE FOOTAGE 290'/N & 1650'/E

LOCATION: Section 12, T.23 S., R. 31E., NMPM

COUNTY: | Eddy County, New Mexico

Potash	None	6 Secretary	← R-111-P
Cave/Karst Potential	€ Low	← Medium	← High
Variance	None	Flex Hose	C Other
Wellhead	Conventional	Multibowl ■ Multi	
Other	☐4 String Area	☐Capitan Reef	□WIPP

A. Hydrogen Sulfide

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 Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

- 1. The 13 3/8 inch surface casing shall be set at approximately 843 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours

- after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9 5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash. Excess calculates to 21% additional cement might be required.
- 3. The minimum required fill of cement behind the 5 1/2 inch production easing is:
 - Cement should tie-back at least 500 feet into previous casing string.
 Operator shall provide method of verification. Excess calculates to 21% additional cement might be required.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
- 2. 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 3000 (3M) 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. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

MHH 03052018

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Chaves and Roosevelt Counties
 Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
 During office hours call (575) 627-0272.
 After office hours call (575)
 - Eddy County
 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - ☐ Lea County
 Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

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

A. CASING

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

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

B. PRESSURE CONTROL

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

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

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time.
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. 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.
- g. 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 plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. 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.

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C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

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PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
Devon Energy Production Company LP
NMNM22080
Tomb Raider 12 Fed 213H
50'/S & 1450'/E
290'/N & 1650'/E
Section 12, T.23 S., R. 31E., NMPM
Eddy County, New Mexico

TABLE OF CONTENTS

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

General Provisions	
Permit Expiration	
Archaeology, Paleontology, and Historical Site	S
Noxious Weeds	
Special Requirements	
Lesser Prairie-Chicken Timing Stipulations	
Ground-level Abandoned Well Marker	
Escape Ramps	
Hydrology	
Pipelines	
Tank Battery	
Range	
☐ 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 & Declamation	

I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

IV. NOXIOUS WEEDS

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

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V. SPECIAL REQUIREMENT(S)

The Pad is Build as you go. No grading the whole pad.

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.

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.

Escape Ramps:

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

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

Watershed/Water Quality:

The entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.

- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g. caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.

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- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised. (Any access road crossing the berm cannot be lower than the berm height.)

Tank Battery:

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production. 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.

During construction, Devon shall minimize disturbance to existing fences, water lines, troughs, windmills, and other improvements on public lands. Devon 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 grazing permittee/allottee prior to disturbing any range improvement projects. 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.

VI. CONSTRUCTION

A. NOTIFICATION

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

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

B. TOPSOIL

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

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

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

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

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

F. EXCLOSURE FENCING (CELLARS & PITS)

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Exclosure Fencing

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

G. ON LEASE ACCESS ROADS

Road Width

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

Surfacing

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

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

Turnouts

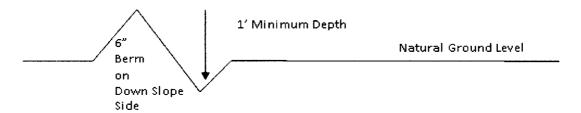
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

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

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

Cross Section of a Typical Lead-off Ditch



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

Formula for Spacing Interval of Lead-off Ditches

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

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

Cattle guards

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

Fence Requirement

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

Public Access

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

Construction Steps

- 1. Salvage topsoil
- 3. Redistribute topsoil
- 2. Construct road 4. Revegetate slopes

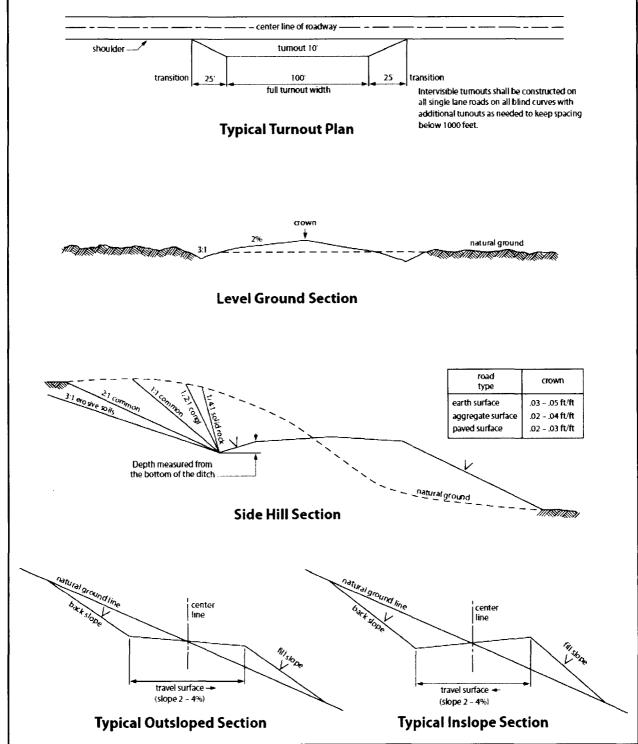


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

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

Exclosure Netting (Open-top Tanks)

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

Chemical and Fuel Secondary Containment and Exclosure Screening

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

Open-Vent Exhaust Stack Exclosures

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

Containment Structures

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

Painting Requirement

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

B. PIPELINES

BURIED PIPELINE STIPULATIONS

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

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

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

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

5. All	construction and maintenance activity will be confined to the authorized right-of-way
	e pipeline will be buried with a minimum cover of 36 inches between the top of ground level.
7. The	e 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 $\underline{20}$ feet. The trench is included in this area. (Black is defined as the complete removal of brush and ground vegetation.)
•	Clearing of brush species within the right-of-way will be allowed: maximum width clearing operations will not exceed <u>30</u> feet. The trench and bladed area are included this area. (Clearing is defined as the removal of brush while leaving ground vegeta (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to inches above the ground surface.)
•	The remaining area of the right-of-way (if any) shall only be disturbed by compressit the vegetation. (Compressing can be caused by vehicle tires, placement of equipment etc.)
topsoil from c	e holder shall stockpile an adequate amount of topsoil where blading is allowed. The to be stripped is approximately6 inches in depth. The topsoil will be segregate ther spoil piles from trench construction. The topsoil will be evenly distributed over the area for the preparation of seeding.
lands. Functi owner line, th	The holder is required to promptly repair improvements to at least their former state. onal use of these improvements will be maintained at all times. The holder will contain of any improvements prior to disturbing them. When necessary to pass through a fence fence shall be braced on both sides of the passageway prior to cutting of the fence. nent gates will be allowed unless approved by the Authorized Officer.
randor otherw match	egetation, soil, and rocks left as a result of construction or maintenance activity will be only scattered on this right-of-way and will not be left in rows, piles, or berms, unless vise approved by the Authorized Officer. The entire right-of-way shall be recontoured the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm over the ditch line to allow for settling back to grade.
holder	those areas where erosion control structures are required to stabilize soil conditions, to will install such structures as are suitable for the specific soil conditions being encounted are in accordance with sound resource management practices.

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	eseed all disturbed areas. So using the following seed r		ding will be done according to the attached c.
() se	eed mixture 1	() seed mixture 3
() se	eed mixture 2) seed mixture 4
(X) se	eed mixture 2/LPC	() Aplomado Falcon Mixture
to blend with the natur	ral color of the landscape.	Tł	ty requirements shall be painted by the holder ne paint used shall be color which simulates Munsell Soil Color No. 5Y 4/2.
way and at all road ero number, and the produ	ossings. At a minimum, sinct being transported. All	gns sig	point of origin and completion of the right-of- s will state the holder's name, BLM serial and information thereon will be posted in a ained in a legible condition for the life of the
maintenance as determ before maintenance be pipeline route is not us	nined necessary by the Autegins. The holder will take sed as a roadway. As deter	tho e w rm	road for purposes other than routine orized Officer in consultation with the holder chatever steps are necessary to ensure that the ined necessary during the life of the pipeline, ruct temporary deterrence structures.
discovered by the hold immediately reported immediate area of such Authorized Officer. A determine appropriate holder will be respons	der, or any person working to the Authorized Officer. It discovery until written at an evaluation of the discovery actions to prevent the loss ible for the cost of evaluation.	on Huth very of ion	(historic or prehistoric site or object) In his behalf, on public or Federal land shall be older shall suspend all operations in the corization to proceed is issued by the y will be made by the Authorized Officer to a significant cultural or scientific values. The is and any decision as to proper mitigation of the consulting with the holder.
of operations. Weed co which includes associate of weeds due to this ac	ontrol shall be required on ated roads, pipeline corrido ction. The operator shall co	the or a	us weeds become established within the areas e disturbed land where noxious weeds exist, and adjacent land affected by the establishment oult with the Authorized Officer for acceptable A and BLM requirements and policies.
otherwise fenced, scre	ened, or netted to prevent	liv	d maintain pipeline/utility trenches that are not estock, wildlife, and humans from becoming uct and maintain escape ramps, ladders, or

other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

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

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A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.
- 5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

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

- 6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.
- 8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply

with those abandonment procedures as prescribed by the Authorized Officer.

- 9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
- 10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

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

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

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

VIII. INTERIM RECLAMATION

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

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

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

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

All disturbed areas after they have been satisfactorily prepared need to be 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).

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.

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Seed Mixture for LPC Sand/Shinnery Sites

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

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

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

Species	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

^{*}Pounds of pure live seed:

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

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
Devon Energy Production Company LP
NMNM22080
Tomb Raider 12 Fed 213H
50'/S & 1450'/E
290'/N & 1650'/E
Section 12, T.23 S., R. 31E., NMPM
Eddy County, New Mexico

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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.

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Electric Lines
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Final Abandonment & Declaration

I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

IV. NOXIOUS WEEDS

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

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V. SPECIAL REQUIREMENT(S)

The Pad is Build as you go. No grading the whole pad.

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.

<u>Ground-level Abandoned Well Marker to avoid raptor perching</u>: 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.

Escape Ramps:

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

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

Watershed/Water Quality:

The entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.

- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g. caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.

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- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised. (Any access road crossing the berm cannot be lower than the berm height.)

Tank Battery:

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production. 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.

During construction, Devon shall minimize disturbance to existing fences, water lines, troughs, windmills, and other improvements on public lands. Devon 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 grazing permittee/allottee prior to disturbing any range improvement projects. 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.

VI. CONSTRUCTION

A. NOTIFICATION

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

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

B. TOPSOIL

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

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

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

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

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

F. EXCLOSURE FENCING (CELLARS & PITS)

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Exclosure Fencing

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

G. ON LEASE ACCESS ROADS

Road Width

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

Surfacing

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

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

Turnouts

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

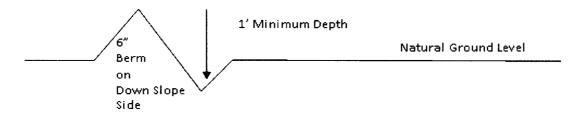
Drainage

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

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

Cross Section of a Typical Lead-off Ditch



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

Formula for Spacing Interval of Lead-off Ditches

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

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

Cattle guards

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

Fence Requirement

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

Public Access

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

Construction Steps

- 1. Salvage topsoil 2. Construct road
- 3. Redistribute topsoil4. Revegetate slopes
- center line of roadway shoulder tumout 10 transition transition 100 full turnout width Intervisible tumouts shall be constructed on all single lane roads on all blind curves with additional tunouts as needed to keep spacing below 1000 feet. **Typical Turnout Plan** gown natural ground **Level Ground Section** road CTOWN type earth surface .03 - .05 ft/ft .02 - .04 ft/ft aggregate surface paved surface .02 - .03 ft/ft Depth measured from the bottom of the ditch **Side Hill Section** center center travel surface -travel surface 🗢 (slope 2 - 4%) (slope 2 - 4%) **Typical Outsloped Section Typical Inslope Section**

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

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

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

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

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

Open-Vent Exhaust Stack Exclosures

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

Containment Structures

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

Painting Requirement

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

B. PIPELINES

BURIED PIPELINE STIPULATIONS

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

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

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

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

5. All	construction and maintenance activity will be confined to the authorized right-of-way.
	e pipeline will be buried with a minimum cover of 36 inches between the top of the and ground level.
7. The	e maximum allowable disturbance for construction in this right-of-way will be 30 feet:
•	Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed $\underline{20}$ feet. The trench is included in this area. (Blading is defined as the complete removal of brush and ground vegetation.)
•	Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed <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.)
topsoil from o	e holder shall stockpile an adequate amount of topsoil where blading is allowed. The to be stripped is approximately6 inches in depth. The topsoil will be segregated ther spoil piles from trench construction. The topsoil will be evenly distributed over the area for the preparation of seeding.
lands. Functi owner line, th	c holder shall minimize disturbance to existing fences and other improvements on public. The holder is required to promptly repair improvements to at least their former state, on all use of these improvements will be maintained at all times. The holder will contact the of any improvements prior to disturbing them. When necessary to pass through a fence he fence shall be braced on both sides of the passageway prior to cutting of the fence. No nent gates will be allowed unless approved by the Authorized Officer.
randor otherw match	egetation, soil, and rocks left as a result of construction or maintenance activity will be nly scattered on this right-of-way and will not be left in rows, piles, or berms, unless vise approved by the Authorized Officer. The entire right-of-way shall be recontoured to the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will over the ditch line to allow for settling back to grade.
holder	those areas where erosion control structures are required to stabilize soil conditions, the will install such structures as are suitable for the specific soil conditions being encountered sich are in accordance with sound resource management practices.

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	will reseed all disturbed areas. Sments, using the following seed in	Seeding will be done according to the attached nix.
	() seed mixture 1	() seed mixture 3
	() seed mixture 2	() seed mixture 4
	(X) seed mixture 2/LPC	() Aplomado Falcon Mixture
to blend with the	e natural color of the landscape.	afety requirements shall be painted by the holder The paint used shall be color which simulates n , Munsell Soil Color No. 5Y 4/2.
way and at all ro number, and the	oad crossings. At a minimum, si e product being transported. All	the point of origin and completion of the right-of- gns will state the holder's name, BLM serial signs and information thereon will be posted in a intained in a legible condition for the life of the
maintenance as before maintena pipeline route is	determined necessary by the Au ince begins. The holder will take s not used as a roadway. As dete	s a road for purposes other than routine thorized Officer in consultation with the holder whatever steps are necessary to ensure that the rmined necessary during the life of the pipeline, instruct temporary deterrence structures.
discovered by the immediately reprimediate area. Authorized Offi determine appropriate the control of the contr	ne holder, or any person working ported to the Authorized Officer. of such discovery until written a cer. An evaluation of the discovery opriate actions to prevent the loss esponsible for the cost of evaluat	es (historic or prehistoric site or object) on his behalf, on public or Federal land shall be Holder shall suspend all operations in the uthorization to proceed is issued by the tery will be made by the Authorized Officer to of significant cultural or scientific values. The ion and any decision as to proper mitigation or after consulting with the holder.
of operations. W which includes a of weeds due to	Veed control shall be required on associated roads, pipeline corride this action. The operator shall co	tious weeds become established within the areas the disturbed land where noxious weeds exist, or and adjacent land affected by the establishment onsult with the Authorized Officer for acceptable EPA and BLM requirements and policies.
otherwise fence	d, screened, or netted to prevent	and maintain pipeline/utility trenches that are not livestock, wildlife, and humans from becoming struct and maintain escape ramps, ladders, or

other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

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

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A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.
- 5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

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

- 6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.
- 8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply

with those abandonment procedures as prescribed by the Authorized Officer.

- 9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
- 10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

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

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

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

VIII. INTERIM RECLAMATION

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

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

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

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

All disturbed areas after they have been satisfactorily prepared need to be 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).

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.

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Seed Mixture for LPC Sand/Shinnery Sites

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

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

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

Species	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

^{*}Pounds of pure live seed:

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



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



Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Chance Bland Signed on: 08/24/2017

Title: Regulatory Compliance Professional

Street Address: 333 West Sheridan Avenue

City: Oklahoma City State: OK Zip: 73102

Phone: (405)228-8593

Email address: Chance.Bland@dvn.com

Field Representative

Representative Name: Ray Vaz

Street Address: 6488 Seven Rivers Hwy

City: Artesia State: NM Zip: 88210

Phone: (575)748-1871

Email address: ray.vaz@dvn.com



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

Well Name: TOMB RAIDER 12 FED



APD ID: 10400020785 **Submission Date:** 08/24/2017

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Number: 213H

Zip: 73102

Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - General

BLM Office: CARLSBAD User: Chance Bland Title: Regulatory Compliance

Lease number: NMNM22080 Lease Acres: 1280

Surface access agreement in place? Allotted? Reservation:

Agreement in place? NO Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

Permitting Agent? NO APD Operator: DEVON ENERGY PRODUCTION COMPANY LP

Operator letter of designation:

Operator Info

Operator Organization Name: DEVON ENERGY PRODUCTION COMPANY LP

Operator Address: 333 West Sheridan Avenue

Operator PO Box:

Operator City: Oklahoma City State: OK

Operator Phone: (405)552-6571

Operator Internet Address: aletha.dewbre@dvn.com

Section 2 - Well Information

Well in Master Development Plan? NO Mater Development Plan name:

Well in Master SUPO? NO Master SUPO name:

Well in Master Drilling Plan? NO Master Drilling Plan name:

Well Name: TOMB RAIDER 12 FED Well Number: 213H Well API Number:

Field/Pool or Exploratory? Field and Pool Field Name: LIVINGSTON Pool Name: BONESPRING

RIDGE

Well Name: TOMB RAIDER 12 FED Well Number: 213H

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

Describe other minerals:

Is the proposed well in a Helium production area? N Use Existing Well Pad? YES New surface disturbance? Y

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: TOMB Number: 1

Well Class: HORIZONTAL

RAIDER 13 CTB
Number of Legs: 1

Well Work Type: Drill Well Type: OIL WELL Describe Well Type:

Well sub-Type: APPRAISAL

Describe sub-type:

Distance to town:

Distance to nearest well: 490 FT

Distance to lease line: 50 FT

Reservoir well spacing assigned acres Measurement: 160 Acres

Well plat:

Tomb_Raider_12_Fed_213H_C_102_Signed_08-24-2017.pdf

Well work start Date: 04/29/2018

Duration: 45 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

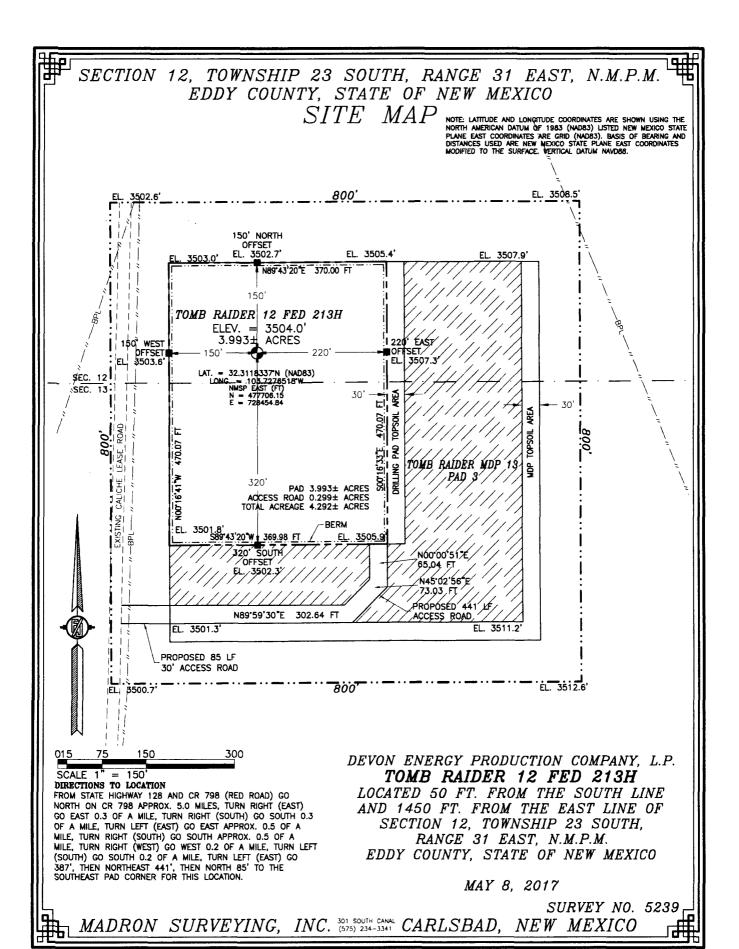
Describe Survey Type:

Datum: NAD83

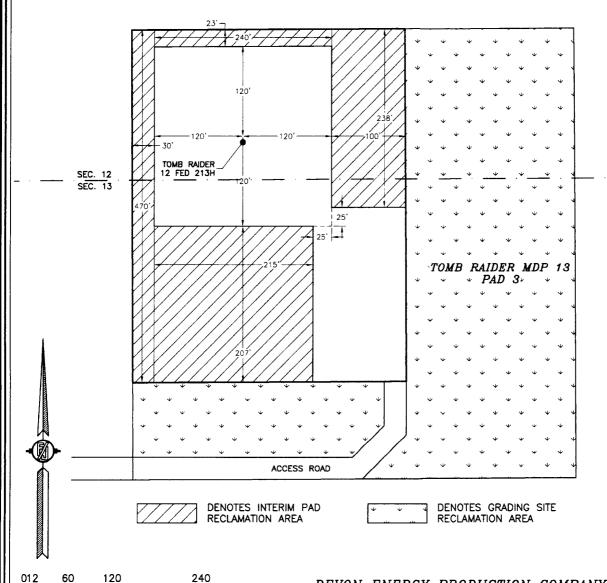
Vertical Datum: NAVD88

Survey number: 5239

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	50	FSL	145 0	FEL	23S	31E	12	Aliquot SWSE	32.31183 37	- 103.7276 518	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 22080	350 4	l	978 6
KOP Leg #1	50	FSL	145 0	FEL	23S	31E	12	Aliquot SWSE	32.31183 37	- 103.7276 518	EDD Y	NEW MEXI CO	14-44	F	NMNM 22080	350 4	979 4	978 6
PPP Leg #1	330	FSL	145 0	FEL	238	31E	12	Aliquot SWSE	32.31228 2	- 103.7283 86	EDD Y	NEW MEXI CO	,,_,,	F	NMNM 22080	- 673 8	104 00	102 42







2.016± ACRES INTERIM PAD RECLAMATION AREA 3.977± ACRES GRADING SITE RECLAMATION AREA 2.273± ACRES NON-RECLAIMED AREA 8.266± ACRES TOMB RAIDER MDP 13 PAD 3

DEVON ENERGY PRODUCTION COMPANY, L.P.

TOMB RAIDER 12 FED 213H

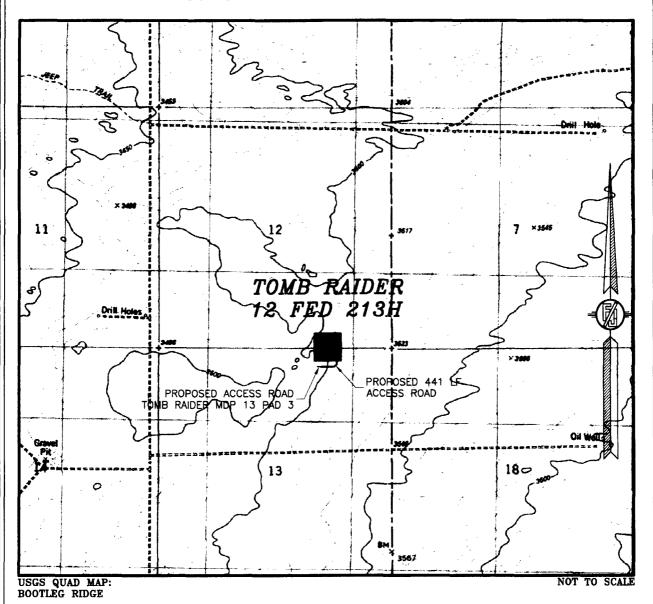
LOCATED 50 FT. FROM THE SOUTH LINE
AND 1450 FT. FROM THE EAST LINE OF
SECTION 12, TOWNSHIP 23 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MAY 8, 2017

SURVEY NO. 5239

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

SECTION 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO LOCATION VERIFICATION MAP



DEVON ENERGY PRODUCTION COMPANY, L.P.

TOMB RAIDER 12 FED 213H

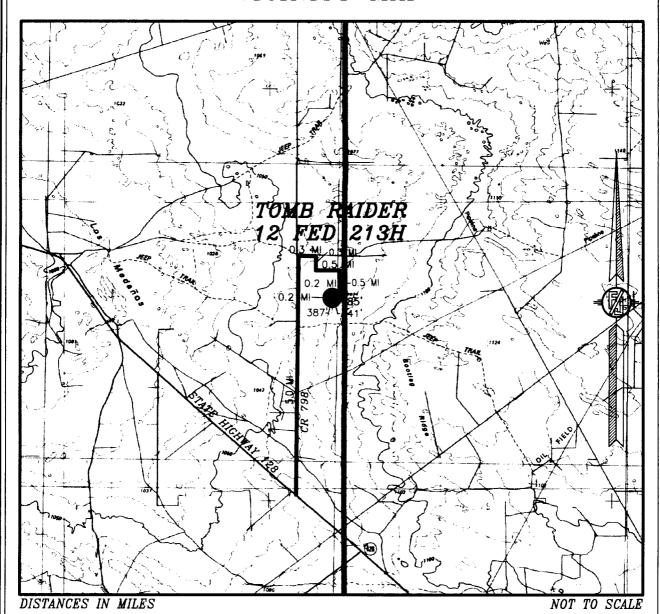
LOCATED 50 FT. FROM THE SOUTH LINE
AND 1450 FT. FROM THE EAST LINE OF
SECTION 12, TOWNSHIP 23 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MAY 8, 2017

SURVEY NO. 5239

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

SECTION 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO VICINITY MAP



DEVON ENERGY PRODUCTION COMPANY, L.P. TOMB RAIDER 12 FED 213H

LOCATED 50 FT. FROM THE SOUTH LINE AND 1450 FT. FROM THE EAST LINE OF SECTION 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

MAY 8, 2017

SURVEY NO. 5239 MADRON SURVEYING, INC. 501 SOUTH CAMAL CARLSBAD, NEW MEXICO

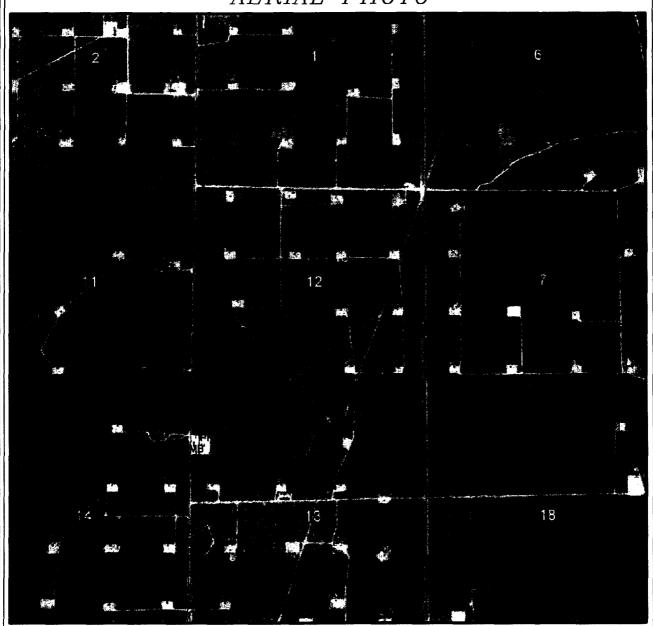
DIRECTIONS TO LOCATION

FROM STATE HIGHWAY 128 AND CR 798 (RED ROAD) GO NORTH ON CR 798 APPROX. 5.0 MILES, TURN RIGHT (EAST)

OF A MILE, TURN RIGHT (SOUTH) GO SOUTH 0.3

OF A MILE, TURN LEFT (EAST) GO EAST APPROX. 0.5 OF A
MILE, TURN RIGHT (SOUTH) GO SOUTH APPROX. 0.5 OF A
MILE, TURN RIGHT (WEST) GO WEST 0.2 OF A MILE, TURN RIGHT (WEST) GO WEST 0.2 OF A MILE, TURN LEFT
(SOUTH) GO SOUTH 0.2 OF A MILE, TURN LEFT (EAST) GO
387'. THEN NORTHEAST 441', THEN NORTH 85' TO THE
SOUTHEAST PAD CORNER FOR THIS LOCATION.

SECTION 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO AERIAL PHOTO



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH FEBRUARY 2017

DEVON ENERGY PRODUCTION COMPANY, L.P. TOMB RAIDER 12 FED 213H

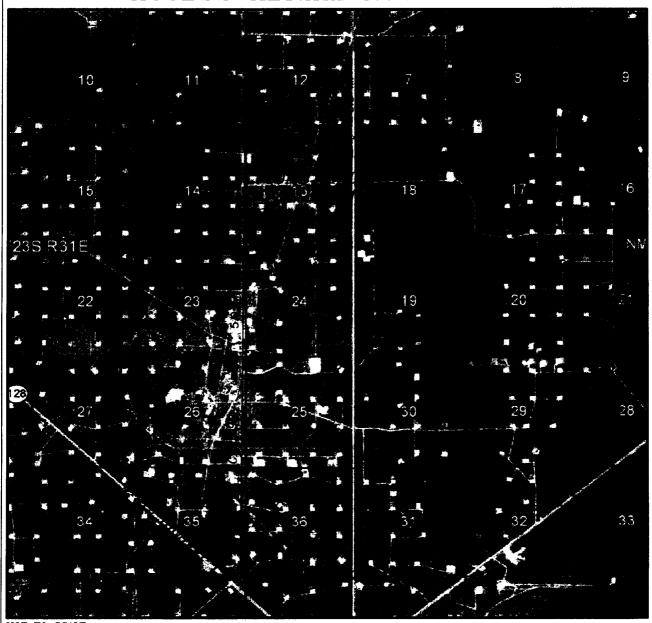
LOCATED 50 FT. FROM THE SOUTH LINE AND 1450 FT. FROM THE EAST LINE OF SECTION 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

MAY 8, 2017

SURVEY NO. 5239

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

SECTION 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO ACCESS AERIAL ROUTE MAP



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH FEBRUARY 2017

DEVON ENERGY PRODUCTION COMPANY, L.P.

TOMB RAIDER 12 FED 213H

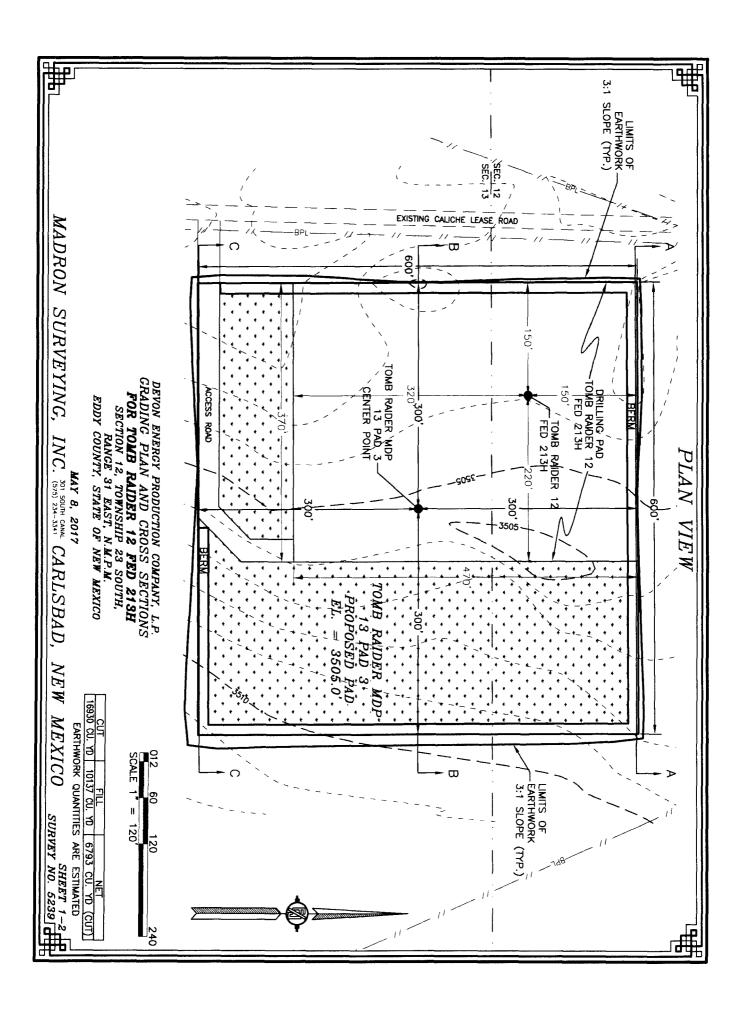
LOCATED 50 FT. FROM THE SOUTH LINE
AND 1450 FT. FROM THE EAST LINE OF

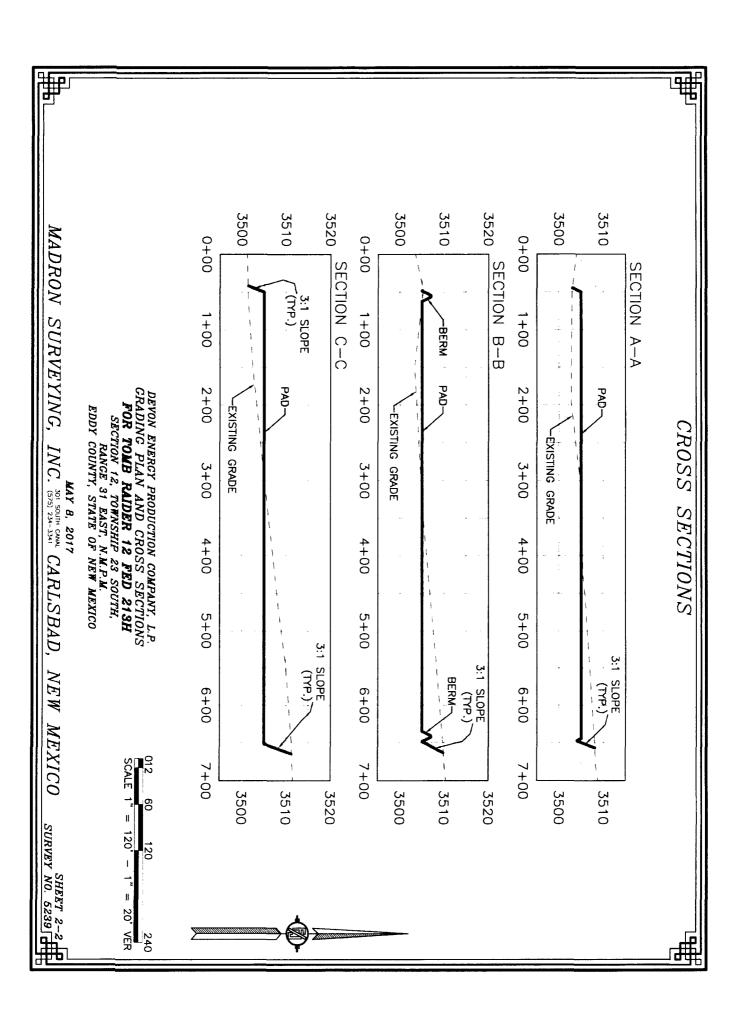
SECTION 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

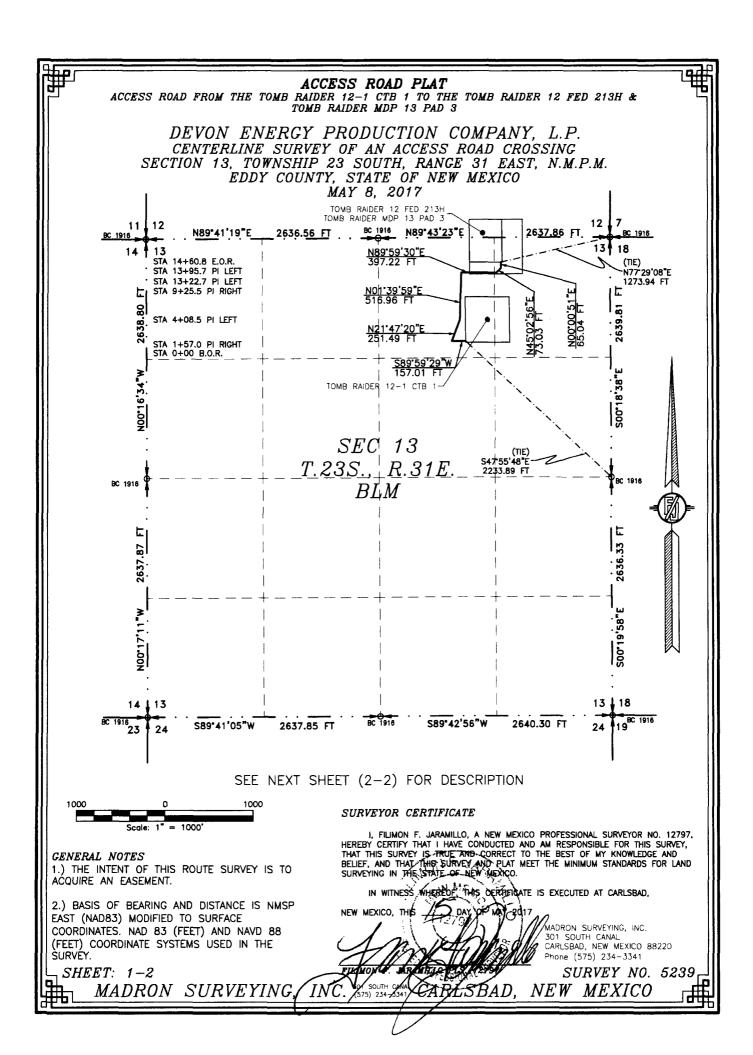
MAY 8, 2017

SURVEY NO. 5239

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO







ACCESS ROAD PLAT

ACCESS ROAD FROM THE TOMB RAIDER 12-1 CTB 1 TO THE TOMB RAIDER 12 FED 213H & TOMB RAIDER MDP 13 PAD 3

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MAY 8, 2017

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NW/4 NE/4 OF SAID SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE EAST QUARTER CORNER OF SAID SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS S47'55'48"E, A DISTANCE OF 2233.89 FEFT:

THENCE 889'59'29"W A DISTANCE OF 157.01 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N21'47'20"E A DISTANCE OF 251.49 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N01'39'59"E A DISTANCE OF 516.96 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N89'59'30"E A DISTANCE OF 397.22 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N45'02'56"E A DISTANCE OF 73.03 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE N45'02'56"E A DISTANCE OF 73.03 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N00'00'51"E A DISTANCE OF 65.04 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHEAST CORNER OF
SAID SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N77'29'08"E, A DISTANCE OF 1273.94 FEET;

SAID STRIP OF LAND BEING 1460.75 FEET OR BB.53 RODS IN LENGTH, CONTAINING 1.006 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NE/4 1301.18 L.F. 78.86 RODS 0.896 ACRES NE/4 NE/4 159.57 L.F. 9.67 RODS 0.110 ACRES

SURVEYOR CERTIFICATE

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 2-2

MADRON SURVEYING,

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEXICO.

SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF HIS CERTIFICATE IS EXECUTED AT CARLSBAD,

CARLSBAD

NEW MEXICO, THIS

MADRON SURVEYING, INC 201 SOUTH CANAL CARLSBAD, NEW MEXICO 8822D Phone (575) 234-3341

SURVEY NO. 5239

NEW MEXICO



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

Well Name: TOMB RAIDER 12 FED

Drilling Plan Data Report 03/13/2018

APD ID: 10400020785 Submission Date: 08/24/2017

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Number: 213H

recent changes

<u>Show Final Text</u>

Highlighted data reflects the most

Well Type: OIL WELL Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1		3357.5	Ö	0	OTHER : Surface	NONE	No
2	RUSTLER	2539.5	818	818	SANDSTONE	NONE	No
3	BASE OF SALT	-1155.5	4513	4513	SALT	NONE	No
4	DELAWARE	-1155.5	4513	4513	SANDSTONE	NATURAL GAS,OIL	No
5	BONE SPRING	-5048.5	8406	8406	SANDSTONE	NATURAL GAS,OIL	No
6	BONE SPRING 2ND	-6690.5	10048	10048	SANDSTONE	NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M

Equipment: BOP/BOPE will be installed per Onshore Oil & Disamp; amp; Gas Order #2 requirements prior to drilling below 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the wellhead system. BOP/BOPE will be tested by an independent service company per Onshore Oil & Disamp; Gas Order #2 requirements and MASP (Maximum Anticipated Surface Pressure) calculations. If the system is upgraded, all the components installed will be functional and tested.

Rating Depth: 4311

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP stack to the choke manifold. See attached for specs for hydrostatic test chart.

Testing Procedure: A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

Choke Diagram Attachment:

Tomb_Raider_12_Fed_213H_3M_BOPE_CK_08-24-2017.pdf

BOP Diagram Attachment:

Tomb Raider 12 Fed 213H 3M BOPE CK 08-24-2017.pdf

Well Name: TOMB RAIDER 12 FED Well Number: 213H

Pressure Rating (PSI): 3M Rating Depth: 10272

Equipment: BOP/BOPE will be installed per Onshore Oil & Dil & Order #2 requirements prior to drilling below 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the wellhead system. BOP/BOPE will be tested by an independent service company per Onshore Oil & Dil & Order #2 requirements and MASP (Maximum Anticipated Surface Pressure) calculations. If the system is upgraded, all the components installed will be functional and tested.

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP stack to the choke manifold. See attached for specs for hydrostatic test chart.

Testing Procedure: A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

Choke Diagram Attachment:

Tomb_Raider_12_Fed_213H_3M_BOPE_CK_08-24-2017.pdf

BOP Diagram Attachment:

Tomb_Raider_12_Fed_213H_3M_BOPE_CK_08-24-2017.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	843	0	843	-6768	-7557	843	H-40	48	STC	1.4	3.15	BUOY	14.2 7	BUOY	14.2 7
1	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	4311	0	4311	-6768	- 11036	4311	J-55		OTHER - BTC	1.15	1.77	BUOY	4.1	BUOY	4.1
1 -	PRODUCTI ON	8.75	5.5	NEW	API	N	0	15003	0	10272	-6768	- 16768	15003	P- 110	I	OTHER - BTC	1.45	2.07	BUOY	2.48	BUOY	2.48

Casing Attachments

Casing Attachments Casing ID: 1 String Type: SURFACE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): Tomb_Raider_12_Fed_213H_Surf_Csg_Ass_08-24-2017.pdf Casing ID: 2 String Type: INTERMEDIATE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): Tomb_Raider_12_Fed_213H_Int_Csg_Ass_08-24-2017.pdf Casing ID: 3 String Type: PRODUCTION **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): Tomb_Raider_12_Fed_213H_Prod_Csg_Ass_08-24-2017.pdf

Well Number: 213H

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: TOMB RAIDER 12 FED

Section 4 - Cement

Well Name: TOMB RAIDER 12 FED Well Number: 213H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	843	659	1.33	14.8	876	50	С	0.125 lbs/sack Poly-F- Flake

INTERMEDIATE	Lead	0	3311	712	1.85	12.9	1316	30	С	(65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sks Poly-E-Flake
INTERMEDIATE	Tail	3311	4311	306	1.33	14.8	407	30	С	0.125 lbs/sack Poly-F- Flake
PRODUCTION	Lead	4111	1040 0	605	3.27	9	1980	25	TUNED	Tuned light
PRODUCTION	Tail	1040	1500 3	996	1.46	13.2	1453	25	Н	(50:50) Clas H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

Circulating Medium Table

Well Name: TOMB RAIDER 12 FED Well Number: 213H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	843	WATER-BASED MUD	8.5	9				2			
843	4311	SALT SATURATED	10	11				2			
4311	1500 3	WATER-BASED MUD	8.5	9.3							

Section 6 - Test, Logging, Coring

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

Will run GRMWD from TD to from KOP. Cement bond logs will be run in vertical to determine top of cement. Stated logs run will be in the completion report and submitted to the BLM.

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

CALIPER, CBL, DS, GR, MUDLOG

Coring operation description for the well:

N/A

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4968

Anticipated Surface Pressure: 2708.16

Anticipated Bottom Hole Temperature(F): 160

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Tomb_Raider_12_Fed_213H_H2S_Plan_08-24-2017.pdf

Well Name: TOMB RAIDER 12 FED Well Number: 213H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Tomb_Raider_12_Fed_213H_Dir_Pln_08-24-2017.pdf

Other proposed operations facets description:

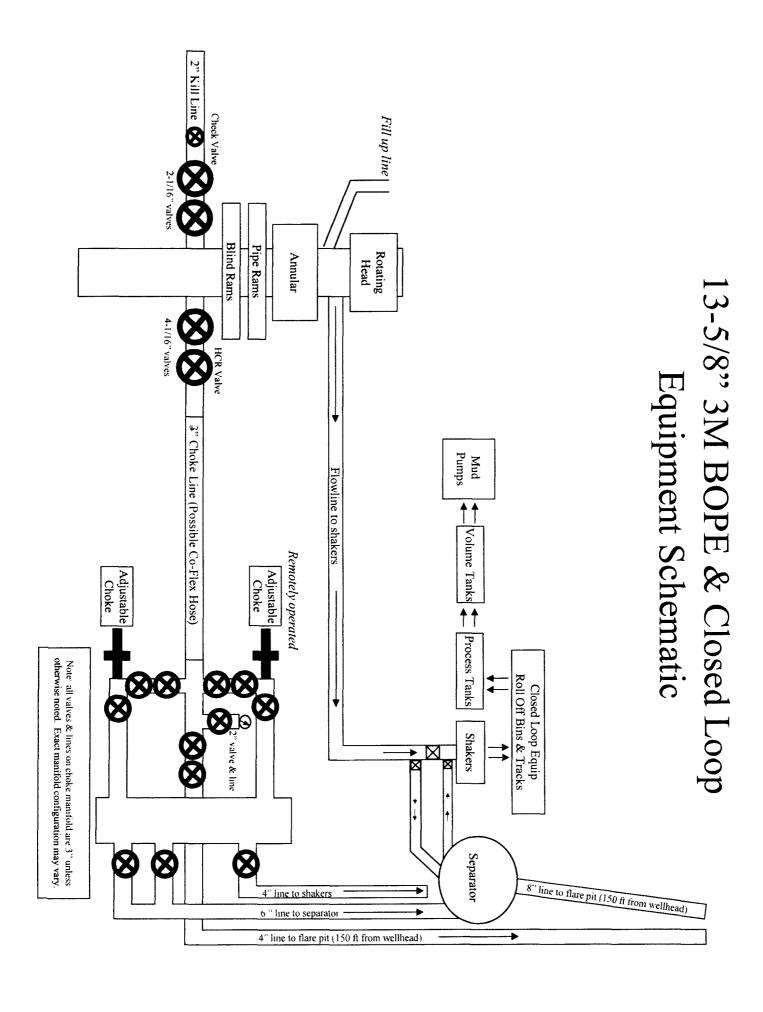
Multi-Bowl Verbiage Multi-Bowl Wellhead Closed-Loop Design Plan

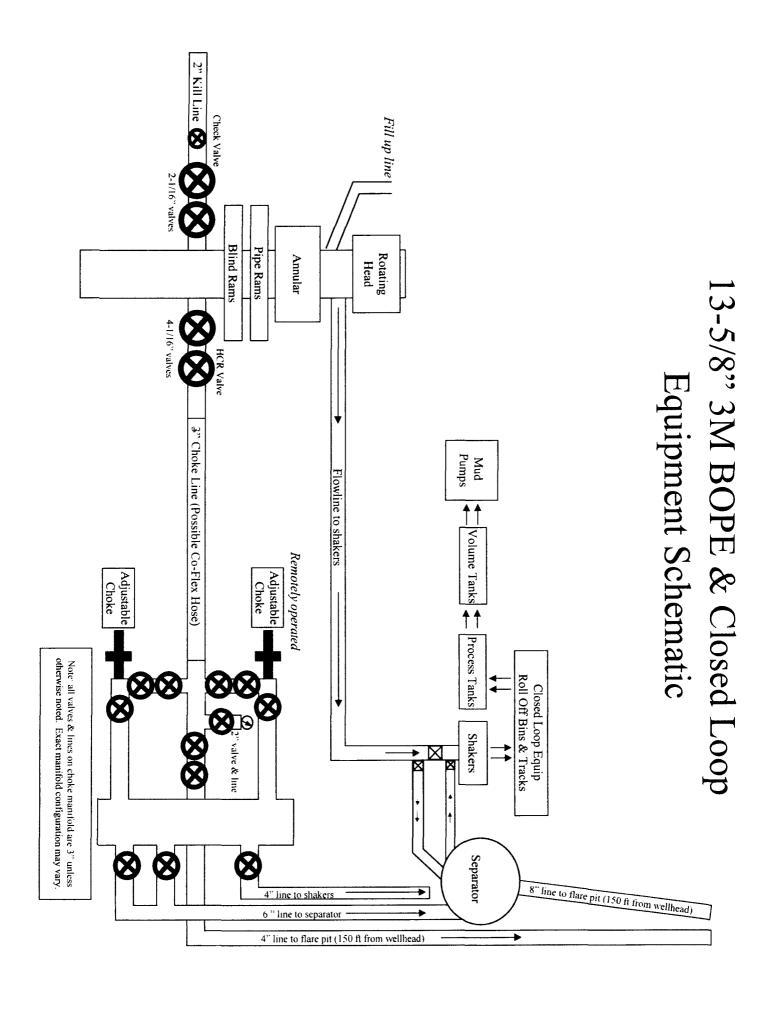
Other proposed operations facets attachment:

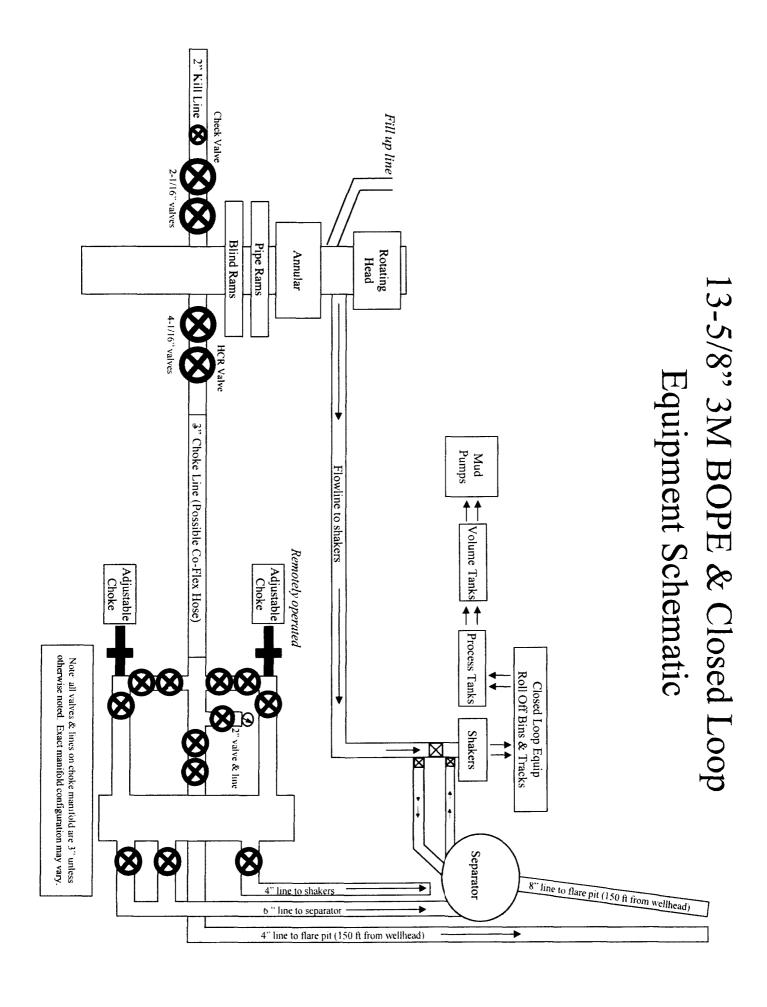
Tomb_Raider_12_Fed_213H_MB_Verb_08-24-2017.pdf
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Tomb_Raider_12_Fed_213H_Clsd_Loop_08-24-2017.pdf

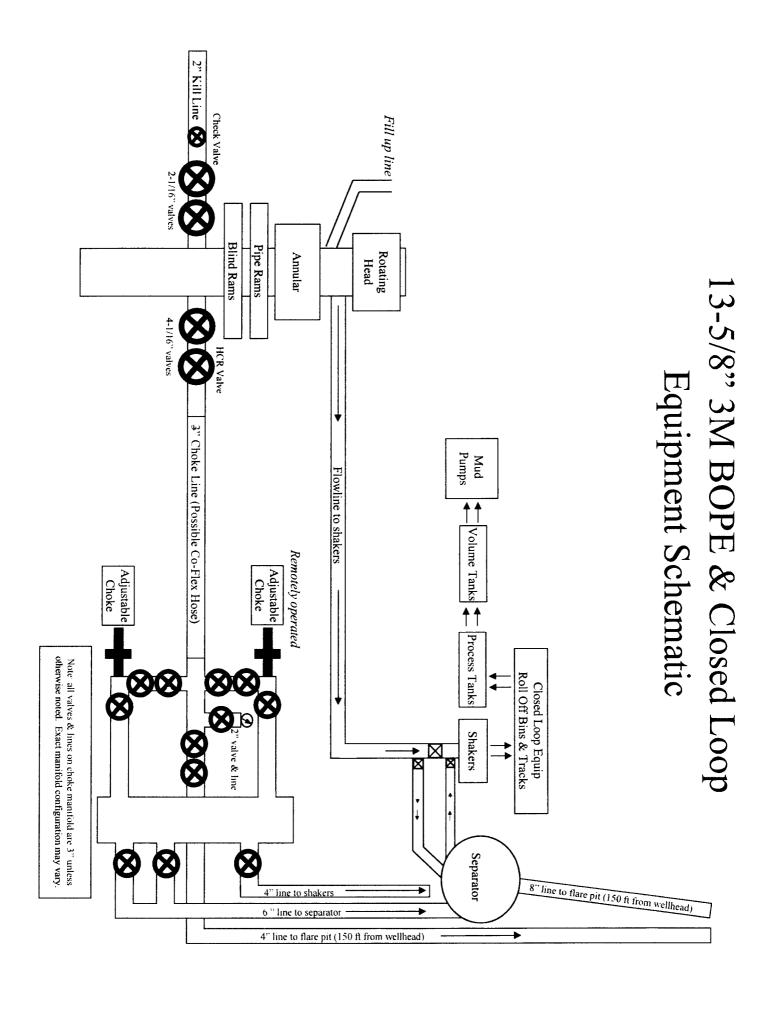
Other Variance attachment:

Tomb_Raider_12_Fed_213H_Co_flex_08-24-2017.pdf









Surface

All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

Surface Casing Burst Design							
Load Case	External Pressure	Internal Pressure					
Pressure Test	Formation Pore Pressure	Max mud weight of next hole- section plus Test psi					
Drill Ahead	Formation Pore Pressure	Max mud weight of next hole section					
Displace to Gas	Formation Pore Pressure	Dry gas from next casing point					

	Surface Casing Collapse Design							
Load Case External Pressure Internal Pressure								
Full Evacuation	Water gradient in cement, mud above TOC	None						
Cementing	Wet cement weight	Water (8.33ppg)						

Surfac	Surface Casing Tension Design							
Load Case Assumptions								
Overpull	100kips							
Runing in hole	3 ft/s							
Service Loads	N/A							

Intermediate

All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

Intermediate Casing Burst Design			
Load Case	External Pressure	Internal Pressure	
Pressure Test	Formation Pore Pressure	Max mud weight of next hole- section plus Test psi	
Drill Ahead	Formation Pore Pressure	Max mud weight of next hole section	
Fracture @ Shoe	Formation Pore Pressure	Dry gas	

Intermediate Casing Collapse Design			
Load Case	External Pressure	Internal Pressure	
Full Evacuation	Water gradient in cement, mud above TOC	None	
Cementing	Wet cement weight	Water (8.33ppg)	

Intermediate Casing Tension Design		
Load Case	Assumptions	
Overpull	100kips	
Runing in hole	2 ft/s	
Service Loads	N/A	

All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

Production Casing Burst Design						
Load Case	External Pressure	Internal Pressure				
Pressure Test	Formation Pore Pressure	Fluid in hole (water or produced water) + test psi				
Tubing Leak	Formation Pore Pressure	Packer @ KOP, leak below surface 8.6 ppg packer fluid				
Stimulation	Formation Pore Pressure	Max frac pressure with heaviest frac fluid				

Production Casing Collapse Design							
Load Case	External Pressure	Internal Pressure					
Full Evacuation	Water gradient in cement, mud above TOC.	None					
Cementing	Wet cement weight	Water (8.33ppg)					

Production Casing Tension Design						
Load Case	Assumptions					
Overpull	100kips					
Runing in hole	2 ft/s					
Service Loads	N/A					



Devon Energy Center 333 West Sheridan Avenue Oklahoma City, Oklahoma 73102-5015

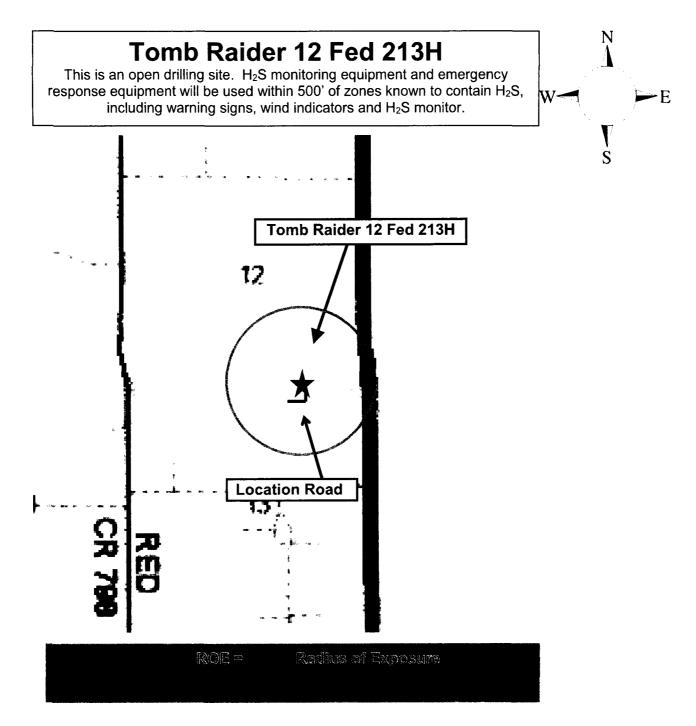
Hydrogen Sulfide (H₂S) Contingency Plan

For

Tomb Raider 12 Fed 213H

Sec-12 T-23S R-31E 50 FSL & 1450' FEL LAT. = 32.3118337' N (NAD83) LONG = 103.7276518' W

Eddy County NM



Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road. Crews should then block the entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. There are no homes or buildings in or near the ROE.

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

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

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

Ignition of Gas Source

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

Characteristics of H₂S and SO₂

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

Contacting Authorities

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with

the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- 1. The hazards and characteristics of hydrogen sulfide (H₂S)
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- 4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H₂S metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- 3. The contents and requirements of the H₂S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan.

II. HYDROGEN SULFIDE TRAINING

Note: All H_2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H_2S .

1. Well Control Equipment

- A. Flare line
- B. Choke manifold Remotely Operated
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment may include if applicable: annular preventer and rotating head.
- E. Mud/Gas Separator

2. Protective equipment for essential personnel:

30-minute SCBA units located at briefing areas, as indicated on well site diagram, with one escape unit available in the top doghouse. As it may be difficult to communicate audibly while wearing these units, hand signals shall be utilized.

3. H₂S detection and monitoring equipment:

Portable H₂S monitors positioned on location for best coverage and response. These units have warning lights which activate when H₂S levels reach 10 ppm and audible sirens which activate at 10 ppm. Sensor locations:

Bell nipple

Shale shaker

Trip tank

Suction pit

Rig floor

Cellar

Choke manifold

Living Quarters (usually the company man's trailer stairs.)

Visual warning systems:

- A. Wind direction indicators as shown on well site diagram
- B. Caution/ Danger signs shall be posted on roads providing direct access to locations. Signs will be painted a high visibility yellow with black lettering of sufficient size to be reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

4. Mud program:

The mud program has been designed to minimize the volume of H₂S circulated to surface. Proper mud weight, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.

5. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H₂S trim.
- B. All elastomers used for packing and seals shall be H₂S trim.

6. Communication:

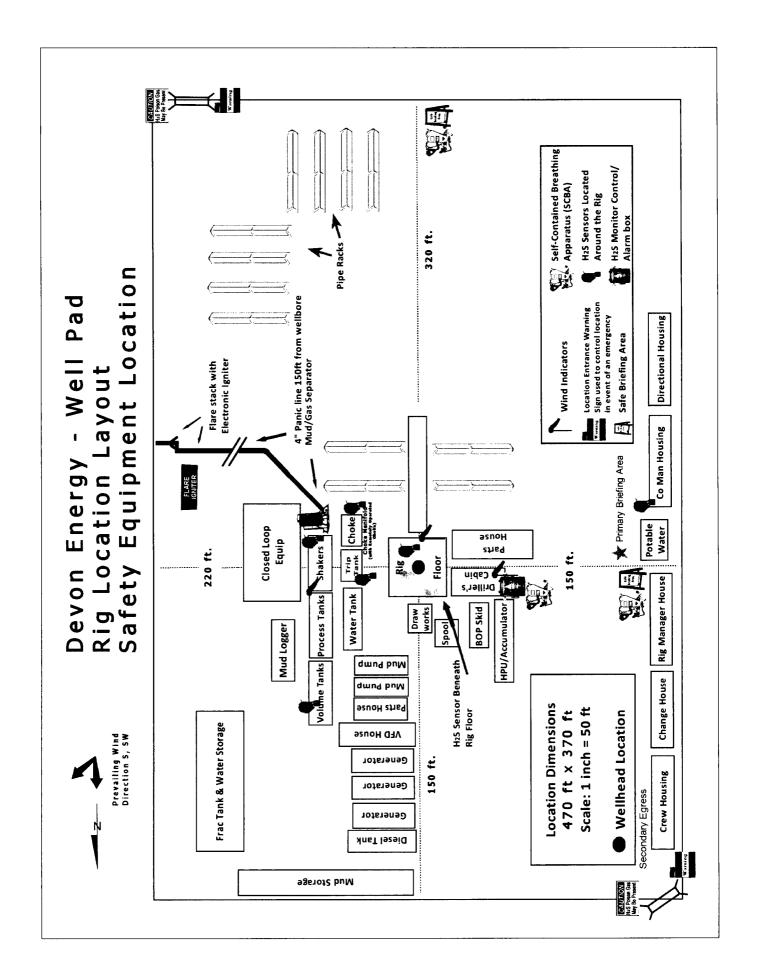
- A. Company personnel have/use cellular telephones in the field.
- B. Land line (telephone) communications at Office

7. Well testing:

A. There will be no drill stem testing.

Drillina Su	pervisor – Basin – Mark Kramer		405-823-479
	rry Matthews - Day: 575-748-0161 Cell: 57	5-748-5234	
	essional – Jason Robison		405-541-284
Agency	Call List		
Lea	Hobbs		
County	Lea County Communication Authority		393-398
(575)	State Police		392-558
	City Police		397-926
	Sheriff's Office	-	393-251
	Ambulance		91
	Fire Department		397-930
	LEPC (Local Emergency Planning Commit	tee)	393-287
	NMOCD		393-616
	US Bureau of Land Management		393-361
	3		
Eddy	Carlsbad	<u></u>	
County	State Police		885-313
<u>(575)</u>	City Police		885-211
	Sheriff's Office		887-755
	Ambulance		9 1 885-312
	Fire Department LEPC (Local Emergency Planning Commit	+00)	887-379
	US Bureau of Land Management	itee)	887-654
	NM Emergency Response Commission (S	onto Eo)	(505) 476-960
	24 HR	ania rej	(505) 827-912
			(800) 424-880
	National Emergency Response Center National Pollution Control Center: Direct		
			(703) 872-600
	For Oil Spills		(800) 280-71
	Emergency Services		(281) 784-470
	Wild Well Control Cudd Pressure Control	(915) 699-	(915) 563-335
	Cuda Flessure Control	0139	(915) 505-550
	Halliburton	0100	(575) 746-275
	B. J. Services		(575) 746-356
Give	Native Air – Emergency Helicopter – Hobb	s	(575) 392-642
GPS	Flight For Life - Lubbock, TX	-	(806) 743-991
oosition:			(806) 747-892
	Med Flight Air Amb - Albuquerque, NM		(575) 842-443
	Lifeguard Air Med Svc. Albuquerque, NM		(800) 222-122
	Poison Control (24/7)	*****	(575) 272-311
	Oil & Gas Pipeline 24 Hour Service		(800) 364-436
	NOAA – Website - www.nhc.noaa.gov		(/

Prepared in conjunction with Dave Small STARP COMMUNICATIONS & COMMUNICATIONS & COMMUNICATIONS ACCOMMUNICATION ACCOMMUNICATION





5D Plan Report

Devon Energy

Field Name: Eddy Co, NM (Nad 83 NME)
Site Name: Tomb Raider 12 Fed 213H
Well Name: Tomb Raider 12 Fed 213H

Plan: *P1:V1*

28 June 2017





Tomb Raider 12 Fed 213H

Map Units: US ft

Company Name: Devon Energy

Field Name:

Vertical Reference Datum (VRD): Mean Sea Level

Eddy Co, NM (Nad 83 NME) Projected Coordinate System: NAD83 / New Mexico East (ftUS)

Comment:

Units: US ft

North Reference: Grid - Northings 477706:15 US N Convergence Angle: 0.32

Easting: 728454.84 US A

Latitude: 32° 18' 42.60"

Longitude: -103° 43' 39.55"

Tomb Raider 12 Fed 213H

Site:

Elevation above MSL:3504.00 US ft

Comment:

Slot:

Position (Relative to Site Centre) Nething: 477706,15 US.A Latitudes 32918'42.60"

48/-St 0.00 US R ... Northings 477706 15 US R 48/-W: 0.00 US R ... Easting: 728454.84 US R

Longitude: -103°43'39.55"

Tomb Raider 12 Fed 213H

Slot TVD Reference: Ground Elevation Elevation above MSL: 3504.00 US ft

Comment:

Type:Main well

UWI:

Plan:P1:V1

File Number:

Comment:

Closure Distance: 4941.33US ft Closure Azimuth:357.37°

Vertical Section: Position of Origin (Relative to Slot centre)

Tomb Raider 12 Fed 213H

Well:

+N/-S: 0.00 US ft

+E/-W: 0.00 US ft

Az: 0.00°

Magnetic Parameters:

Model: bagm2017 Field Strength:

48025.7nT

Declination: 7.07°

Dip: 60.09°

Date: 01/Oct/2017

Drill floor: Plan: P1:V1

Rig Height (Drill Floor): 24,00us ft

Elevation above MSL: 3528,00us ft

Inclination: 0.00°

Azimuth: 0.00°

Target set: TR 12 Fed 213H Targets Co

larger sec.	Target Set. 18 12 red 215ft Targets Comment.											
Target Nam	ne: Shape:	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (USFt)	Easting (USFt)	Comment					
КОР	Point	9786.36	0.00	-226.92	477706.15	728227.92						
PBHL 213	H Point	10272.00	4936.12	-226.92	482642.27	728227.92						

Wellpath created using minimum curvature.

Tie Point:

MD: 0.00USFt Inclination:

0.00°

Azimuth: 0.00°

TVD: 0.00USFt North Offset:

East Offset: 0.00USFt

0.00USFt

Salient Poin	ts: (Relative	to Slot cent	re)(TVD relati	ve to Drill Fl	oor)						
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100U ft)	B.Rate S (°/100US ft)	T.Rate (°/100US ft)	T.Face (°)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6000.00	0.00	0.00	6000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Begin Nudge @ 1 DLS
6399.99	4.00	270.00	6399.66	0.00	-13.96	-0.00	1.00	1.00	0.00	270,00	Hold
9252.97	4.00	270,00	9245.70	0.00	-212.96	-0.00	0.00	0.00	0.00	0.00	Drop @ 1° DLS
9652.96	0.00	0.00	9645.36	0.00	-226.92	-0.00	1.00	-1.00	0.00	180.00	Hold Vertical
9793.96	0.00	0.00	9786.36	0.00	-226.92	-0.00	0.00	0.00	0.00	0.00	KOP-Build @ 12° DLS
10543.08	89.89	0.00	10263.82	476.59	-226.92	476.59	12.00	12.00	0.00	0.00	Landing Pi
15002.62	89.89	0.00	10272.00	4936.12	-226.92	4936.12	0.00	0.00	0.00	0.00	PBHL 213I
Interpolated	d Points: (Re	lative to Slo	t centre)(TVD	relative to C	rill Floor)						
MD	Inc	Az	TVD	N.Offse		ffset	VS	DLS	Northing	Easting	Comment
(US ft)	(°)	(°)	(US ft)	(US ft		5 ft)		(°/100US ft)	(US ft)	(US ft)	
0.00	0.00	0.00	0.00	0.00		.00	0.00	0.00	477706.15	728454.84	
100.00	0.00	0.00	100.00	0.00		.00	0.00	0.00	477706.15	728454.84	
200.00	0.00	0.00	200,00	0.00		.00	0.00	0.00	477706.15 477706.15	728454.84	
300.00	0.00	0.00	300.00	0.00		.00	0.00	0.00	477706.15	728454.84 728454.84	
400.00	0.00	0.00	400.00	0.00		.00	0.00				
500.00	0.00	0.00	500.00	0.00		.00	0.00	0.00	477706.15	728454.84 728454.84	
600.00 700.00	0.00	0.00	600.00 700.00	0.00 0.00		.00	0.00	0.00	477706.15 477706.15	728454.84	
800.00	0.00	0.00	800.00	0.00		.00	0.00	0.00	477706.15	728454.84	
			900.00	0.00		.00		0.00	477706.15	728454.84	
900.00 1000.00	0.00	0.00	1000.00			.00	0.00	0.00	477706.15	728454.84	
1100.00	0.00	0.00	1100.00	0.00		.00	0.00	0.00	477706.15	728454.84	
1200.00	0.00	0.00	1200.00	0.00		.00	0.00	0.00	477706.15	728454.84	
1300.00	0.00	0.00	1300.00	0.00		.00	0.00	0.00	477706.15	728454.84	
1400.00	0.00	0.00	1400.00			.00	0.00	0.00	477706.15	728454.84	
1500.00	0.00	0.00	1500.00	0.00		.00	0.00	0.00	477706.15	728454.84	
1600.00	0.00	0.00	1600.00	0.00		.00	0.00	0.00	477706.15	728454.84	
1700.00	0.00	0.00	1700.00	0.00		.00	0.00	0.00	477706.15	728454.84	
1800.00	0.00	0.00	1800.00			.00	0.00	0.00	477706.15	728454.84	
1900.00	0.00	0.00	1900.00	0.00		.00	0.00	0.00	477706.15	728454.84	
2000.00	0.00	0.00	2000.00			.00	0.00	0.00	477706.15	728454.84	
2100.00	0.00	0.00	2100.00	0.00		.00	0.00	0.00	477706.15	728454.84	
2200.00	0.00	0.00	2200.00			.00	0.00	0.00	477706,15	728454.84	
2300.00	0.00	0.00	2300.00			.00	0.00	0.00	477706.15	728454,84	
2400.00	0.00	0.00	2400.00			.00	0.00	0.00	477706.15	728454.84	
2500.00	0.00	0.00	2500.00			.00	0.00	0.00	477706,15	728454.84	
2600.00	0.00	0.00	2600.00			.00	0.00	0.00	477706.15	728454.84	
2700.00	0.00	0.00	2700.00			.00	0.00	0.00	477706.15	728454.84	
2800.00	0.00	0.00	2800.00			.00	0.00	0.00	477706.15	728454.84	
2900.00	0.00	0.00	2900.00		0.	.00	0.00	0.00	477706.15	728454.84	
3000.00	0.00	0.00	3000.00	0.00	0.	.00	0.00	0.00	477706.15	728454.84	
3100.00	0.00	0.00	3100.00	0.00	0.	.00	0.00	0.00	477706.15	728454,84	
3200.00	0.00	0.00	3200.00	0.00	0.	.00	0.00	0.00	477706.15	728454.84	
3300.00	0.00	0.00	3300,00	0.00	0.	.00	0.00	0.00	477706.15	728454.84	
3400.00	0.00	0.00	3400.00	0.00	0.	.00	0.00	0.00	477706.15	728454.84	
3500.00	0.00	0.00	3500.00	0.00	0.	.00	0.00	0.00	477706.15	728454.84	
3600.00	0.00	0.00	3600.00	0.00	0.	.00	0.00	0.00	477706.15	728454.84	
3700.00	0.00	0.00	3700.00	0.00	0.	.00	0.00	0.00	477706.15	728454,84	
3800.00	0.00	0.00	3800.00	0.00	0.	.00	0.00	0.00	477706.15	728454.84	
3900.00	0.00	0.00	3900.00	0.00	0.	.00	0.00	0.00	477706.15	728454.84	
4000.00	0.00	0.00	4000.00			.00	0.00	0.00	477706.15	728454.84	
4100.00	0.00	0.00	4100.00			00	0.00	0.00	477706 15	728454 84	

0.00

0.00

0.00

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4100.00

4200.00

4300.00

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0.00

4100.00

4200.00

4300.00

477706.15

477706.15

477706.15

728454.84

728454.84

728454.84

Interpolated	Points: (Rela	ative to Slot ce	ntre)(TVD rel	ative to Drill	Floor)					
MÐ (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	477706.15	728454.84	
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	477706.15	728454.84	
4600.00	0.00	0.00	4600.00	0.00	0.00	0,00	0.00	477706.15	728454.84	
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	0.00	477706.15	728454,84	
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	477706.15	728454.84	
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	477706.15	728454.84	
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	477706.15	728454.84	
5100.00	0.00	0.00	5100.00	0.00	0.00	0.00	0.00	477706.15	728454.84	
5200.00	0.00	0.00	5200.00	0.00	0.00	0.00	0.00	477706.15	728454.84	
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	477706.15	728454.84	
5400.00	0.00	0.00	5400.00	0.00	0.00	0.00	0.00	477706.15	728454.84	
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	477706.15	728454.84	
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	477706.15	728454.84	
5700.00	0.00	0.00	5700.00	0.00	0.00	0.00	0.00	477706.15	728454.84	
5800.00	0.00	0.00	5800.00	0.00	0.00	0.00	0.00	477706.15	728454,84	
5900.00	0.00	0.00	5900.00	0.00	0.00	0.00	0.00	477706.15	728454.84	
6000.00	0.00	0,00	6000,00	0.00	0.00	0.00	0.00	477706.15	728454.84	Begin Nudge @ 1° DLS
6100.00	1.00	270,00	6099.99	0.00	-0.87	-0.00	1.00	477706.15	728453.97	
6200.00	2.00	270.00	6199.96	0.00	-3.49	-0.00	1.00	477706.15	728451.35	
6300.00	3.00	270.00	6299.86	0.00	-7.85	-0.00	1.00	477706.15	728446.99	
6399.99	4.00	270.00	6399.66	0.00	-13.96	-0.00	1.00	477706,15	728440.88	Hold
6400.00	4.00	270.00	6399.68	0.00	-13.96	-0.00	0.00	477706.15	728440.88	
6500.00	4.00	270.00	6499.43	0.00	-20.93	-0.00	0.00	477706.15	728433.91	
6600.00	4.00	270.00	6599.19	0.00	-27.91	-0.00	0.00	477706.15	728426.93	
6700.00	4.00	270.00	6698.94	0.00	-34.88	-0.00	0.00	477706.15	728419.96	
6800.00	4.00	270.00	6798.70	0.00	-41.86	-0.00	0.00	477706.15	728412.98	
6900,00	4.00	270,00	6898.46	0.00	-48.83	-0.00	0.00	477706.15	728406.01	
7000.00	4.00	270.00	6998.21	0.00	-55.81	-0,00	0.00	477706,15	728399.03	
7100.00	4.00	270,00	7097.97	0,00	-62.78	-0.00	0.00	477706.15	728392.06	
7200.00	4.00	270.00	7197.73	0.00	-69.76	-0.00	0.00	477706.15	728385.08	
7300.00	4.00	270.00	7297.48	0.00	-76.74	-0.00	0.00	477706.15	728378.10	
7400.00	4.00	270.00	7397.24	0.00	-83.71	-0.00	0.00	477706.15	728371.13	
7500.00	4.00	270.00	7497.00	0.00	-90.69	-0.00	0.00	477706.15	728364.15	
7600.00	4.00	270.00	7596.75	0.00	-97.66	-0.00	0.00	477706.15	728357.18	
7700.00	4.00	270.00	7696.51	0.00	-104.64	-0.00	0.00	477706.15	728350.20	
7800.00	4.00	270.00	7796.27	0.00	-111.61	-0.00	0.00	477706.15	728343.23	
7900.00	4.00	270.00	7896.02	0.00	-118.59	-0.00	0.00	477706.15	728336.25	
8000.00	4.00	270.00	7995.78	0.00	-125.56	-0.00	0.00	477706.15	728329.28	
8100.00	4.00	270.00	8095.53	0.00	-132.54	-0.00	0.00	477706.15	728322.30	
8200.00	4.00	270.00	8195.29	0.00	-139.51	-0.00	0.00	477706.15	728315.33	
8300.00	4.00	270.00	8295.05	0.00	-146.49	-0.00	0.00	477706.15	728308.35	
8400.00	4.00	270.00	8394.80	0.00	-153.47	-0.00	0.00	477706.15	728301.37	
8500.00	4.00	270.00	8494.56	0.00	-160.44	-0.00	0.00	477706.15	728294.40	
8600.00	4.00	270.00	8594.32	0.00	-167.42	-0.00	0.00	477706.15	728287.42	
8700.00	4.00	270.00	8694.07	0.00	-174.39	-0.00	0.00	477706.15	728280.45	
8800.00	4.00	270.00	8793.83	0.00	-181.37	-0.00	0.00	477706.15	728273.47	
8900.00	4.00	270.00	8893.59	0.00	-188.34	-0.00	0.00	477706.15	728266.50	
9000.00	4.00	270.00	8993.34	0.00	-195.32	-0.00	0.00	477706.15	728259.52	
9100.00	4.00	270.00	9093.10	0.00	-202.29	-0.00	0.00	477706.15	728252.55	
9200.00	4.00	270.00	9192.85	0.00	-209.27	-0.00	0.00	477706.15	728245.57	
9252.97	4.00	270.00	9245.70	0.00	-212.96	-0.00	0.00	477706.15	728241.88	Drop @ 1° DLS
9300.00	3.53	270.00	9292.62	0.00	-216.05	-0.00	1.00	477706.15	728238.79	
9400.00	2.53	270.00	9392.48	0.00	-221.34	-0.00	1.00	477706.15	728233.50	
9500.00	1.53	270.00	9492.42	0.00	-224.88	-0.00	1.00	477706.15	728229.96	
9600.00	0.53	270.00	9592.40	0.00	-226.68	-0.00	1.00	477706.15	728228.16	
9652.96	0.00	0.00	9645.36	0.00	-226.92	-0.00	1.00	477706.15	728227.92	Hold Vertical
9700.00	0.00	0.00	9692.40	0.00	-226.92	-0.00	0.00	477706.15	728227.92	

Internalated I	Points: (Pala	tive to Slot ce	entre)(TVD rel	ative to Drill	Eloor)					
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
9793.96	0.00	0.00	9786.36	0.00	-226.92	-0.00	0.00	477706.15	728227.92	KOP-Build @ 12° DLS
9800.00	0.72	0.00	9792.40	0.04	-226.92	0.04	12.00	477706.19	728227,92	12 220
9900.00	12.72	0.00	9891.53	11.73	-226.92	11.73	12.00	477717,88	728227.92	
10000.00	24.72	0.00	9986.07	43,77	-226.92	43.77	12,00	477749.92	728227.92	
10100.00	36.72	0.00	10071.87	94.77	-226.92	94.77	12.00	477800.92	728227.92	
10200.00	48.72	0.00	10145.20	162.49	-226.92	162.49	12.00	477868.64	728227.92	
10300.00	60.72	0.00	10202.84	243.98	-226.92	243.98	12.00	477950.13	728227.92	
10400.00	72.72	0.00	10242.29	335.68	-226.92	335.68	12.00	478041.83	728227.92	
10500.00	84.72	0.00	10261.80	433.57	-226.92	433.57	12.00	478139.72	728227.92	
10543.08	89.89	0.00	10263.82	476.59	-226.92	476.59	12.00	478182.74	728227.92	Landing Pt
10600.00	89.89	0.00	10263.93	533.51	-226.92	533.51	0.00	478239.66	728227.92	
10700.00	89.89	0.00	10264.11	633.51	-226.92	633.51	0.00	478339.66	728227.92	
10800.00	89.89	0.00	10264.30	733.51	-226.92	733.51	0.00	478439.66	728227.92	
10900.00	89.89	0.00	10264.48	833.51	-226.92	833.51	0.00	478539.66	728227.92	
11000,00	89.89	0.00	10264.66	933,51	-226,92	933.51	0.00	478639,66	728227.92	
11100.00	89.89	0.00	10264.85	1033.50	-226,92	1033.50	0.00	478739.65	728227.92	
11200.00	89.89	0.00	10265.03	1133.50	-226.92	1133.50	0.00	478839.65	728227.92	
11300.00	89.89	0.00	10265.21	1233.50	-226.92	1233.50	0.00	478939.65	728227.92	
11400.00	89.89	0.00	10265.40	1333.50	-226.92	1333.50	0.00	479039.65	728227.92	
11500.00	89.89	0.00	10265.58	1433.50	-226.92	1433.50	0.00	479139.65	728227.92	
11600.00	89.89	0.00	10265.76	1533.50	-226.92	1533.50	0.00	479239.65	728227.92	
11700.00	89.89	0.00	10265.95	1633.50	-226.92	1633.50	0.00	479339.65	728227.92	
11800.00	89.89	0.00	10266.13	1733.50	-226.92	1733.50	0.00	479439.65	728227.92	
11900.00	89.89	0.00	10266.31	1833.50	-226.92	1833.50	0.00	479539.65	728227.92	
12000.00	89.89	0.00	10266.50	1933.50	-226.92	1933.50	0.00	479639.65	728227.92	
12100.00	89.89	0.00	10266.68	2033.50	-226.92	2033.50	0.00	479739.65	728227.92	
12200.00	89.89	0.00	10266.86	2133.50	-226.92	2133.50	0.00	479839.65	728227.92	
12300.00	89.89	0.00	10267.05	2233.50	-226.92	2233.50	0.00	479939.65	728227.92	
12400,00	89,89	0.00	10267.23	2333.50	-226.92	2333.50	0.00	480039.65	728227.92	
12500.00	89.89	0.00	10267.23	2433.50	-226.92	2433.50	0.00	480139.65	728227.92	
12600.00	89.89	0.00	10267.60	2533.50	-226.92	2533.50	0.00	480239.65	728227.92	
12700.00	89.89	0.00	10267.78	2633.50	-226.92	2633.50	0.00	480339.65	728227.92	
12800.00	89.89	0.00	10267.76	2733.50	-226.92	2733.50	0.00	480439.65	728227.92	
12900.00	89.89	0.00	10268.15	2833.50	-226.92	2833.50	0.00	480539.65	728227.92	
13000.00	89.89	0.00	10268.33	2933.50	-226.92	2933.50	0.00	480639.65	728227.92	
13100.00	89.89	0.00	10268.51	3033.50	-226.92	3033.50	0.00	480739.65	728227.92	
13200.00	89.89	0.00	10268.70	3133.50	-226.92	3133.50	0.00	480839.65	728227.92	
13300.00	89.89	0.00	10268.88	3233.50	-226.92	3233.50	0.00	480939.65	728227.92	
13400.00	89.89	0.00	10269.06	3333.50	-226.92	3333.50	0.00	481039.65	728227.92	
13500.00	89.89	0.00	10269.25	3433.50	-226.92	3433.50	0.00	481139.65	728227.92	
13600.00	89.89	0.00	10269.43	3533.50	-226.92	3533.50	0.00	481239.65	728227.92	
13700.00	89.89	0.00	10269.61	3633.50	-226.92	3633.50	0.00	481339.65	728227.92	
13800.00	89.89	0.00	10269.80	3733.50	-226.92	3733.50	0.00	481439.65	728227.92	
13900.00	89.89	0.00	10269.98	3833.50	-226.92	3833.50	0.00	481539.65	728227.92	
14000.00	89.89	0.00	10270.16	3933.50	-226.92	3933.50	0.00	481639.65	728227.92	
14100.00	89.89	0.00	10270.35	4033.50	-226.92	4033.50	0.00	481739.65	728227.92	
14200.00	89.89	0.00	10270.53	4133.50	-226.92	4133.50	0.00	481839.65	728227.92	
14300.00	89.89	0.00	10270.71	4233.50	-226.92	4233.50	0.00	481939.65	728227.92	
14400.00	89.89	0.00	10270.90	4333.50	-226.92	4333.50	0.00	482039.65	728227.92	
14500.00	89.89	0.00	10271.08	4433.50	-226.92	4433.50	0.00	482139.65	728227.92	
14600.00	89.89	0.00	10271.00	4533.50	-226.92	4533.50	0.00	482239.65	728227.92	
14700.00	89.89	0.00	10271.25	4633.50	-226.92	4633.50	0.00	482339,65	728227.92	
14800.00	89.89	0.00	10271.43	4733.50	-226.92	4733.50	0.00	482439.65	728227.92	
14900.00	89.89	0.00	10271.83	4833.50	-226.92	4833.50	0.00	482539.65	728227.92	
15000.00	89.89	0.00	10271.81	4933.50	-226.92	4933.50	0.00	482639.65	728227.92	
	89.89 89.89	0.00	10272.00	4935.50	-226.92 -226.92	4935.30	0.00	482642.27	728227.92	PBHL 213H
15002.62	07.09	0.00	102/2.00	4270.17	-220.92	7230.12	0.00	702042.2/	120221.72	L DITE 21313

A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

Devon proposes using 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 3000 (3M) psi.

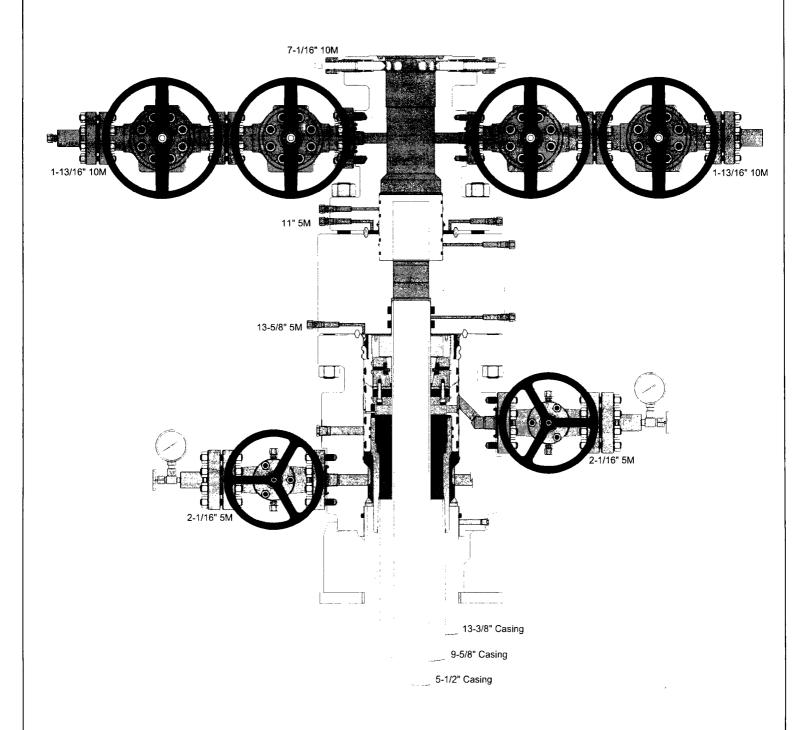
- Wellhead will be installed by wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial BOP test.
- Wellhead company will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 3M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time.
- If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted.
- Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.
- Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2.

After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2.

After running the 9-5/8' intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 3M will already be installed on the wellhead.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.

Devon's proposed wellhead manufactures will be FMC Technologies, Cactus Wellhead, or Cameron.





Commitment Runs Deep



Design Plan
Operation and Maintenance Plan
Closure Plan

SENM - Closed Loop Systems June 2010

I. Design Plan

Devon uses MI SWACO closed loop system (CLS). The MI SWACO CLS is designed to maintain drill solids at or below 5%. The equipment is arranged to progressively remove solids from the largest to the smallest size. Drilling fluids can thus be reused and savings is realized on mud and disposal costs. Dewatering may be required with the centrifuges to insure removal of ultra fine solids.

The drilling location is constructed to allow storm water to flow to a central sump normally the cellar. This insures no contamination leaves the drilling pad in the event of a spill. Storm water is reused in the mud system or stored in a reserve fluid tank farm until it can be reused. All lubricants, oils, or chemicals are removed immediately from the ground to prevent the contamination of storm water. An oil trap is normally installed on the sump if an oil spill occurs during a storm.

A tank farm is utilized to store drilling fluids including fresh water and brine fluids. The tank farm is constructed on a 20 ml plastic lined, bermed pad to prevent the contamination of the drilling site during a spill. Fluids from other sites may be stored in these tanks for processing by the solids control equipment and reused in the mud system. At the end of the well the fluids are transported from the tank farm to an adjoining well or to the next well for the rig.

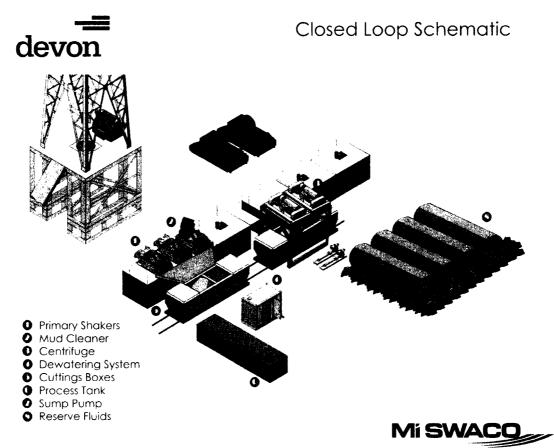
Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

Signs will be posted on the fence surrounding the closed-loop system unless the closed-loop system is located on a site where there is an existing well, that is operated by Devon.

II. Operations and Maintenance Plan

Primary Shakers: The primary shakers make the first removal of drill solids from the drilling mud as it leaves the well bore. The shakers are sized to handle maximum drilling rate at optimal screen size. The shakers normally remove solids down to 74 microns.

Mud Cleaner: The Mud Cleaner cleans the fluid after it leaves the shakers. A set of hydrocyclones are sized to handle 1.25 to 1.5 times the maximum circulating rate. This ensures all the fluid is being processed to an average cut point of 25 microns. The wet discharged is dewatered on a shaker equipped with ultra fine mesh screens and generally cut at 40 microns.



Centrifuges: The centrifuges can be one or two in number depending on the well geometry or depth of well. The centrifuges are sized to maintain low gravity solids at 5% or below. They may or may not need a dewatering system to enhance the removal rates. The centrifuges can make a cut point of 8-10 microns depending on bowl speed, feed rate, solids loading and other factors.

The centrifuge system is designed to work on the active system and be flexible to process incoming fluids from other locations. This set-up is also dependant on well factors.

Dewatering System: The dewatering system is a chemical mixing and dosing system designed to enhance the solids removal of the centrifuge. Not commonly used in shallow wells. It may contain pH adjustment, coagulant mixing and dosing, and polymer mixing and dosing. Chemical flocculation binds ultra fine solids into a mass that is within the centrifuge operating design. The

dewatering system improves the centrifuge cut point to infinity or allows for the return of clear water or brine fluid. This ability allows for the ultimate control of low gravity solids.

Cuttings Boxes: Cuttings boxes are utilized to capture drill solids that are discarded from the solids control equipment. These boxes are set upon a rail system that allows for the removal and replacement of a full box of cuttings with an empty one. They are equipped with a cover that insures no product is spilled into the environment during the transportation phase.

Process Tank: (Optional) The process tank allows for the holding and process of fluids that are being transferred into the mud system. Additionally, during times of lost circulation the process tank may hold active fluids that are removed for additional treatment. It can further be used as a mixing tank during well control conditions.

Sump and Sump Pump: The sump is used to collect storm water and the pump is used to transfer this fluid to the active system or to the tank for to hold in reserve. It can also be used to collect fluids that may escape during spills. The location contains drainage ditches that allow the location fluids to drain to the sump.

Reserve Fluids (Tank Farm): A series of frac tanks are used to replace the reserve pit. These are steel tanks that are equipped with a manifold system and a transfer pump. These tanks can contain any number of fluids used during the drilling process. These can include fresh water, cut brine, and saturated salt fluid. The fluid can be from the active well or reclaimed fluid from other locations. A 20 ml liner and berm system is employed to ensure the fluids do not migrate to the environment during a spill.

If a leak develops, the appropriate division district office will be notified within 48 hours of the discovery and the leak will be addressed. Spill prevention is accomplished by maintaining pump packing, hoses, and pipe fittings to insure no leaks are occurring. During an upset condition the source of the spill is isolated and repaired as soon as it is discovered. Free liquid is removed by a diaphragm pump and returned to the mud system. Loose topsoil may be used to stabilize the spill and the contaminated soil is excavated and placed in the cuttings boxes. After the well is finished and the rig has moved, the entire location is scrapped and testing will be performed to determine if a release has occurred.

All trash is kept in a wire mesh enclosure and removed to an approved landfill when full. All spent motor oils are kept in separate containers and they are removed and sent to an approved recycling center. Any spilled lubricants, pipe

dope, or regulated chemicals are removed from soil and sent to landfills approved for these products.

These operations are monitored by Mi Swaco service technicians. Daily logs are maintained to ensure optimal equipment operation and maintenance. Screen and chemical use is logged to maintain inventory control. Fluid properties are monitored and recorded and drilling mud volumes are accounted for in the mud storage farm. This data is kept for end of well review to insure performance goals are met. Lessons learned are logged and used to help with continuous improvement.

A MI SWACO field supervisor manages from 3-5 wells. They are responsible for training personnel, supervising installations, and inspecting sites for compliance of MI SWACO safety and operational policy.

III. Closure Plan

A maximum 340' X 340' caliche pad is built per well. All of the trucks and steel tanks fit on this pad. All fluid cuttings go to the steel tanks to be hauled by various trucking companies to an agency approved disposal.



Fluid Technology

ContiTech Beattie Corp. Website: www.contitechbeattie.com

Monday, June 14, 2010

RE:

Drilling & Production Hoses Lifting & Safety Equipment

To Helmerich & Payne,

A Continental ContiTech hase assembly can perform as intended and suitable for the application regardless of whether the hose is secured or unsecured in its configuration. As a manufacturer of High Pressure Hose Assemblies for use in Drilling & Production, we do offer the corresponding lifting and safety equipment, this has the added benefit of easing the lifting and handling of each hose assembly whilst affording hose longevity by ensuring correct handling methods and procedures as well as securing the hose in the unlikely event of a failure; but in no way does the lifting and safety equipment affect the performance of the hoses providing the hoses have been handled and installed correctly it is good practice to use lifting & safety equipment but not mandatory

Should you have any questions or require any additional information/clarifications then please do not hesitate to contact us.

ContiTech Beattie is part of the Continental AG Corporation and can offer the full support resources associated with a global organization.

Best regards,

Robin Hodgson Sales Manager ContiTech Beattie Corp

ContiTech Beattle Corp, 11535 Brittmoore Park Drive, Houston, TX 77041 Phone: +1 (832) 327-0141 Fax: +1 (832) 327-0148 www.contitechbeattle.com



R16 212

PHOENIX

QUALITY DOCUMENT

PHOENIX RUBBER INDUSTRIAL LTD. INDUSTRIAL

6728 Szeged, Budapesti út 10. Hungary • H-6701 Szeged, P. O. Box 152 none: (3662) 566-737 • Fax: (3662) 568-738 SALES & MARKETING: H-1092 Budapest, Ráday u. 42-44, Hungary • H-1440 Budapest, P. O. Box 26 Phone: (361) 456-4200 • Fax: (361) 217-2972, 456-4273 • www.taurusemerge.hu

QUAL INSPECTION	ITY CONTR AND TEST		ATE	CERT. N	lo:	552		
PURCHASER:	Phoenix Beat	tie Co.		P.O. N°	1519	1519FA-871		
PHOENIX RUBBER order No.	170466	HOSE TYPE:	3" ID	Cho	oke and Kill	Hose		
HOSE SERIAL No.	34128	NOMINAL / AC	TUAL LENG	TH:	11,43 m			
W.P. 68,96 MPa 1	0000 psi	T.P. 103,4	MPa 15	000 psi	Duration:	60	min.	
Pressure test with water at ambient temperature		•			- - 	-		
.								
,	See atta	achment. (1	page)				3.4	
							A. C. 1847	
↑ 10 mm = 10 Min. → 10 mm = 25 MPa	•	COUPLE	NGS	· · · · · · · · · · · · · · · · · · ·		· 	. აზია . <u></u>	
Туре		Serial N°		Quality		Heat N°		
3" coupling with	72	20 719		AISI 4130		C7626		
4 1/16" Flange end				AISI 4130		47357		
				:			•	
All metal parts are flawless			API Spec Tempera	: 16 C ture rate:"I	3"	· · · · · · · · · · · · · · · · · · ·		
WE CERTIFY THAT THE ABOVE PRESSURE TESTED AS ABOVE			ED IN ACCOR	DANCE WITH	THE TERMS	OF THE ORDE	R AND	
Date: 29. April. 2002.	inspector		Quality C	HOI Hose	ENIX RUB dustrial Ltd Inspection DENIX RUP	i. And Awy	in'	

> VERIFIED TRUE CO. PHOENIX RUBBER C.C.



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



APD ID: 10400020785 **Submission Date:** 08/24/2017

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: TOMB RAIDER 12 FED Well Number: 213H

Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Tomb_Raider_12_Fed_213H_Access_Rd_08-24-2017.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? YES

Existing Road Improvement Description: Improve road to accommodate Drilling and Completion operations.

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Tomb_Raider_12_Fed_213H_New_Access_Rd_08-24-2017.pdf

New road type: LOCAL

Length: 1273.94 Feet **Width (ft.):** 30

Max slope (%): 6 Max grade (%): 4

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: Water Drainage Ditch

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Well Name: TOMB RAIDER 12 FED Well Number: 213H

Access surfacing type: GRAVEL

Access topsoil source: ONSITE

Access surfacing type description:

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: See attached Interim reclamation diagram.

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: na

Road Drainage Control Structures (DCS) description: na

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Tomb_Raider_12_Fed_213H_One_Mile_Map_08-24-2017.pdf

Existing Wells description:

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

Submit or defer a Proposed Production Facilities plan? DEFER

Estimated Production Facilities description: Wells will go to an existing production facility. Please refer to CTB plat.

Section 5 - Location and Types of Water Supply

Water Source Table

Well Name: TOMB RAIDER 12 FED Well Number: 213H

Water source use type: STIMULATION Water source type: OTHER

Describe type: Fresh Water

Source latitude: Source longitude:

Source datum:

Water source permit type: OTHER Source land ownership: FEDERAL

Water source transport method: PIPELINE

Source transportation land ownership: STATE

Water source volume (barrels): 135000 Source volume (acre-feet): 17.400568

Source volume (gal): 5670000

Water source and transportation map:

TOMB_RAIDER_12_FED_COM_213H_Water_X_Map_08-24-2017.pdf

Water source comments: The attached Water Transfer Map is a proposal only and the final route and documentation will be provided by a Devon contractor prior to installation. When available Devon will always follow existing disturbance.

New water well? NO

New Water Well Info

Well latitude: Well Longitude: Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft): Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft): Well casing type:

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

New water well casing?

Used casing source:

Drilling method:

Grout material:

Grout depth:

Casing length (ft.): Casing top depth (ft.):

Well Production type: Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Well Name: TOMB RAIDER 12 FED Well Number: 213H

Section 6 - Construction Materials

Construction Materials description: Dirt fill and caliche will be used to construct well pad. Map attached.

Construction Materials source location attachment:

Tomb_Raider_12_Fed_213H_Caliche_Map_08-24-2017.pdf

Section 7 - Methods for Handling Waste

Waste type: PRODUCED WATER

Waste content description: Average produced BWPD over the first year of production

Amount of waste: 1000 barrels

Waste disposal frequency : Daily Safe containment description: N/A

Safe containment attachment:

Waste disposal type: OFF-LEASE INJECTION Disposal location ownership: PRIVATE

Disposal type description:

Disposal location description: Multiple methods for handling waste will be utilized. Via trucking, Dvn owned disposal

system and or third party pipeline take away.

Waste type: COMPLETIONS/STIMULATION

Waste content description: Flow back water during completion operations.

Amount of waste: 3000 barrels

Waste disposal frequency: One Time Only

Safe containment description: N/A

Safe containment attachment:

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

FACILITY

Disposal type description:

Disposal location description: Various disposal locations in Lea and Eddy counties.

Waste type: FLOWBACK

Waste content description: Average produced BWPD over the flowback period (first 30 days of production).

Amount of waste: 2000 barrels

Waste disposal frequency : Daily
Safe containment description: N/A

Safe containment attachment:

Waste disposal type: OFF-LEASE INJECTION Disposal location ownership: STATE

Well Name: TOMB RAIDER 12 FED Well Number: 213H

Disposal type description:

Disposal location description: Produced water during flowback will be disposed of at various disposals in Lea and Eddy

County.

Waste type: DRILLING

Waste content description: Water Based Cuttings

Amount of waste: 1980 barrels

Waste disposal frequency : Daily Safe containment description: N/A

Safe containmant attachment:

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

FACILITY

Disposal type description:

Disposal location description: All cuttings will disposed of at R360, Sundance, or equivalent.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

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

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

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? NO

Description of cuttings location

Cuttings area length (ft.)

Cuttings area width (ft.)

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

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

WCuttings area liner

Cuttings area liner specifications and installation description

Well Name: TOMB RAIDER 12 FED Well Number: 213H

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Tomb_Raider_12_Fed_213H_Rig_Layout_08-24-2017.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: TOMB RAIDER 13 CTB

Multiple Well Pad Number: 1

Recontouring attachment:

Tomb_Raider_12_Fed_213H_Grading_Pln_08-24-2017.pdf

Drainage/Erosion control construction: N/A Drainage/Erosion control reclamation: N/A

Wellpad long term disturbance (acres): 2.273 Wellpad short term disturbance (acres): 8.266

Access road short term disturbance (acres): 1.006 Access road long term disturbance (acres): 1.006

Pipeline short term disturbance (acres): 0.3694146 Pipeline long term disturbance (acres): 0.3694146

Other short term disturbance (acres): 0 Other long term disturbance (acres): 0 Total short term disturbance: 9.641415

Total long term disturbance: 3.6484146

Reconstruction method: Operator will use Best Management Practices"BMP" to mechanically recontour to obtain the desired outcome.

Topsoil redistribution: Topsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns.

Soil treatment: Topsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns.

Existing Vegetation at the well pad: Shinnery, yucca, grasses and mesquite.

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Shinnery, yucca, grasses and mesquite.

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP Well Name: TOMB RAIDER 12 FED Well Number: 213H **Existing Vegetation Community at the road attachment:** Existing Vegetation Community at the pipeline: Shinnery, yucca, grasses and mesquite. **Existing Vegetation Community at the pipeline attachment:** Existing Vegetation Community at other disturbances: Shinnery, yucca, grasses and mesquite. **Existing Vegetation Community at other disturbances attachment:** Non native seed used? NO Non native seed description: Seedling transplant description: Will seedlings be transplanted for this project? NO Seedling transplant description attachment: Will seed be harvested for use in site reclamation? NO Seed harvest description: Seed harvest description attachment: **Seed Management Seed Table** Seed type: Seed source: Seed name: Source name: Source address: Source phone: Seed cultivar: Seed use location:

PLS pounds per acre: Proposed seeding season:

Seed Summary Total pounds/Acre:

Seed Type Pounds/Acre

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Cole Last Name: Metcalf

Well Name: TOMB RAIDER 12 FED Well Number: 213H Phone: (575)748-1872 Email: cole.metcalf@dvn.com Seedbed prep: Seed BMP: Seed method: Existing invasive species? NO Existing invasive species treatment description: **Existing invasive species treatment attachment:** Weed treatment plan description: Maintain weeds on an as need basis. Weed treatment plan attachment: Monitoring plan description: Monitor as needed. Monitoring plan attachment: Success standards: N/A Pit closure description: N/A Pit closure attachment: Section 11 - Surface Ownership Disturbance type: PIPELINE Describe: Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: **BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: Military Local Office: USFWS Local Office:** Other Local Office: **USFS** Region: **USFS** Forest/Grassland: **USFS Ranger District:**

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: TOMB RAIDER 12 FED	Well Number: 213H	
Disturbance type: NEW ACCESS ROAD		
Describe:		
Surface Owner: BUREAU OF LAND MANAGEMENT		
Other surface owner description:		
BIA Local Office:		
BOR Local Office:		
COE Local Office:		
DOD Local Office:	·	
NPS Local Office:		
State Local Office:		
Military Local Office:		
USFWS Local Office:		
Other Local Office:		
USFS Region:		
USFS Forest/Grassland:	USFS Ranger District:	
Disturbance type: EXISTING ACCESS ROAD		
Describe:		
Surface Owner: BUREAU OF LAND MANAGEMENT		
Other surface owner description:		
BIA Local Office:		
BOR Local Office:		
COE Local Office:		
DOD Local Office:		
NPS Local Office:		
State Local Office:		
Military Local Office:		
USFWS Local Office:		
Other Local Office:		
USFS Region:		
USFS Forest/Grassland:	USFS Ranger District:	

Well Name: TOMB RAIDER 12 FED Well Number: 213H

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other Information

Right of Way needed? YES

Use APD as ROW? YES

ROW Type(s): 281001 ROW - ROADS,288100 ROW - O&G Pipeline,FLPMA (Powerline),Other

ROW Applications

SUPO Additional Information: All gas and water connections will be submitted by a third party gatherer at a later date.

Use a previously conducted onsite? YES

Previous Onsite information: 5/2/2017 Uber North/ Belloq onsite

Other SUPO Attachment

Tomb_Raider_12_Fed_213H_CTB_08-24-2017.pdf

Tomb_Raider_12_Fed_213H_Flowline_08-24-2017.pdf

Tomb_Raider_12_Fed_213H_CTB_Elec_20180104122347.PDF

Tomb_Raider_12_Fed_213H_Crude_20180104122401.PDF

Tomb_Raider_12_Fed_213H_Pad_Elec_20180104122416.PDF

ACCESS ROAD PLAT ACCESS ROAD FROM THE TOMB RAIDER 12-1 CTB 1 TO THE TOMB RAIDER 12 FED 213H & TOMB RAIDER MDP 13 PAD 3 DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO MAY 8, 2017 TOMB RAIDER 12 FED 213H TOMB RAIDER MDP 13 PAD 3 BC 1916 N89'43'23" N89'41'19"E 2637.86 FT. 2636.56 FT BC 1916 13 18 STA 14+60.8 E.O.R. STA 13+95.7 PI LEFT (TIE) -N77 29'08"E 1273.94 FT STA 13+22.7 PI LEFT N01'39'59"E STA 9+25.5 PI RIGHT 8 1 2 STA 4+08.5 PI LEFT STA 1+57.0 PI RIGHT STA 0+00 B.O.R. S89'59' 157.01 500 18 38 TOMB RAIDER 12-1 CTB 1-NO0.16 SEC 13 T.23S., R.31E. BC 1916 BLMᆸ S00*19 13 | 18 19^{BC} 1916 BC 1916 23 BC 1916 S89'42'56"W 2640.30 FT S89'41'05"W 2637.85 FT SEE NEXT SHEET (2-2) FOR DESCRIPTION 1000 SURVEYOR CERTIFICATE Scale: 1" = 1000 I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF MEN MEXICO. **GENERAL NOTES** 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT. IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, 2.) BASIS OF BEARING AND DISTANCE IS NMSP NEW MEXICO, THIS EAST (NAD83) MODIFIED TO SURFACE MADRON SURVEYING, INC. COORDINATES. NAD 83 (FEET) AND NAVD 88 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 (FEET) COORDINATE SYSTEMS USED IN THE

Phone (575) 234-3341

NEW MEXICO

CARLSBAD

SURVEY NO. 5239

SURVÉY.

SHEET: 1-2

MADRON SURVEYING

INC.

ACCESS ROAD PLAT

ACCESS ROAD FROM THE TOMB RAIDER 12-1 CTB 1 TO THE TOMB RAIDER 12 FED 213H & TOMB RAIDER MDP 13 PAD 3

DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO MAY 8, 2017

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NW/4 NE/4 OF SAID SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE EAST QUARTER CORNER OF SAID SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS \$47:55'48"E, A DISTANCE OF 2233.89 FFFT:

THENCE S89'59'29"W A DISTANCE OF 157.01 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N21'47'20"E A DISTANCE OF 251.49 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE NO1'39'59"E A DISTANCE OF 516.96 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N89'59'30"E A DISTANCE OF 397.22 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N45'02'56"E A DISTANCE OF 73.03 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE NOO'00'51"E A DISTANCE OF 65.04 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHEAST CORNER OF SAID SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N7729'08"E, A DISTANCE OF 1273.94 FEET:

SAID STRIP OF LAND BEING 1460.75 FEET OR 88.53 RODS IN LENGTH, CONTAINING 1.006 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NE/4 1301.18 L.F. 78.86 RODS 0.896 ACRES NE/4 NE/4 159.57 L.F. 9.67 RODS 0.110 ACRES

SURVEYOR CERTIFICATE

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVÉY

SHEET: 2-2

MADRON SURVEYING

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEDICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS

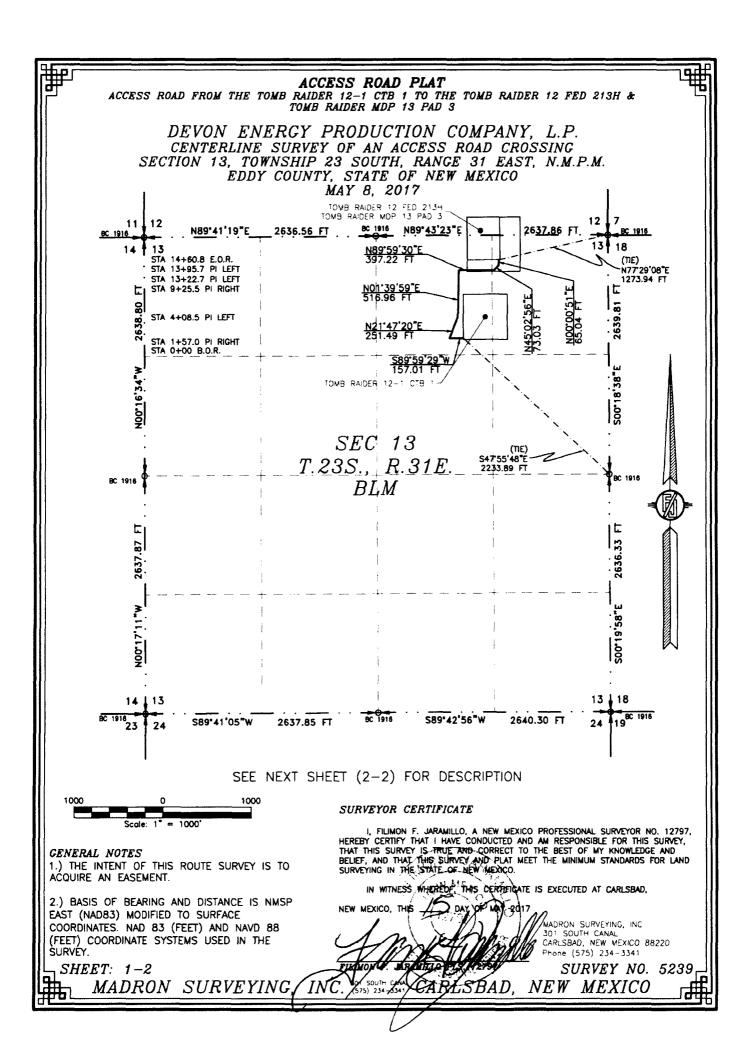
MADRON SURVEYING, INC. 201 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 none (575) 234-3341

SURVEY NO. 5239

NEW MEXICO

CARLSBAD

INC.



ACCESS ROAD PLAT

ACCESS ROAD FROM THE TOMB RAIDER 12-1 CTB 1 TO THE TOMB RAIDER 12 FED 213H & TOMB RAIDER MDP 13 PAD 3

DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO MAY 8. 2017

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

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THENCE \$89'59'29"W A DISTANCE OF 157.01 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N21'47'20"E A DISTANCE OF 251.49 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE NO1'39'59"E A DISTANCE OF 516.96 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED: THENCE N89'59'30"E A DISTANCE OF 397.22 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N45'02'56"E A DISTANCE OF 73.03 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

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SAID STRIP OF LAND BEING 1460.75 FEET OR 88.53 RODS IN LENGTH, CONTAINING 1.006 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NE/4 1301.18 L.F. 78.86 RODS 0.896 ACRES NE/4 NE/4 159.57 L.F. 9.67 RODS 0.110 ACRES

SURVEYOR CERTIFICATE

IND

GENERAL NOTES

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- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVÉY.

SHEET: 2-2

MADRON SURVEYING

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEDICO.

IN WITNESS WHEREOF, THIS CREDITION IS EXECUTED AT CARLSBAD.

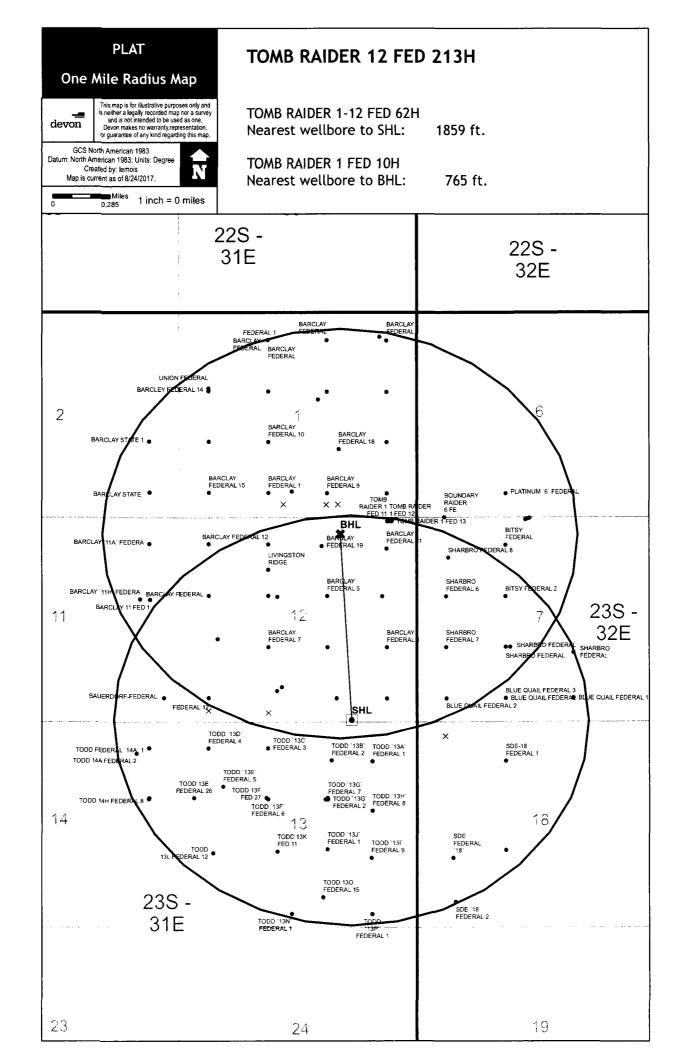
NEW MEXICO, THIS

ADRON SURVEYING, INC. 01 SOUTH CANAL ARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341

SURVEY NO. 5239

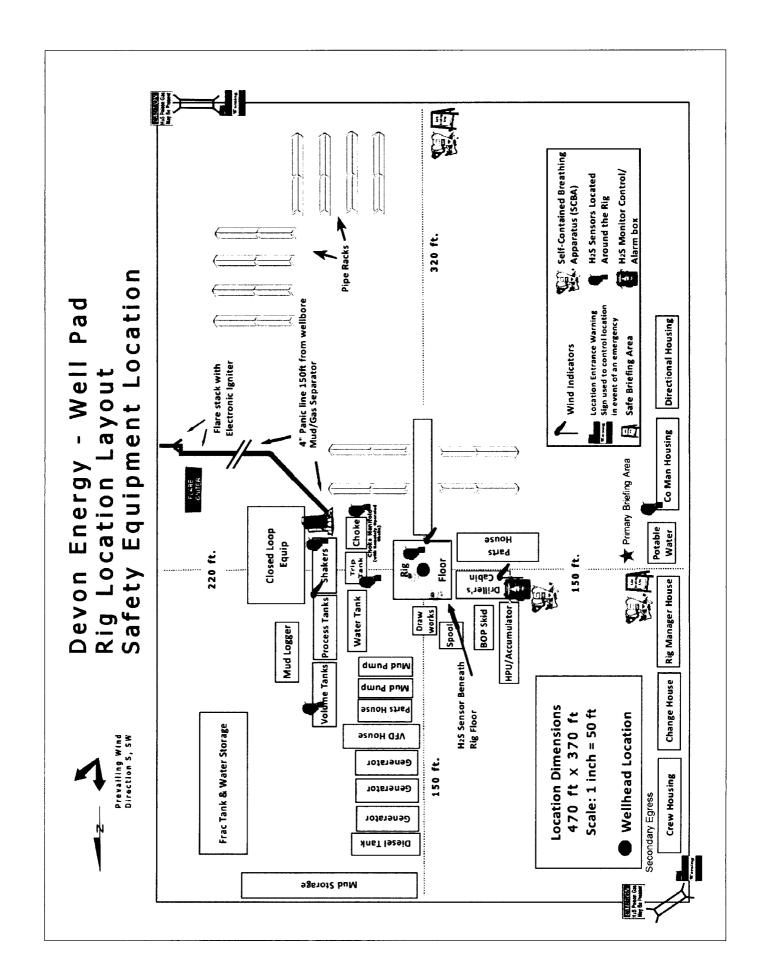
. V(S75) 23 SSA CARLSBAD

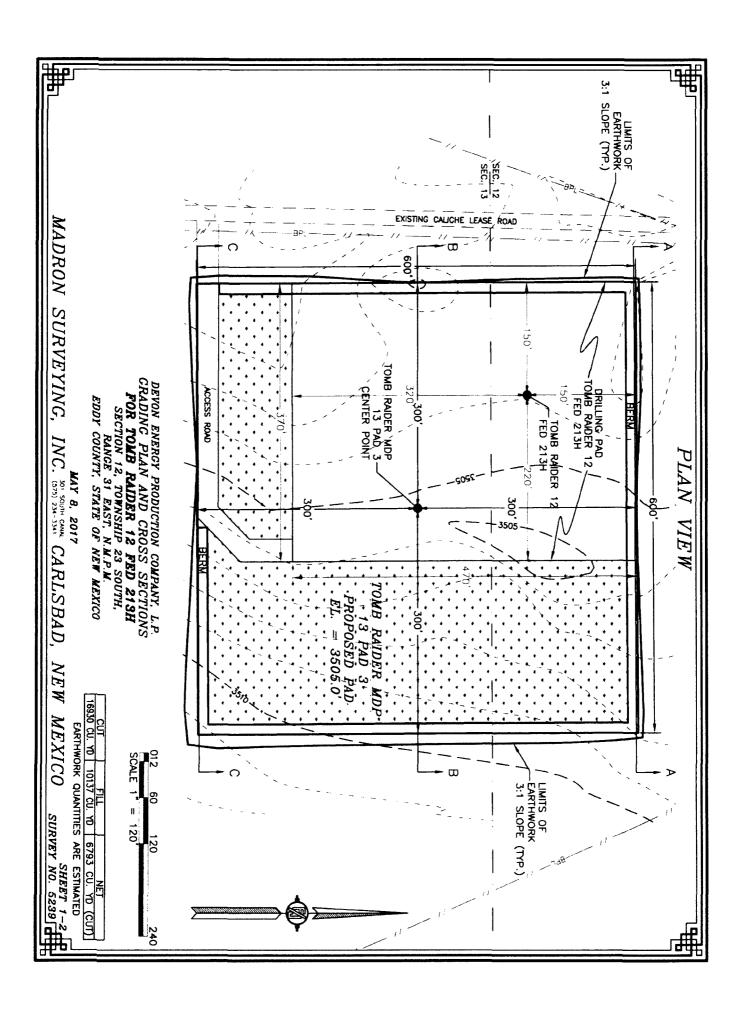
NEW MEXICO

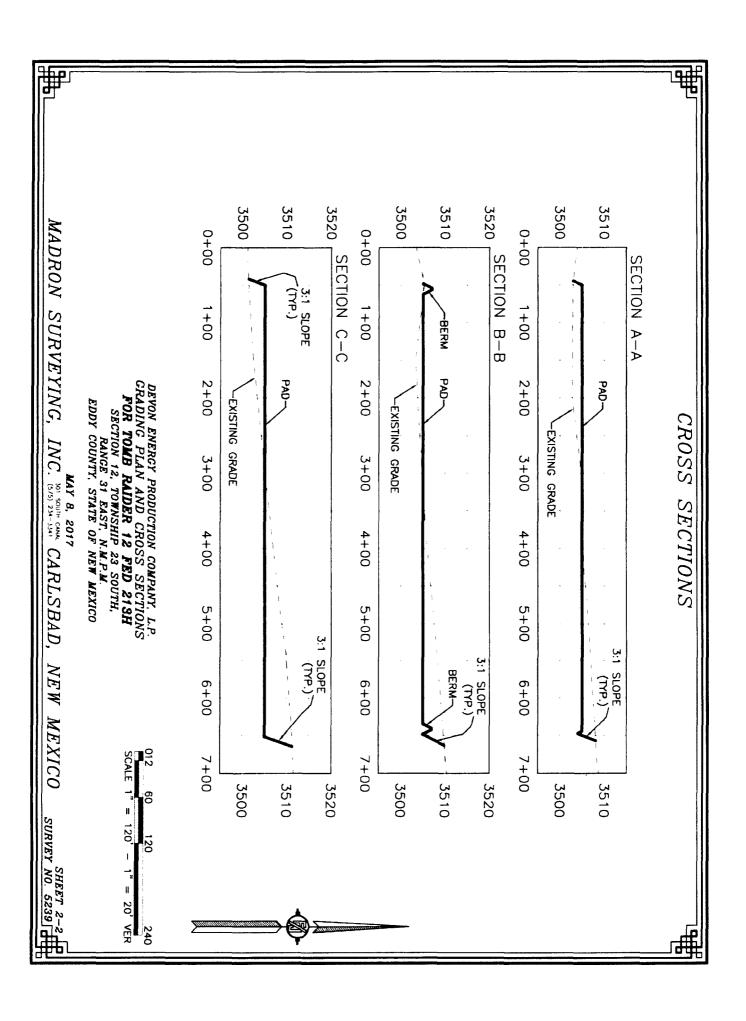


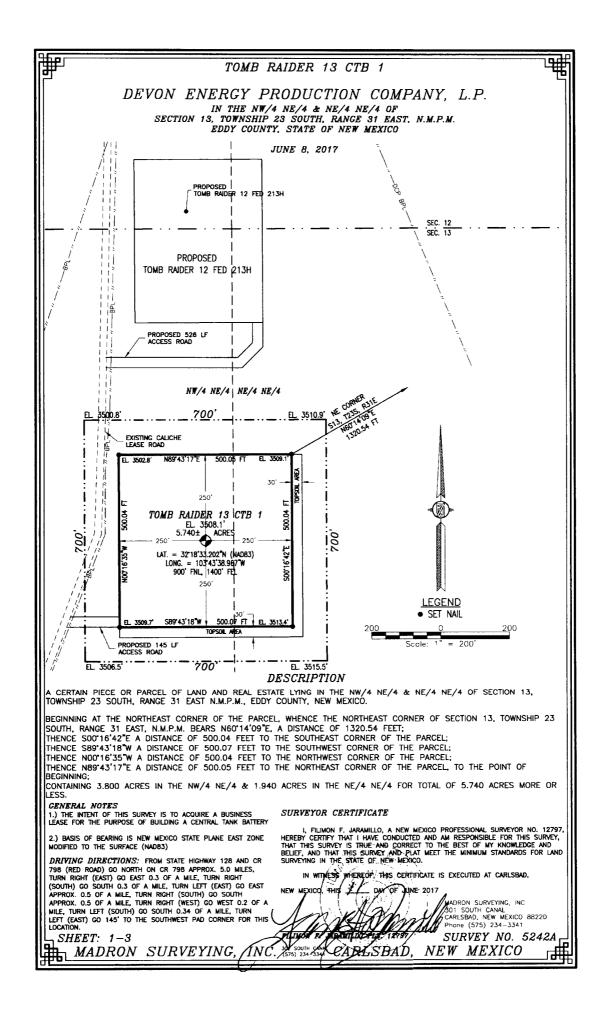


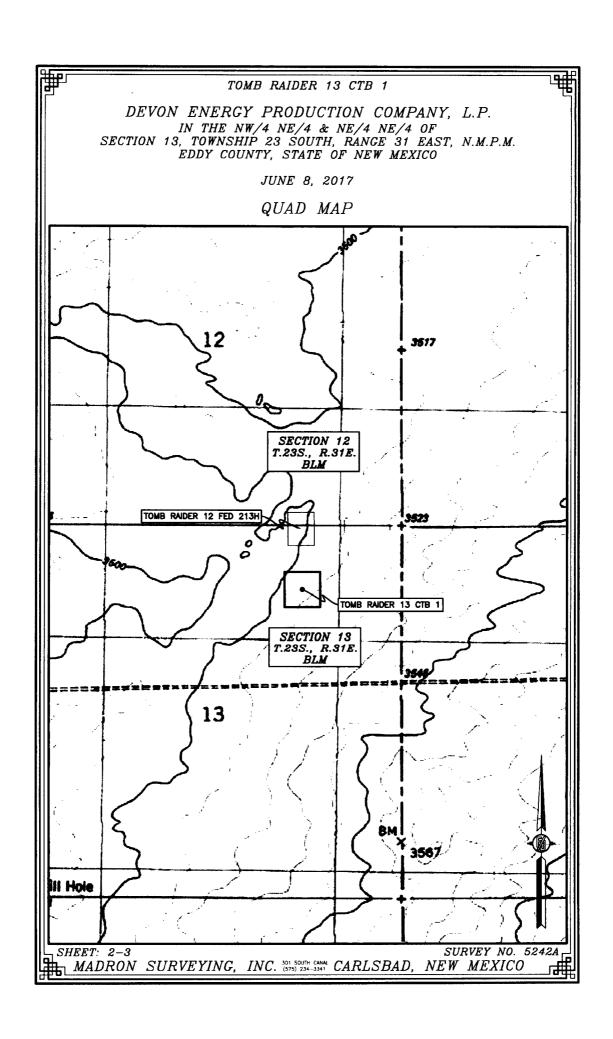










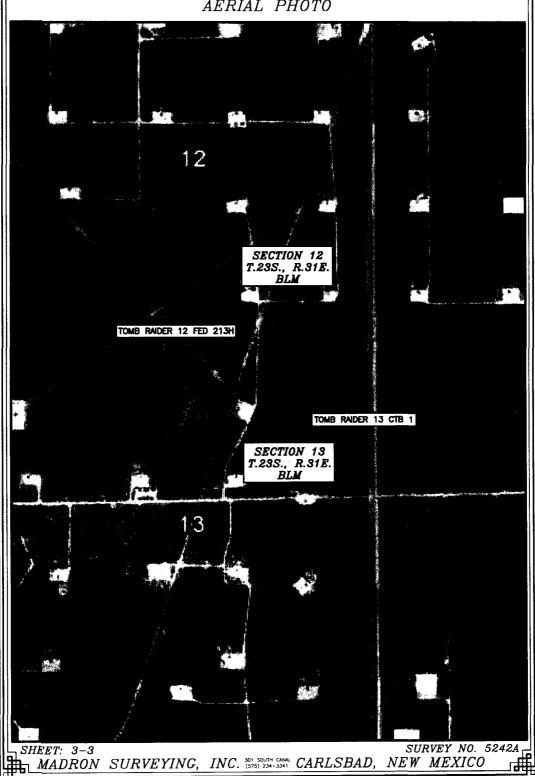


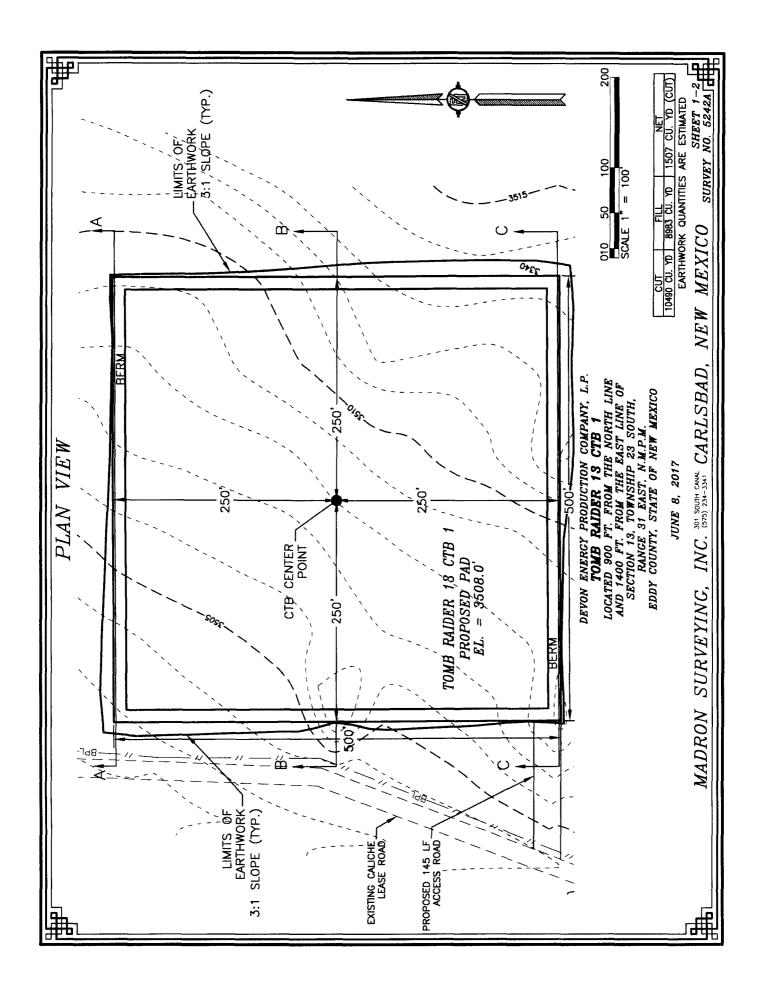
TOMB RAIDER 13 CTB 1

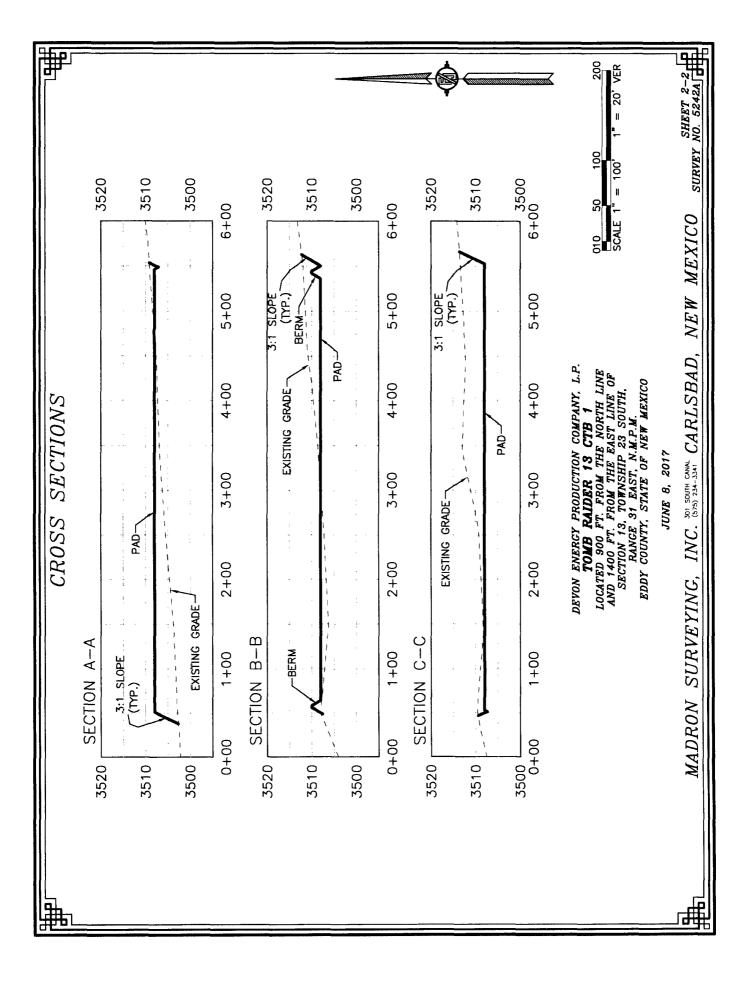
DEVON ENERGY PRODUCTION COMPANY, L.P. IN THE NW/4 NE/4 & NE/4 NE/4 OF
SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

JUNE 8, 2017

AERIAL PHOTO



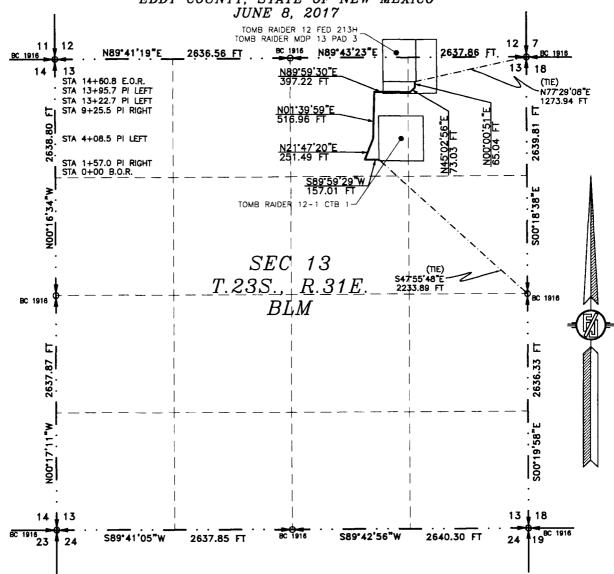




ACCESS ROAD PLAT

ACCESS ROAD FROM THE TOMB RAIDER 12-1 CTB 1 TO THE TOMB RAIDER 12 FED 213H & TOMB RAIDER MDP 13 PAD 3

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO



SEE NEXT SHEET (2-2) FOR DESCRIPTION



GENERAL NOTES

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 1-2

MADRON SURVEYING,

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS TO DAY ON JUNE 2817

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341

SURVEY NO. 5242A

INC. 30/ SOUTH CANAL CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT

ACCESS ROAD FROM THE TOMB RAIDER 12-1 CTB 1 TO THE TOMB RAIDER 12 FED 213H & TOMB RAIDER MDP 13 PAD 3

DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO JUNE 8, 2017

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE

BEGINNING AT A POINT WITHIN THE NW/4 NE/4 OF SAID SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE EAST QUARTER CORNER OF SAID SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS \$47.55'48"E, A DISTANCE OF 2233.89 FEET:

THENCE \$89'59'29"W A DISTANCE OF 157.01 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N21"47"20"E A DISTANCE OF 251.49 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N01"39"59"E A DISTANCE OF 516.96 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N89'59'30"E A DISTANCE OF 397.22 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N45'02'56"E A DISTANCE OF 73.03 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE NOO'00'51"E A DISTANCE OF 65.04 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHEAST CORNER OF SAID SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N77'29'08"E, A DISTANCE OF 1273.94 FEET;

SAID STRIP OF LAND BEING 1460.75 FEET OR 88.53 RODS IN LENGTH, CONTAINING 1.006 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NE/4 1301.18 L.F. 78.86 RODS 0.896 ACRES 159.57 L.F. 9.67 RODS 0.110 ACRES NE/4 NE/4

SURVEYOR CERTIFICATE

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVÉY.

SHEET: 2-2

MADRON SURVEYING.

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT L.HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS DAY OF TUNE 2017

MADRON SURVEYING, INC SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341

SURVEY NO. 5242A

FILMON Y SUMMING PLS CARLSBAD /INC. 375 *NEW MEXICO*

FLOWLINE PLAT

ONE-4" POLY FLOWLINE & ONE-6" GAS LIFT LINE BURIED IN THE SAME DITCH FROM TOMB RAIDER 12 FEDERAL 21SH TO TOMB RAIDER 13 CTB 1

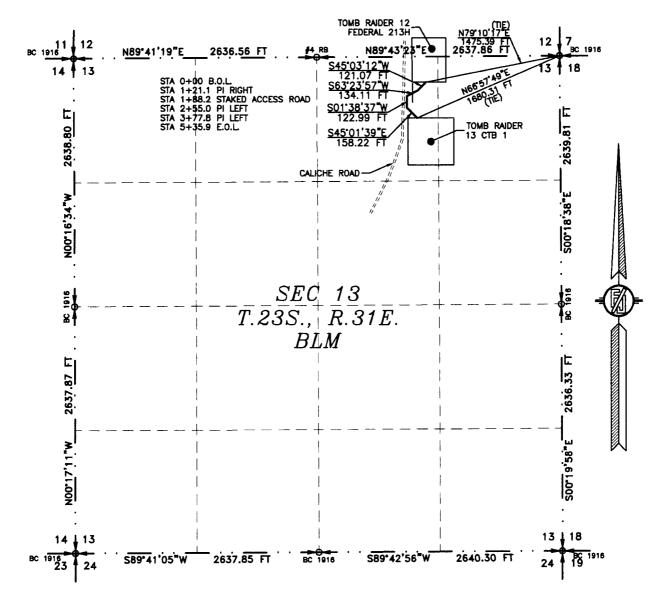
DEVON ENERGY PRODUCTION COMPANY, L.P.

CENTERLINE SURVEY OF A PIPELINE CROSSING

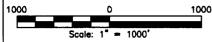
SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO

AUGUST 9, 2017



SEE NEXT SHEET (2-4) FOR DESCRIPTION



GENERAL NOTES

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 1-4

MADRON SURVEYING, (INC.

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHIEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO THIS _____ DAY OF MIGUST 2017

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341

SURVEY NO. 5406

301 SOUTH CANAL CARLSBAD, NEW MEXICO

FLOWLINE PLAT

ONE-4" POLY FLOWLINE & ONE-6" GAS LIFT LINE BURIED IN THE SAME DITCH FROM TOMB RAIDER 12 FEDERAL 213H TO TOMB RAIDER 13 CTB 1

> DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF A PIPELINE CROSSING SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO AUGUST 9, 2017

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NW/4 NE/4 OF SAID SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTHEAST CORNER OF SAID SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N66'57'49"E, A DISTANCE OF 1680.31 FEET;

THENCE N45'01'39"W A DISTANCE OF 158.22 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE NO1'38'37"E A DISTANCE OF 122.99 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N63'23'57"E A DISTANCE OF 134.11 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N45'03'12"E A DISTANCE OF 121.07 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHEAST CORNER OF SAID SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N79'10'17"E, A DISTANCE OF 1475.39 FEET;

SAID STRIP OF LAND BEING 536.39 FEET OR 32.51 RODS IN LENGTH, CONTAINING 0.369 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NE/4 536.39 L.F. 32.51 RODS 0.369 ACRES

SURVEYOR CERTIFICATE

THUMON E

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 2-4

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

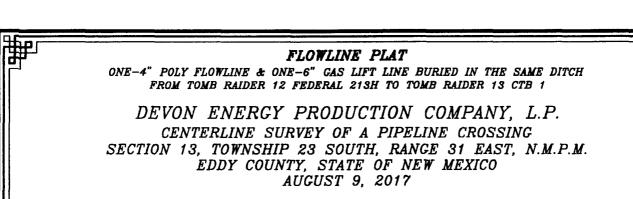
IN/WITHERS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

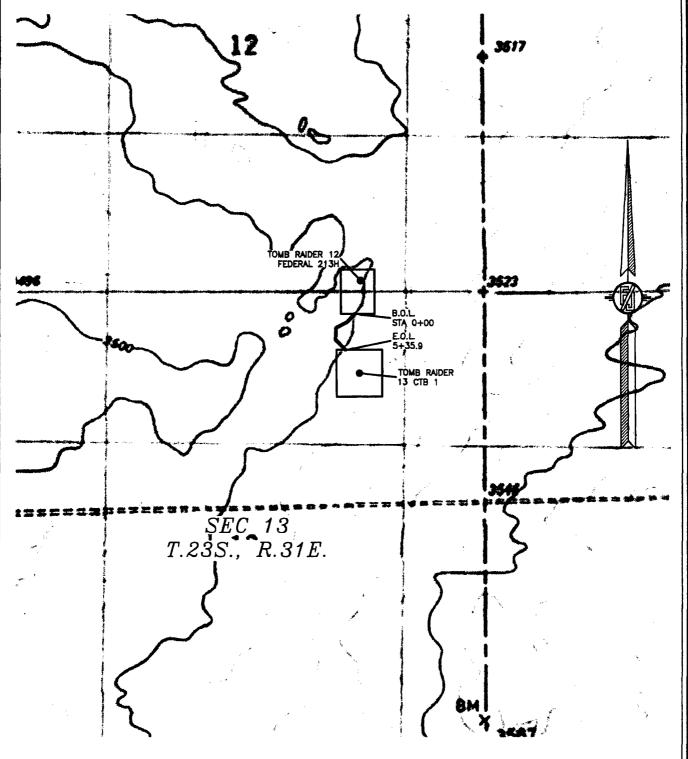
DAY OF AUGUST 2017 NEW MEXICO, THIS

> MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341

> > SURVEY NO. 5406

JARAMHIO PLS





SHEET: 3-4
SURVEY NO. 5406
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

FLOWLINE PLAT

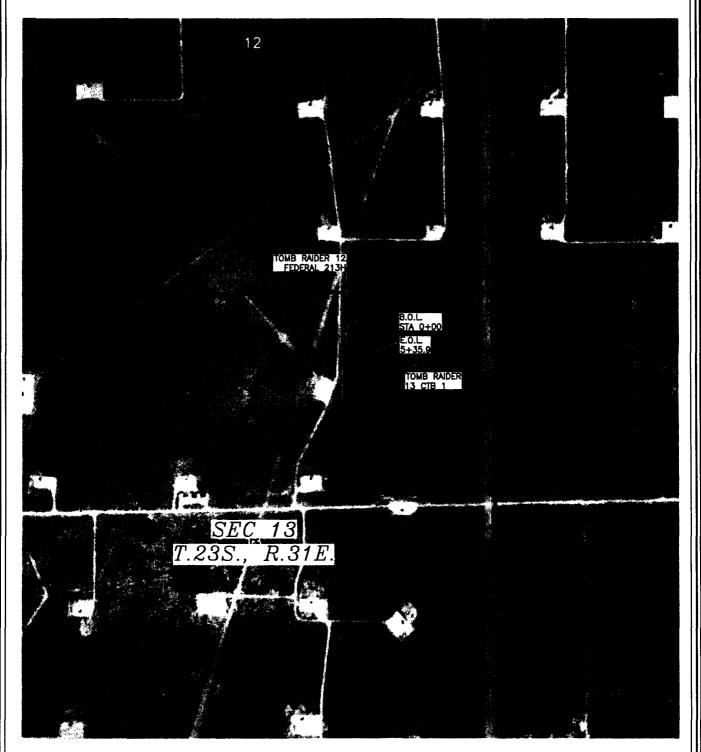
ONE-4" POLY FLOWLINE & ONE-6" GAS LIFT LINE BURIED IN THE SAME DITCH FROM TOMB RAIDER 12 FEDERAL 213H TO TOMB RAIDER 13 CTB 1

DEVON ENERGY PRODUCTION COMPANY, L.P.

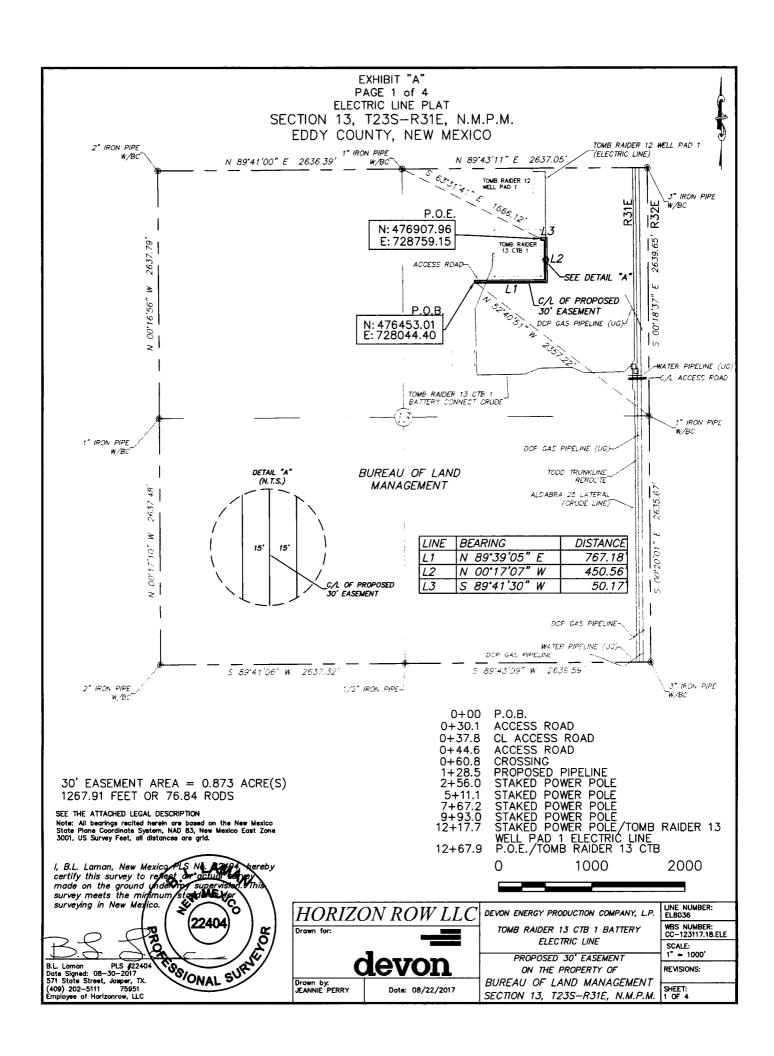
CENTERLINE SURVEY OF A PIPELINE CROSSING
SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO

AUGUST 9, 2017



SHEET: 4-4
SURVEY NO. 5406
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO



SECTION 13, T23S-R31E, N.M.P.M., EDDY COUNTY, NEW MEXICO

ELECTRIC LINE PLAT

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of Section 13, Township 23 South, Range 31 East, N.M.P.M., Eddy County, New Mexico, and being out of a parcel of land owned by the Bureau of Land Management. Said centerline of easement being more particularly described as follows:

Commencing from a 1" iron pipe w/ BC found for the east quarter corner of Section 13, T23S-R31E, N.M.P.M., Eddy County, New Mexico;

Thence N 52°40'51" W, a distance of 2357.22' to the **Point of Beginning** of this easement, having coordinates of Northing=476453.01 feet, Easting=728044.40 feet, and continuing the following courses;

Thence N 89°39'05" E, a distance of 767.18' an angle point;

Thence N 00°17'07" W, a distance of 450.56' an angle point;

Thence S 89°41'30" W, a distance of 50.17' to the **Point of Ending**, having coordinates of Northing=476907.96 feet, Easting=728759.15 feet, from said point a 1" iron pipe w/ BC found for the north quarter corner of Section 13, T23S-R31E, N.M.P.M., Eddy County, New Mexico bears N 63°31'41" W a distance of 1666.12', covering a total of 1267.91' or 76.84 rods and having an area of 0.873 acres.

NOTES:

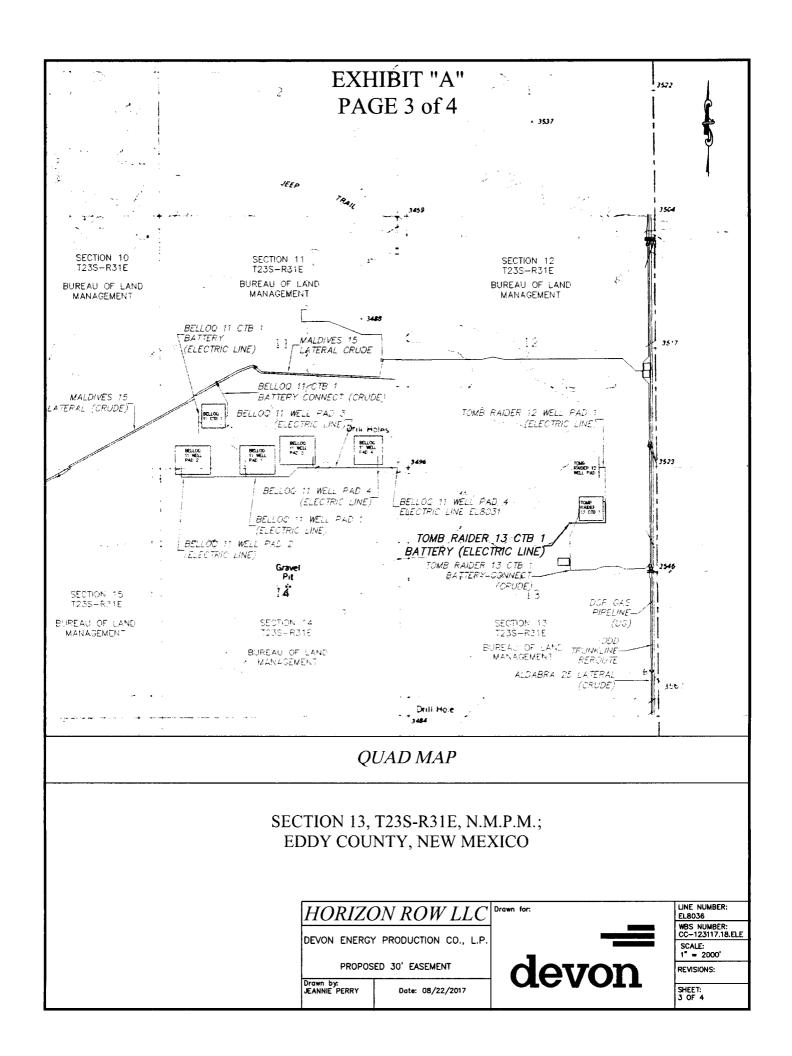
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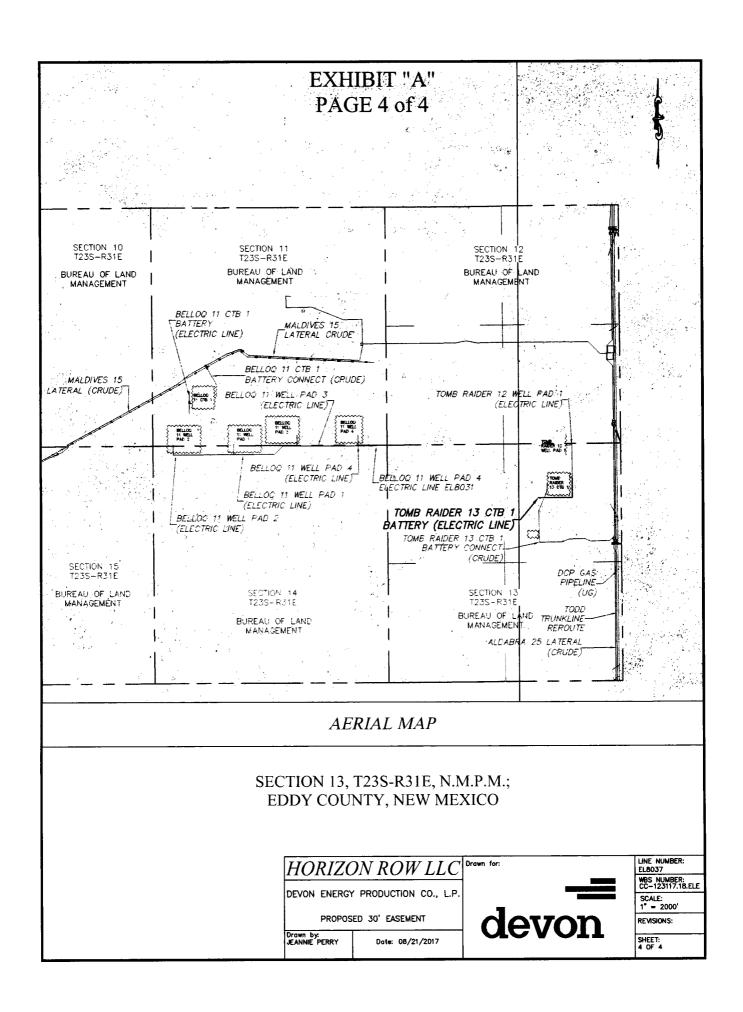
I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

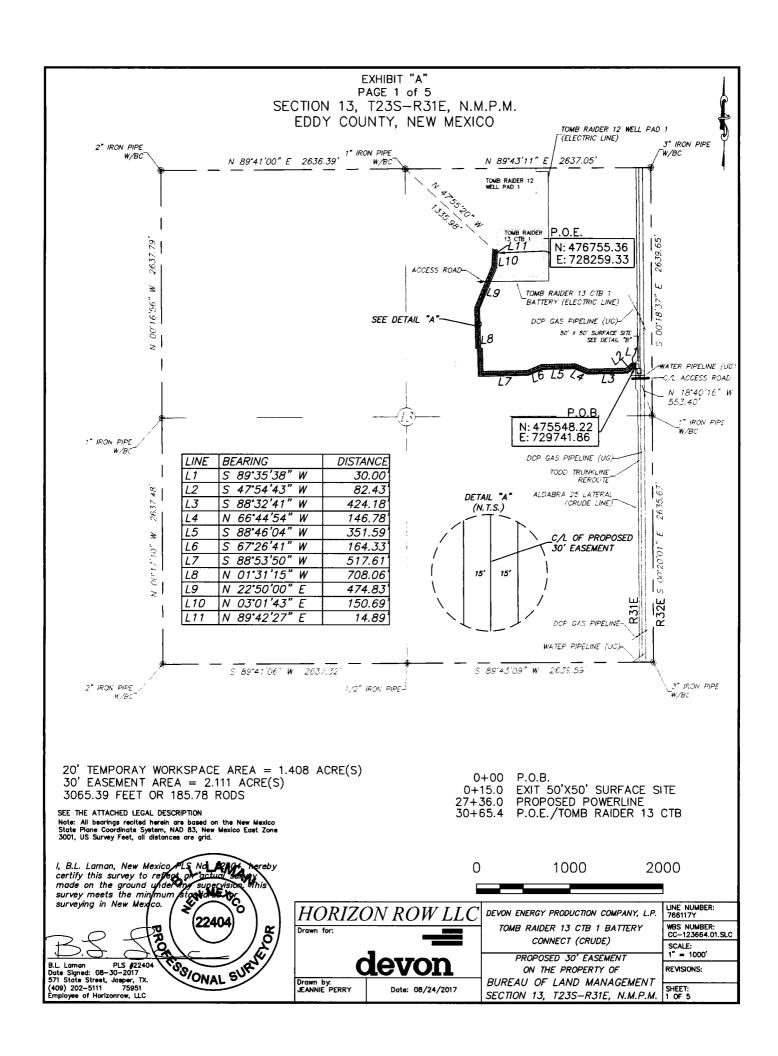
B.L. Laman

Date Signed: 08/30/2017 Horizon Row, LLC

571 State Street, Jasper, TX 75951 (409) 202-5111







ELECTRIC LINE PLAT

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

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Commencing from a 1" iron pipe w/ BC found for the east quarter corner of Section 13, T23S-R31E, N.M.P.M., Eddy County, New Mexico;

Thence N 18°40'16" W, a distance of 553.40' to the **Point of Beginning** of this easement, having coordinates of Northing=475548.22 feet, Easting=729741.86 feet, and continuing the following courses;

Thence S 89°35'38" W, a distance of 30.00' an angle point;

Thence S 47°54'43" W, a distance of 82.43' an angle point;

Thence S 88°32'41" W, a distance of 424.18' an angle point;

Thence N 66°44'54" W, a distance of 146.78' an angle point;

Thence S 88°46'04" W, a distance of 351.59' an angle point;

Thence S 67°26'41" W, a distance of 164.33' an angle point;

Thence S 88°53'50" W, a distance of 517.61' an angle point;

Thence N 01°31'15" W, a distance of 708.06' an angle point;

Thence N 22°50'00" E, a distance of 474.83' an angle point;

Thence N 03°01'43" E, a distance of 150.69' an angle point;

Thence N 89°42'27" E, a distance of 14.89' to the **Point of Ending**, having coordinates of Northing=476755.36 feet, Easting=728259.33 feet, from said point a 1" iron pipe w/ BC found for the north quarter corner of Section 13, T23S-R31E, N.M.P.M., Eddy County, New Mexico bears N 47°55'20" W a distance of 1335.98', covering a total of **3065.39' or 185.78 rods** and having an area of **2.111 acres**.

20' TEMPORARY WORK SPACE DESCRIPTION:

Being a temporary work space twenty (20) feet in width lying on the right side and adjoining the right side from station 0+00.0 to station 20+00.0 and also a temporary work space twenty (20) feet in width lying on

the left side and adjoining the left side of the above described thirty (30) feet easement from station 20+00.0 to station 30+65.4, having a total area of **1.408 acres**.

NOTES:

Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

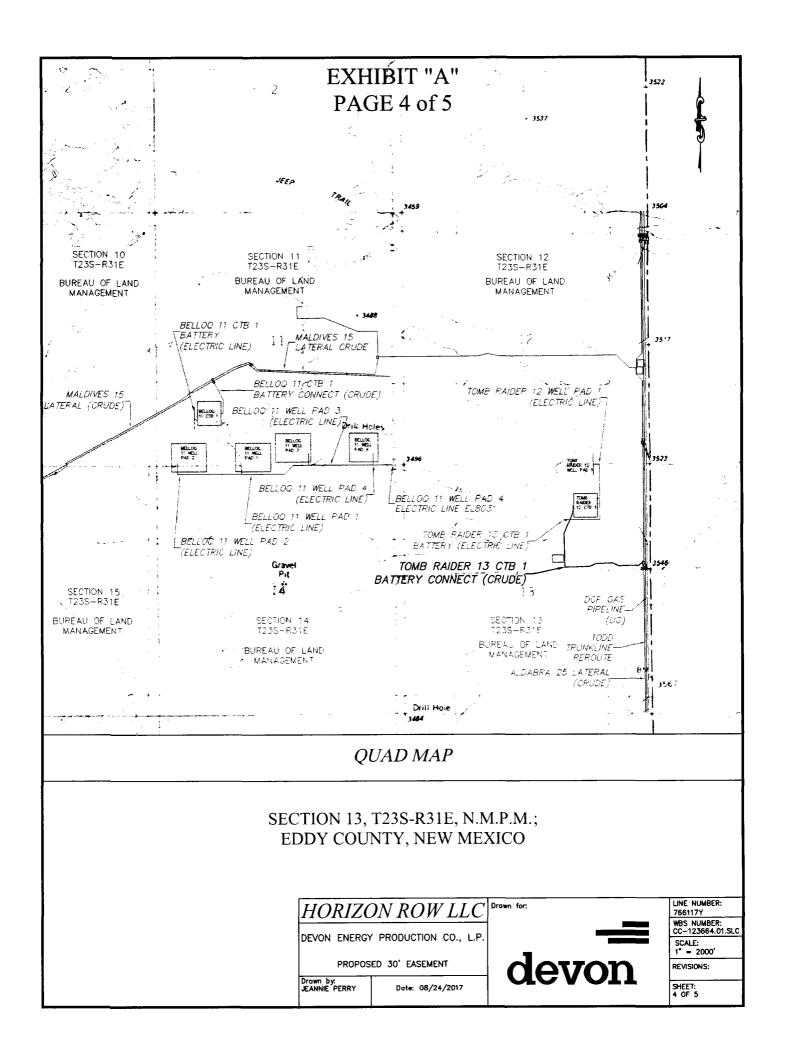
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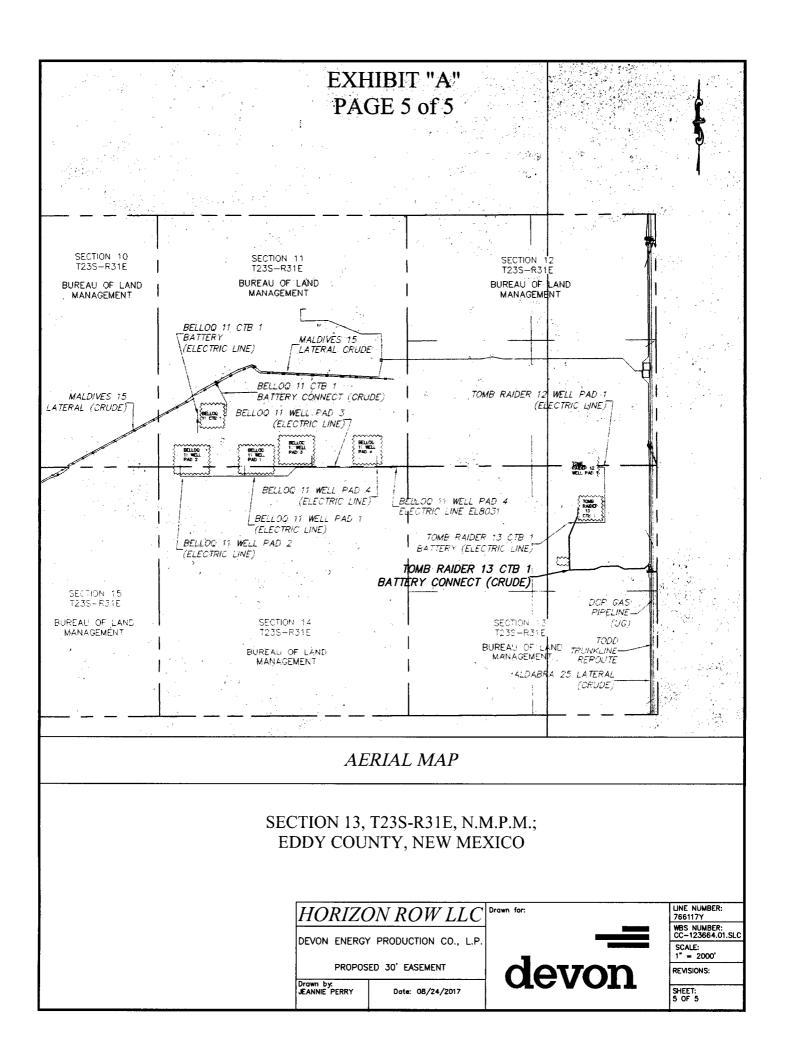
B.L. Laman

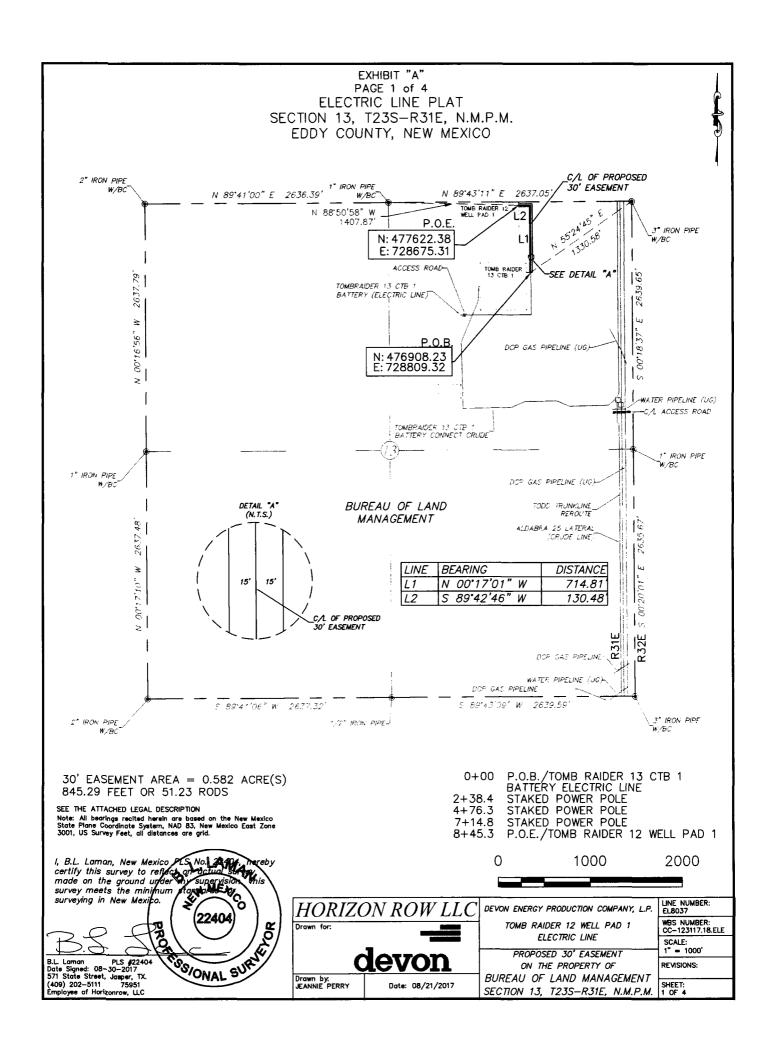
PLS 22404

Date Signed: 08/30/2017 Horizon Row, LLC

571 State Street, Jasper, TX (409) 202-5111 7595







SECTION 13, T23S-R31E, N.M.P.M., EDDY COUNTY, NEW MEXICO

ELECTRIC LINE PLAT

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

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Commencing from a 3" iron pipe w/ BC found for the northeast corner of Section 13, T23S-R31E, N.M.P.M., Eddy County, New Mexico;

Thence S 55°24'45" W, a distance of 1330.58' to the **Point of Beginning** of this easement, having coordinates of Northing=476908.23 feet, Easting=728809.32 feet, and continuing the following courses;

Thence N 00°17'01" W, a distance of 714.81' an angle point;

Thence S 89°42'46" W, a distance of 130.48' to the **Point of Ending**, having coordinates of Northing=477622.38 feet, Easting=728675.31 feet, from said point a 1" iron pipe w/ BC found for the north quarter corner of Section 13, T23S-R31E, N.M.P.M., Eddy County, New Mexico bears N 88°50'58" W a distance of 1407.87', covering a total of **845.29' or 51.23 rods** and having an area of **0.582 acres**.

NOTES:

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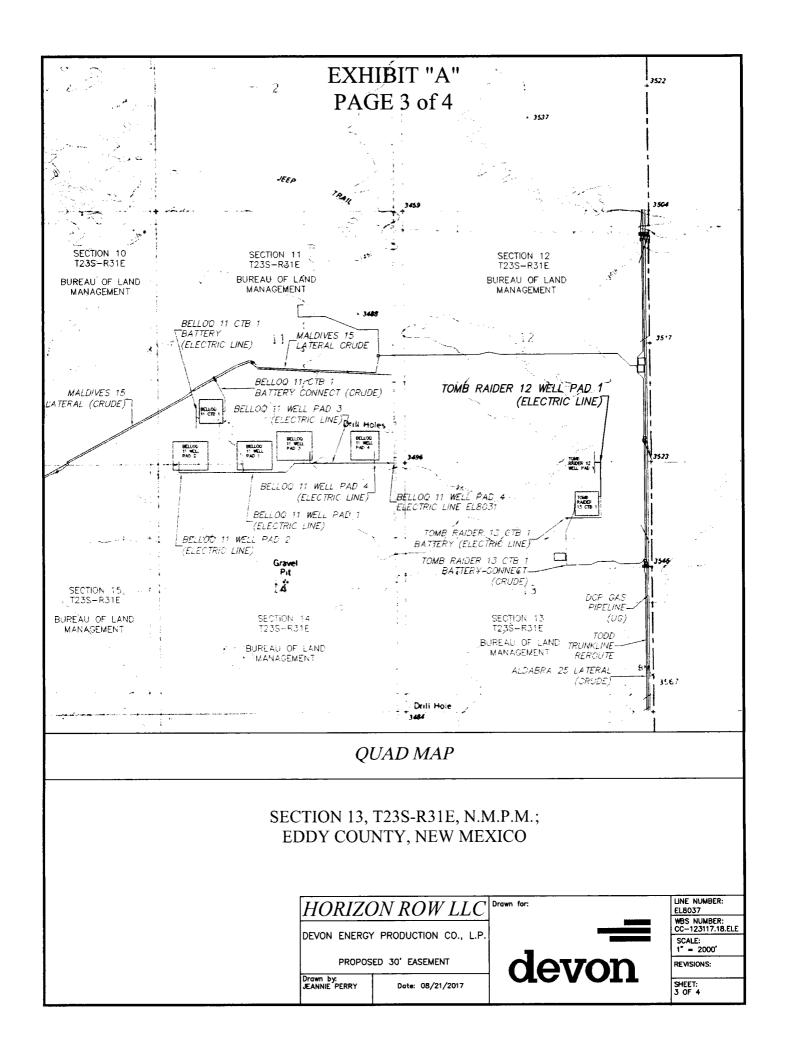
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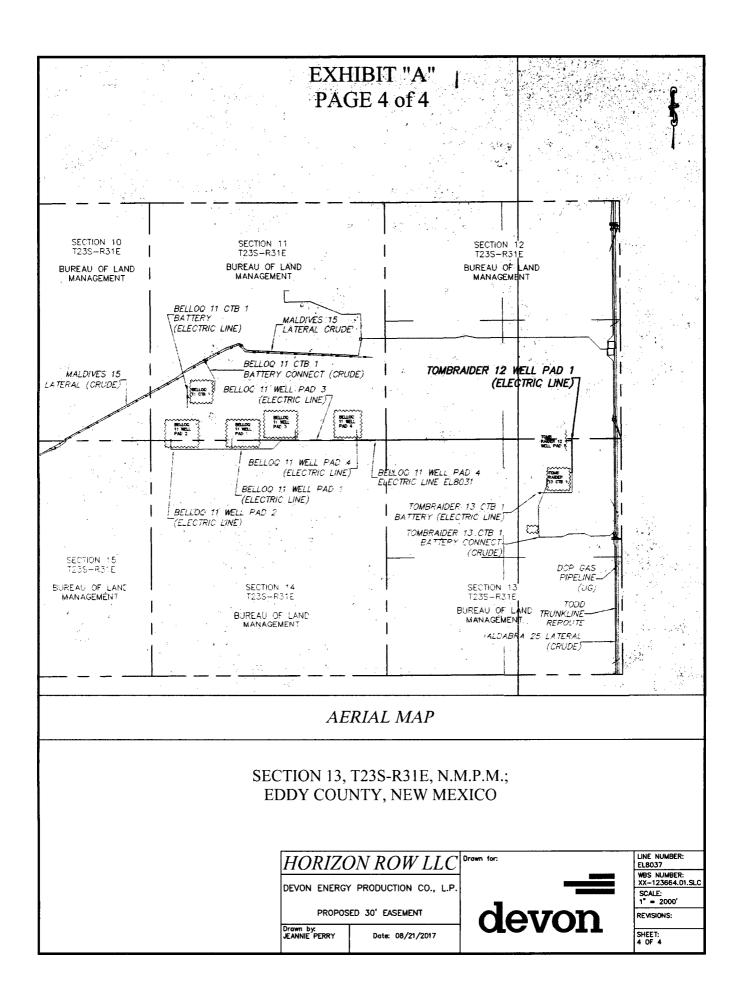
B.L. Laman

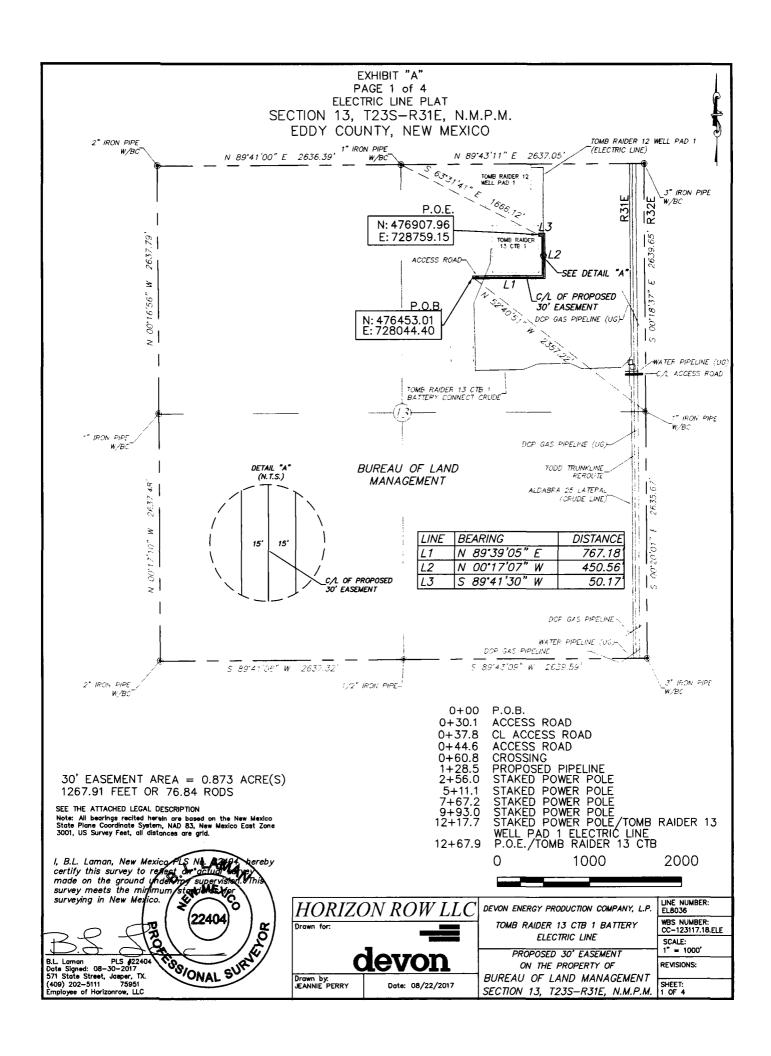
PLS 22404

Date Signed: 08/30/2017 Horizon Row, LLC

571 State Street, Jasper, TX (409) 202-5111 75951







SECTION 13, T23S-R31E, N.M.P.M., EDDY COUNTY, NEW MEXICO

ELECTRIC LINE PLAT

LEGAL DESCRIPTION

FOR

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BUREAU OF LAND MANAGEMENT

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Thence N 00°17'07" W, a distance of 450.56' an angle point;

Thence S 89°41'30" W, a distance of 50.17' to the **Point of Ending**, having coordinates of Northing=476907.96 feet, Easting=728759.15 feet, from said point a 1" iron pipe w/ BC found for the north quarter corner of Section 13, T23S-R31E, N.M.P.M., Eddy County, New Mexico bears N 63°31'41" W a distance of 1666.12', covering a total of **1267.91' or 76.84 rods** and having an area of **0.873 acres**.

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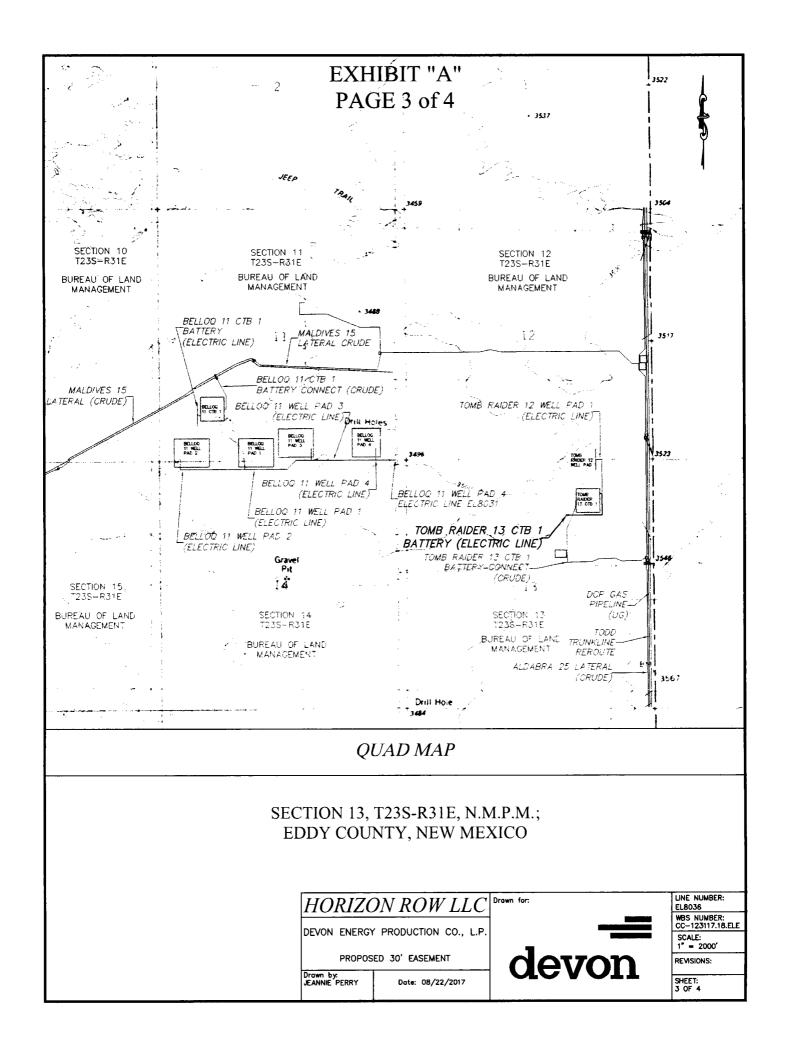
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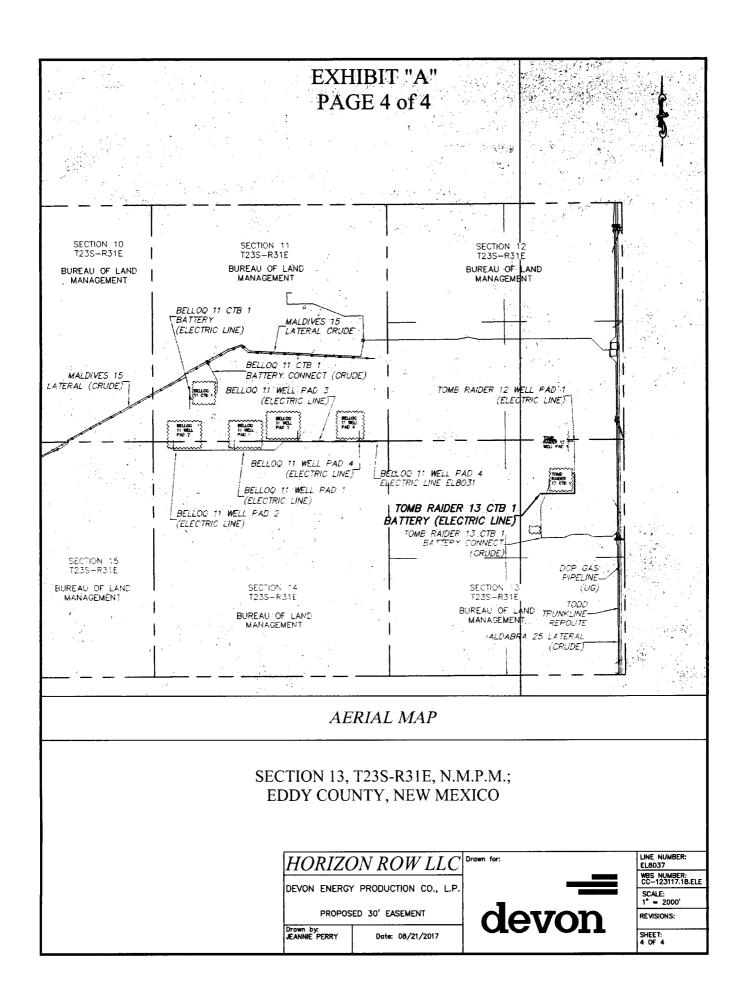
B.L. Laman

PLS 22404

Date Signed: 08/30/2017 Horizon Row, LLC

571 State Street, Jasper, TX (409) 202-5111 7595







Lined pit bond number: Lined pit bond amount:

Additional bond information attachment:



Section 1 - General

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

Section 2 - Lined Pits Would you like to utilize Lined Pit PWD options? NO Produced Water Disposal (PWD) Location: PWD surface owner: PWD disturbance (acres): Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit specifications: Pit liner description: Pit liner manufacturers information: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit: Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule attachment: Lined pit reclamation description: Lined pit reclamation attachment: Leak detection system description: Leak detection system attachment: Lined pit Monitor description: **Lined pit Monitor attachment:** Lined pit: do you have a reclamation bond for the pit? Is the reclamation bond a rider under the BLM bond?

Section 3 - Unlined Pits

Injection well mineral owner:

Would you like to utilize Unlined Pit PWD options? NO

	Produced Water Disposal (PWD) Location:		
	PWD surface owner:	PWD disturbance (acres):	
	Unlined pit PWD on or off channel:		
	Unlined pit PWD discharge volume (bbl/day):		
	Unlined pit specifications:		
	Precipitated solids disposal:		
	Decribe precipitated solids disposal:		
	Precipitated solids disposal permit:		
	Unlined pit precipitated solids disposal schedule:		
	Unlined pit precipitated solids disposal schedule attachment:		
	Unlined pit reclamation description:		
	Unlined pit reclamation attachment:		
	Unlined pit Monitor description:		
	Unlined pit Monitor attachment:		
	Do you propose to put the produced water to beneficial use?		
	Beneficial use user confirmation:		
Estimated depth of the shallowest aquifer (feet):			
	Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less that that of the existing water to be protected?		
	TDS lab results:		
	Geologic and hydrologic evidence:		
	State authorization:		
	Unlined Produced Water Pit Estimated percolation:		
	Unlined pit: do you have a reclamation bond for the pit?		
	Is the reclamation bond a rider under the BLM bond?		
	Unlined pit bond number:		
	Unlined pit bond amount:		
	Additional bond information attachment:		
	Section 4 - Injection	-	
	•		
Would you like to utilize Injection PWD options? NO			
	Produced Water Disposal (PWD) Location:		
	PWD surface owner:	PWD disturbance (acres):	
	Injection PWD discharge volume (bbl/day):		

Injection well type:	
Injection well number:	Injection well name:
Assigned injection well API number?	Injection well API number:
Injection well new surface disturbance (acres):	
Minerals protection information:	
Mineral protection attachment:	
Underground Injection Control (UIC) Permit?	
UIC Permit attachment:	
Section 5 - Surface Discharge	
Would you like to utilize Surface Discharge PWD options? NO	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Surface discharge PWD discharge volume (bbl/day):	
Surface Discharge NPDES Permit?	
Surface Discharge NPDES Permit attachment:	
Surface Discharge site facilities information:	
Surface discharge site facilities map:	
Section 6 - Other	
Would you like to utilize Other PWD options? NO	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Other PWD discharge volume (bbl/day):	
Other PWD type description:	
Other PWD type attachment:	
Have other regulatory requirements been met?	
Other regulatory requirements attachment:	



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

Bond Info Data Report 03/13/2018

Bond Information

Federal/Indian APD: FED

BLM Bond number: CQ1104

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: