Form 3160-3 (June 2015)

JUN 1 4 2019

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

5. Lease Serial No.

UNITED STATES DEPARTMENT OF THE INTERIOR

	GEME DISTRICTII-ARIESIAU. U							
APPLICATION FOR PERMIT TO DE	RILL OR REENTER	6. If Indian, Allotee or Trib	e Name					
		12.1011.1.01.1.0						
1a. Type of work:	ENTER	7. If Unit or CA Agreemen	t, Name and No.					
1b. Type of Well: Oil Well Gas Well Oth	her	8. Lease Name and Well No	9					
1c. Type of Completion: Hydraulic Fracturing Sin	ngle Zone Multiple Zone	BORA BORA 13-24 FED	1. 1					
	<u> </u>	215H 215H	COM C					
		32576						
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY LP	<u> </u>	9. API-Well No. / /	16117					
3a. Address	3b. Phone No. (include area code)	Field and Pool, or Expl	•					
333 West Sheridan Avenue Oklahoma City OK 73102	(800)583-3866	LININGSTON RIDGE / B						
4. Location of Well (Report location clearly and in accordance w	ith any State requirements.*)	11. Sec., T. R. M. or Blk. ar						
At surface NENE / 100 FNL / 1180 FEL / LAT 32.31142	09 / LONG -103.7267782	SEC 137 T235 / R31E / I	MMP					
At proposed prod. zone SESE / 20 FSL / 1250 FEL / LAT	32.2827366 / LONG -103.7270112							
14. Distance in miles and direction from nearest town or post office	ee*	12. County or Parish EDDY	13. State NM					
15. Distance from proposed* 100 feet	16. No of acres in lease 17. Space	cing Unit dedicated to this well	1					
location to nearest property or lease line, ft.	1440 320	V						
(Also to nearest drig. unit line, if any)								
18. Distance from proposed location*	19. Proposed Depth 20. BLM/BIA Bond No. in file							
to nearest well, drilling, completed, applied for, on this lease, ft.	10240 feet / 20511 feet FED: C	O1104						
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration						
3507 feet	05/26/2019	45 days						
	24. Attachments	-1						
The following, completed in accordance with the requirements of	Onshore Oil and Gas Order No. 1, and the	Hydraulic Fracturing rule per	43 CFR 3162.3-3					
(as applicable)								
1. Well plat certified by a registered surveyor.	4. Bond to cover the operation	ons unless covered by an existir	ng bond on file (see					
2. A Drilling Plan.	Item 20 above).	•						
3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office)	1 Lands, the 5. Operator certification.	ormation and/or plans as may be	requested by the					
3010 must be med with the appropriate rotest service office)	BLM.	ormation and/or plans as may be	requested by the					
25. Signature	Name (Printed/Typed)	Date						
(Electronic Submission)	Jenny Harms / Ph: (405)552-656	0 11/26	5/2018					
Title Regulatory Compliance Professional								
Approved by (Signature)	Name (Printed/Typed)	Date	/00.40					
(Electronic Submission)	Cody Layton / Ph: (575)234-5959 06/11/2019							
Title Assistant Field Manager Lands & Minerals	Office CARLSBAD							
Application approval does not warrant or certify that the applicant applicant to conduct operations thereon.	holds legal or equitable title to those right	s in the subject lease which we	ould entitle the					
Conditions of approval, if any, are attached.								
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, ma	ake it a crime for any person knowingly an	d willfully to make to any den	artment or agency					
of the United States any false, fictitious or fraudulent statements o		• • • •	aranem or agency					

(Continued on page 2)

Approval Date: 06/11/2019

*(Instructions on page 2)

INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

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

AUTHORITY: 30 U.S.C. 181 et seq., 25 U(\$48, 396; 43 CFR 3160

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

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

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

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

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

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

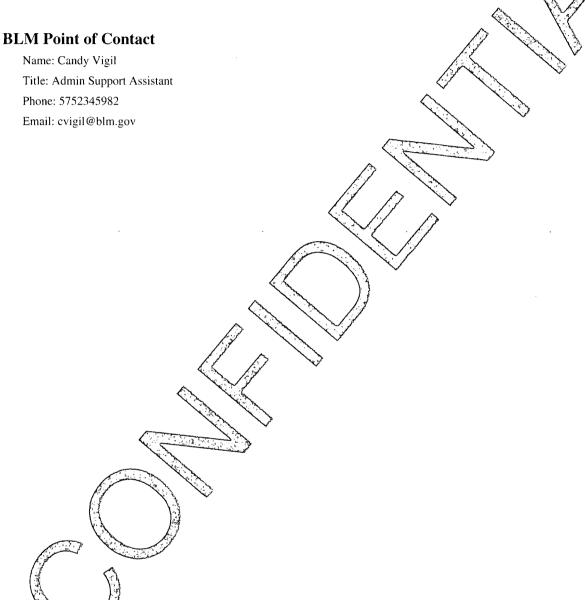
Additional Operator Remarks

Location of Well

1. SHL: NENE / 100 FNL / 1180 FEL / TWSP: 23S / RANGE: 31E / SECTION: 13 / LAT: 32.3114209 / LONG: -103.7267782 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 100 FNL / 1250 FEL / TWSP: 23S / RANGE: 31E / SECTION: 13 / LAT: 32.3114211 / LONG: -103.7270046 (TVD: 9930 feet, MD: 9939 feet)

BHL: SESE / 20 FSL / 1250 FEL / TWSP: 23S / RANGE: 31E / SECTION: 24 / LAT: 32.2827366 / LONG: -103.727012 (TVD: 10240 feet, MD: 20511 feet)



(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



(Form 3160-3, page 4)

- o Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Devon Energy Production Company LP

LEASE NO.: | NMNM0404441

WELL NAME & NO.: | Bora Bora 13-24 Fed Com 215H

SURFACE HOLE FOOTAGE: 100'/N & 1180'/E **BOTTOM HOLE FOOTAGE** 20'/S & 1250'/E

LOCATION: Section 13, T.23 S., R.31 E., NMPM

COUNTY: Eddy County, New Mexico

COA

H2S	r Yes	C No	
Potash	None	© Secretary	↑ R-111-P
Cave/Karst Potential	ເ Low	○ Medium	C High
Variance	None .	Flex Hose	Other
Wellhead	Conventional	○ Multibowl	© Both
Other		Capitan Reef	□ WIPP
Other	Fluid Filled	Cement Squeeze	☐ Pilot Hole
Special Requirements		☑ COM	□ Unit

A. HYDROGEN SULFIDE

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

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 921 feet (a minimum of 70 feet (Eddy County) 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.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing shall be set at approximately 6000 feet is:

Option 1 (Single Stage):

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 cave/karst or potash.
 Cement excess is less than 25%, more cement might be required.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

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

Cement excess is less than 25%, more cement might be required.

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

Cement excess is less than 25%, more 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.

Option 1:

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

Option 2:

- 1. 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 **5000 (5M)** 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.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

• The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees

- of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

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 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.

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:	Devon Energy Production Company LP
WELL NAME & NO.:	Bora Bora 13-24 Fed Com 215H
SURFACE HOLE FOOTAGE:	100'/N & 1180'/E
BOTTOM HOLE FOOTAGE	20'/S & 1250'/E
LOCATION:	Section 13, T.23 S., R.31 E., NMPM
COUNTY:	Eddy County, New Mexico

TABLE OF CONTENTS

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

General Provisions
Permit Expiration
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements
Lesser Prairie-Chicken Timing Stipulations
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 & Reclamation

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Approval Date: 06/11/2019

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.

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VI. CONSTRUCTION

A. NOTIFICATION

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

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

B. TOPSOIL

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

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

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

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

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

F. EXCLOSURE FENCING (CELLARS & PITS)

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Exclosure Fencing

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

G. ON LEASE ACCESS ROADS

Road Width

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

Surfacing

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

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

Turnouts

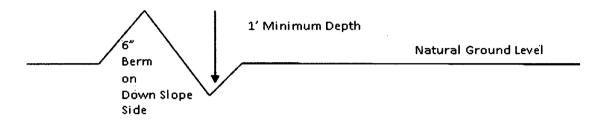
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

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

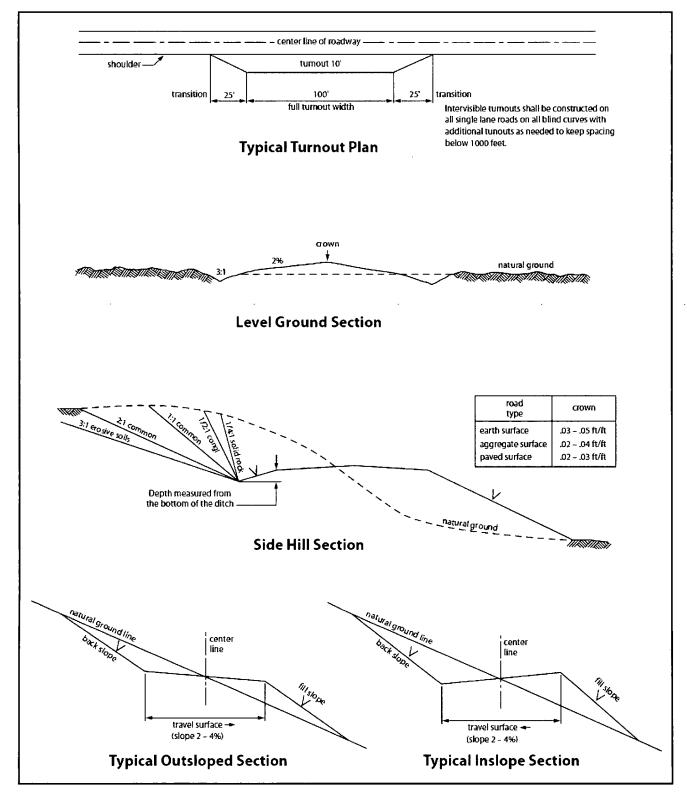


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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.
	6. The pipeline will be buried with a minimum cover of <u>36</u> inches between the top of the pipe and ground level.
	7. The maximum allowable disturbance for construction in this right-of-way will be $\underline{30}$ feet:
	• Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 20 feet. The trench is included in this area. (<i>Blading is defined as the complete removal of brush and ground vegetation.</i>)
	• Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.)
	• The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (Compressing can be caused by vehicle tires, placement of equipment, etc.)
	8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.
	9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
٠	10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.
٠	11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

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	ill reseed all disturbed areas.	Seeding will be done according to the attached mix.
() seed mixture 1	() seed mixture 3
() seed mixture 2	() seed mixture 4
	X) seed mixture 2/LPC	() Aplomado Falcon Mixture
to blend with the	natural color of the landscape.	rafety requirements shall be painted by the holder. The paint used shall be color which simulates en, Munsell Soil Color No. 5Y 4/2.
way and at all roa number, and the p	d crossings. At a minimum, s product being transported. All	ne point of origin and completion of the right-of- igns will state the holder's name, BLM serial signs and information thereon will be posted in a aintained in a legible condition for the life of the
maintenance as de before maintenance pipeline route is r	etermined necessary by the Auce begins. The holder will take not used as a roadway. As dete	as a road for purposes other than routine thorized Officer in consultation with the holder e whatever steps are necessary to ensure that the ermined necessary during the life of the pipeline, instruct temporary deterrence structures.
discovered by the immediately repo immediate area of Authorized Office determine appropholder will be res	holder, or any person working rted to the Authorized Officer. If such discovery until written a er. An evaluation of the discoveriate actions to prevent the lose ponsible for the cost of evaluation	es (historic or prehistoric site or object) g on his behalf, on public or Federal land shall be Holder shall suspend all operations in the authorization to proceed is issued by the very will be made by the Authorized Officer to s of significant cultural or scientific values. The tion and any decision as to proper mitigation er after consulting with the holder.
of operations. We which includes as of weeds due to the	eed control shall be required or sociated roads, pipeline corrid his action. The operator shall c	xious weeds become established within the areas at 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 fenced,	screened, or netted to prevent	t and maintain pipeline/utility trenches that are not livestock, wildlife, and humans from becoming astruct and maintain escape ramps, ladders, or

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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: Jenny Harms Signed on: 11/26/2018

Title: Regulatory Compliance Professional

Street Address: 333 W Sheridan Ave

City: Oklahoma City State: OK Zip: 73102

Phone: (405)552-6560

Email address: jenny.harms@dvn.com

Field Representative

Representative Name: Ray Vaz

Street Address: 333 WEST SHERIDAN AVENUE

City: OKLAHOMA CITY State: OK Zip: 73102-5015

Phone: (405)552-4902

Email address: ray.vaz@dvn.com



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

Application Data Report

06/12/2019

APD ID: 10400036684 Submission Date: 11/26/2018

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Highlighted data reflects the most recent changes

Well Name: BORA BORA 13-24 FED COM

Well Number: 215H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400036684 Tie to previous NOS?

Submission Date: 11/26/2018

BLM Office: CARLSBAD

User: Jenny Harms

Title: Regulatory Compliance

Professional

Federal/Indian APD: FED

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

Lease number: NMNM0404441

Lease Acres: 1440

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:

Zip: 73102

Operator City: Oklahoma City

State: OK

Operator Phone: (800)583-3866

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: BORA BORA 13-24 FED COM

Well Number: 215H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: LIVINGSTON

Pool Name: BONESPRING

RIDGE

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BORA BORA 13-24 FED COM Well Number: 215H

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: 3

Well Class: HORIZONTAL

RAIDER MDP 13 PAD **Number of Legs:** 1

Well Work Type: Drill Well Type: OIL WELL

Describe Well Type: Well sub-Type: INFILL

Describe sub-type:

Distance to town:

Distance to nearest well: 274 FT

Distance to lease line: 100 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat:

BORA_BORA_13_24_FED_COM_215H_C102_20181126135057.pdf

Well work start Date: 05/26/2019

Duration: 45 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number: 6675A

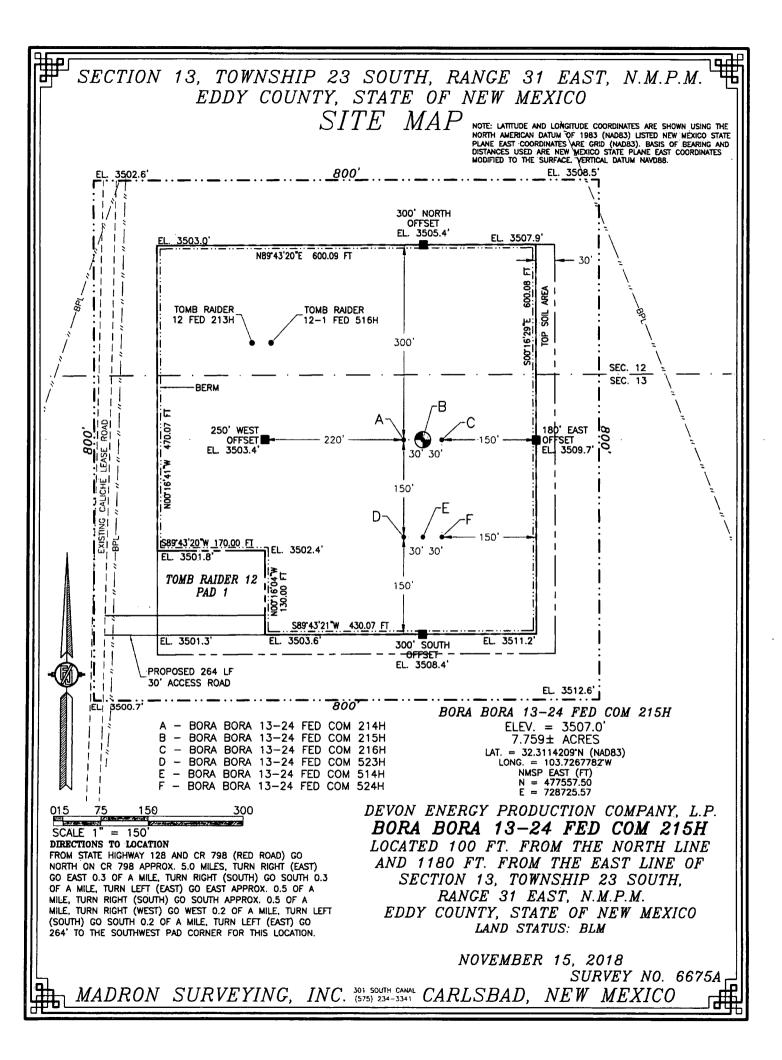
	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL	100	FNL	118	FEL	238	31E	13	Aliquot	32.31142		EDD	l	NEW	F	NMNM	350	0	0
Leg			0	i				NENE	09		Υ	MEXI	l		040444	7		
#1										782		CO	co		1			
KOP	50	FNL	125	FEL	235	31E	13	Aliquot	32.31155	-	EDD	NEW	NEW	F	NMNM	-	969	969
Leg			0					NENE	8	103.7270	Υ	MEXI	MEXI		040444	619	9	7
#1										04		co	co		1	0		
PPP	100	FNL	125	FEL	23S	31E	13	Aliquot	32.31142	-	EDD	NEW	NEW	F	NMNM	-	993	993
Leg			0					NENE	11	103.7270	Υ	1	MEXI		040444	642	9	0
#1									•	046		CO	co		1	3		

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BORA BORA 13-24 FED COM

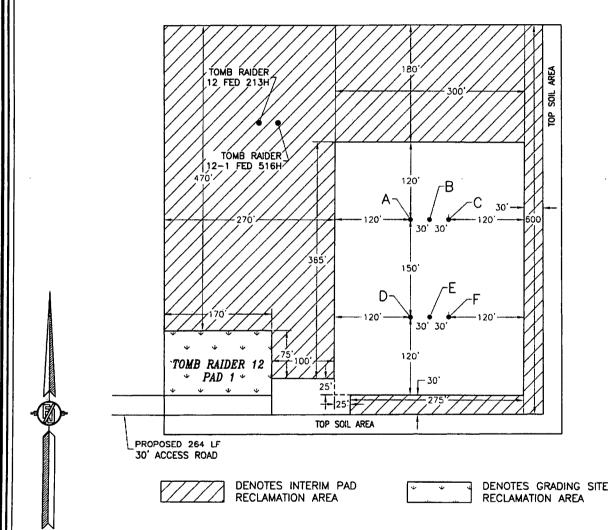
Well Number: 215H

	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
EXIT	100	FSL	125	FEL	238	31E	24	Aliquot	32.28295	-	EDD	NEW	NEW	F	NMNM	-	204	102
Leg			0					SESE	65	103.7270	Υ	MEXI	MEXI		053317	673	31	40
#1										112		CO	СО		7A	3		
BHL	20	FSL	125	FEL	235	31E	24	Aliquot	32.28273	-	EDD	NEW	NEW	F	NMNM	-	205	102
Leg			0					SESE	66	103.7270	Υ	MEXI	MEXI		053317	673	11	40
#1										112		CO	co		7A	3		



SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO INTERIM SITE BUILD PLAN

A - BORA BORA 13-24 FED COM 214H B - BORA BORA 13-24 FED COM 215H C - BORA BORA 13-24 FED COM 216H D - BORA BORA 13-24 FED COM 523H E - BORA BORA 13-24 FED COM 514H F - BORA BORA 13-24 FED COM 524H





4.929± ACRES INTERIM PAD RECLAMATION AREA 0.390± ACRES GRADING SITE RECLAMATION AREA 2.948± ACRES NON-RECLAIMED AREA 8.267± ACRES TOMB RAIDER 12 PAD 1

DEVON ENERGY PRODUCTION COMPANY, L.P.

BORA BORA 13-24 FED COM 215H

LOCATED 100 FT. FROM THE NORTH LINE

AND 1180 FT. FROM THE EAST LINE OF

SECTION 13, TOWNSHIP 23 SOUTH,

RANGE 31 EAST, N.M.P.M.

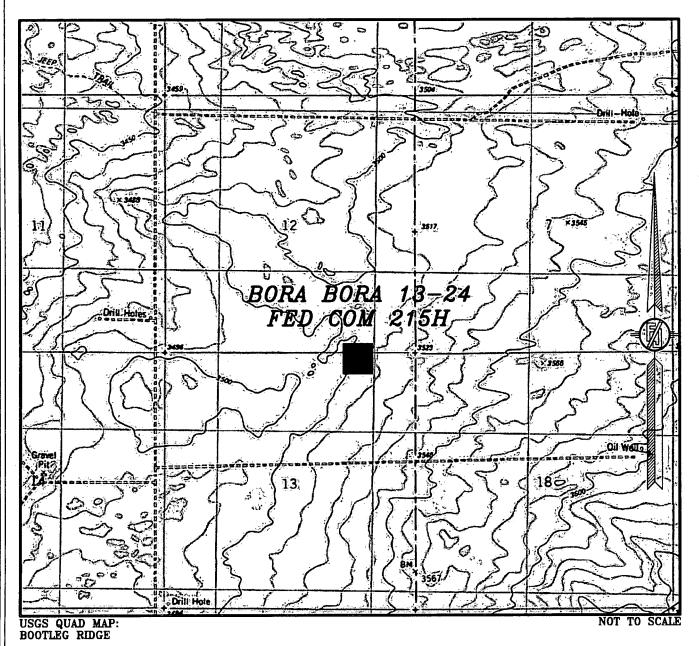
EDDY COUNTY, STATE OF NEW MEXICO

LAND STATUS: BLM

NOVEMBER 15, 2018
SURVEY NO. 6675A

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

SECTION 13, 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.

BORA BORA 13-24 FED COM 215H

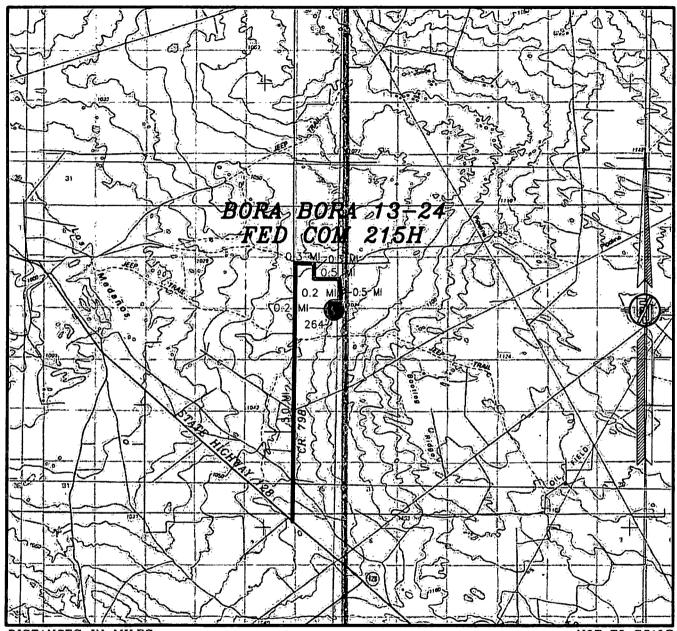
LOCATED 100 FT. FROM THE NORTH LINE
AND 1180 FT. FROM THE EAST LINE OF
SECTION 13, TOWNSHIP 23 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LAND STATUS: BLM

NOVEMBER 15, 2018

SURVEY NO. 6675A

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

SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

BORA BORA 13-24 FED COM 215H

LOCATED 100 FT. FROM THE NORTH LINE
AND 1180 FT. FROM THE EAST LINE OF

SECTION 13, TOWNSHIP 23 SOUTH,

RANGE 31 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO

LAND STATUS: BLM

NOVEMBER 15, 2018

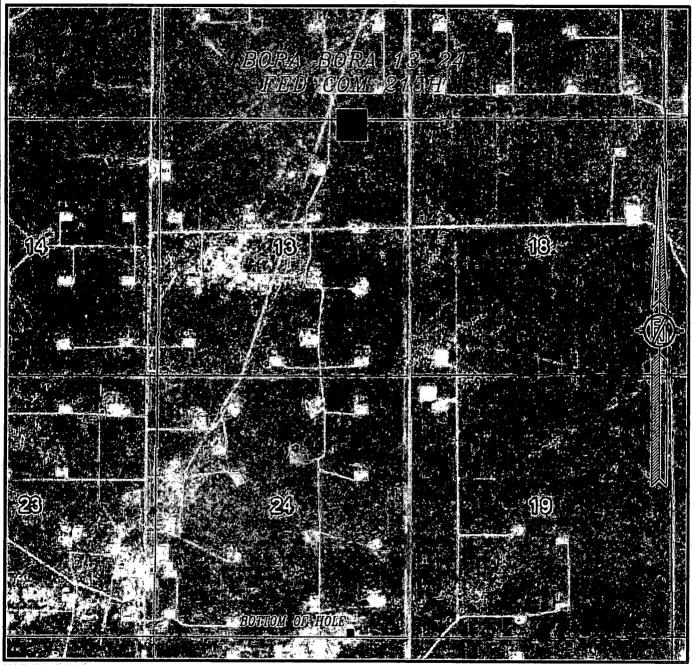
DIRECTIONS TO LOCATION

FROM STATE HIGHWAY 128 AND CR 798 (RED ROAD) GO NORTH ON CR 798 APPROX. 5.0 MILES, TURN RIGHT (EAST) GO EAST 0.3 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 LEFT (SOUTH) GO SOUTH APPROX. 0.5 OF A MILE, TURN LEFT (EAST) GO 264' TO THE SOUTHWEST PAD CORNER FOR THIS LOCATION.

SURVEY NO. 6675A

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

SECTION 13, 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 **NOVEMBER 2017**

DEVON ENERGY PRODUCTION COMPANY, L.P. BORA BORA 13-24 FED COM 215H LOCATED 100 FT. FROM THE NORTH LINE AND 1180 FT. FROM THE EAST LINE OF SECTION 13, TOWNSHIP 23 SOUTH. RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO LAND STATUS: BLM

NOVEMBER 15, 2018

SURVEY NO. 6675A MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

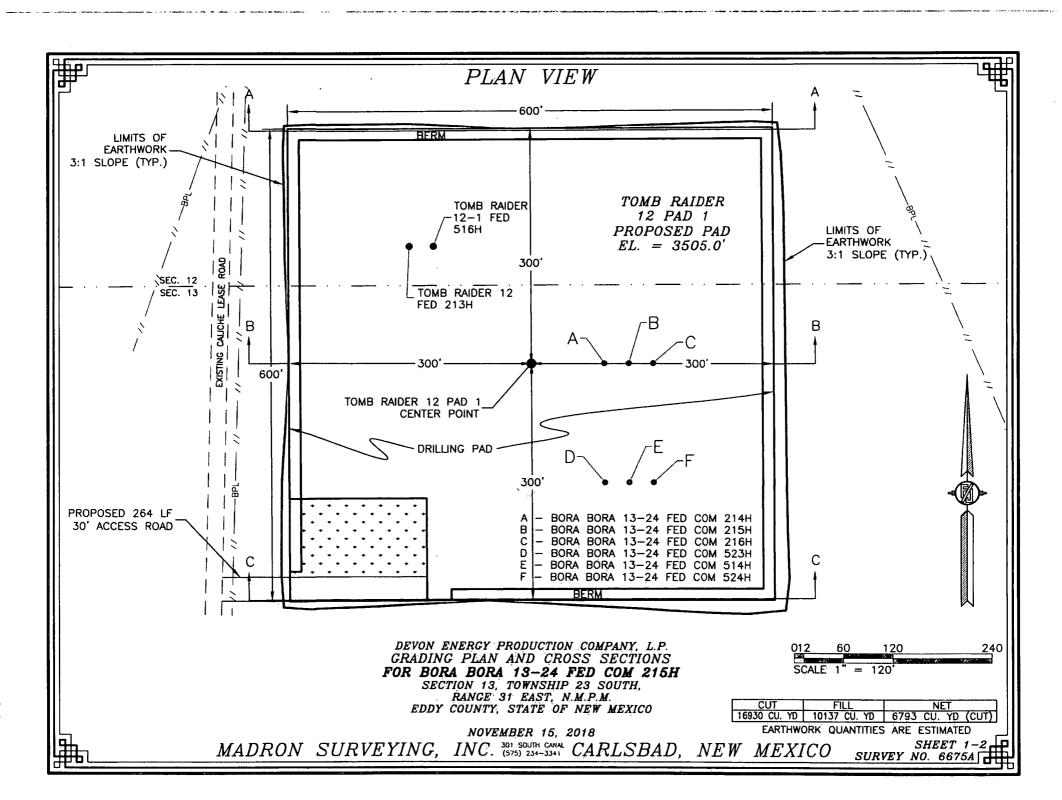
SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO AERIAL

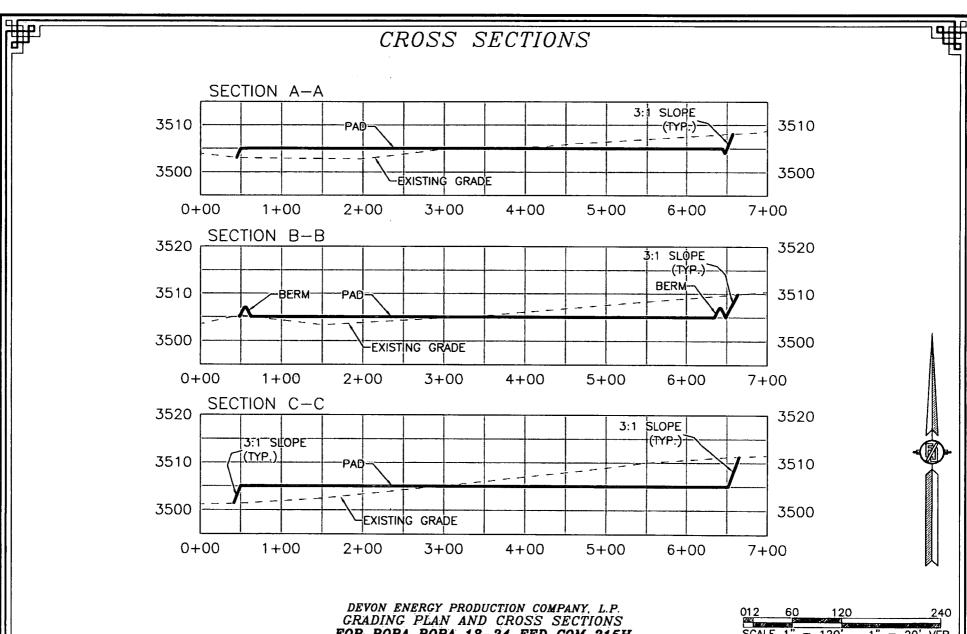


NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH NOVEMBER 2017 DEVON ENERGY PRODUCTION COMPANY, L.P. BORA BORA 13-24 FED COM 215H LOCATED 100 FT. FROM THE NORTH LINE AND 1180 FT. FROM THE EAST LINE OF SECTION 13, TOWNSHIP 23 SOUTH. RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO LAND STATUS: BLM

NOVEMBER 15, 2018

SURVEY NO. 6675A MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO





FOR BORA BORA 13-24 FED COM 215H SECTION 13, TOWNSHIP 23 SOUTH. RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

CUT FILL NET
16930 CU. YD 10137 CU. YD 6793 CU. YD (CUT) EARTHWORK QUANTITIES ARE ESTIMATED

NOVEMBER 15, 2018

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

SHEET 2

ACCESS ROAD PLAT ACCESS ROAD FROM THE TOMB RAIDER 12-1 CTB 1 TO THE TOMB RAIDER 12 PAD 1 (TOMB RAIDER 12 FED 213H, TOMB RAIDER 12-1 FED 516H, BORA BORA 13-24 FED COM 214H, 215H, 216H, 523H, 514H, 524H) 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 NOVEMBER 15, 2018 11 2636.56 FT BC 1916 N89°43'23"E 26<u>37.86</u> FT. N89'41'19"E_ BC 1916 13 18 13 STA 14+60.8 E.O.R. (DF) STA 13+95.7 PI LEFT N74'39'10"E STA 13+22.7 PI LEFT 1480.93 FT L TOMB RAIDER 12 PAD 1 STA 9+25.5 PI RIGHT L STA 4+08.5 PI LEFT STA 1+57.0 PI RIGHT STA 0+00 B.O.R. 157.01 TOMB RAIDER 12-1 CTB 1 SEC 13 S4755'48"E T.23S., R.31E 2233.89 FT BC 1916 BC 1916 BLME BC 1916 23 19^{BC} 1916 S89°41'05"W S89°42'56"W 2640.30 FT 2637.85 FT SEE NEXT SHEET (2-2) FOR DESCRIPTION 1000 1000 SURVEYOR CERTIFICATE = 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 NEW MEXICO. GENERAL NOTES 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT. WITNESS WHEREOF ŢHÍS CERTIFICATE IS EXECUTED AT CARLSBAD, 2.) BASIS OF BEARING AND DISTANCE IS NMSP OF NOVEMBER, 2018 MEXICO, THIS NEW EAST (NAD83) MODIFIED TO SURFACE MADRON SURVEYING, INC. COORDINATES. NAD 83 (FEET) AND NAVD 88 301 SOUTH CANAL (FEET) COORDINATE SYSTEMS USED IN THE CARLSBAD, NEW MEXICO 88220 SURVĖY. Phone (575) 234-3341 TIMON A ARANTLLO PLA SHEET: 1-2SURVEY NO. 6675A

SOUTH CHAL

*CARL*SBAD.

NEW MEXICO

INC.

MADRON SURVEYING.

ACCESS ROAD PLAT

ACCESS ROAD FROM THE TOMB RAIDER 12-1 CTB 1 TO THE TOMB RAIDER 12 PAD 1 (TOMB RAIDER 12 FED 213H, TOMB RAIDER 12-1 FED 516H, BORA BORA 13-24 FED COM 214H, 215H, 216H, 523H, 514H, 524H)

> 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 NOVEMBER 15. 2018

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

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 N89'49'50"E A DISTANCE OF 264.47 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 N74'39'10"E, A DISTANCE OF 14B0.93 FEET;

SAID STRIP OF LAND BEING 1189.93 FEET OR 72.12 RODS IN LENGTH, CONTAINING 0.820 ACRES MORE OR LESS AND BEING

NW/4 NE/4 1189.93 L.F. 72.12 RODS 0.820 ACRES

ALLOCATED BY FORTIES AS FOLLOWS:

SURVEYOR CERTIFICATE

INC 301 SOUTH

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 IN THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY.

THAT THIS SURVEY INSTITUTE 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.

DAY, OF NOVEMBER 2018 MEXICO. ZTHIS

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

SURVEY NO. 6675A

ÇARLSBAD. *NEW MEXICO*



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

Drilling Plan Data Report

06/12/2019

APD ID: 10400036684

Submission Date: 11/26/2018

Highlighted data reflects the most

recent changes

Well Name: BORA BORA 13-24 FED COM

Well Number: 215H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Formation			True Vertical				Producing
ID I	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1	UNKNOWN	3507	0	0	ALLUVIUM	NONE	No
2	RUSTLER	2681	825	825	SALT	NONE	No
3	SALADO	2307	1200	1200	SALT	NONE	No
4	BASE OF SALT	-994	4500	4500	SALT	· NONE	No ⁻
5	DELAWARE	-1024	4530	4530	SANDSTONE	NATURAL GAS,OIL	No
6	BONE SPRING	-4934	8440	8440	SANDSTONE	NATURAL GAS,OIL	No
7	BONE SPRING 2ND	-6564	10070	10070	SANDSTONE .	NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M

Rating Depth: 6000

Equipment: BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below 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 & 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.

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:

3M BOPE CK 20181126124040.pdf

BOP Diagram Attachment:

3M_BOPE_CK_20181126124049.pdf

Well Name: BORA BORA 13-24 FED COM Well Number: 215H

Pressure Rating (PSI): 5M Rating Depth: 10240

Equipment: BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below intermediate casing, a BOP/BOPE system with the above minimum rating will be installed on the wellhead system. BOP/BOPE will be tested by an independent service company per Onshore Oil & 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. **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:

5M_BOPE__CK_20190426131919.pdf

BOP Diagram Attachment:

5M_BOPE__CK_20190426131927.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	850	0	850	-6768	-7557	850	H-40	48	STC	1.12 5	1	BUOY	1.6	BUOY	1.6
	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	6000	0	6000	-6768	- 11036		J-55		OTHER - BTC	1.12 5	1	BUOY	1.6	BUOY	1.6
	PRODUCTI ON	8.75	5.5	NEW	API	N	0	20511	0	10240	-6768	- 16768	20511	P- 110		OTHER - BTC	1.12 5	1	BUOY	1.6	BUOY	1.6

Casing Attachments

Well Name: BORA BORA 13-24 FED COM Well Number: 215H	
Casing Attachments	
Casing ID: 1 String Type: SURFACE Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s): Surf_Csg_Ass_20181126124403.pdf	
Casing ID: 2 String Type:INTERMEDIATE Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s): Int_Csg_Ass_20181126124414.pdf	
Casing ID: 3 String Type: PRODUCTION Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
Prod_Csg_Ass_20181126124428.pdf	

Section 4 - Cement

Well Name: BORA BORA 13-24 FED COM

Well Number: 215H

String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	850	887	1.33	13.2	1180	100	С	Class C + adds

INTERMEDIATE	Lead	0	5500	1091	1.94	9	2116	50	С	Class C + adds
INTERMEDIATE	Tail	550	6000	196.8	1.33	13.2	261	50	С	Class C + adds
PRODUCTION	Lead	550	9699	328	1.94	9	1171	10	TUNED	Class C + adds
PRODUCTION	Tail	969	9 2051	2057.	1.6	13.2	3004. 2	10	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

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	850	OTHER : FRESH WATER	8.5	9	,			2			_

Well Name: BORA BORA 13-24 FED COM Well Number: 215H

Top Depth	Bottom Depth	OTHER : BRINE	0 Min Weight (lbs/gal)	0.0 Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	НА	∾ Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
6000	1024 0	WATER-BASED MUD	8.5	9							

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: 4792

Anticipated Surface Pressure: 2539.19

Anticipated Bottom Hole Temperature(F): 164

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:

Bora_Bora_13_24_Fed_Com_215H_H2S_20181126140249.pdf

Well Name: BORA BORA 13-24 FED COM Well Number: 215H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Devon___Bora_Bora_13_24_Fed_Com_215H___p1_20181126140309.pdf
Drilling_Plan_Bora_Bora_13_24_Fed_Com_215H_4_15_20190426132512.pdf

Other proposed operations facets description:

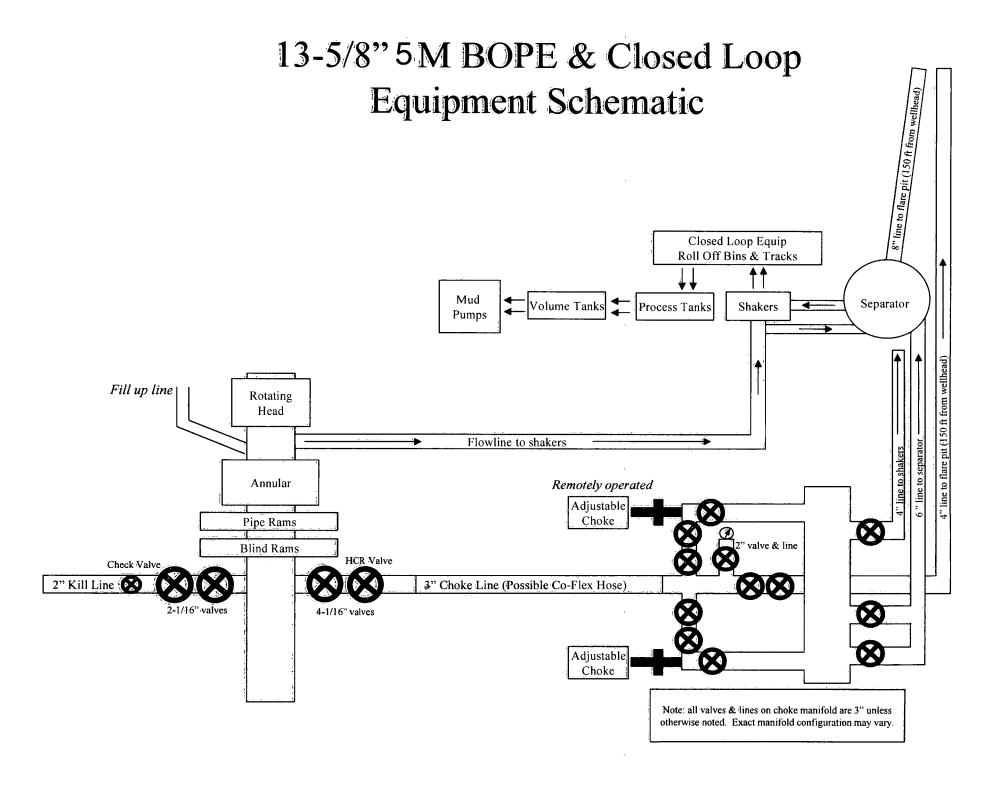
Multi-Bowl Verbiage Multi-Bowl Wellhead Closed-Loop Design Plan DRILL PLAN-REVSIED 4/26/2019 GAS CAPTURE PLAN SPUDDER RIG

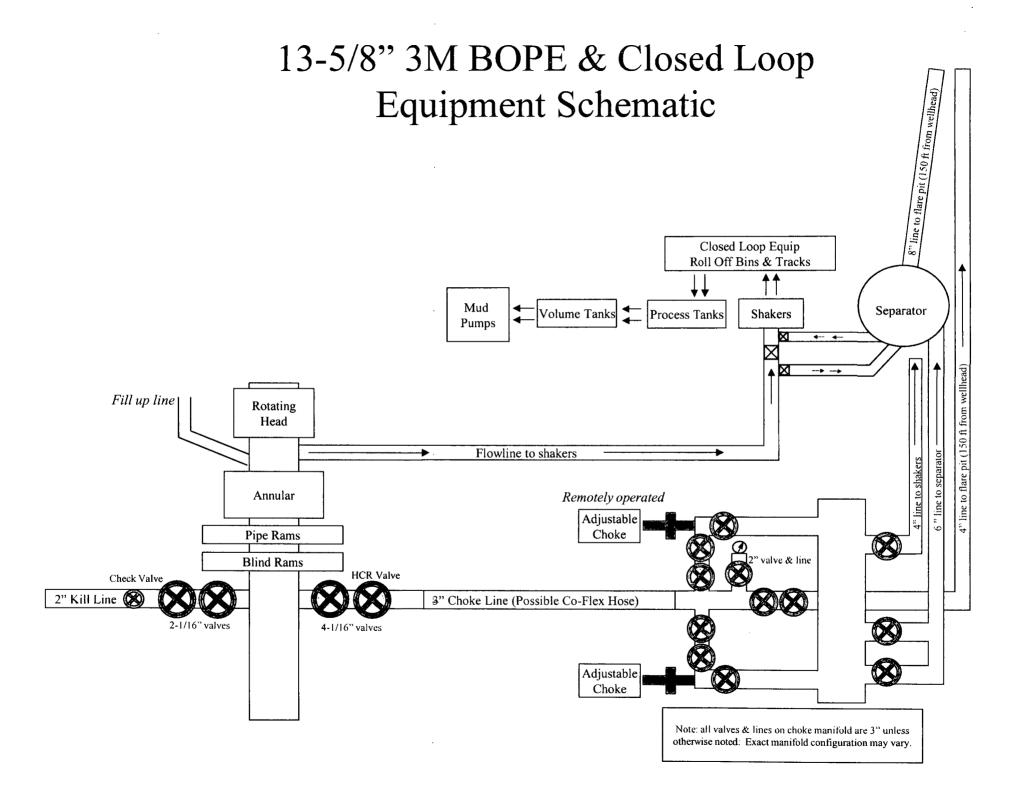
Other proposed operations facets attachment:

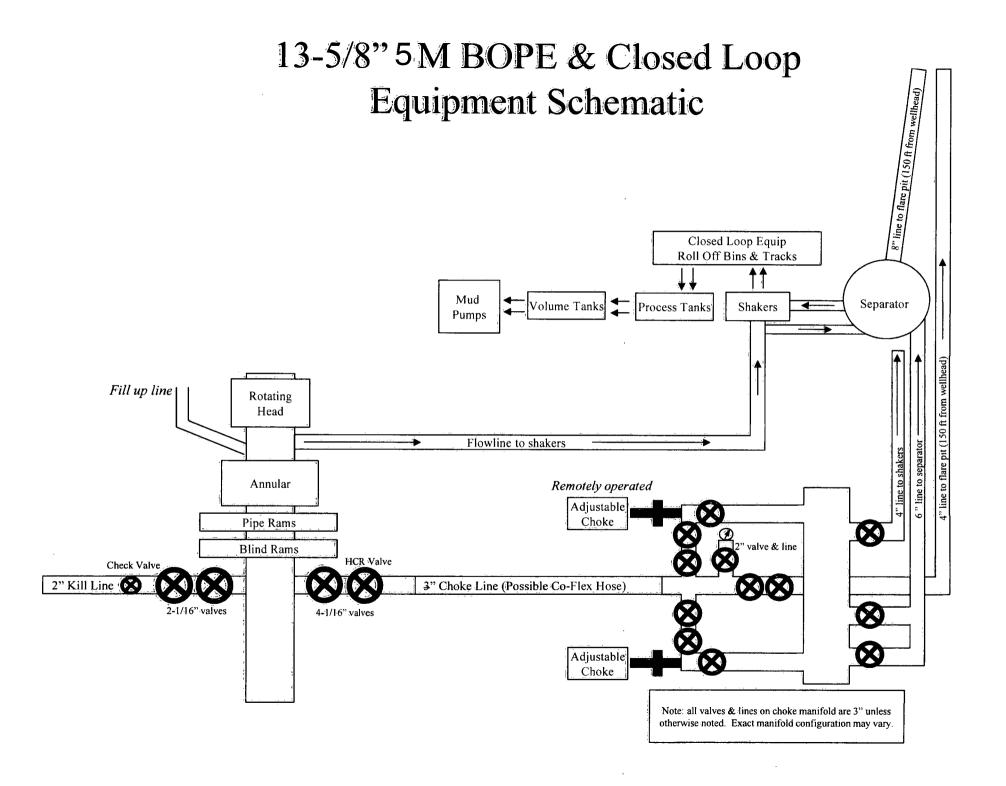
GasCapturePlan_20181126131228.pdf
Clsd_Loop_20181126130115.pdf
Multi_Bowl_Verbiage_3M_Rev1_20181126130044.pdf
MB_Wellhd_3M_20181126130116.pdf
Spudder_Rig_Info_20190426132559.pdf
MB_Verb_5M_20190426132611.pdf
MB_Wellhd_5M_20190426132612.pdf

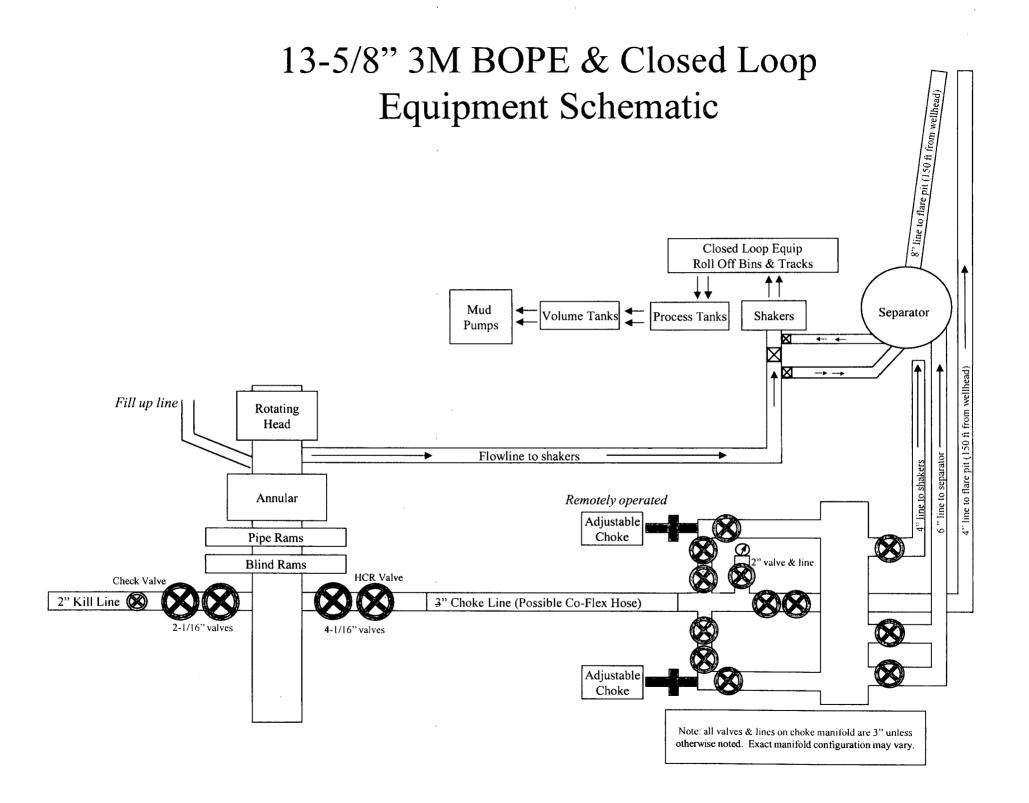
Other Variance attachment:

Co_flex_20181126130144.pdf









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)						

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

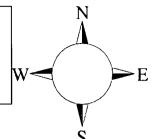
Bora Bora 13-24 Fed Com 215H

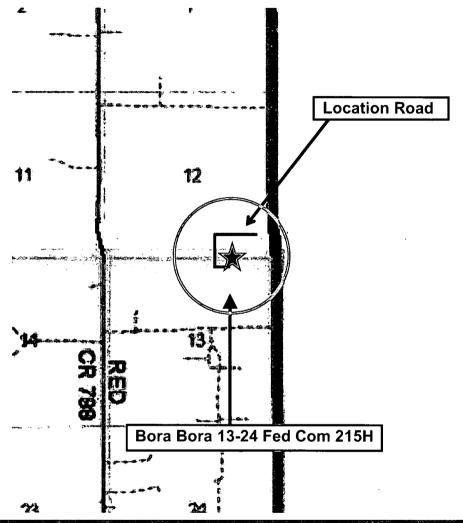
Sec-13 T-23S R-31E 100' FNL & 1180' FEL LAT. = 32.3114209' N (NAD83) LONG = 103.7267782' W

Eddy County NM

Bora Bora 13-24 Fed Com 215H

This is an open drilling site. H_2S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H_2S , including warning signs, wind indicators and H_2S monitor.





Assumed 100 ppm ROE = 3000' (Radius of Exposure)
100 ppm H2S concentration shall trigger activation of this plan.

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
 - Detection of H₂S, and
 - Measures for protection against the gas,
 - 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 H₂S 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 H₂S.

Devon Energy

Wellbore: OH

Design: Plan #1

Project: Eddy County, NM (NAD-83) Site: Bora Bora 13-24

PROJECT DETAILS: Eddy County, NM (NAD-83) Geodetic System: US State Plane 1983

Datum: North American Datum 1983

Ellipsoid: GRS 1980

Well: Bora Bora 13-24 Fed Com 215H Zone: New Mexico Eastern Zone System Datum: Mean Sea Level



Magnetic Field Strength: 48032.8snT Dip Angle: 60.07° Date: 11/20/2018 Model: HDGM

Azimuths to Grid North

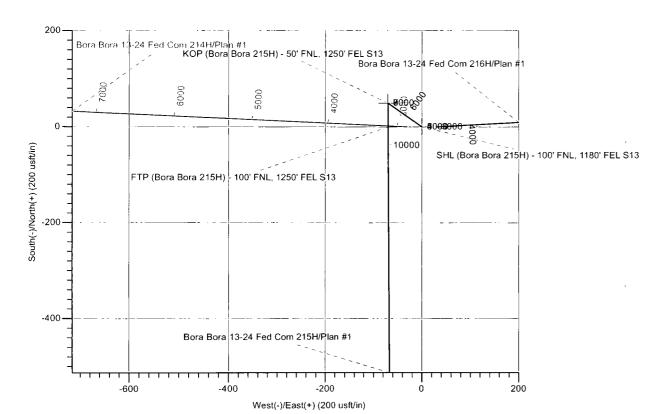
True North: -0.32° Magnetic North: 6.54°

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP	9930.79	-0.35	-69.96	477557.15	728655.61	32° 18' 41.1158 N	103° 43' 37.2167 W
KOP	9697.04	49.50	-70.00	477607.00	728655.57	32° 18′ 41.6091 N	103° 43′ 37.2139 W
LTP	10240.24	-10355.60	-13.43	467201.90	728712.14	32° 16′ 58.6433 N	103° 43′ 37.2403 W
PBHL	10240.00	-10435.58	-12.98	467121.92	728712.59	32° 16′ 57.8519 N	103° 43' 37.2403 W
SHL	0.00	0.00	0.00	477557.50	728725.57	32° 18' 41.1153 N	103° 43' 36.4015 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.0ŏ	0.00	0.00
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	0.00
5286.44	2.86	305.27	5286.32	4.13	-5.84	1.00	305.27	-4.16
6715.59	2.86	305.27	6713.68	45.37	-64.16	0.00	0.00	-45.71
7002.02	0.00	0.00	7000.00	49.50	-70.00	1.00	180.00	-49.88
9699.06	0.00	0.00	9697.04	49.50	-70.00	0.00	0.00	-49.88
10600.80	90.17	179.69	10270.00	-525.18	-66.87	10.00	179.69	524.81
20511.39	90.17	179.69	10240.00	-10435.58	-12.98	0.00	0.00	10435.36



West(-)/East(+) (2000 usft/in) -2000 KOP (Bora Bora 215H) - 50' FNL, 1250' FEL S13 FTP (Bora Bora 215H) - 100' FNL, 125# FEL S13 Hard Line: 100' FNL SHL (215H) - 100' FNL, 1180' FEL S13 --2000 Sec 13 -4000 -6000 Fed Com 214H/Plan Com 215H/Plan 216H/Plan Sec 24 Com Fed -8000 13-24 13-24 Bora 13-24 Bora Bora 10250 --10000 Hard Line: 100' FSL 10240 LTP (Bora Bora 215H) - 100' FSL, 1250' FEL S24 PBHL (Bora Bora 215H) - 20' FSL, 1250' FEL S24 -2000 2000 West(-)/East(+) (2000 usft/in)



LEAM DRILLING SYSTEMS LLC 2010 East Davis, Conroe, Texas 77301 Phone: 936/756-7618, Fax: 936/756-7595 Plan: Plan #1 (Bora Bora 13-24 Fed Com 215H/OH)

Created By: Dustin Aul

Planning Report - Geographic

EDM 5000.1 Multi User Db Database: Well Bora Bora 13-24 Fed Com 215H Local Co-ordinate Reference: Company: Devon Energy 3507.0' GE + 23.5' KB @ 3530.50usft TVD Reference: Eddy County, NM (NAD-83) 3507.0' GE + 23.5' KB @ 3530.50usft Project: MD Reference: Bora Bora 13-24 Site: North Reference: Well: Bora Bora 13-24 Fed Com 215H Survey Calculation Method: Minimum Curvature Wellbore: OH Design: Plan #1

Project Eddy County, NM (NAD-83)

 Map System:
 US State Plane 1983
 System Datum:
 Mean Sea Level

 Geo Datum:
 North American Datum 1983

Map Zone: New Mexico Eastern Zone

Site Bora Bora 13-24

Northing: 477,557.32 usft Site Position: Latitude: 32° 18' 41.1152 N 103° 43' 36.7506 W 728,695.61 usft From: Мар Easting: Longitude: 0.32° Slot Radius: 13-3/16 " **Position Uncertainty:** 0.00 usft **Grid Convergence:**

Well Bora Bora 13-24 Fed Com 215H

Well | Bora Bora 13-24 Fed Com 215H

 Well Position
 +N/-S
 0.00 usft
 Northing:
 477,557.50 usft
 Latitude:
 32° 18' 41.1153 N

 +E/-W
 0.00 usft
 Easting:
 728,725.57 usft
 Longitude:
 103° 43' 36.4015 W

 Position Uncertainty
 0.00 usft
 Wellhead Elevation:
 0.00 usft
 Ground Level:
 3,507.00 usft

Wellbore OH

 Magnetics
 Model Name
 Sample Date
 Declination (°)
 Dip Angle (°)
 Field Strength (nT)

 HDGM
 11/20/2018
 6.87
 60.07
 48,033

Design Plan #1

Audit Neton

Audit Notes:

Version: . Phase: PLAN Tie On Depth: 0.00

 Vertical Section:
 Depth From (TVD) (usft)
 +N/-S (usft)
 E/-W (usft)
 Direction (°)

 0.00
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 0.00
 179.69

Plan Sections Build Measured Vertical Dogleg Turn Depth Inclination **Azimuth** Depth +N/-S +E/-W Rate Rate Rate TFO (usft) (usft) (usft) (usft) (°/100usft) (°/100usft) (°/100usft) : Target (°) (°) (°) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 5.000.00 0.00 0.00 5,000.00 0.000.00 0.00 0.00 0.00 0.00 305.27 5,286.32 -5.84 0.00 305.27 5,286.44 2.86 4.13 1.00 1.00 6,715.59 2.86 305.27 6,713.68 45.37 -64.16 0.00 0.00 0.00 0.00 7,002.02 0.00 0.00 7,000.00 49.50 -70.00 1.00 -1.00 0.00 180.00 9,699.06 0.00 0.00 9,697.04 49.50 -70.00 0.00 0.00 0.00 0.00 10,600.80 90.17 179 69 10.270.00 -525 18 -66.87 10.00 10.00 19.93 179 69 20,511.39 179.69 10,240.00 -10,435.58 90.17 -12.980.00 0.00 0.00 0.00 PBHL (Bora Bora 215

Planning Report - Geographic

Database: Company: Project: EDM 5000.1 Multi User Db

Devon Energy

Eddy County, NM (NAD-83)

Bora Bora 13-24

Well: Wellbore:

Planned Survey

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728,722.72

32° 18' 41.1153 N

32° 18' 41,1153 N

32° 18' 41.1153 N

32° 18' 41.1203 N

32° 18' 41.1354 N

103° 43' 36.4015 W 103° 43' 36.4015 W

103° 43' 36.4015 W

103° 43' 36.4015 W

103° 43' 36 4015 W

103° 43' 36.4015 W

103° 43' 36.4015 W

103° 43' 36.4015 W

103° 43' 36.4015 W

103° 43' 36,4015 W

103° 43' 36.4015 W

103° 43' 36.4098 W

103° 43' 36.4346 W

Site:

Bora Bora 13-24 Fed Com 215H

Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well Bora Bora 13-24 Fed Com 215H

3507.0' GE + 23.5' KB @ 3530.50usft 3507.0' GE + 23.5' KB @ 3530.50usft

Grid

1 1	Measured			Vertical			Мар	Мар		•
	Depth.	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		4
	(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
	0.00	0.00	0.00	0.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43′ 36.4015 W
	SHL (Bo	ra Bora 215H)	- 100' FNL, 1	180' FEL S13						· · · · · · · · ·
	100.00	0.00	0.00	100.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	200.00	0.00	0.00	200.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	300.00	0.00	0.00	300.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	400.00	0.00	0.00	400.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	500.00	0.00	0.00	500.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	600.00	0.00	0.00	600.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	700.00	0.00	0.00	700.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	800.00	0.00	0.00	800.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	900.00	0.00	0.00	900.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	1,000.00	0.00	0.00	1,000.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	1,100.00	0.00	0.00	1,100.00	0.00	- 0.00	477,557.50	- 728,725.57	32° 18' 41.1153-N	103° 43' 36.4015 W
	1,200.00	0.00	0.00	1,200.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	1,300.00	0.00	0.00	1,300.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	1,400.00	0.00	0.00	1,400.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	1,500.00	0.00	0.00	1,500.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	1,600.00	0.00	0.00	1,600.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	1,700.00	0.00	0.00	1,700.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	1,800.00	0.00	0.00	1,800.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	1,900.00	0.00	0.00	1,900.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	2,000.00	0.00	0.00	2,000.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	2,100.00	0.00	0.00	2,100.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	2,200.00	0.00	0.00	2,200.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	2,300.00	0.00	0.00	2,300.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	2,400.00	0.00	0.00	2,400.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	2,500.00	0.00	0.00	2,500.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	2,600.00	0.00	0.00	2,600.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	2,700.00	0.00	0.00	2,700.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	2,800.00	0.00	0.00	2,800.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	2,900.00	0.00	0.00	2,900.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	3,000.00	0.00	0.00	3,000.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	3,100.00	0.00	0.00	3,100.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43' 36.4015 W
	3,200.00	0.00	0.00	3,200.00	0.00	0.00	477,557.50	728,725.57	32° 18′ 41.1153 N	103° 43' 36.4015 W
	3,300.00	0.00	0.00	3,300.00	0.00	0.00	477,557.50	728,725.57	32° 18' 41.1153 N	103° 43′ 36.4015 W
	3,400.00	0.00	0.00	3,400.00	0.00	0.00	477,557.50	728,725.57	32° 18′ 41.1153 N	103° 43′ 36.4015 W

Planning Report - Geographic

Database: EDM 5000.1 Multi User Db Company:

Devon Energy

Eddy County, NM (NAD-83)

Bora Bora 13-24

KOP (Bora Bora 215H) - 50' FNL, 1250' FEL S13

FTP (Bora Bora 215H) - 100' FNL, 1250' FEL S13

5.09

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179.69

179.69

9,747.91

9,797.45

9,846.24

9,893.88

9,930.79

Bora Bora 13-24 Fed Com 215H Well:

Wellbore: ОН Plan #1 Design:

Project:

Site:

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well Bora Bora 13-24 Fed Com 215H 3507.0' GE + 23.5' KB @ 3530.50usft 3507.0' GE + 23.5' KB @ 3530.50usft

Grid

Minimum Curvature

anned Survey						والمنطقة المستريدة والمنطقة والمنطقة والمنطقة والمستريدة والمستريدة والمستريدة والمستريدة والمستريدة والمنطقة			
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Measured			Vertical			Map	Мар		
	nclination	the state of the state of	Depth	+N/-S	+E/-W	Northing	Easting	ı.	
(usft)	(°)	(°)	(usft):	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
5,286.44	2.86	305.27	5,286.32	4.13	-5.84	477,561.63	728,719.72	32° 18′ 41.1565 N	103° 43' 36.4693
5,300.00	2.86	305.27	5,299.86	4.52	-6.40	477,562.03	728,719.17	32° 18' 41.1604 N	103° 43' 36.4757
5,400.00	2.86	305.27	5,399.74	7.41	-10.48	477,564.91	728,715.09	32° 18' 41.1892 N	103° 43' 36.5231
5,500.00	2.86	305.27	5,499.61	10.29	-14.56	477,567.80	728,711.01	32° 18' 41.2180 N	103° 43' 36.5705
5,600.00	2.86	305.27	5,599.49	13.18	-18.64	477,570.68	728,706.93	32° 18' 41.2468 N	103° 43' 36.6178
5,700.00	2.86	305.27	5,699.36	16.07	-22.72	477,573.57	728,702.85	32° 18' 41.2756 N	103° 43' 36.6652
5,800.00	2.86	305.27	5,799.24	18.95	-26.80	477,576.45	728,698.77	32° 18' 41.3043 N	103° 43' 36.7125
5,900.00	2.86	305.27	5,899.11	21.84	-30.88	477,579.34	728,694.69	32° 18' 41.3331 N	103° 43' 36.7599
6,000.00	2.86	305.27	5,998.99	24.72	-34.96	477,582.22	728,690.61	32° 18' 41.3619 N	103° 43' 36.8072
6,100.00	2.86	305.27	6,098.86	27.61	-39.04	477,585.11	728,686.53	32° 18' 41.3907 N	103° 43' 36.8546
6,200.00	2.86	305.27	6,198.74	30.49	-43.12	477,587.99	728,682.45	32° 18' 41.4195 N	103° 43' 36.9019
6,300.00	2.86	305.27	6,298.61	33.38	-47.20	477,590.88	728,678.37	32° 18' 41.4482 N	103° 43' 36.9493
6,400.00	2.86	305.27		36.26	51.28	477,593.76	728,674.29	32° 18' 41.4770 N.	103° 43' 36.9966
6,500.00	2.86	305.27	6,498.36	39.15	-55.36	477,596.65	728,670.21	32° 18' 41.5058 N	103° 43' 37.0440
6,600.00	2.86	305.27	6,598.24	42.03	-59.44	477,599.53	728,666.13	32° 18' 41.5346 N	103° 43' 37.0913
6,700.00	2.86	305.27	6,698.11	44.92	-63.52	477,602.42	728,662.05	32° 18' 41.5633 N	103° 43' 37.1387
6,715.59	2.86	305.27	6,713.68	45.37	-64.16	477,602.87	728,661.41	32° 18′ 41.5678 N	103° 43' 37.146
6,800.00	2.02	305.27	6,798.02	47.44	-67.09	477,604.94	728,658.47	32° 18′ 41.5885 N	103° 43' 37.180
6,900.00	1.02	305.27	6,897.98	48.98	-69.26	477,606.48	728,656.31	32° 18' 41.6038 N	103° 43' 37.205
7,002.02	0.00	0.00	7,000.00	49.50	-70.00	477,607.00	728,655.57	32° 18' 41.6091 N	103° 43' 37.213!
7,100.00	0.00	0.00	7,097.98	49.50	-70.00	477,607.00	728,655.57	32° 18′ 41.6091 N	103° 43' 37.213
7,200.00	0.00	0.00	7,197.98	49.50	-70.00	477,607.00	728,655.57	32° 18' 41.6091 N	103° 43' 37.213
7,300.00	0.00	0.00	7,297.98	49.50	-70.00	477,607.00	728,655.57	32° 18′ 41.6091 N	103° 43' 37.213!
7,400.00	0.00	0.00	7,397.98	49.50	-70.00	477,607.00	728,655.57	32° 18' 41.6091 N	103° 43′ 37.2139
7,500.00	0.00	0.00	7,497.98	49.50	-70.00	477,607.00	728,655.57	32° 18' 41.6091 N	103° 43' 37.213!
7,600.00	0.00	0.00	7,597.98	49.50	-70.00	477,607.00	728,655.57	32° 18' 41.6091 N	103° 43' 37.213!
7,700.00	0.00	0.00	7,697.98	49.50	-70.00	477,607.00	728,655.57	32° 18' 41.6091 N	103° 43' 37.213
7,800.00	0.00	0.00	7,797.98	49.50	-70.00	477,607.00	728,655.57	32° 18' 41.6091 N	103° 43' 37.213
7,900.00	0.00	0.00	7,897.98	49.50	-70.00	477,607.00	728,655.57	32° 18' 41.6091 N	103° 43' 37.213
8,000.00	0.00	0.00	7,997.98	49.50	-70.00	477,607.00	728,655.57	32° 18' 41.6091 N	103° 43' 37.213
8,100.00	0.00	0.00	8,097.98	49.50	-70.00	477,607.00	728,655.57	32° 18' 41.6091 N	103° 43' 37.213
8,200.00	0.00	0.00	8,197.98	49.50	-70.00	477,607.00	728,655.57	32° 18' 41.6091 N	103° 43' 37.213
8,300.00	0.00	0.00	8,297.98	49.50	-70.00	477,607.00	728,655.57	32° 18' 41.6091 N	103° 43' 37.213
8,400.00	0.00	0.00	8,397.98	49.50	-70.00	477,607.00	728,655.57	32° 18′ 41.6091 N	103° 43' 37.213
8,500.00	0.00	0.00	8,497.98	49.50	-70.00	477,607.00	728,655.57	32° 18' 41.6091 N	103° 43' 37.2139
8,600.00	0.00	0.00	8,597.98	49.50	-70.00	477,607.00	728,655.57	32° 18′ 41.6091 N	103° 43' 37.2139
8,700.00	0.00	0.00	8,697.98	49.50	-70.00	477,607.00	728,655.57	32° 18' 41.6091 N	103° 43' 37.213
8,800.00	0.00	0.00	8,797.98	49.50	-70.00	477,607.00	728,655.57	32° 18′ 41.6091 N	103° 43' 37.213
8,900.00	0.00	0.00	8,897.98	49.50	-70.00	477,607.00	728,655.57	32° 18′ 41.6091 N	103° 43' 37.213
9,000.00	0.00	0.00	8,997.98	49.50	-70.00	477,607.00	728,655.57	32° 18' 41.6091 N	103° 43' 37.213
9,100.00	0.00	0.00	9,097.98	49.50	-70.00 -70.00	477,607.00	728,655.57	32° 18' 41.6091 N	103° 43' 37.213
9,200.00	0.00	0.00	9,197.98	49.50	-70.00	477,607.00	728,655.57	32° 18' 41.6091 N	103° 43' 37.213
9,300.00	0.00	0.00	9,197.98	49.50	-70.00 -70.00	477,607.00	728,655.57	32° 18′ 41.6091 N	103° 43' 37.213
	0.00	0.00	9,297.98	49.50	-70.00 -70.00	477,607.00	728,655.57	32° 18' 41.6091 N	103° 43' 37.213
9,400.00 9,500.00						•	·		
	0.00	0.00	9,497.98	49.50	-70.00	477,607.00	728,655.57	32° 18′ 41.6091 N	103° 43' 37.213
9,600.00	0.00	0.00	9,597.98	49.50	-70.00	477,607.00	728,655.57	32° 18' 41.6091 N	103° 43' 37.2139

-69.99

-69.95

-69.89

-69.81

-69.73

47.24

40.63

29.73

14.63

-0.35

477,604.74

477,598.13

477,587.23

477,572.13

477,557.15

728,655.58

728,655.61

728,655.67

728,655.76

728,655.84

32° 18' 41.5867 N

32° 18′ 41.5213 N

32° 18' 41.4135 N

32° 18' 41.2640 N

32° 18' 41.1157 N

103° 43' 37.2139 W

103° 43' 37.2139 W

103° 43' 37.2139 W

103° 43' 37.2140 W

103° 43! 37.2140 W

Planning Report - Geographic

Database: Company: Project:

EDM 5000.1 Multi User Db

Devon Energy

Eddy County, NM (NAD-83)

Bora Bora 13-24

Well: Wellbore:

Site:

Bora Bora 13-24 Fed Com 215H

ОН Plan.#1 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well Bora Bora 13-24 Fed Com 215H

3507.0' GE + 23.5' KB @ 3530.50usft 3507.0' GE + 23.5' KB @ 3530.50usft

Grid

sign:	Plan	#1							
anned Survey									
Measured			Vertical			Мар	Map		
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	مأسينة سمام
									Longitude
9,950.00	25.09	179.69	9,940.03	-4.58	-69.71	477,552.92	728,655.86	32° 18′ 41.0739 N	103° 43' 37.214
10,000.00	30.09	179.69	9,984.33	-27.73	-69.58	477,529.77	728,655.99	32° 18′ 40.8448 N	103° 43' 37.214
10,050.00	35.09	179.69	10,026.44	-54.65	-69.43	477,502.85	728,656.13	32° 18′ 40.5784 N	103° 43' 37.214
10,100.00	40.09	179.69	10,066.05	-85.15	-69.27	477,472.35	728,656.30	32° 18' 40.2766 N	103° 43' 37.214
10,150.00	45.09	179.69	10,102.84	-118.98	-69.08 -68.88	477,438.53	728,656.48 728,656.68	32° 18′ 39.9419 N	103° 43' 37.214
10,200.00	50.09 55.09	179.69 179.69	10,136.55	-155.88		477,401.62	•	32° 18' 39.5767 N	103° 43' 37.214 103° 43' 37.214
10,250.00 10,300.00	60.09	179.69	10,166.92	-195.59	-68.67	477,361.91	728,656.90	32° 18′ 39.1838 N	
10,350.00	65.09		10,193.70	-237.79 -282.16	-68.44 -68.20	477,319.72	728,657.13	32° 18′ 38.7662 N	103° 43' 37.214
		179.69	10,216.71			477,275.34	728,657.37	32° 18' 38.3271 N	103° 43' 37.214
10,400.00	70.09 75.09	179.69	10,235.76	-328.37	-67.95	477,229.13	728,657.62	32° 18′ 37.8698 N	103° 43' 37.214
10,450.00 10,500.00	80.09	179.69	10,250.72 10,261.46	-376.06	-67.69 -67. 4 2	477,181.44	728,657.88	32° 18′ 37.3978 N	103° 43' 37.215
		179.69		-424.88 474.45		477,132.62 477,083.05	728,658.15	32° 18′ 36.9147 N	103° 43' 37.215
10,550.00 10,600.80	85.09 90.17	179.69 179.69	. 10,267.90 10,270.00	-474.45 -525.18	-67.15 -66.87	477,083.05	728,658.42 728,658.69	32° 18′ 36.4243 N 32° 18′ 35.9222 N	. 103° 43' 37.215 103° 43' 37.215
10,600.80	90.17	179.69	10,270.00	-525.18 -624.38	-66.34	477,032.32 476,933.12	728,659.23	32° 18' 34.9405 N	103° 43' 37.215
10,700.00	90.17	179.69	10,269.70	-024.36 -724.38	-65.79	476,833.12	728,659.77	32° 18′ 33.9510 N	103° 43' 37.215
10,800.00	90.17	179.69	10,269.09	-724.38 -824.38	-65.25	476,733.12	728,660.32	32° 18' 32.9614 N	103° 43' 37.216
11,000.00	90.17	179.69	10,268.79	-924.38	-64.70	476,733.12	728,660.86	32° 18′ 31.9719 N	103° 43' 37.216
11,100.00	90.17	179.69	10,268.48	-1,024.38	-64.16	476,533.13	728,661.41	32° 18′ 30.9823 N	103° 43' 37.216
11,100.00	90.17	179.69	10,268.18	-1,124.37	-63.62	476,433.13	728,661.95	32° 18' 29.9928 N	103° 43' 37.216
11,300.00	90.17	179.69	10,267.88	-1,224.37	-63.07	476,333.13	728,662.49	32° 18′ 29.0032 N	103° 43' 37.21
11,400.00	90.17	179.69	10,267.58	-1,324.37	-62.53	476,233.13	728,663.04	32° 18' 28.0137 N	103° 43' 37.217
11,500.00	90.17	179.69	10,267.27	-1,424.37	-61.98	476,133.13	728,663.58	32° 18′ 27.0241 N	103° 43' 37.21
11,600.00	90.17	179.69	10,266.97	-1,524.37	-61.44	476,033.13	728,664.13	32° 18' 26.0346 N	103° 43' 37.21
11,700.00	90.17	179.69	10,266.67	-1,624.36	-60.90	475,933.14	728,664.67	32° 18′ 25.0450 N	103° 43' 37.218
11,800.00	90.17	179.69	10,266.37	-1,724.36	-60.35	475,833.14	728,665.21	32° 18' 24.0555 N	103° 43' 37.218
11,900.00	90.17	179.69	10,266.06	-1,824.36	-59.81	475,733.14	728,665.76	32° 18' 23.0659 N	103° 43' 37.218
12,000.00	90.17	179.69	10,265.76	-1,924.36	-59.27	475,633.14	728,666.30	32° 18' 22.0764 N	103° 43' 37.218
12,100.00	90.17	179.69	10,265.46	-2,024.36	-58.72	475,533.14	728,666.84	32° 18' 21.0868 N	103° 43' 37.219
12,200.00	90.17	179.69	10,265.16	-2,124.35	-58.18	475,433.15	728,667.39	32° 18′ 20.0973 N	103° 43' 37.219
12,300.00	90.17	179.69	10,264.85	-2,224.35	-57.63	475,333.15	728,667.93	32° 18' 19.1077 N	103° 43' 37.219
12,400.00	90.17	179.69	10,264.55	-2,324.35	-57.09	475,233.15	728,668.48	32° 18' 18.1182 N	103° 43' 37.219
12,500.00	90.17	179.69	10,264.25	-2,424.35	-56.55	475,133.15	728,669.02	32° 18′ 17.1286 N	103° 43' 37.220
12,600.00	90.17	179.69	10,263.94	-2,524.35	-56.00	475,033.15	728,669.56	32° 18' 16.1391 N	103° 43' 37.220
12,700.00	90.17	179.69	10,263.64	-2,624.34	-55.46	474,933.16	728,670.11	32° 18' 15.1495 N	103° 43' 37.220
12,800.00	90.17	179.69	10,263.34	-2,724.34	-54.92	474,833.16	728,670.65	32° 18' 14.1600 N	103° 43' 37.220
12,900.00	90.17	179.69	10,263.04	-2,824.34	-54.37	474,733.16	728,671.19	32° 18' 13.1704 N	103° 43' 37.22
13,000.00	90.17	179.69	10,262.73	-2,924.34	-53.83	474,633.16	728,671.74	32° 18' 12.1809 N	103° 43' 37.22
13,100.00	90.17	179.69	10,262.43	-3,024.34	-53.28	474,533.16	728,672.28	32° 18' 11.1913 N	103° 43' 37.22
13,200.00	90.17	179.69	10,262.13	-3,124.33	-52.74	474,433.17	728,672.83	32° 18' 10.2018 N	103° 43' 37.22
13,300.00	90.17	179.69	10,261.83	-3,224.33	-52.20	474,333.17	728,673.37	32° 18' 9.2122 N	103° 43' 37.222
13,400.00	90.17	179.69	10,261.52	-3,324.33	-51.65	474,233.17	728,673.91	32° 18' 8.2227 N	103° 43' 37.222
13,500.00	90.17	179.69	10,261.22	-3,424.33	-51.11	474,133.17	728,674.46	32° 18' 7.2331 N	103° 43' 37.222
13,600.00	90.17	179.69	10,260.92	-3,524.33	-50.56	474,033.17	728,675.00	32° 18' 6.2436 N	103° 43' 37.223
13,700.00	90.17	179.69	10,260.62	-3,624.33	-50.02	473,933.18	728,675.55	32° 18' 5.2540 N	103° 43' 37.223
13,800.00	90.17	179.69	10,260.31	-3,724.32	-49.48	473,833.18	728,676.09	32° 18′ 4.2645 N	103° 43' 37.223
13,900.00	90.17	179.69	10,260.01	-3,824.32	-48.93	473,733.18	728,676.63	32° 18′ 3.2749 N	103° 43' 37.223
14,000.00	90.17	179.69	10,259.71	-3,924.32	-48.39	473,633.18	728,677.18	32° 18' 2.2854 N	103° 43' 37.224
14,100.00	90.17	179.69	10,259.40	-4,024.32	-47.85	473,533.18	728,677.72	32° 18' 1.2958 N	103° 43' 37.224
14,200.00	90.17	179.69	10,259.10	-4,124.32	-47.30	473,433.19	728,678.26	32° 18' 0.3063 N	103° 43' 37.224
14,300.00	90.17	179.69	10,258.80	-4,224.31	-46.76	473,333.19	728,678.81	32° 17' 59.3167 N	103° 43' 37.224
14,400.00	90.17	179.69	10,258.50	-4,324.31	-46.21	473,233.19	728,679.35	32° 17′ 58.3272 N	103° 43' 37.22
14,500.00	90.17	179.69	10,258.19	-4,424.31	-45.67	473,133.19	728,679.90	32° 17' 57.3376 N	103° 43' 37.22
14,600.00	90.17	179.69	10,257.89	-4,524.31	-45.13	473,033.19	728,680.44	32° 17′ 56.3481 N	103° 43' 37.225
14,700.00	90.17	179.69	10,257.59	-4,624.31	-44.58	472,933.19	728,680.98	32° 17′ 55.3585 N	103° 43' 37.225

Planning Report - Geographic

Database: Company: Project:

Site:

Well:

EDM 5000.1 Multi User Db

Devon Energy

Eddy County, NM (NAD-83)

Bora Bora 13-24

Bora Bora 13-24 Fed Com 215H

Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Bora Bora 13-24 Fed Com 215H 3507.0' GE + 23.5' KB @ 3530.50usft 3507.0' GE + 23.5' KB @ 3530.50usft

Grid

Design:	Plan	#1	Bertrintanisti berekenaan		Jan 1988	3.37		****	
Planned Survey		na n	-	To the second se					
i iaiiiica Gaivey					*************************************	* :			
Measured			Vertical	:		Map	Мар		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
14 900 00			10.257.20	4 724 30		472 822 20	720 601 52	22° 17' 54 2600 N	
14,800.00 14,900.00	90.17 90.17	179.69 179.69	10,257.29 10,256.98	-4,724.30 -4,824.30	-44.04 -43.50	472,833.20 472,733.20	728,681.53 728,682.07	32° 17' 54.3690 N 32° 17' 53.3794 N	103° 43' 37.2260 W 103° 43' 37.2262 W
15,000.00	90.17	179.69	10,256.68	-4,824.30 -4,924.30	-43.50 -42.95	472,633.20	728,682.61	32° 17' 53.3794 N	103° 43′ 37.2262 W
15,100.00	90.17	179.69	10,256.38	-5,024.30	-42.93 -42.41	472,533.20	728,683.16	32° 17' 51.4003 N	103° 43' 37.2267 W
15,200.00	90.17	179.69	10,256.08	-5,024.30 -5,124.30	-42.41 -41.86	472,433.20	728,683.70	32° 17' 50.4108 N	103° 43' 37.2270 W
15,300.00	90.17	179.69	10,255.77	-5,124.29	-41.32	472,333.21	728,684.25	32° 17' 49.4212 N	103° 43' 37.2270 W
15,400.00	90.17	179.69	10,255.47	-5,324.29	-40.78	472,233.21	728,684.79	32° 17' 48.4317 N	103° 43' 37.2275 W
15,500.00	90.17	179.69	10,255.17	-5,424.29	-40.23	472,133.21	728,685.33	32° 17′ 47.4421 N	103° 43' 37.2278 W
15,600.00	90.17	179.69	10,254.86	-5,524.29	-39.69	472,033.21	728,685.88	32° 17' 46.4526 N	103° 43' 37.2280 W
15,700.00	90.17	179.69	10,254.56	-5,624.29	-39.14	471,933.21	728,686.42	32° 17' 45.4630 N	103° 43' 37.2283 W
15,800.00	90.17	179.69	10,254.26	-5,724.28	-38.60	471,833.22	728,686.97	32° 17' 44.4735 N	103° 43' 37.2285 W
15,900.00	90.17	179.69	10,253.96	-5,824.28	-38.06	471,733.22	728,687.51	32° 17' 43.4839 N	103° 43' 37.2288 W
16,000.00	90.17	179.69	10,253.65	-5,924.28	-37.51	471,633.22	728,688.05	32° 17' 42.4944 N	. 103° 43' 37.2290 W
16,100.00	90.17	179.69	10,253.35	-6,024.28	-36.97	471,533.22	728,688.60	32° 17' 41.5048 N	103° 43' 37.2293 W
16,200.00	90.17	179.69	10,253.05	-6,124.28	-36.43	471,433.22	728,689.14	32° 17' 40.5153 N	103° 43' 37.2295 W
16,300.00	90.17	179.69	10,252.75	-6,224.27	-35.88	471,333.23	728,689.68	32° 17' 39.5257 N	103° 43' 37.2298 W
16,400.00	90.17	179.69	10,252.44	-6,324.27	-35.34	471,233.23	728,690.23	32° 17' 38.5362 N	103° 43' 37.2300 W
16,500.00	90.17	179.69	10,252.14	-6,424.27	-34.79	471,133.23	728,690.77	32° 17' 37.5466 N	103° 43' 37.2303 W
16,600.00	90.17	179.69	10,251.84	-6,524.27	-34.25	471,033.23	728,691.32	32° 17' 36.5571 N	103° 43' 37.2305 W
16,700.00	90,17	179.69	10,251.54	-6,624.27	-33.71	470,933.23	728,691.86	32° 17' 35.5675 N	103° 43' 37.2308 W
16,800.00	90.17	179.69	10,251.23	-6,724.27	-33.16	470,833.24	728,692.40	32° 17′ 34.5780 N	103° 43' 37.2310 W
16,900.00	90.17	179.69	10,250.93	-6,824.26	-32.62	470,733.24	728,692.95	32° 17' 33.5884 N	103° 43' 37.2313 W
17,000.00	90.17	179.69	10,250.63	-6,924.26	-32.08	470,633.24	728,693.49	32° 17' 32.5989 N	103° 43' 37.2315 W
17,100.00	90.17	179.69	10,250.33	-7,024.26	-31.53	470,533.24	728,694.03	32° 17' 31.6093 N	103° 43' 37.2318 W
17,200.00	90.17	179.69	10,250.02	-7,124.26	-30.99	470,433.24	728,694.58	32° 17' 30.6198 N	103° 43′ 37.2320 W
17,300.00	90.17	179.69	10,249.72	-7,224.26	-30.44	470,333.25	728,695.12	32° 17' 29.6302 N	103° 43' 37.2323 W
17,400.00	90.17	179.69	10,249.42	-7,324.25	-29.90	470,233.25	728,695.67	32° 17' 28.6407 N	103° 43' 37.2325 W
17,500.00	90.17	179.69	10,249.11	-7,424.25	-29.36	470,133.25	728,696.21	32° 17' 27.6511 N	103° 43' 37.2328 W
17,600.00	90.17	179.69	10,248.81	-7,524.25	-28.81	470,033.25	728,696.75	32° 17' 26.6616 N	103° 43' 37.2330 W
17,700.00	90.17	179.69	10,248.51	-7,624.25	-28.27	469,933.25	728,697.30	32° 17' 25.6720 N	103° 43′ 37.2333 W
17,800.00	90.17	179.69	10,248.21	-7,724.25	-27.72	469,833.25	728,697.84	32° 17' 24.6825 N	103° 43′ 37.2335 W
17,900.00	90.17	179.69	10,247.90	-7,824.24	-27.18	469,733.26	728,698.39	32° 17' 23.6929 N	103° 43′ 37.2338 W
18,000.00	90.17	179.69	10,247.60	-7,924.24	-26.64	469,633.26	728,698.93	32° 17′ 22.7034 N	103° 43' 37.2340 W
18,100.00	90.17	179.69	10,247.30	-8,024.24	-26.09	469,533.26	728,699.47	32° 17' 21.7138 N	103° 43′ 37.2343 W
18,200.00	90.17	179.69	10,247.00	-8,124.24	-25.55	469,433.26	728,700.02	32° 17′ 20.7242 N	103° 43′ 37.2345 W
18,300.00	90.17	179.69	10,246.69	-8,224.24	-25.01	469,333.26	728,700.56	32° 17′ 19.7347 N	103° 43′ 37.2348 W
18,400.00	90.17	179.69	10,246.39	-8,324.23	-24.46	469,233.27	728,701.10	32° 17' 18.7451 N	103° 43' 37.2350 W
18,500.00	90.17	179.69	10,246.09	-8,424.23	-23.92	469,133.27	728,701.65	32° 17′ 17.7556 N	103° 43' 37.2353 W
18,600.00	90.17	179.69	10,245.79	-8,524.23	-23.37	469,033.27	728,702.19	32° 17' 16.7660 N	103° 43' 37.2355 W
18,700.00 18,800.00	90.17	179.69	10,245.48	-8,624.23	-22.83	468,933.27 468,833.27	728,702.74	32° 17' 15.7765 N	103° 43' 37.2358 W
18,900.00	90.17 90.17	179.69 179.69	10,245.18 10,244.88	-8,724.23 -8,824.22	-22.29 -21.74	468,733.28	728,703.28 728,703.82	32° 17' 14.7869 N 32° 17' 13.7974 N	103° 43' 37.2360 W
19,000.00	90.17	179.69	10,244.57	-8,924.22 -8,924.22	-21.7 4 -21.20	468,633.28	728,704.37	32° 17' 12.8078 N	103° 43' 37.2363 W 103° 43' 37.2365 W
19,100.00	90.17	179.69	10,244.27	-9,024.22	-21.20	468,533.28	728,704.91	32° 17' 12.8078 N	103° 43' 37.2368 W
19,200.00	90.17	179.69	10,243.97	-9,124.22	-20.00	468,433.28	728,704.91	32° 17' 10.8287 N	103° 43' 37.2370 W
19,300.00	90.17	179.69	10,243.97	-9,124.22 -9,224.22	-20.11 -19.57	468,333.28	728,706.00	32° 17' 10.8287 N	103° 43' 37.2373 W
19,400.00	90.17	179.69	10,243.07	-9,224.22 -9,324.21	-19.02	468,233.29	728,706.54	32° 17' 8.8496 N	103° 43' 37.2375 W
19,500.00	90.17	179.69	10,243.06	-9,424.21	-18.48	468,133.29	728,707.09	32° 17' 7.8601 N	103° 43' 37.2378 W
19,600.00	90.17	179.69	10,243.06	-9,424.21 -9,524.21	-10.46 -17.94	468,033.29	728,707.63	32° 17' 6.8705 N	103° 43' 37.2380 W
19,700.00	90.17	179.69	10,242.76	-9,524.21 -9,624.21	-17. 34 -17.39	467,933.29	728,707.63	32° 17' 5.8810 N	103° 43' 37.2383 W
19,800.00	90.17	179.69	10,242.46	-9,624.21 -9,724.21	-17.39 -16.85	467,833.29	728,708.77	32° 17' 4.8914 N	103° 43' 37.2385 W
19,900.00	90.17	179.69	10,242.15	-9,724.21 -9,824.21	-16.30	467,733.30	728,708.72	32° 17' 3.9019 N	103° 43' 37.2388 W
20,000.00	90.17	179.69	10,241.65	-9,024.21 -9,924.20	-16.30 -15.76	467,733.30	728,709.81	32° 17' 3.9019 N	103° 43' 37.2388 W
20,100.00	90.17	179.69	10,241.35	-10,024.20	-15.76 -15.22	467,533.30	728,710.35	32° 17' 1.9228 N	103° 43' 37.2393 W
20,200.00	90.17	179.69	10,241.23	-10,024.20	-15.22 -14.67	467,433.30	728,710.89	32° 17' 0.9332 N	103° 43' 37.2395 W
20,200.00	30.17	173.03	10,240.34	10,124.20	-14.07	701,400.00	120,110.09	JE 11 U.3332 IN	100 40 01.2000 00

Planning Report - Geographic

Database: Company: EDM 5000.1 Multi User Db

Devon Energy

Project: Site: Eddy County, NM (NAD-83)

Bora Bora 13-24

Well: Wellbore: Bora Bora 13-24 Fed Com 215H

Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well Bora Bora 13-24 Fed Com 215H

3507.0' GE + 23.5' KB @ 3530.50usft 3507.0' GE + 23.5' KB @ 3530.50usft

Grid

lanned Survey	1.					2			
Measured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitùde
20,300.00	90.17	179.69	10,240.64	-10,224.20	-14.13	467,333.30	728,711.44	32° 16′ 59.9436 N	103° 43' 37.2398 W
20,400.00	90.17	179.69	10,240.34	-10,324.20	-13.59	467,233.31	728,711.98	32° 16' 58.9541 N	103° 43' 37.2400 W
20,431.41	90.17	179.69	10,240.24	-10,355.60	-13.41	467,201.90	728,712.15	32° 16′ 58.6433 N	103° 43' 37.2401 W
LTP (Bor	a Bora 215H)	- 100' FSL, 12	250' FEL S24						
20,500.00	90.17	179.69	10,240.03	-10,424.19	-13.04	467,133.31	728,712.52	32° 16′ 57.9645 N	103° 43' 37.2403 W
20.511.39	90.17	179.69	10,240.00	-10.435.58	-12.98	467.121.92	728.712.59	32° 16' 57.8519 N	103° 43′ 37,2403 W

Design Targets			·						
Target Name - hit/miss target, Dip - Shape	Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (Bora Bora 215H) - - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	477,557.50	728,725.57	32° 18′ 41.1153 N	103° 43′ 36.4015 W
KOP (Bora Bora 215H) - - plan hits target center - Point	0.00	0.00	9,697.04	49.50	-70.00	477,607.00	728,655.57	32° 18′ 41.6091 N	103° 43′ 37.2139 W
FTP (Bora Bora 215H) - - plan misses target cente - Point	0.00 r by 0.23us	0.00 sft at 9939	9,930.79 .84usft MD (-0.35 (9930.79 TVD, -	-69.96 0.35 N, -69.73	477,557.15 3 E)	728,655.61	32° 18′ 41.1158 N	103° 43′ 37.2167 W
PBHL (Bora Bora 215H) - plan hits target center - Point	0.00	0.00	10,240.00	-10,435.58	-12.98	467,121.92	728,712.59	32° 16′ 57.8519 N	103° 43' 37.2403 W
LTP (Bora Bora 215H) - - plan misses target cente - Point	0.00 r by 0.02us		10,240.24 1.41usft MD	-10,355.60 (10240.24 TVD	-13.43), -10355.60 N	467,201.90 I, -13.41 E)	728,712.14	32° 16′ 58.6433 N	103° 43′ 37.2403 W

Devon Energy

Eddy County, NM (NAD-83) Bora Bora 13-24 Bora Bora 13-24 Fed Com 215H

OH Plan #1

Anticollision Report

20 November, 2018

Anticollision Report

Devon Energy Company:

Project:

Eddy County, NM (NAD-83)

Reference Site:

Bora Bora 13-24

Site Error:

0.00 usft

Reference Well: Bora Bora 13-24 Fed Com 215H

Well Error:

0.00 usft Reference Wellbore ОН Plan #1 Reference Design:

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well Bora Bora 13-24 Fed Com 215H

3507.0' GE + 23.5' KB @ 3530.50usft

3507.0" GE + 23.5" KB @ 3530.50usft .

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

Offset Datum

Reference Plan #1

Filter type:

NO GLOBAL FILTER: Using user defined selection & filtering criteria

Interpolation Method: Depth Range:

MD Interval 100.00usft

Results Limited by:

Unlimited

Maximum center-center distance of 2,174.65 usft 2.00 Sigma Warning Levels Evaluated at:

Error Model:

Scan Method: Error Surface:

Casing Method:

ISCWSA

Closest Approach 3D Elliptical Conic

Not applied

Survey Tool Program 🌯 From

(usft)

To

(usft)

11/20/2018 Date

Survey (Wellbore)

Tool Name

Description

0.00 20,511.12 Plan #1 (OH) LEAM MWD+HDGM

MWD+HDGM

			Reference Measured	Offset Measured	Dista Between	nce Between	Separation	Warning	
Site Name Offset Well - We	llbore - Design	• • • • • • • • • • • • • • • • • • • •	Depth (usft)	Depth (usft)	Centres (usft)	Ellipses (usft)	Factor		
Bora Bora 13-24	town the second		-			-	: -		
Bora Bora 13-24	Fed Com 214H - O	H - Plan #1	2,500.00	2,499.70	29.96	19.00	2.734	CC, ES	
Bora Bora 13-24	Fed Com 214H - O	H - Plan #1	20,511.39	20,581.66	919.86	575.16	2.669	SF	
Bora Bora 13-24	Fed Com 216H - O	H - Plan #1	2,916.63	2,916.73	30.02	17.19	2.339	CC	
Bora Bora 13-24	Fed Com 216H - O	H - Plan #1	3,000.00	3,000.00	30.02	16.81	2.273	ES	
Bora Bora 13-24	Fed Com 216H - O	H - Plan #1	3.100.00	3.099.57	30.89	17.25	2.264	SF	

Survey Program: 0-LEAM MWD+HDGM Reference Offset		ra 13-24 -	- Bora Bora 13-24 Fed Com 214H - OH - Plan #1								1	Offset Site Error:	0.00 usft	
												Offset Well Error:	0.00 usft	
		et	Semi Major Axis				Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (ûsft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	.·
0.00	0.00	0.00	0.00	0.00	0.00	-90.34	-0.18	-29.96	29.96					
100.00	100.00	99.70	99.70	0.09	0.09	-90.34	-0.18	-29.96	29.96	29.79	0.17	174.505		
200.00	200.00	199.70	199.70	0.31	0.31	-90.34	-0.18	-29.96	29.96	29.34	0.62	48.261		
300.00	300.00	299.70	299.70	0.54	0.53	-90.34	-0.18	-29.96	29.96	28.89	1.07	27.992		
400.00	400.00	399.70	399.70	0.76	0.76	-90.34	-0.18	-29.96	29.96	28.44	1.52	19.713		
500.00	500.00	499.70	499.70	0.99	0.98	-90.34	-0.18	-29.96	29.96	27.99	1.97	15.213		
600.00	600.00	599.70	599.70	1.21	1.21	-90.34	-0.18	-29.96	29.96	27.54	2.42	12.386		
700.00	700.00	699.70	699.70	1.43	1.43	-90.34	-0.18	-29.96	29.96	27.09	2.87	10.445		
800.00	800.00	799.70	799.70	1.66	1.66	-90.34	-0.18	-29.96	29.96	26.64	3.32	9.030		
900.00	900.00	899.70	899.70	1.88	1.88	-90.34	-0.18	-29.96	29.96	26.19	3.77	7.952		
1,000.00	1,000.00	999.70	999.70	2.11	2.11	-90.34	-0.18	-29.96	29.96	25.74	4.22	7.105		
1,100.00	1,100.00	1,099.70	1,099.70	2.33	2.33	-90.34	-0.18	-29.96	29.96	25.29	4.67	6.420		
1,200.00	1,200.00	1,199.70	1,199.70	2.56	2.56	-90.34	-0.18	-29.96	29.96	24.84	5.12	5.856		
1,300.00	1,300.00	1,299.70	1,299.70	2.78	2.78	-90.34	-0.18	-29.96	29.96	24.39	5.57	5.383		
1,400.00	1,400.00	1,399.70	1,399.70	3.01	3.01	-90.34	-0.18	-29.96	29.96	23.95	6.02	4.981		
1,500.00	1,500.00	1,499.70	1,499.70	3.23	3.23	-90.34	-0.18	-29.96	29.96	23.50	6.46	4.634		
1,600.00	1,600.00	1,599.70	1,599.70	3.46	3.46	-90.34	-0.18	-29.96	29.96	23.05	6.91	4.333		
1,700.00	1,700.00	1,699.70	1,699.70	3.68	3.68	-90.34	-0.18	-29.96	29.96	22.60	7.36	4.069		
1,800.00	1,800.00	1,799.70	1,799.70	3.91	3.91	-90.34	-0.18	-29.96	29.96	22.15	7.81	3.835		
1,900.00	1,900.00	1,899.70	1,899.70	4.13	4.13	-90.34	-0.18	-29.96	29.96	21.70	8.26	3.626		
2,000.00	2,000.00	1,999.70	1,999.70	4.36	4.36	-90.34	-0.18	-29.96	29.96	21.25	8.71	3.439		
2,100.00	2,100.00	2,099.70	2,099.70	4.58	4.58	-90.34	-0.18	-29.96	29.96	20.80	9.16	3.270		

Anticollision Report

Company:

Project:

Reference Site:

Site Error:

Reference Well:

Well Error: Reference Wellbore Reference Design:

Devon Energy

Eddy County, NM (NAD-83)

Bora Bora 13-24

0.00 usft

Bora Bora 13-24 Fed Com 215H

0.00 usft

ЙОН Plan #1 Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well Bora Bora 13-24 Fed Com 215H

3507.0' GE + 23.5' KB @ 3530.50usft

3507.0' GE + 23.5' KB @ 3530.50usft

Minimum Curvature

2.00 sigma EDM 5000.1 Multi User Db

	sign	,,,	 _	- Dura Bura	13-24 F6	d Com 214	H - OH - Plan #						Offset Site Error:	0.00 usft
urvey Prog		EAM MWD+HD Offse		Som:	Avin				Di		. *		Offset Well Error:	0.00 usft
Refer Neasured		Offse Measured	et Vertical	Semi Major Reference	Offset	Highside	Offset Wellbore	Contro	Between	nce . Between	Minimum	Separation	0	
Depth	Depth	Depth	Depth		Ollset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	- Warning	
(usft)	(usft)	(usft)	(usft)	(usft)		(°)	1.5	(usft)	(usft)	(usft)	(usft)		e de la companya de	
2,200.00	2,200.00	2,199.70	2,199.70	4.81	4.81	-90.34	-0.18	-29.96	29.96	20.35	9.61	3.117		
2,300.00	2,300.00	2,299.70	2,299.70	5.03	5.03	-90.34	-0.18	-29.96	29.96	19.90	10.06	2.978		
2,400.00	2,400.00	2,399.70	2,399.70	5.26	5.25	-90.34	-0.18	-29.96	29.96	19.45	10.51	2.851		
2,500.00	2,500.00	2,499.70	2,499.70	5.48	5.48	-90.34	-0.18	-29.96	29.96	19.00	10.96	2.734 0	CC, ES	
2,600.00	2,600.00	2,599.17	2,599.17	5.71	5.69	-90.26	-0.14	-30.82	30.82	19.43	11.39	2.705		
2,700.00	2,700.00	2,698.58	2,698.54	5.93	5.89	-90.03	-0.02	-33.40	33.42	21.61	11.81	2.829		
2,800.00	2,800.00	2,797.87	2,797.74	6.15	6.09	-89.72	0.19	-37.69	37.74	25.52	12.23	3.087		
2,900.00	2,900.00	2,896.99	2,896.67	6.38	6.30	-89.39	0.47	-43.69	43.80	31.16	12.64	3.465		
3,000.00	3,000.00	2,995.86	2,995.24	6.60	6.51	-89.07	0.83	-51.38	51.58	38.53	13.05	3.952		
3,100.00	3,100.00	3,094.44	3,093.38	6.83	6.72	-88.80	1.27	-60.73	61.08	47.62		4.539		
3,200.00	3,200.00	3,192.67	3,190.99	7.05	6.94	-88.57	1.79	-71.73	72.28	58.42	13.86	5.215		
		-						•					•	
3,300.00	3,300.00	3,290.49	3,287.99	7.28	7.17	-88.38	2.39	-84.34	85.19	70.93	14.26	5.973		
3,400.00	3,400.00	3,387.85	3,384.30	7.50	7.40	-88.22	3.06	-98.54	99.78	85.12	14.66	6.807		
3,500.00	3,500.00	3,486.50	3,481.75	7.73	7.65	-88.10	3.78	-113.87	115.34	100.25	15.09	7.643		
3,600.00	3,600.00	3,585.28	3,579.33	7.95	7.91	-88.00	4.51	-129.22	130.90	115.37	15.53	8.431		
3,700.00	3,700.00	3,684.06	3,676.91	8.18	8.17	-87.93	5.24	-144.58	146.46	130.50	15.96	9.174		
3,800.00	3,800.00	3,782.85	3,774.48	8.40	8.43	-87.87	5.96	-159.94	162.02	145.62	16.40	9.877		
3,900.00	3,900.00	3,881.63	3,872.06	8.63	8.71	-87.82	6.69	-175.30	177.59	160.74	16.85	10.542		
4,000.00	4,000.00	3,980.41	3,969.64	8.85	8.98	-87.77	7.41	-190.65	193.15	175.86	17.29	11,172		
4,100.00	4,100.00	4,079.19	4,067.22	9.08	9.26	-87.74	8.14	-206.01	208.71	190.98	17.73	11.769		
4,200.00	4,200.00	4,177.97	4,164.80	9.30	9.54	-87.71	8.86	-221.37	224.28	206.10	18.18	12.336		
4,300.00	4,300.00	4,276.75	4,262.37	9.53	9.83	-87.68	9.59	-236.72	239.84	221.21	18.63	12.876		
4,400.00	4,400.00	4,375.53	4,359.95	9.75	10.12	-87.66	10.32	-252.08	255.40	236.33	19.08	13.389		
4,500.00	4,500.00	4,474.32	4,457.53	9.98	10.41	-87.64	11.04	-267.44	270.97	251.44	19.53	13.878		
4,600.00	4,600.00	4,573.10	4,555.11	10.20	10.71	-87.62	11.77	-282.79	286.53	266.55	19.98	14.344		
4,700.00	4,700.00	4,671.88	4,652.68	10.43	11.01	-87.60	12.49	-298.15	302.09	281.67	20.43	14.788		
4,800.00	4,800.00	4,770.66	4,750.26	10.65	11.31	-87.59	13.22	-313.51	317.66	296.78	20.88	15.213		
4,900.00	4,900.00	4,869.44	4,847.84	10.87	11.61	-87.57	13.94	-328.86	333.22	311.89	21.33	15.620		
5,000.00	5,000.00	4,968.22	4,945.42	11.10	11.91	-87.56	14.67	-344.22	348.78	327.00	21.79	16.008		
5,100.00	5,100.00	5,067.11	5,043.10	11.32	12.22	-32.81	15.40	-359.59	363.62	341.39		16.353		
5,200.00	5,199.96	5,166.20	5,140.99	11.53	12.53	-32.94	16.12	-375.00	377.01	354.33	22.68	16.624		
5,300.00	5,299.86	5,265.46	5,239.03	11.75	12.84	-33.21	16.85	-390.43	388.97	365.85	23.12	16.821		
5,400.00	5,399.74	5,364.77	5,337.14	11.96	13.15	-33.58	17.58	-405.87	400.40	376.83	23.57	16.987		
5,500.00	5,499.61	5,464.09	5,435.24	12.18	13.46	-33.92	18.31	-421.31	411.85	387.83	24.02	17.147		
5,600.00 5,700.00	5,599.49 5,699.36	5,563.40 5,662.71	5,533.34 5,631.45	12.40 12.62	13.78 14.09	-34.24 -34.55	19.04 19.77	-436.75 -452.19	423.30 434.78	398.84 409.86	24.47 24.92	17.300 17.448		
5,700.00	5,099.30	J,002./ I	5,031.43	12.02	14.09	-34.00	19.77	32.19	434.18	405.60	24.92	17.440		
5,800.00	5,799.24	5,762.03	5,729.55	12.83	14.41	-34.84	20.50	-467.63	446.26	420.89	25.37	17.590		
5,900.00	5,899.11	5,861.34	5,827.65	13.05	14.72	-35.12	21.23	-483.07	457.75	431.93	25.82	17.726		
6,000.00	5,998.99	5,960.66	5,925.76	13.27	15.04	-35.38	21.96	-498.51	469.26	442.98	26.28	17.858		
6,100.00	6,098.86	6,059.97	6,023.86	13.49	15.36	-35.63	22.69	-513.95	480.77	454.04	26.73	17.985		
6,200.00	6,198.74	6,159.28	6,121.96	13.72	15.68	-35.87	23.42	-529.39	492.30	465.11	27.19	18.107		
6 200 00	6 200 6 -	6 950 00	6 222 27	40.0	10.00	20.40	04.45	E 4 4 00	E00.00	470.40	07.01	40.005		
6,300.00	6,298.61	6,258.60	6,220.07	13.94	16.00	-36.10	24.15	-544.83	503.83	476.18	27.64	18.225		
6,400.00	6.398.49	6,357.91	6,318.17	14.16	16.32	-36.31	24.88	-560.27	515.36	487.26	28.10	18.339		
6,500.00	6,498.36 6,508.34	6,457.22	6,416.27	14.38	16.65	-36.52 36.72	25.61	-575.71 501.15	526.91	498.35	28.56	18.449		
6,600.00 6,700.00	6,598.24 6,698.11	6,556.54 6,655.85	6,514.38 6,612.48	14.61 14.83	16.97 17.29	-36.72 -36.91	26.34 27.07	-591.15 -606.58	538.46 550.02	509.44 520.54	29.02	18.555 18.658		
0,700.00	0,080.11	0,000.00	0,012.46	14.03	17.29	-36.91	27.07	-000.58	350.02	J2U.34	29.48	18.658		
6,800.00	6,798.02	6,755.11	6,710.53	15.03	17.62	-37.12	27.79	-622.02	562.07	532.15	29.92	18.784		
6,900.00	6,897.98	6,854.20	6,808.42	15.21	17.94	-37.23	28.52	-637.42	575.50	545.15	30.34	18.966		
7,000.00	6,997.98	6,953.10	6,906.11	15.39	18.26	-37.25	29.25	-652.80	590.29	559.53	30.76	19.190		
7,100.00	7,097.98	7,051.88	7,003.68	15.59	18.59	-91.87	29.97	-668.15	605.81	574.61	31.20	19.419		
7,200.00	7,197.98	7,150.66	7,101.26	15.81	18.91	-91.76	30.70	-683.51	621.32	589.66	31.66	19.625		
7,300.00	7,297.98	7,249.44	7,198.84	16.03	19.24	-91.65	31.43	-698.87	636.84	604.72	32.12	19.826		

Anticollision Report

Company:

Devon Energy

Project:

Eddy County, NM (NAD-83)

Reference Site:

Bora Bora 13-24

Site Error: Reference Well:

0:00 usft Bora Bora 13-24 Fed Com 215H

Well Error: Reference Wellbore

Reference Design:

0.00 usft ОН Plan #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method: Output errors are at

Database:

Offset TVD Reference:

Well Bora Bora 13-24 Fed Com 215H

3507.0' GE + 23.5' KB @ 3530.50usft 3507.0' GE + 23.5' KB @ 3530.50usft

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

Offset De	sign	Bora Bo	ora 13-24	- Bora Bora	13-24 Fe	ed Com 21	4H - OH - Plan	#1.					Offset Site Error: 0.00 u
Survey Progr Réfer		M MWD+HD	12	Semi Major	Avio		1385 H		Dista		4.		Offset Well Error: 0.00 u
Measured		Orisi Measured •	et Vertical	Reference	Offset	Highside	Offset Wellbor	re Centre	Between	Between	Minimum	Separation	Warning
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor 1	• • • · · · · · · · · · · · · · · · · ·
7,400.00	7,397.98	7,348.22	7,296.42	16.26	19.56	-91.54	32.15	-714.22	652.36	619.78	32.58	20.021	
7,500.00	7,497.98	7,447.01	7,393.99	16.48	19.89	-91.44	32.88	-729.58	667.89	634.84	33.05	20.210	
7,600.00	7,597.98	7,545.79	7,491.57	16.70	20.21	-91.35	33.60	-744.94	683.41	649.90	33.51	20.395	
7,700.00	7,697.98	7,644.57	7,589.15	16.93	20.54	-91.26	34.33	-760.29	698.94	664.96	33.97	20.573	
7,800.00	7,797.98	7,743.35	7,686.73	17.15	20.86	-91.17	35.05	-775.65	714.47	680.03	34.44	20.747	
7,900.00	7,897.98	7,842.13	7,784.31	17.37	21.19	-91.09	35.78	-791.01	730.00	695.10	34.90	20.917	
8,000.00	7,997.98	7,940.91	7,881.88	17.60	21.52	-91.01	36.51	-806.36	745.53	710.16	35.36	21.081	
8,100.00	8,097.98	8,039.69	7,979.46	17.82	21.84	-90.94	37.23	-821.72	761.06	725.23	35.83	21.242	
8,200.00	8,197.98	8,138.48	8,077.04	18.04	22.17	-90.86	37.96	-837.08	776.59	740.30	36.29	21.398	
8,300.00	8,297.98	8,237.26	8,174.62	18.27	22.50	-90.79	38.68	-852.44	792.13	755.37	36.76	21.550	
8,400.00	8,397.98	8,336.04	8,272.19	18.49	22.83	-90.72	39.41	-867.79	807.66	770.44	37.22	21.698	_
8,500.00	8,497.98	8,434.82	8,369.77	18.71	23.16	-90.66	40.13	-883.15	823.20	785.51	37.69	21.842	
8,600.00	8,597.98	8,533.60	8,467.35	18.94	23.49	-90.60	40.86	-898.51	838.74	800.58	38.15	21.983	
8,700.00	8,697.98	8,632.38	8,564.93	19.16	23.81	-90.54	41.58	-913.86	854.28	815.66	38.62	22.120	
8,800.00	8,797.98	8,741.50	8,672.78	19.39	24.13	-90.47	42.37	-930.43	869.47	830.35	39.12	22.224	
8,900.00	8,897.98	8,858.47	8,788.69	19.61	24.41	-90.42	43.11	-946.05	882.83	843.20	39.63	22.275	
9,000.00	8,997.98	8,976.03	8,905.49	19.83	24.67	-90.37	43.73	-959.37	894.16	854.03	40.13	22.283	
9,100.00	9,097.98	9,094.09	9,023.04	20.06	24.92	-90.33	44.25	-970.34	903.44	862.84	40.61	22.249	
9,200.00	9,197.98	9,212.56	9,141.19	20.28	25.15	-90.31	44.66	-978.91	910.68	869.61	41.07	22.175	
9,300.00	9,297.98	9,331.33	9,259.81	20.50	25.37	-90.29	44.95	-985.05	915.85	874.33	41.51	22.062	
9,400.00	9,397.98	9,450.31	9,378.72	20.73	25.57	-90.27	45.12	-988.74	918.95	877.01	41.94	21.911	
9,500.00	9,497.98	9,569.27	9,497.68	20.95	25.75	-90.27	45.18	-989.96	919.97	877.62	42.35	21.721	
9,600.00	9,597.98	9,669.27	9,597.68	21.18	25.92	-90.27	45.18	-989.96	919.97	877.20	42.77	21.507	
9,666.12	9,664.10	9,735.39	9,663.80	21.32	26.04	90.04	45.18	-989.96	919.97	876.91	43.06	21.367	
9,700.00	9,697.98	9,769.27	9,697.68	21.40	26.09	90.04	45.18	-989.96	919.97	876.77	43.20	21.296	
9,800.00	9,797.45	9,869.40	9,797.28	21.58	26.25	90.05	36.34	-989.91	919.97	876.42	43.55	21.122	
9,900.00	9,893.88	9,969.53	9,893.84	21.75	26.39	90.05	10.32	-989.77	919.97	876.10	43.87	20.970	
10,000.00	9,984.33	10,069.66	9,984.41	21.91	26.54	90.05	-32.09	-989.54	919.97	875.78	44.19	20.820	
10,100.00	10,066.05	10,169.79	10,066.22	22.05	26.68	90.04	-89.60	-989.22	919.97	875.43	44.54	20.656	
10,200.00	10,136.55	10,269.92	10,136.78	22.22	26.84	90.04	-160.46	-988.84	919.97	875.00	44.97	20.458	
10,300.00	10,193.70	10,370.03	10,193.94	22.48	27.03	90.04	-242.50	-988.39	919.97	874.44	45.53	20.207	
10,400.00	10,235.76	10,470.13	10,235.96	22.82	27.27	90.03	-333.21	-987.90	919.96	873.72	46.24	19.894	
10,500.00	10,261.46	10,570.21	10,261.57	23.26	27.58	90.03	-429.82	-987.37	919.96	872.83	47.13	19.518	
10,600.00	10,270.00	10,670.28	10,270.01	23.79	27.98	90.02	-529.40	-986.83	919.96	871.77	48.19	19.090	
10,700.00	10,269.70	10,770.28	10,269.60	24.40	28.47	90.01	-629.40	-986.28	919.96	870.53	49.43	18.611	
10,800.00	10,269.39	10,870.28	10,269.20	25.10	29.06	90.01	-729.40	-985.74	919.96	869.11	50.84	18.094	
10,900.00	10,269.09	10,970.28	10,268.80	25.89	29.73	90.00	-829.40	-985.19	919.96	867.53	52.42	17.548	
11,000.00	10,268.79	11,070.28	10,268.39	26.76	30.48	89.99	-929.39	-984.65	919.95	865.80	54.16	16.987	
11,100.00	10,268.48	11,170.28	10,267.99	27.69	31.30	89.99	-1,029.39	-984.10	919.95	863.92	56.03	16.419	
11,200.00	10,268.18	11,270.28	10,267.58	28.69	32.19	89.98	-1,129.39	-983.55	919.95	861.93	58.03	15.854	
11,300.00	10,267.88	11,370.28	10,267.18	29.75	33.13	89.98	-1,229.39	-983.01	919.95	859.82	60.13	15.298	
11,400.00	10,267.58	11,470.28	10,266.78	-30.86	34.14	89.97	-1,329.38	-982.46	919.95	857.60	62.35	14.756	
11,500.00	10,267.27	11,570.28	10,266.37	32.01	35.19	89.96	-1,429.38	-981.92	919.95	855.30	64.65	14.230	
11,600.00	10,266.97	11,670.28	10,265.97	33.20	36.29	89.96	-1,529.38	-981.37	919.95	852.92	67.03	13.724	
11,700.00	10,266.67	11,770.28	10,265.57	34.44	37.43	89.95	-1,629.38	-980.83	919.94	850.46	69.49	13.239	
11,800.00	10,266.37	11,870.28	10,265.16	35.70	38.61	89.94	-1,729.38	-980.28	919.94	847.94	72.01	12.776	
11,900.00	10,266.06	11,970.28	10,264.76	36.99	39.82	89.94	-1,829.37	-979.74	919.94	845.35	74.59	12.334	
12,000.00	10,265.76	12,070.28	10,264.36	38.31	41.06	89.93	-1,929.37	-979.19	919.94	842.72	77.22	11.913	
12,100.00	10,265.46	12,170.28	10,263.95	39.66	42.33	89.92	-2,029.37	-978.65	919.94	840.04	79.90	11.513	
12,200.00	10,265.16	12,270.28	10,263.55	41.02	43.62	89.92	-2,129.37	-978.10	919.94	837.31	82.63	11.133	
12,300.00	10,264.85	12,370.28	10,263.14	42.40	44.94	89.91	-2,229.36	-977.56	919.94	834.54	85.39	10.773	
12,400.00	10,264.55	12,470.28	10,262.74	43.81	46.27	89.91	-2,329.36	-977.01	919.93	831.74	88.19	10.431	

Anticollision Report

Company: Devon Energy

Eddy County, NM (NAD-83) Project:

Reference Site: Bora Bora 13-24

Site Error: Reference Well:

Reference Design:

0.00 usft

Bora Bora 13-24 Fed Com 215H

Well Error: 0.00 usft ОН Reference Wellbore Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well Bora Bora 13-24 Fed Com 215H

3507.0' GE + 23.5' KB @ 3530.50usft 3507.0' GE + 23.5' KB @ 3530.50usft

Grid

Minimum Curvature 2.00 sigma

EDM 5000.1 Multi User Db

Offset Des	sign	Bora Bo	ora 13-24	- Bora Bora	13-24 F	ed Com 2141	H - OH - Plan i						Offset Site Error:	0.00 usft
Survey Progr Refere		AM MWD+HD Offs		Semi Major	Axis				. Dista	ance d			Offset Well Error:	0.00 usft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum.	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
12,500.00	10,264.25	12,570.28	10,262.34	45.22	47.63	89.90	-2,429.36	-976.46	919.93	828.91	91.02	10.107		
12,600.00	10,263.94	12,670.28	10,261.93	46.66	49.00	89.89	-2,529.36	-975.92	919.93	826.05	93.88	9.799		
12,700.00	10,263.64	12,770.28	10,261.53	48.10	50.39	89.89	-2,629.35	-975.37	919.93	823.16	96.77	9.506		
12,800.00	10,263.34	12,870.28	10,261.13	49.56	51.80	89.88	-2,729.35	-974.83	919.93	820.25	99.68	9.229		
12,900.00	10,263.04	12,970.28	10,260.72	51.03	53.21	89.87	-2,829.35	-974.28	919.93	817.31	102.61	8.965		
13,000.00	10,262.73	13,070.28	10,260.32	52.51	54.65	89.87	-2,929.35	-973.74	919.93	814.36	105.57	8.714		
13,100.00	10,262.43	13,170.28	10,259.92	54.00	56.09	89.86	-3,029.34	-973.19	919.93	811.38	108.54	8.475		
13,200.00	10,262.13	13,270.28	10,259.51	55.49	57.54	89.86	-3,129.34	-972.65	919.92	808.39	111.53	8.248		
13,300.00	10,261.83	13,370.28	10,259.11	57.00	59.00	89.85	-3,229.34	-972.10	919.92	805.39	114.54	8.032		
13,400.00	10,261.52	13,470.28	10,258.71	58.51	60.47	89.84	-3,329.34	-971.56	919.92	802.36	117.56	7.825		
13,500.00	10,261.22	13,570.28	10,258.30	60.03	61.95	89.84	-3,429.34	-971.01	919.92	799.33	120.59	7.628		
13,600.00	10,260.92	13,670.28	10,257.90	61.55	63.44	89.83	-3,529.33	-970.47	919.92	796.28	123.64	7.440		
13,700.00	10,260.62	13,770.28	10,257.49	63.08	64.94	89.82	-3,629.33	-969.92	919.92	793.22	126.70	7.261		
13,800.00	10,260.31	13,870.28	10,257.09	64.62	66.44	89.82	-3,729.33	-969.38	919.92	790.15	129.76	7.089		
13,900.00	10,260.01	13,970.28	10,256.69	66.16	67.95	89.81	-3,829.33	-968.83	919.91	787.07	132.84	6.925		
14,000.00	10,259.71	14,070.28	10,256.28	67.71	69.46	89.81	-3,929.32	-968.28	919.91	783.98	135,93	6.768		
14,100.00	10,259.40	14,170.28	10,255.88	69.26	70.98	89.80	-4,029.32	-967.74	919.91	780.88	139.03	6.617		
14,200.00	10,259.10	14,270.28	10,255.48	70.81	72.51	89.79	-4,129.32	-967.19	919.91	777.78	142.13	6.472		
14,300.00	10,258.80	14,370.28	10,255.07	72.37	74.04	89.79	-4,229.32	-966.65	919.91	774.66	145.25	6.333		
14,400.00	10,258.50	14,470.28	10,254.67	73.93	75.57	89.78	-4,329.31	-966.10	919.91	771.54	148.37	6.200		
14,500.00	10,258.19	14,570.28	10,254.27	75.49	77.11	89.77	-4,429.31	-965.56	919.91	768.41	151.49	6.072		
14,600.00	10,257.89	14,670.28	10,253.86	77.06	78.65	89.77	-4,529.31	-965.01	919.91	765.28	154.63	5.949		
14,700.00	10,257.59	14,770.28	10,253.46	78.63	80.20	89.76	-4,629.31	-964.47	919.91	762.14	157.77	5.831		
14,800.00	10,257.29	14,870.28	10,253.05	80.21	81.75	89.76	-4,729.30	-963.92	919.90	758.99	160.91	5.717		
14,900.00	10,256.98	14,970.28	10,252.65	81.78	83.30	89.75	-4,829.30	-963.38	919.90	755.84	164.06	5.607		
15,000.00	10,256.68	15,070.28	10,252.25	83.36	84.86	89.74	-4,929.30	-962.83	919.90	752.69	167.21	5.501		
15,100.00	10,256.38	15,170.28	10,251.84	84.94	86.42	89.74	-5,029.30	-962.29	919.90	749.53	170.37	5.399		
15,200.00	10,256.08	15,270.28	10,251.44	86.52	87.98	89.73	-5,129.30	-961.74	919.90	746.36	173.54	5.301		
15,300.00	10,255.77	15,370.28	10,251.04	88.11	89.55	89.72	-5,229.29	-961.19	919.90	743.19	176.71	5.206		
15,400.00	10,255.47	15,470.28	10,250.63	89.70	91.12	89.72	-5,329.29	-960.65	919.90	740.02	179.88	5.114		
15,500.00	10,255.17	15,570.28	10,250.23	91.28	92.69	89.71	-5,429.29	-960.10	919.90	736.84	183.05	5.025		
15,600.00	10,254.86	15,670.28	10,249.83	92.88	94.26	89.70	-5,529.29	-959.56	919.90	733.66	186.23	4.939		
15,700.00	10,254.56	15,770.28	10,249.42	94.47	95.84	89.70	-5,629.28	-959.01	919.89	730.48	189.42	4.856		
15,800.00	10,254.26	15,870.28	10,249.02	96.06	97.41	89.69	-5,729.28	-958.47	919.89	727.29	192.60	4.776		
15,900.00	10,253.96	15,970.28	10,248.62	97.66	98.99	89.69	-5,829.28	-957.92	919.89	724.10	195.79	4.698		
16,000.00	10,253.65	16,070.28	10,248.21	99.25	100.57	89.68	-5,929.28	-957.38	919.89	720.91	198.98	4.623		
16,100.00	10,253.35	16,170.28	10,247.81	100.85	102.16	89.67	-6,029.27	-956.83	919.89	717.71	202.18	4.550		
16,200.00	10,253.05	16,270.28	10,247.40	102.45	103.74	89.67	-6,129.27	-956.29	919.89	714.51	205.38	4.479		
16,300.00	10,252.75	16,370.28	10,247.00	104.05	105.33	89.66	-6,229.27	-955.74	919.89	711.31	208.58	4.410		
16,400.00	10,252.44	16,470.28	10,246.60	105.65	106.92	89.65	-6,329.27	-955.20	919.89	708.11	211.78	4.344		
16,500.00	10,252.14	16,570.28	10,246.19	107.26	108.51	89.65	-6,429.26	-954.65	919.89	704.90	214.99	4.279		
16,600.00	10,251.84	16,670.28	10,245.79	108.86	110.10	89.64	-6,529.26	-954.11	919.89	701.69	218.19	4.216		
16,700.00	10,251.54	16,770.28	10,245.39	110.47	111.69	89.64	-6,629.26	-953.56	919.89	698.48	221.40	4.155		
16,800.00	10,251.23	16,870.28	10,244.98	112.07	113.29	89.63	-6,729.26	-953.01	919.88	695.27	224.61	4.095		
16,900.00	10,250.93	16,970.28	10,244.58	113.68	114.88	89.62	-6.829.26	-952.47	919.88	692.06	227.83	4.038		
17,000.00	10,250.63	17,070.28	10,244.18	115.29	116.48	89.62	-6,929.25	-951.92	919.88	688.84	231.04	3.981		
17,100.00	10,250.33	17,170.28	10,243.77	116.90	118.07	89.61	-7,029.25	-951.38	919.88	685.62	234.26	3.927		
17,200.00	10,250.02	17,270.28	10,243.37	118.51	119.67	89.60	-7,129.25	-950.83	919.88	682.40	237.48	3.874		
17,300.00	10,249.72	17,370.28	10,242.96	120.12	121.27	89.60	-7,229,25	-950.29	919.88	679.18	240.70	3.822		
17,400.00	10,249.42	17,470.28	10,242.56	121.73	122.87	89.59	-7,329.24	-949.74	919.88	675.96	243.92	3.771		
17,500.00	10,249.11	17,570.28	10,242.16	123.34	124.48	89.59	-7,429.24	-949.20	919.88	672.74	247.14	3.722		
17,600.00	10,248.81	17,670.28	10 241 75	124.95	126.08	89.58	-7,529.24	-948.65	919.88	669.51	250.37	3.674		
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10,240.01	17,070.20	10,241.73	124.90	120.00	09.00	-1,329.24	-540.00	313.00	16,600	200.37	3.074		

Anticollision Report

Company:

Devon Energy

Project:

Eddy County, NM (NAD-83)

Reference Site:

Bora Bora 13-24

Site Error:

0.00 usft

Reference Well:

Bora Bora 13-24 Fed Com 215H

Well Error: Reference Wellbore Reference Design:

0.00 usft ОН Plan #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method:

Output errors are at

Database:

Offset TVD Reference:

Well Bora Bora 13-24 Fed Com 215H

3507.0' GE + 23.5' KB @ 3530.50usft 3507.0' GE + 23.5' KB @ 3530.50usft

Grid.

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

Offset De	sign	Bora B	ora 13-24 -	- Bora Bora	13-24 Fe	ed Com 214H	- OH - Plan #	‡ 1					Offset Site	Error:	0.00 us
Survey Prog	ram: 0-LE	AM MWD+HI	OGM.										Offset Well	Error:	0.00 us
Refer	ence	Offs	et	Semi Major	Axis				Dista	nce		4			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore +N/-S (usft)	+E/-W	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor 7	V	Varning	
17,700.00	10,248.51	17,770,28	10,241.35	126.57	127.68	89.57	-7,629.24	-948.11	919.88	666.28	253.59	3.627			
17,700.00	10,248.21	17,770.28	10,241.35	128.18	129.29	89.57	-7,729.23	-947.56	919.88	663.06	256.82	3.582			
17,900.00	10,247.90	17,970.28	10,240.54	129.80	130.89	89.56	-7,729.23	-947.02	919.88	659.83	260.02	3.537			
18,000.00	10,247.60	18,070.28	10,240.14	131.41	132.50	89.55	-7,929.23	-946.47	919.87	656.60	263.28	3.494			
18,100.00	10,247.30	18,170.27	10,239.74	133.03	134.11	89.55	-8,029.23	-945.92	919.87	653.36	266.51	3.452			
18,200.00	10,247.00	18,270.27	10,239.33	134.64	135.71	89.54	-8,129.22	-945.38	919.87	650.13	269.74	3.410			
18,300.00	10,246.69	18,370.27	10,238.93	136.26	137.32	89.54	-8,229.22	-944.83	919.87	646.90	272.97	3.370			
18,400.00	10,246.39	18,470.27	10,238.53	137.88	138.93	89.53	-8,329.22	-944.29	919.87	643.66	276.21	3.330			
18,500.00	10,246.09	18,570.27	10,238.12	139.50	140.54	89.52	-8,429.22	-943.74	919.87	640.43	279.44	3.292			
18,600.00	10,245.79	18,670.27	10,237.72	141.12	142.15	89.52	-8,529.22	-943.20	919.87	637.19	282.68	3.254			
18,700.00	10,245.48	18,770.27	10,237.31	142.73	143.77	89.51	-8,629.21	-942.65	919.87	633.95	285.92	3.217			
18,800.00	10,245.18	18,870.27	10,236.91	144.35	145.38	89.50	-8,729.21	-942.11	919.87	630.71	289.16	3.181			•
18,900.00	10,244.88	18,970.27	10,236.51	145.97	146.99	89.50	-8,829.21	-941.56	919.87	627.47	292.40	3.146			
19,000.00	10,244.57	19,070.27	10,236.10	147.59	148.60	89.49	-8,929.21	-941.02	919.87	624.23	295.64	3,111			
19,100.00	10,244.27	19,170.27	10,235.70	149.22	150.22	89.48	-9,029.20	-940.47	919.87	620.99	298.88	3.078			
19,200.00	10,243.97	19,270.27	10,235.30	150.84	151.83	89.48	-9,129.20	-939.93	919.87	617.75	302.12	3.045			
19,300.00	10,243.67	19,370.27	10,234.89	152.46	153.45	89.47	-9,229.20	-939.38	919.87	614.50	305.36	3.012			
19,400.00	10,243.36	19,470.27	10,234.49	154.08	155.06	89.47	-9,329.20	-938.84	919.86	611.26	308.61	2.981			
19,500.00	10,243.06	19,570.27	10,234.09	155.70	156.68	89.46	-9,429.19	-938.29	919.86	608.01	311.85	2.950			
19,600.00	10,242.76	19,670.27	10,233.68	157.33	158.29	89.45	-9,529.19	-937.74	919.86	604.77	315.09	2.919			
19,700.00	10,242.46	19,770.27	10,233.28	158.95	159.91	89.45	-9,629.19	-937.20	919.86	601.52	318.34	2.890			
19,800.00	10,242.15	19,870.27	10,232.87	160.57	161.53	89.44	-9,729.19	-936.65	919.86	598.28	321.59	2.860			
19,900.00	10,241.85	19,970.27	10,232.47	162.20	163.15	89.43	-9,829.18	-936.11	919.86	595.03	324.83	2.832			
20,000.00	10,241.55	20,070.27	10,232.07	163.82	164.77	89.43	-9,929.18	-935.56	919.86	591.78	328.08	2.804			
20,100.00	10,241.25	20,170.27	10,231.66	165.44	166.38	89.42	-10,029.18	-935.02	919.86	588.53	331.33	2.776			
20,200.00	10,240.94	20,270.27	10,231.26	167.07	168.00	89.42	-10,129.18	-934.47	919.86	585.28	334.58	2.749			
20,300.00	10,240.64	20,370.27	10,230.86	168.69	169.62	89.41	-10,229.18	-933.93	919.86	582.03	337.83	2.723			
20,400.00	10,240.34	20,470.27	10,230.45	170.32	171.24	89.40	-10,329.17	-933.38	919.86	578.78	341.08	2.697			
20,500.00	10,240.03	20,570.27	10,230.05	171.95	172.86	89.40	-10,429.17	-932.84	919.86	575.53	344.33	2.671			
20,511.39	10,240.00	20,581.66	10,230.00	172.13	173.05	89.40	-10,440.56	-932.77	919.86	575.16	344.70	2.669 SF	•		

Anticollision Report

Company: Devon Energy Local Co-ordinate Reference: Well Bora Bora 13-24 Fed Com 215H 3507 0' GE + 23.5' KB @ 3530:50usft Project: Eddy County, NM (NAD-83) TVD Reference: Reference Site: Bora Bora 13-24 MD Reference: 3507.0' GE + 23.5' KB @ 3530.50usft Site Error: 🔻 👌 0.00 usft North Reference: Grid Reference Well: Bora Bora 13-24 Fed Com 215H Survey Calculation Method: Minimum Curvature Well Error: 0.00 usft Output errors are at-2.00 sigma Reference Wellbore ОН Database: EDM 5000 1 Multi User Db Offset TVD Reference: Reference Design: Plan #1 Offset Datum

Offset De	sign	Bora Bo	ra 13-24 -	Bora Bora	13-24 F	ed Com 216F	l - OH - Plan #1		Contract of Participants	***************************************	Benji Sanjini na majani	"	Offset Site Error: 0.00 usft
Survey Progr	ram: 🐭 🖰 U-LE	:AM:MVVU+HU	CHIMIT I THE SECTION	we are and seek	Andreas and the second							G. W.S.	Offset Well Error: 0.00 usft
Refere		, Offse		Semi Major	\xis ; °	Highside			Distanc	e (Minimum , S	4 200	
Measured Depth	vertical Depth	Measured Depth	Vertical Depth	Reference	Unset.	Toolface	Offset Wellbore C	entre :	Between B	llipses	Minimum	Engton "	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	· · · · · · · · · · · · · · · · · · ·	+N/-S + (usft) (usft)	, (usft)	(usft)	Separation . (usft)		
0.00	0.00	0.10	0.10	0.00	0.00	89.90	0.05	30.02	30.02	د کیا			
100.00	100.00	100.10	100.10	0.09	0.09	89.90	0.05	30.02	30.02	29.85	0.17	174.362	
200.00	200.00	200.10	200.10	0.31	0.31	89.90	0.05	30.02	30.02	29.40	0.62	48.287	
300.00	300.00	300.10	300.10	0.54	0.54	89.90	0.05	30.02	30.02	28.95	1.07	28.024	
400.00	400.00	400.10	400.10	0.76	0.76	89.90	0.05	30.02	30.02	28.50	1.52	19.740	
500.00	500.00	500.10	500.10	0.99	0.99	89.90	0.05	30.02	30.02	28.05	1.97	15.236	
600.00	600.00	600.10	600.10	1.21	1.21	89.90	0.05	30.02	30.02	27.60	2.42	12.406	
700.00	700.00	700.10	700.10	1.43	1.43	89.90	0.05	30.02	30.02	27.15	2.87	10.462	
800.00	800.00	800.10	800.10	1.66	1.66	89.90	0.05	30.02	30.02	26.70	3.32	9.045	•
900.00	900.00	900.10	900.10	1.88	1.88	89.90	0.05	30.02	30.02	26.25	3.77	7.966	
1,000.00	1,000.00	1,000.10	1,000.10	2.11	2.11	89.90	0.05	30.02	30.02	25.80	4.22	7,117	
1,100.00	1,100.00	1,100.10	1,100.10	2.33	2.33	89.90	0.05	30.02	30.02	25.35	4.67	6.432	
1,200.00 1,300.00	1,200.00	1,200.10	1,200.10	2.56 2.78	2.56	89.90	0.05	30.02	30.02	24.90	5.12	5.867	
1,400.00	1,300.00 1,400.00	1,300.10 1,400.10	1,300.10 1,400.10	3.01	2.78 3.01	89.90 89.90	0.05 0.05	30.02 30.02	30.02 30.02	24.45 24.00	5.57 6.02	5.393 4.990	
1,500.00	1,500.00	1,500.10	1,500.10	3.23	3.23	89.90	0.05	30.02	30.02	23.55	6.47	4.643	
1,300.00	.,500.00	.,500.10	.,050.10	5.25	0.20	30.00	0.00	30.0E	50.02	25.55	0.41	040	
1,600.00	1,600.00	1,600.10	1,600.10	3.46	3.46	89.90	0.05	30.02	30.02	23.10	6.92	4.341	
1,700.00	1,700.00	1,700.10	1,700.10	3.68	3.68	89.90	0.05	30.02	30.02	22.66	7.36	4.076	
1,800.00	1,800.00	1,800.10	1,800.10	3.91	3.91	89.90	0.05	30.02	30.02	22.21	7.81	3.842	
1,900.00	1,900.00	1,900.10	1,900.10	4.13	4.13	89.90	0.05	30.02	30.02	21.76	8.26	3.633	
2,000.00	2,000.00	2,000.10	2,000.10	4.36	4.36	89.90	0.05	30.02	30.02	21.31	8.71	3.445	
2,100.00	2,100.00	2,100.10	2,100.10	4.58	4.58	89.90	0.05	30.02	30.02	20.86	9.16	3.276	
2,200.00	2,200.00	2,200.10	2,200.10	4.81	4.81	89.90	0.05	30.02	30.02	20.41	9.61	3.123	
2,300.00	2,300.00	2,300.10	2,300.10	5.03	5.03	89.90	0.05	30.02	30.02	19.96	10.06	2.984	
2,400.00	2,400.00	2,400.10	2,400.10	5.26	5.26	89.90	0.05	30.02	30.02	19.51	10.51	2.856	
2,500.00	2,500.00	2,500.10	2,500.10	5.48	5.48	89.90	0.05	30.02	30.02	19.06	10.96	2.739	
2,600.00	2,600.00	2,600.10	2,600.10	5.71	5.71	89.90	0.05	30.02	30.02	18.61	11.41	2.631	
2,700.00	2,700.00	2,700.10	2,700.10	5.93	5.93	89.90	0.05	30.02	30.02	18.16	11.86	2.531	
2,800.00	2,800.00	2,800.10	2,800.10	6.15	6.15	89.90	0.05	30.02	30.02	17.71	12.31	2.439	
2,900.00	2,900.00	2,900.10	2,900.10	6.38	6.38	89.90	0.05	30.02	30.02	17.26	12.76	2.353	
2,916.63	2,916.63	2,916.73	2,916.73	6.42	6.42	89.90	0.05	30.02	30.02	17.19	12.83	2.339 C	:c
													_
3,000.00 3,100.00	3,000.00 3,100.00	3,000.00 3,099.57	3,000.00 3,099.56	6.60 6.83	6.60 6.81	89.90	0.05	30.02 30.88	30.02	16.81	13.21	2.273 E	
3,100.00	3,200.00	3,198.98	3,198.94	7.05	7.01	89.82 89.58	0.10 0.24	33.47	30.89 33.49	17.25 19.43	13.64 14.06	2.264 S 2.382	· · ·
3,300.00	3,300.00	3,298.27	3,298.13	7.28	7.21	89.26	0.49	37.77	37.82	23.35	14.47	2.614	1
3,400.00	3,400.00	3,397.38	3,397.06	7.50	7.42	88.92	0.82	43.77	43.89	29.01	14.88	2.949	
3,500.00	3,500.00	3,496.25	3,495.63	7.73	7.63	88.60	1.25	51.46	51.67	36.39	15.29	3.380	
3,600.00	3,600.00	3,594.83	3,593.76	7.95	7.84	88.32	1.78	60.82	61.18	45.49	15.69	3.899	
3,700.00 3,800.00	3,700.00 3,800.00	3,693.06 3,790.87	3,691.37 3,788.37	8.18 8.40	8.06 8.28	88.09 87.89	2.40 3.10	71.82 84.43	72.39 85.30	56.30 68.82	16.09 16.48	4.500 5.176	
3,900.00	3,900.00	3,889.35	3,885.84	8.63	8.51	87.74	3.89	98.43	99.53	82.63	16.48	5.176	
5,500.00	0,000.00	0,000.00	0,000,04	0.00	0.51	51.14	3.03	00.40	55.55	OL.00	,0.30	0.000	
4,000.00	4,000.00	3,988.32	3,983.78	8.85	8.75	87.62	4.69	112.59	113.86	96.53	17.33	6.570	
4,100.00	4,100.00	4,087.29	4,081.73	9.08	9.00	87.52	5.48	126.75	128.19	110.43	17.76	7.216	
4,200.00	4,200.00	4,186.25	4,179.68	9.30	9.24	87.45	6.28	140.91	142.52	124.32	18.20	7.830	
4,300.00	4,300.00	4,285.22	4,277.62	9.53	9.50	87.39	7.07	155.07	156.85	138.21	18.64	8.415	·
4,400.00	4,400.00	4,384.19	4,375.57	9.75	9.75	87.34	7.87	169.23	171.18	152.10	19.08	8.973	
4,500.00	4,500.00	4,483.16	4,473.52	9.98	10.02	87.30	8.66	183.39	185.51	165.99	19.52	9.505	
4,600.00	4,600.00	4,582.12	4,571.46	10.20	10.28	87.26	9.46	197.55	199.84	179.88	19.96	10.012	
4,700.00	4,700.00	4,681.09	4,669.41	10.43	10.55	87.23	10.25	211.71	214.17	193.77	20.40	10.497	
4,800.00	4,800.00	4,780.06	4,767.35	10.65	10.82	87.20	11.05	225.88	228.50	207.66	20.85	10.961	
4,900.00	4,900.00	4,879.03	4,865.30	10.87	11.09	87.18	11.84	240.04	242.83	221.54	21.29	11.405	
F 000 00	E 000 00	4.070.05	4.000.00		4	07.45	,	05:00	057	005 :0	0.5.		
5,000.00	5,000.00	4,978.00	4,963.25	11.10	11.37	87.15	12.64	254.20	257.17	235.43	21.74	11.830	

Anticollision Report

Company:

Project:

Eddy County, NM (NAD-83)

Bora Bora 13-24 Fed Com 215H

Reference Site:

Bora Bora 13-24 0.00 usft

Site Error:

Reference Well:

Well Error:

0.00 usft Reference Wellbore ОН Plan #1 Reference Design:

Devon Energy

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at

Database:

Offset TVD Reference:

Well Bora Bora 13-24 Fed Com 215H

3507.0' GE + 23.5' KB @ 3530.50usft

3507.0' GE + 23.5' KB @ 3530.50usft

Grid.

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

Offset Des	sign	Bora Bo	ra 13-24 -	Bora Bora	13-24 F	ed Com 216l	H - OH - Plan #	‡1					Offset Site Error:	0.00 us
urvey Progr	ram: 0-LE	AM MWD+HD	GM										Offset Well Error:	0.00 ust
Refere	ence	Offse	et	Semi Major					Dista	ance				
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbord		Between	Between	Minimum	Separation	Warnin	g .
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S	+E/-W	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	1	
ختم أخد								(usft)					, t	£
5,100.00	5,100.00	5,076.86	5,061.09	11.32	11.64	141.89	13.43	268.34	272.18	250.00	22.18	12.272		
5,200.00	5,199.96	5,175.50	5,158.71	11.53	11.92	142.09	14.22	282.46	288.55	265.93	22.61	12.760		
5,300.00	5,299.86	5,273.88	5,256.08	11.75	12.20	142.46	15.01	296.53	306.27	283.23	23.05	13.288		
5,400.00	5,399.74	5,372.17	5,353.35	11.96	12.48	142.95	15.80	310.60	324.53	301.05	23.48	13.819		
5,500.00	5,499.61	5,470.45	5,450.62	12.18	12.77	143.39	16.59	324.66	342.81	318.89	23.92	14.331		
5,600.00	5,599.49	5,568.74	5,547.89	12.40	13.05	143.78	17.38	338.72	361,11	336.75	24.36	14.825		
5,700.00	5,699.36	5,667.02	5,645.16	12.62	13.34	144.14	18.17	352.79	379.42	354.62	24.80	15.301		
5,800.00	5,799.24	5,765.30	5,742.43	12.83	13.63	144,46	18.96	366.85	397.74	372.50	25.24	15.760		
5,900.00	5,899.11	5,863.59	5,839.70	13.05	13.92	144.75	19.75	380.91	416.08	390.40	25.68	16.203		
6,000.00	5,998.99	5,961.87	5,936.96	13.27	14.21	145.02	20.54	394.98	434.42	408.30	26.12	16.631		
6,100.00	6,098.86	6,060.15	6,034.23	13.49	14.50	145.27	21.33	409.04	452.77	426.21	26.56	17.044		
						-						-		
6,200.00	6,198.74	6,158.44	6,131.50	13.72	14.79	145.50	22.12	423.10	471.13	444.12		17.444		
6,300.00	6,298.61	6,256.72	6,228.77	13.94	15.09	145.71	22.91	437.16	489.50	462.05	27.45	17.830		
6,400.00	6,398.49	6,355.00	6,326.04	14.16	15.38	145.90	23.70	451.23	507.87	479.97	27.90	18.203		
6,500.00	6,498.36	6,453.29	6,423.31	14.38	15.68	146.08	24.49	465.29	526.25	497.90	28.35	18.564		
6,600.00	6,598.24	6,551.57	6,520.58	14.61	15.97	146.25	25.28	479.35	544.63	515.84	28.80	18.914		
0.700.00	0.000 1:	0.010.00	0.047.05		40.07	440 **	20.0=	400.40	500.00	500 70	20.5	10.050		
6,700.00	6,698.11	6,649.85	6,617.85	14.83	16.27	146.41	26.07	493.42	563.02	533.78	29.24	19.253		
6,800.00	6,798.02	6,748.23	6,715.21	15.03	16.57	146.61	26.86	507.49	580.90	551.22		19.574		
6,900.00	6,897.98	6,846.87	6,812.83	15.21	16.87	146.72	27.65	521.61	597.36	567.28	30.09	19.854		
7,000.00	6,997.98	6,945.73	6,910.67	15.39	17.17	146.72	28.45	535.75	612.39	581.89	30.50	20.080		
7,100.00	7,097.98	7,044.70	7,008.61	15.59	17.47	91.87	29.24	549.91	626.66	595.73	30.93	20.262		
7,200.00	7,197.98	7,143.66	7,106.56	15.81	17.78	91.76	30.04	564.07	640.94	609.55	31.39	20.422		
7,300.00	7,297.98	7,242.63	7,204.51	16.03	18.08	91.65	30.83	578.23	655.22	623.38		20.577		
7,400.00	7,397.98	7,341.60	7,302.45	16.26	18.38	91.55	31.63	592.40	669.50	637.20	32.30	20.727		
7,500.00	7,497.98	7,440.57	7,400.40	16.48	18.69	91.45	32.42	606.56	683.78	651.03		20.873	•	
7,600.00	7,597.98	7,539.54	7,498.35	16.70	18.99	91.35	33.22	620.72	698.07	664.85		21.015		
1,000.00	7,001.00	,,555.5	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			000	55.22							
7,700.00	7,697.98	7,638.50	7,596.29	16.93	19.30	91.26	34.01	634.88	712.36	678.68	33.68	21.153		
7,800.00	7,797.98	7,737.47	7,694.24	17.15	19.61	91.17	34.81	649.04	726.65	692.51	34.13	21.288		
7,900.00	7,897.98	7,836.44	7,792.18	17.37	19.91	91.09	35.60	663.20	740.94	706.34	34.59	21.418		
8,000.00	7,997.98	7,935.41	7,890.13	17.60	20.22	91.00	36.40	677.36	755.23	720.18	35.05	21.545		
8,100.00	8,097.98	8,034.37	7,988.08	17.82	20.53	90.93	37.19	691.52	769.52	734.01	35.51	21.669		
8,200.00	8,197.98	8,133.34	8,086.02	18.04	20.84	90.85	37.99	705.68	783.82	747.85		21.789		
8,300.00	8,297.98	8,232.31	8,183.97	18.27	21.14	90.78	38.78	719.84	798.12	761.68		21.906		
8,400.00	8,397.98	8,331.28	8,281.91	18.49	21.45	90.71	39.58	734.00	812.41	775.52		22.020		
8,500.00	8,497.98	8,430.25	8,379.86	18.71	21.76	90.64	40.37	748.17	826.71	789.36		22.131		
8,600.00	8,597.98	8,529.21	8,477.81	18.94	22.07	90.57	41.17	762.33	841.01	803.20	37.82	22.239		
8,700.00	8,697.98	8,628.18	8,575.75	19.16	22.38	90.51	41.96	776.49	855.31	817.04	38.28	22.345		
8,800.00	8,797.98	8,727.15	8,673.70	19.39	22.69	90.45	42.76	790.65	869.62	830.88		22.448		
8,900.00	8,897.98	8,843.70	8,789.21	19.61	22.99	90.38	43.63	806.20	882.96	843.69	39.27	22.485		
9,000.00	8,997.98	8,961.26	8,906.00	19.83	23.26	90.33	44.38	819.50	894.27	854.50		22.485		
9,100.00	9,097.98	9,079.31	9,023.55	20.06	23.51	90.29	44.99	830.45	903.54	863.28	40.26	22.443		
-,		-,	-,							20				
9,200.00	9,197.98	9,197.78	9,141.69	20.28	23.75	90.25	45.47	839.01	910.76	870.03	40.73	22.359		
9,300.00	9,297.98	9,316.54	9,260.30	20.50	23.97	90.23	45.82	845.13	915.92	874.73	41.19	22.237		
9,400.00	9,397.98	9,435.51	9,379.21	20.73	24.18	90.22	46.02	848.81	919.01	877.38	41.63	22.076		
9,500.00	9,497.98	9,554.39	9,498.08	20.95	24.37	90.21	46.09	850.02	920.03	877.97	42.05	21.878		
9,600.00	9,597.98	9,654.39	9,598.08	21.18	24.55	90.21	46.09	850.02	920.03	877.55		21.659		
9,699.91	9,697.89	9,754.28	9,697.97	21.40	24.73	-89.48	46.09	850.02	920.03	877.12		21.443		
9,700.00	9,697.98	9,754.37	9,698.06	21.40	24.73	-89.48	46.09	850.02	920.03	877.12	42.91	21.443		
9,800.00	9,797.45	9,852.92	9,796.11	21.58	24.89	-89.48	37.46	850.07	920.03	876.76	43.27	21.265		
9,900.00	9,893.88	9,951.52	9,891.28	21.75	25.05	-89.51	12,16	850.21	920.02	876.44	43.58	21.109		
10,000.00	9,984.33	10,050.00	9,980.61	21.91	25.20	-89.54	-29.00	850.43	920.02	876.12	43.90	20.957		
					_	_		_				_		
10,025.65	10,006.23	10,075.52	10,002.50	21.94	25.24	-89.55	-42.13	850.50	920.02	876.03	43.99	20.914		

Anticollision Report

Company:

Devon Energy

Project:

Eddy County, NM (NAD-83)

Reference Site:

Bora Bora 13-24

Site Error: Reference Well: 0.00 usft

Reference Well:

Bora Bora 13-24 Fed Com 215H

Well Error: Reference Wellbore

Reference Design:

0.00 usft OH Plan #1 Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well Bora Bora 13-24 Fed Com 215H

3507.0' GE + 23.5' KB @ 3530.50usft

3507.0' GE + 23.5' KB @ 3530.50usft

Grid

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

		TARREST TO	~											
urvey Prog Refer		EAM MWD+HD Offse		Semi Major	Avis	٠.,			Dista	Ince	•		Offset Well Error:	0.00 us
Refer leasured	ence Vertical	Measured	·Vertical	Reference	Offset	Highside	Offset Wellbor	o Contro	Between	Between	Minimum	Separation	141	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S . (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Warning	,
														
10,100.00 10,200.00	10,066.05 10,136.55	10,148.99 10,247.94	10,061.98 10,132.45	22.05 22.22	25.36 25.54	-89.59 -89.66	-85.16 -154.44	850.74 851.12	920.01 920.01	875.76 875.32	44.26 44.69	20.789 20.586		
10,300.00	10,136.55	10,247.94	10,132.43	22.22	25.76	-89.73	-134.44	851.56	920.01	874.76	45.25	20.332		
10,400.00		10,446.43	10,190.07	22.40	26.03	-89.81	-324.41	852.05	920.00	874.03	45.23	20.014		
10,482.85		10,528.91	10,256.54	23.19	26.32	-89.88	-403.40	852.48	920.00	873.30	46.71	19.698		
10,500.00		10,546.01	10,259.97	23.26	26.39	-89.90	-420.15	852.57	920.00	873.14	46.86	19.632		
·														
10,600.00		10,645.85	10,269.95	23.79	26.84	-89.99	-519.36	853.11	920.00	872.08	47.92	19.197		
10,700.00		10,745.85	10,269.81	24.40	27.38	-90.00	-619.35	853.66	920.01	870.84	49.17	18.712		
10,800.00		10;845.85	10,269.61	25.10	28.01	-90.01	-719.35	854.21	920.01	869.43	50.58	18.189		
10,900.00		10,945.85	10,269.41	25.89	28.73	-90.01	-819.35	854.75	920.01	867.85	52.16	17.637		
11,000.00	10,268.79	11,045.85	10,269.21	26.76	29.52	-90.02	-919.35	855.30	920.02	866.12	53.90	17.069		
11,100.00	10,268.48	11,145.85	10,269.00	27.69	30.38	-90.03	-1,019.35	855.85	920.02	864.24	55.78	16.495		
11,200.00		11,245.84	10,268.80	28.69	31.31	-90.03	-1,119.34	856.39	920.02	862.25	57.78	15.924		
11,300.00		11,345.84	10,268.60	29.75	32.29	-90.04	-1,219.34	856.94	920.03	860.14	59.89	15.362		
11,400.00		11,445.84	10,268.40	30.86	33.33	-90.04	-1,319.34	857.49	920.03	857.92	62.10	14.814		
11,500.00		11,545.84	10,268.20	32.01	34.41	-90.05	-1,419.34	858.03	920.03	855.62	64,41	14.284		
11,600.00	10,266.97	11,645.84	10,267.99	33.20	35.54	-90.06	-1,519.34	858.58	920.03	853.24	66.80	13.774		
11,700.00	10,266.67	11,745.84	10,267.79	34.44	36.70	-90.06	-1,619.34	859.13	920.04	850.78	69.26	13.285		
11,800.00	10,266.37	11,845.84	10,267.59	35.70	37.90	-90.07	-1,719.33	859.67	920.04	848.26	71.78	12.817		
11,900.00	10,266.06	11,945.84	10,267.39	36.99	39.13	-90.08	-1,819.33	860.22	920.04	845.68	74.37	12.372		
12,000.00	10,265.76	12,045.84	10,267.19	38.31	40.40	-90.08	-1,919.33	860.77	920.05	843.04	77.00	11.948		
12,100.00	10,265.46	12,145.84	10,266.99	39.66	41.68	-90.09	-2,019.33	861.31	920.05	840.36	79.69	11.546		
12,200.00	10,265.16	12,245.84	10,266.78	41.02	43.00	-90.10	-2,119.33	861.86	920.05	837.64	82.42	11.164		
12,300.00	10,264.85	12,345.84	10,266.58	42.40	44.33	-90.10	-2,219.33	862.41	920.06	834.87	85.18	10.801		
12,400.00		12,445.84	10,266.38	43.81	45.68	-90.11	-2,319.32	862.95	920.06	832.07	87.98	10.457		
12,500.00	10,264.25	12,545.84	10,266.18	45.22	47.05	-90.11	-2,419.32	863.50	920.06	829.24	90.82	10.131		
12,600.00	10,263.94	12,645.84	10,265.98	46.66	48.44	-90.12	-2,519.32	864.05	920.07	826.38	93.68	9.821		
12,700.00	10,263.64	12,745.84	10,265.77	48.10	49.85	-90.13	-2,619.32	864.59	920.07	823.50	96.57	9.527		
12,800.00	10,263.34	12,845.84	10,265.57	49.56	51.26	-90.13	-2,719.32	865.14	920.07	820.59	99.48	9.248		
12,900.00		12,945.84	10,265.37	51.03	52.69	-90.14	-2,819.31	865.69	920.08	817.66	102.42	8.983		
13,000.00	10,262.73	13,045.84	10,265.17	52.51	54.14	-90.15	-2,919.31	866.23	920.08	814.70	105.38	8.731		
13,100.00	10,262.43	13,145.84	10,264.97	54.00	55.59	-90.15	-3,019.31	866.78	920.08	811.73	108.35	8.492		
13,200.00		13,245.84	10,264.76	55.49	57.05	-90.16	-3,119.31	867.33	920.08	808.74	111.34	8.264		
13,300.00		13,345.84	10,264.56	57.00	58.53	-90.16	-3,219.31	867.87	920.09	805.74	114.35	8.046		
13,400.00		13,445.84	10,264.36	58.51	60.01	-90.17	-3,319.31	868.42	920.09	802.72	117.37	7.839		
13,500.00	10,261.22	13,545.84	10,264.16	60.03	61.50	-90.18	-3,419.30	868.97	920.09	799.69	120.41	7.642		
13,600.00	10,260.92	13,645.84	10,263.96	61.55	62.99	-90.18	-3,519.30	869.51	920.10	796.64	123.45	7.453		
13,700.00		13,745.84	10,263.75	63.08	64.50	-90.19	-3,619.30	870.06	920.10	793.59	126.51	7.273		
	10,260.31	13,845.84	10,263.55	64.62	66.01	-90.20	-3,719.30	870.61	920.10	790.52	129.58	7.100		
13,900.00		13,945.84	10,263.35	66.16	67.52	-90.20	-3,819.30	871.16	920.11	787.44	132.66	6.936		
	10,259.71	14,045.84	10,263.15	67.71	69.05	-90.21	-3,919.30	871.70	920.11	784.36	135.75	6.778		
14,100.00	10,259.40	14,145.84	10,262.95	69.26	70.57	-90.21	-4,019.29	872.25	920.11	781.26	138.85	6.627		
14,200.00	10,259.10	14,245.84	10,262.74	70.81	72.10	-90.22	-4,119.29	872.80	920.12	778.16	141.96	6.482		
14,300.00	10,258.80	14,345.84	10,262.54	72.37	73.64	-90.23	-4,219.29	873.34	920.12	775.05	145.07	6.343		
14,400.00	10,258.50	14,445.84	10,262.34	73.93	75.18	-90.23	-4,319.29	873.89	920.12	771.93	148.19	6.209		
14,500.00	10,258.19	14,545.84	10,262.14	75.49	76.73	-90.24	-4,419.29	874.44	920.13	768.81	151.32	6.081		
14,600.00	10,257.89	14,645.84	10,261.94	77.06	78.28	-90.25	-4,519.28	874.98	920.13	765.68	154.45	5.957		
14,700.00		14,745.84	10,261.73	78.63	79.83	-90.25	-4,619.28	875.53	920.13	762.54	157.59	5.839		
14,800.00	10,257.29	14,845.84	10,261.53	80.21	81.38	-90.26	-4,719.28	876.08	920.14	759.40	160.74	5.724		
14,900.00	10,256.98	14,945.84	10,261.33	81.78	82.94	-90.26	-4,819.28	876.62	920.14	756.25	163.89	5.614		
15,000.00	10,256.68	15,045.84	10,261.13	83.36	84.51	-90.27	-4,919.28	877.17	920.14	753.10	167.05	5.508		
	10,256.38	15,145.84	10,260.93	84.94	86.07	-90.28	-5,019.28	877.72	920.15	749.94	170.21	5.406		

Anticollision Report

Company:

Devon Energy

Project:

Eddy County, NM (NAD-83)

Reference Site:

Bora Bora 13-24

Site Error: Reference Well: 0.00 usft

Well Error:

Bora Bora 13-24 Fed Com 215H

Well Error: Reference Wellbore Reference Design: 0.00 usft OH Plan #1 Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method:

Output errors are at

Database:
Offset TVD Reference:

Well Bora Bora 13-24 Fed Com 215H

3507.0' GE + 23.5' KB @ 3530.50usft

3507.0' GE + 23.5' KB @ 3530.50usft

Grid

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

Survey Prog	ıram: 0-LE	EAM MWD+HC	IGM .		- 1 Ca					1.00	St. 6	* **	Offset Well Error:	0.00 us
Refer		Offs		Semi Major	Axis				Dista	nce			Oliset Well Ellor.	0.00 00
leasured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbor	e Centre +E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	. · (°)	(usft)	(usft)	(usft)	(usft)	(usft)			
15,200.00	10,256.08	15,245.84	10,260.72	86.52	87.64	-90.28	-5,119.27	878.26	920.15	746.78	173.37	5.307		
15,300.00	10,255.77	15,345.84	10,260.52	88.11	89.21	-90.29	-5,219.27	878.81	920.16	743.62	176.54	5.212		
15,400.00	10,255.47	15,445.84	10,260.32	89.70	90.78	-90.30	-5,319.27	879.36	920.16	740.45	179.71	5.120		
15,500.00	10,255.17	15,545.84	10,260.12	91.28	92.36	-90.30	-5,419.27	879.90	920.16	737.27	182.89	5.031		
15,600.00		15,645.84	10,259.92	92.88	93.94	-90.31	-5,519.27	880.45	920.17	734.10	186.07	4.945		
15,700.00	10,254.56	15,745.84	10,259.72	94.47	95.51	-90.31	-5,619.27	881.00	920.17	730.92	189.25	4.862		
15,800.00	10,254.26	15,845.84	10,259.51	96.06	97.10	-90.32	-5,719.26	881.54	920.17	727.74	192.44	4.782		
15,900.00		15,945.84	10,259.31	97.66	98.68	-90.33	-5,819.26	882.09	920.18	724.55	195.63	4.704		
16,000.00		16,045.84	10,259.11	99.25	100.26	-90.33	-5,919.26	882.64	920.18	721.36	198.82	4.628		
16,100.00		16,145.84	10,258.91	100.85	101.85	-90.34	-6,019.26	883.18	920.18	718.17	202.01	4.555		
16,200.00	10,253.05	16,245.84	10,258.71	102.45	103.44	-90.35	-6,119.26	883.73	920.19	714.97	205.21	4.484		
			-			•			•					
16,300.00		16,345.84	10,258.50	104.05	105.03	-90.35	-6,219.26	884.28	920.19	711.78	208.41	4.415		
16,400.00		16,445.84	10,258.30	105.65	106.62	-90.36	-6,319.25	884.82	920.19	708.58	211.62	4.348		
16,500.00		16,545.84	10,258.10	107.26	108.21	-90.36	-6,419.25 6,510.25	885.37	920.20	705.38	214.82	4.284		
16,600.00 16,700.00		16,645.84 16,745.84	10,257.90 10,257.70	108.86 110.47	109.81 111.40	-90.37 -90.38	-6,519.25 -6,619.25	885.92 886.46	920.20 920.20	702.17 698.97	218.03 221.24	4.221 4.159		
10,700.00	10,201.04	10,740.04	10,237.70	110.47	111.40	-30.30	-0,019.25	000.46	3 20.20	090.97	221.24	4.159		
16,800.00	10,251.23	16,845.84	10,257.49	112.07	113.00	-90.38	-6,719.25	887.01	920.21	695.76	224.45	4.100		
16,900.00	10,250.93	16,945.84	10,257.29	113.68	114.60	-90.39	-6,819.24	887.56	920.21	692.55	227.66	4.042		
17,000.00	10,250.63	17,045.84	10,257.09	115.29	116.20	-90.40	-6,919.24	888.10	920.22	689.34	230.88	3.986		
17,100.00	10,250.33	17,145.84	10,256.89	116.90	117.80	-90.40	-7,019.24	888.65	920.22	686.13	234.09	3.931		
17,200.00	10,250.02	17,245.84	10,256.69	118.51	119.40	-90.41	-7,119.24	889.20	920.22	682.91	237.31	3.878		
17,300.00	10,249.72	17,345.84	10,256.48	120.12	121.00	-90.41	-7,219.24	889.75	920.23	679.69	240.53	3.826		
17,400.00		17,345.84	10,256.28	121.73	122.61	-90.41	-7,319.24	890.29	920.23	676.48	240.33	3.775		
17,500.00		17,545.84	10,256.08	123.34	124.21	-90.43	-7,419.23	890.84	920.23	673.26	246.98	3.726		
17,600.00		17,645.84	10,255.88	124.95	125.82	-90.43	-7,519.23	891.39	920.24	670.04	250.20	3.678		
17,700.00		17,745.84	10,255.68	126.57	127.42	-90.44	-7,619.23	891.93	920.24	666.81	253.43	3.631		
17,800.00		17,845.84	10,255.47	128.18	129.03	-90.45	-7,719.23	892.48	920.25	663.59	256.66	3.586		
17,900.00		17,945.84	10,255.27	129.80	130.64	-90.45	-7,819.23	893.03	920.25	660.37	259.88	3.541		
18,000.00		18,045.84	10,255.07	131.41	132.25	-90.46	-7,919.23	893.57	920.25	657.14	263.11	3,498		
18,100.00		18,145.84	10,254.87	133.03	133.86	-90.47	-8,019.22	894.12	920.26	653.91	266.34	3.455		
18,200.00	10,247.00	18,245.84	10,254.67	134.64	135.47	-90.47	-8,119.22	894.67	920.26	650.68	269.58	3.414		
18,300.00	10,246.69	18,345.84	10,254.46	136.26	137.08	-90.48	-8,219.22	895.21	920.26	647.45	272.81	3.373		
18,400.00		18,445.84	10,254.26	137.88	138.69	-90.48	-8,319.22	895.76	920.27	644.22	276.04	3.334		
18,500.00	10,246.09	18,545.84	10,254.06	139.50	140.30	-90.49	-8,419.22	896.31	920.27	640.99	279.28	3.295		
18,600.00	10,245.79	18,645.84	10,253.86	141.12	141.91	-90.50	-8,519.21	896.85	920.28	637.76	282.52	3.257		
18,700.00	10,245.48	18,745.84	10,253.66	142.73	143.53	-90.50	-8,619.21	897.40	920.28	634.53	285.75	3.221		
10 000 00	10.245.40	1004504	10.252.45	444.05	145 17	00.54	9.740.04	207.05	000.00	624.20	200.00	2 404		
18,800.00 18,900.00		18,845.84 18,945.84	10,253.45 10,253.25	144.35 145.97	145.14 146.76	-90.51 -90.52	-8,719.21 -8,819.21	897.95 898.49	920.28 920.29	631.29 628.06	288.99 292.23	3.184 3.149		
19,000.00		18,945.84		145.97	148.37	-90.52 -90.52	-8,819.21 -8,919.21	898.49	920.29	624.82	292.23	3.149		
19,100.00		19,045.84	10,253.05	147.59	149.99	-90.52 -90.53	-9,019.21	899.59	920.29	621.58		3.115		
	10,244.27		10,252.65	150.84	151.60	-90.53	-9,119.20	900.13	920.30	618.35	301.95	3.048		
. 5,250.50	,	. 0,2 10.07	,			30.00	2,	3000	325.50	3.0.00	5050	0.0.0		
19,300.00	10,243.67	19,345.84	10,252.45	152.46	153.22	-90.54	-9,219.20	900.68	920.30	615.11	305.20	3.015		
19,400.00	10,243.36	19,445.84	10,252.24	154.08	154.84	-90.55	-9,319.20	901.23	920.31	611.87	308.44	2.984		
19,500.00	10,243.06	19,545.84	10,252.04	155.70	156.45	-90.55	-9,419.20	901.77	920.31	608.63	311.68	2.953		
19,600.00		19,645.84	10,251.84	157.33	158.07	-90.56	-9,519.20	902.32	920.31	605.39	314.93	2.922		
19,700.00	10,242.46	19,745.84	10,251.64	158.95	159.69	-90.57	-9,619.20	902.87	920.32	602.15	318.17	2.893		
40.000.00	40.040.45	40.045.01	40.054.41	400 5-	401.01	00.57	0.710.15	000 11	000.00	roo c-	004 15	2 222		
19,800.00		19,845.84	10,251.44	160.57	161.31	-90.57	-9,719.19	903.41	920.32	598.90	321.42	2.863		
19,900.00		19,945.84	10,251.23	162.20	162.93	-90.58	-9,819.19	903.96	920.33	595.66	324.66	2.835		
20,000.00		20,045.84	10,251.03	163.82	164.55	-90.58	-9,919.19	904.51	920.33	592.42		2.807		
20,100.00		20,145.84	10,250.83	165.44	166.17	-90.59	-10,019.19	905.05	920.33	589.17	331.16	2.779		
20,200.00	10,240.94	20,245.84	10,250.63	167.07	167.79	-90.60	-10,119.19	905.60	920.34	585.93	334.41	2.752		
20,300.00	10,240.64	20,345.84	10,250.43	168.69	169.41	-90.60	-10,219,19	906.15	920.34	582.69	337.66	2.726		

Anticollision Report

Company:

Devon Energy

Project:

Eddy County, NM (NAD-83)

Reference Site:

Bora Bora 13-24

Site Error: Reference Well: 0.00 usft

Plan #1

Bora Bora 13-24 Fed Com 215H

Well Error: Reference Wellbore

Reference Design:

0.00 usft ОН

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at

Database:

Offset TVD Reference:

Well Bora Bora 13-24 Fed Com 215H

3507.0' GE + 23.5' KB @ 3530.50usft

3507.0' GE + 23.5' KB @ 3530.50usft

Grid

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

Offset Des	sign	Bora Bo	ra 13-24 -	 Bora Bora 	13-24 Fe	ed Com 216H	l - OH - Plan i	# 1		<u> </u>			Offset Site Error:	0.00 us
Survey Progr Refere		AM MWD+HD		Semi Major	Axis				Dista	псе			Offset Well Error:	0. <u>0</u> 0 us
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
20,400.00	10,240.34	20,445.84	10,250.22	170.32	171.03	-90.61	-10,319.18	906.70	920.35	579.44	340.91	2.700		
20,500.00	10,240.03	20,545.84	10,250.02	171.95	172.65	-90.62	-10,419.18	907.24	920.35	576.19	344.16	2.674		
20,500.67	10,240.03	20,546.51	10,250.02	171.96	172.66	-90.62	-10,419.85	907.25	920.35	576.17	344.18	2.674		
20,511.39	10,240.00	20,556.49	10,250.00	172.13	172.82	-90.62	-10,429.83	907.30	920.35	575.83	344.52	2.671		

Anticollision Report

Company:

Devon Energy

Project:

Eddy County, NM (NAD-83) Bora Bora 13-24

Reference Site:

Site Error: Reference Well: Bora Bora 13-24 Fed Com 215H ...

Well Error: Reference Wellbore Reference Design:

0.00 usft

OH Plan #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Output errors are at

Database:

Offset TVD Reference:

Well Bora Bora 13-24 Fed Com 215H

3507.0"GE + 23.5" KB @ 3530.50usft 3507.0' GE + 23.5' KB @ 3530.50usft

COMPASS 5000.1 Build 80

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

Offset Datum

Reference Depths are relative to 3507.0' GE + 23.5' KB @ 3530.50usft

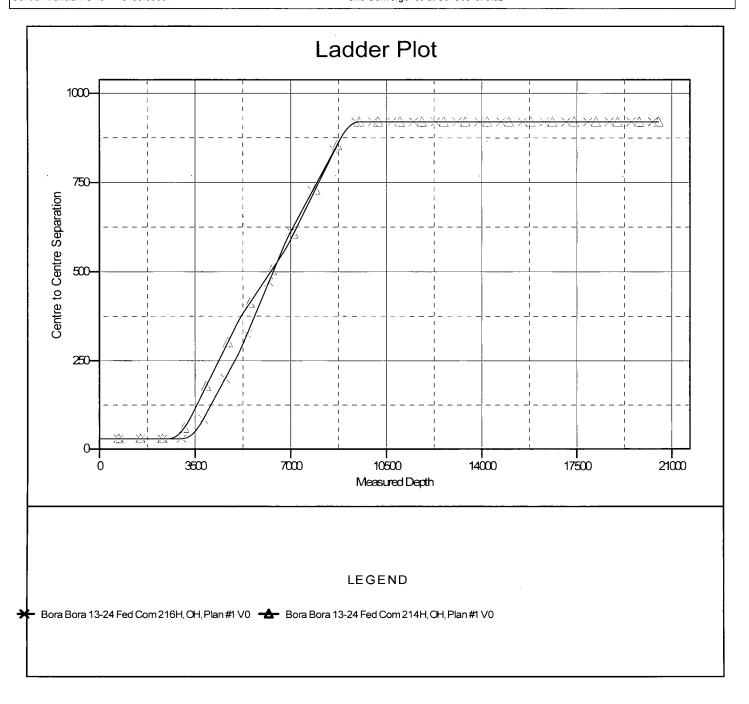
Offset Depths are relative to Offset Datum

Central Meridian is 104° 19' 60.0000 W

Coordinates are relative to: Bora Bora 13-24 Fed Com 215H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.32°



Anticollision Report

Company:

Devon Energy

Project:

Reference Site:

Eddy County, NM: (NAD-83) Bora Bora 13-24

Site Error:

Reference Well:

0.00 usft Bora Bora 13-24 Fed Com 215H

Plan #1

Well Error:

Reference Design:

0.00 usft Reference Wellbore ОН

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well Bora Bora 13-24 Fed Com 215H

3507.0' GE + 23.5' KB @ 3530.50usft

3507.0' GE + 23.5' KB @ 3530.50usft

COMPASS 5000.1 Build 80

Grid

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

Offset Datum

Reference Depths are relative to 3507.0' GE + 23.5' KB @ 3530.50usft

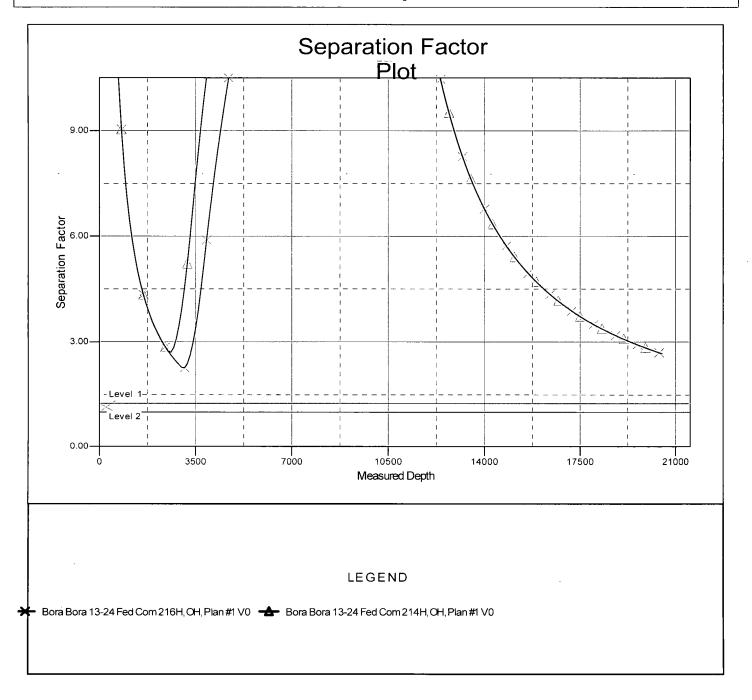
Offset Depths are relative to Offset Datum

Central Meridian is 104° 19' 60.0000 W

Coordinates are relative to: Bora Bora 13-24 Fed Com 215H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.32°



Devon Energy - Bora Bora 13-24 Fed Com 215H

1. Geologic Formations

TVD of target	10240	Pilot hole depth	N/A
MD at TD:	20511	Deepest expected fresh water:	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Rustler	825		
Salado	1200		
Base of Salt	4500		
Delaware	4530		
L Brushy Canyon	8110		
Bone Spring	8440		
Leonard 'A'	8540		
Leonard 'B'	9050		
Leonard 'C'	9260		
1st BSPG Sand	9475		
2nd BSPG Sand	10070		
Landing Point	10270		
EOL	10240		
	·		,
<u></u>			

^{*}H2S, water flows, loss of circulation, abnormal pressures, etc.

Devon Energy - Bora Bora 13-24 Fed Com 215H

2. Casing Program

Hole Size	Casing	Interval	Csg. Size	Weight	Grade	Conn.
Hole Size	From	То	Csg. Size	(PPF)	Grade	Conn.
17.5"	0	850	13.375"	48	H-40	STC
12.25"	0	6000	9.625"	40	J-55	BTC
8.75"	0	TD	5.5"	17	P-110	BTC
Е	BLM Minimu	m Safety Fa	ctor	Collapse:	Burst: 1.00	Tension: 1.6 Dry 1.8 Wet

- All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h Must have table for contingency casing
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.
- Variance is requested for collapse rating on intermediate casing. Operator will keep pipe full while running casing. No losses are expected in subsequent hole section.
- Int casing shoe will be selected based on drilling data, gamma, and flows experienced while drilling. Setting depth with be revised accordingly if needed.
- A variance is requested to wave the centralizer requirement for the intermediate and production casing strings if drilling conditions dictate

Devon Energy – Bora Bora 13-24 Fed Com 215H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
	•
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
	6
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Devon Energy - Bora Bora 13-24 Fed Com 215H

3. Cementing Program (3-String Primary Design)

Casing	# Sks	тос	Wt. (lb/gal)	H ₂ 0 (gal/sk)	Yld (ft3/sack)	Slurry Description
Surface	887	Surf	13.2	6.33	1.33	Lead: Class C Cement + additives
Int	1091	Surf	9	20.6	1.94	Lead: Class C Cement + additives
	196	500' above shoe	13.2	6.42	1.33	Tail: Class H / C + additives
Production	328	500' tieback	9	20.6	1.94	Lead: Class H / C + additives
	2058	КОР	13.2	5.31	1.6	Tail: Class H / C + additives

If a DV tool is ran the depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Slurry weights will be adjusted based on estimated fracture gradient of the formation. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. If cement is not returned to surface during the primary cement job on the surface casing string, a planned top job will be conducted immediately after completion of the primary job.

Casing String	% Excess
Surface	100%
Intermediate	50%
Production	10%

Devon Energy – Bora Bora 13-24 Fed Com 215H

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Т	ype	/	Tested to:												
				nular	X	50% of rated working pressure												
Int 1	13-5/8"	3M	Blin	d Ram	X													
1111 1	13-3/8	3.1VI	Pipe	e Ram		3M												
	,		Doub	le Ram	X	3101												
			Other*															
	13-5/8"	5M	Annular		X	50% of rated working pressure												
															Blin	d Ram	X	
Production			Pipe Ram															
			Double Ram		X	5M												
			Other *															
	-		An	nular														
			Blin	d Ram														
			Pipe	e Ram														
			Double Ram															
			Other *															

Devon Energy - Bora Bora 13-24 Fed Com 215H

5. Mud Program

6. 1	Depth		Weight	T 72.0	Water I can
From	To	Type	(ppg)	Vis	Water Loss
0	850	FW	8.5 - 9.0	28-34	N/C
850	6000	Brine	10 - 10.5	28-34	N/C
6000	TD	WBM	8.5 – 9.0	28-34	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to provide the last of the 149	DVT/D/V'1 M
What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

6. Logging and Testing Procedures

Logg	ing, Coring and Testing.
X	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs
	run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Addi	tional logs planned	Interval
	Resistivity	
	Density	
X	CBL	Production casing
X	Mud log	KOP to TD

7. Drilling Conditions

Condition	Specify what type and where?	
BH Pressure at deepest TVD	4792psi	
Abnormal Temperature	No	

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N	H2S is present
Y	H2S Plan attached

Devon Energy - Bora Bora 13-24 Fed Com 215H

8. Other facets of operation

Is this a walking operation? Potentially

- 1. If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2. The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3. The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

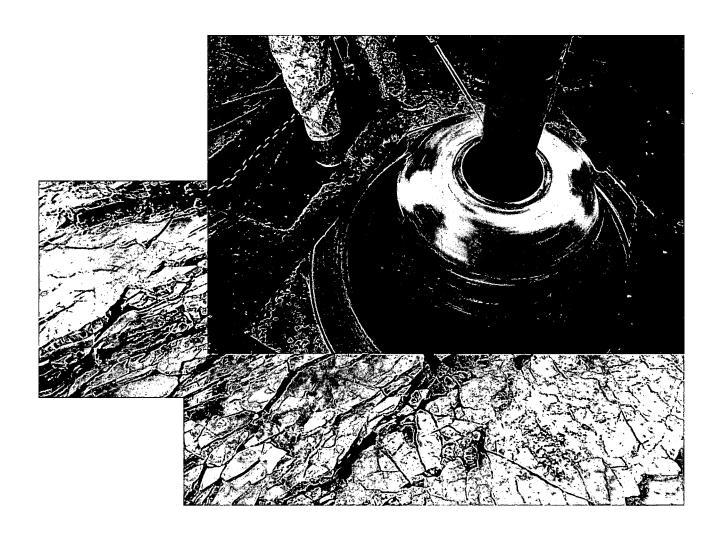
Will be pre-setting casing? Potentially

- 1. Spudder rig will move in and drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.
- 2. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
- 3. The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4. A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5. Spudder rig operations is expected to take 4-5 days per well on a multi well pad.
- 6. The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7. Drilling operations will be performed with the drilling rig. At that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Atta	achments
<u>x</u>	Directional Plan
	Other, describe



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.

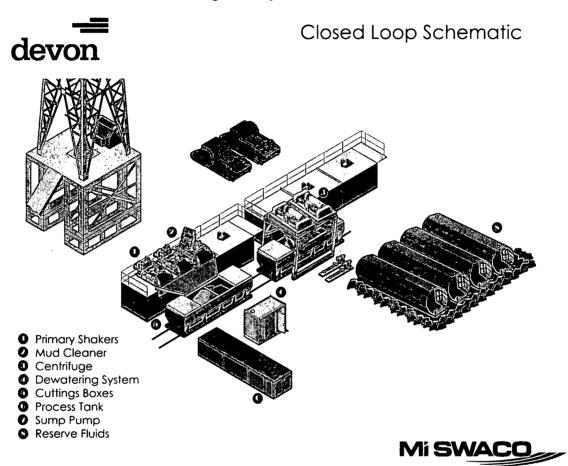
Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

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.

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 5000 (5M) psi.

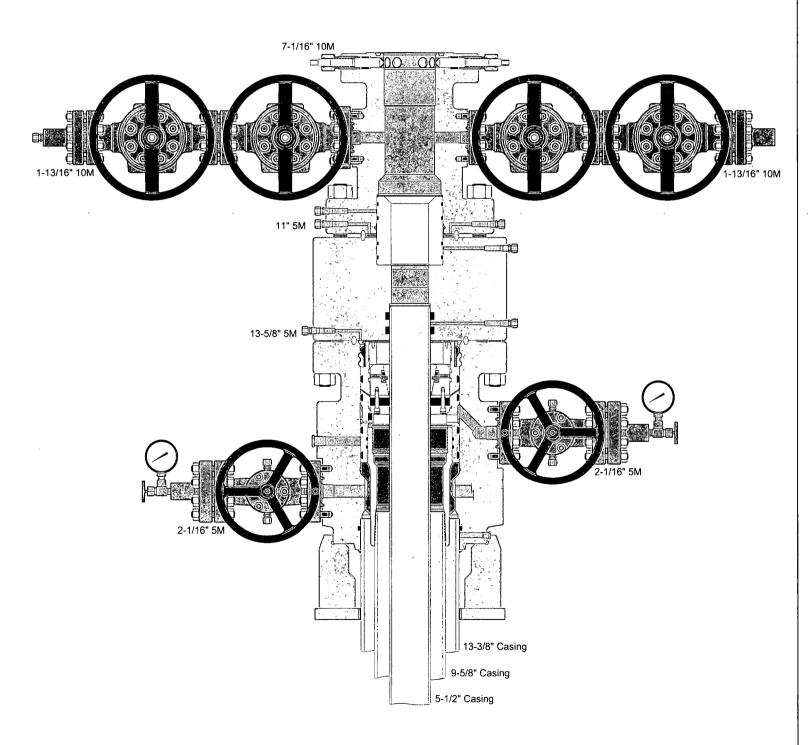
- Wellhead will be installed by wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial 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 5M, 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 surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 5M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 5,000 psi high pressure test. The 5,000 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 intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 5M 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 5,000 psi WP.

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



Devon Energy APD VARIANCE DATA

OPERATOR NAME: Devon Energy

1. SUMMARY OF Variance:

Devon Energy respectfully requests approval for the following additions to the drilling plan:

1. Potential utilization of a spudder rig to pre-set surface casing.

2. Description of Operations

- 1. A spudder rig contractor may move in their rig to drill the surface hole section and pre-set surface casing on this well.
 - **a.** After drilling the surface hole section, the rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - **b.** Rig will utilize fresh water based mud to drill surface hole to TD.
- 2. The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 3. A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wingvalves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
- **4.** The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 5. Drilling operation will be performed with the big rig. At that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
 - **a.** The BLM will be contacted / notified 24 hours before the big rig moves back on to the pad with the pre-set surface casing.
- **6.** Devon Energy will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
- 7. Once the rig is removed, Devon Energy will secure the wellhead area by placing a guard rail around the cellar area.

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 5000 (5M) psi.

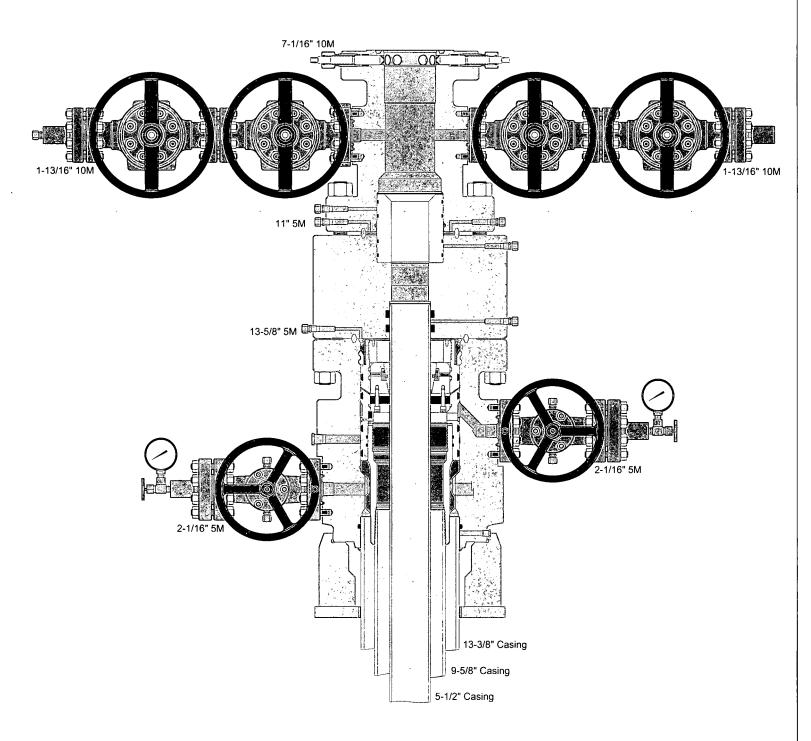
- Wellhead will be installed by wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial 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 5M, 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 5M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 5,000 psi high pressure test. The 5,000 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 5M 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 5,000 psi WP.

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





Fluid Technology

ContiTech Beattle Corp. Website: www.contitechbeattle.com

Monday, June 14, 2010

RE:

Drilling & Production Hoses Lifting & Safety Equipment

To Helmerich & Payne,

A Continental ContiTech hose 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 Beattle Corp

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



R16212

PHOENIX

QUALITY DOCUMENT

PHOENIX RUBBER INDUSTRIAL LTD.

6728 Szeged, Budapesti út 10. Hungary • H-6701 Szeged, P. O. Box 152 none: (3662) 566-737 • Fax: (3662) 566-738 SALES & MARKETING: H-1092 Budapest, Råday 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		\TE	CERT. N	10:	552	
PURCHASER:	Phoenix Beat	tie Co.		P.O. N°	1519F	A-871	
PHOENIX RUBBER order No.	170466	HOSE TYPE:	3" (D	Cho	oke and Kill I	Hose	
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Pressure test with water at ambient temperature ↑ 10 mm = 10 Min. → 10 mm = 25 MPa		achment. (1	page)				The Contraction of the Contracti
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All metal parts are flawless WE CERTIFY THAT THE ABOVE	HOSE HAS BEEN	I MANUFACTURE	API Spec 1 Temperatur	re rate:"		F THE ORDER	R AND
PRESSURE TESTED AS ABOVE Date: 29. April. 2002.	Inspector	UKY RESULT.	Quality Cont	HOE	ENIX RUBE dustrial Ltd. Inspection a		~

> VERIFIED TRUE CO. PHOENIX RUBBER C.C.



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

Submission Date: 11/26/2018

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

recent changes

Highlighted data reflects the most

Well Name: BORA BORA 13-24 FED COM

Well Number: 215H

Show Final Text

Well Type: OIL WELL

APD ID: 10400036684

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

BORA_BORA_13_24_FED_COM_215H_EX_RD_20181126140346.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

OneMileBuffer_WA017459410_20181126140400.pdf

Well Name: BORA BORA 13-24 FED COM Well Number: 215H

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

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:

WATER_MAP_215_20181126140427.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:

Aguifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

Well Name: BORA BORA 13-24 FED COM Well Number: 215H

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

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

Construction Materials source location attachment:

Caliche_Map_215_20181126140451.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.

Well Name: BORA BORA 13-24 FED COM Well Number: 215H

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

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: 2084

barrels

Waste disposal frequency : Daily 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: 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

Well Name: BORA BORA 13-24 FED COM Well Number: 215H

Description of cuttings location

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. vd.)

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

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

RIGLAYOUT_20181126140525.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: TOMB RAIDER MDP 13 PAD

Multiple Well Pad Number: 3

Recontouring attachment:

Drainage/Erosion control construction: All areas disturbed shall be reclaimed as early and as nearly as practicable to their original condition or their final land use and shall be maintained to control dust and minimize erosion to the extent practicable. Drainage/Erosion control reclamation: Topsoils and subsoils 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. The disturbed area then shall be reseeded in the first favorable growing season.

Well pad proposed disturbance

(acres): 8.267

Well pad interim reclamation (acres): 4.929

Well pad long term disturbance

Road proposed disturbance (acres): 0 Road interim reclamation (acres):

(acres): 3.338 Road long term disturbance (acres):

Powerline proposed disturbance

1.006

1.006 Powerline interim reclamation (acres): Powerline long term disturbance

(acres): 0

Pipeline proposed disturbance

(acres): 0 Pipeline long term disturbance

(acres): 0

Pipeline interim reclamation (acres): 0.3694146

(acres): 0.3694146

Other proposed disturbance (acres): 0

Other interim reclamation (acres): 0

Other long term disturbance (acres): 0

Well Name: BORA BORA 13-24 FED COM Well Number: 215H

Total proposed disturbance: 8.267

Total interim reclamation: 6.3044147

Total long term disturbance:

4.7134147

Disturbance Comments:

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.

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:

Well Name: BORA BORA 13-24 FED COM Well Number: 215H

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary

Seed Type

Pounds/Acre

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: JACOB

Last Name: OCHOA

Total pounds/Acre:

Phone: (575)748-9934

Email: JACOB.OCHOA@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:

Well Name: BOHA BOHA 13-24 FED COM	Well Number: 215H
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: 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:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP					
Well Name: BORA BORA 13-24 FED COM	Well Number: 215H				
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:				
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:					
บรรร negion: USFS Forest/Grassland:	HCEC Donger Districts				
uoro ruresvarassiana:	USFS Ranger District:				

Well Name: BORA BORA 13-24 FED COM Well Number: 215H

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information: FLOWLINES -BURIED ELECTRIC LINES CTB

Use a previously conducted onsite? NO

Previous Onsite information:

Other SUPO Attachment

AA000145295_TOMB_RAIDER_12_1_CTB_1_PAD_P_R2_20181126133241.pdf
400774XYZ_FL_GL_TR_12_FED_213_516_TR_12_CTB_1_P_R1_20181126133236.pdf
ELEC_LN_TR_13_CTB1_TR_12_PAD_1_4_5_TR1_12_CTB_2_3_20181126133242.pdf
Pay.gov___Receipt_20181126145839.pdf
TOMB_RAIDER_12_1_FED_516H_FLOWLINES_BURIED_20190426131707.pdf

SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

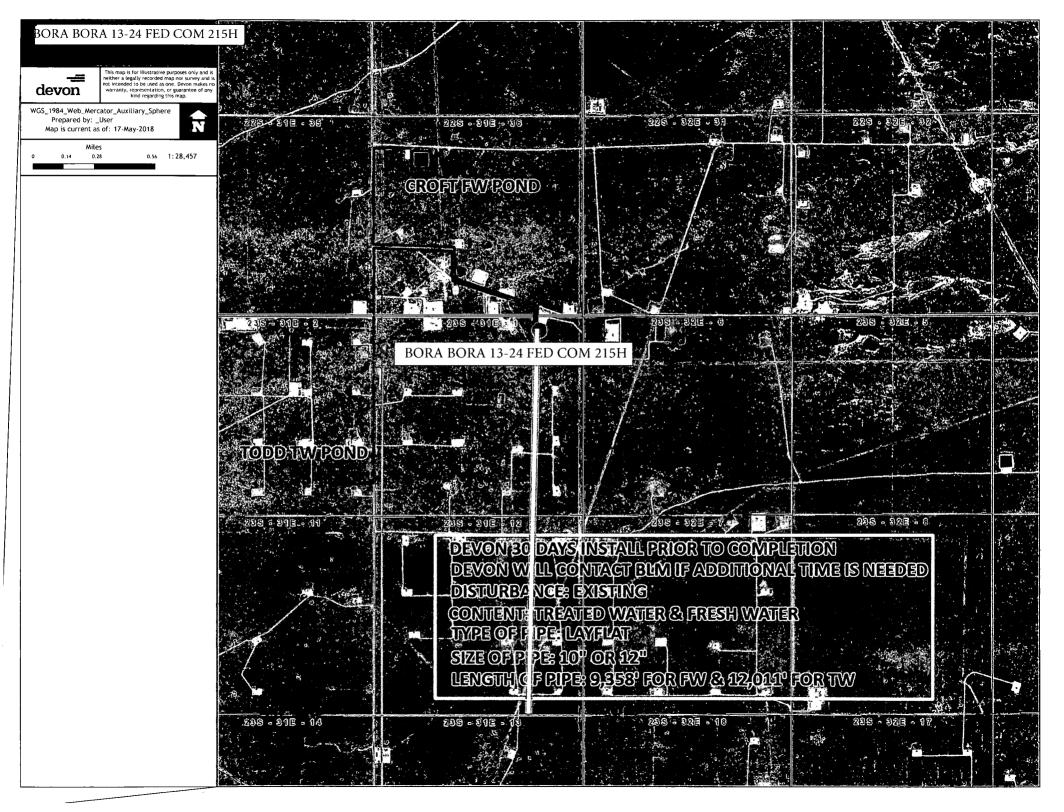


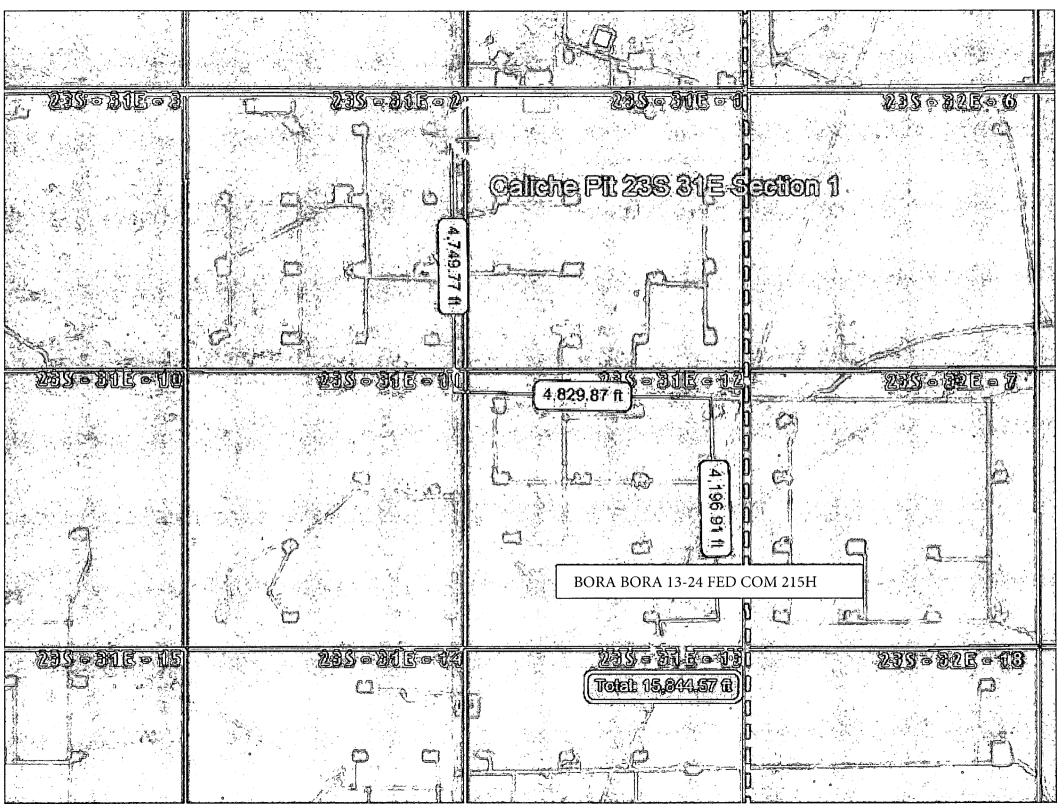
NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH NOVEMBER 2017 DEVON ENERGY PRODUCTION COMPANY, L.P. BORA BORA 13-24 FED COM 215H LOCATED 100 FT. FROM THE NORTH LINE AND 1180 FT. FROM THE EAST LINE OF SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO LAND STATUS: BLM

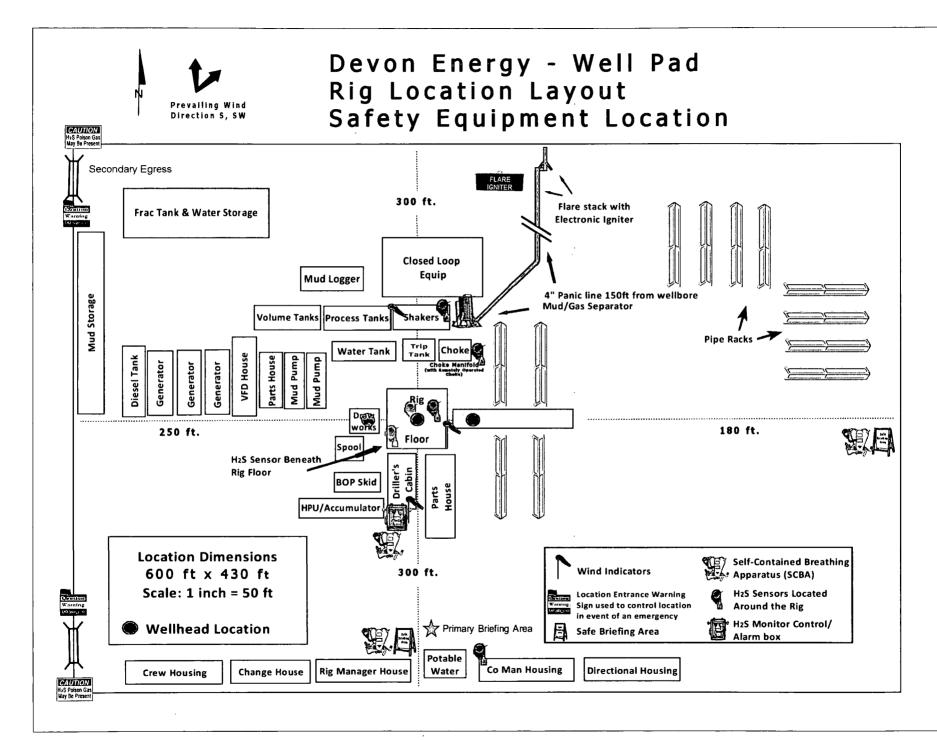
NOVEMBER 15, 2018

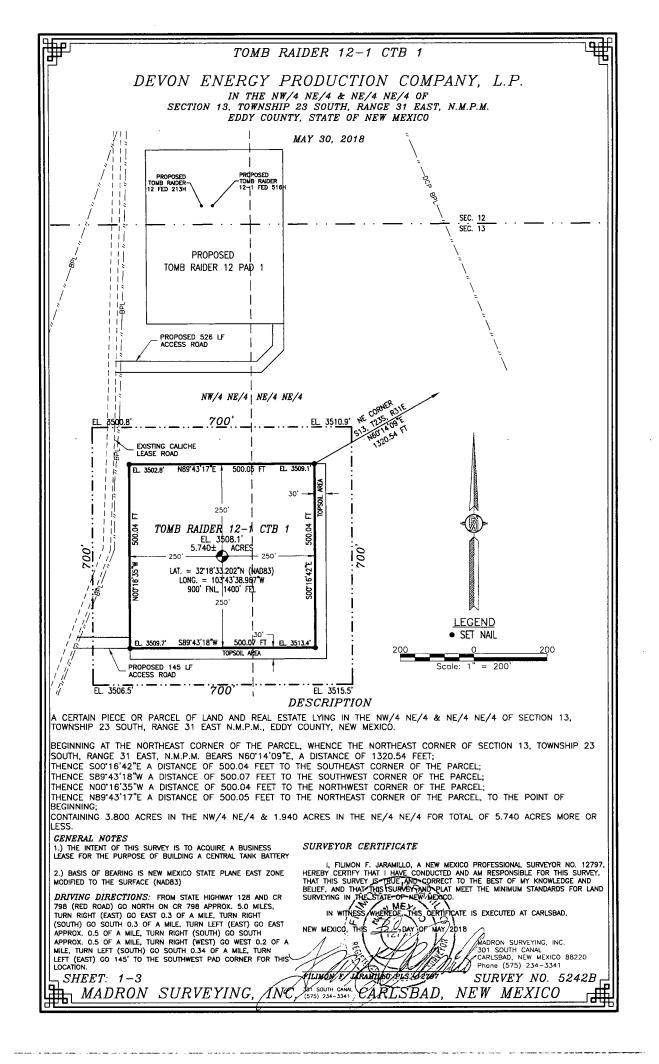
SURVEY NO. 6675A MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

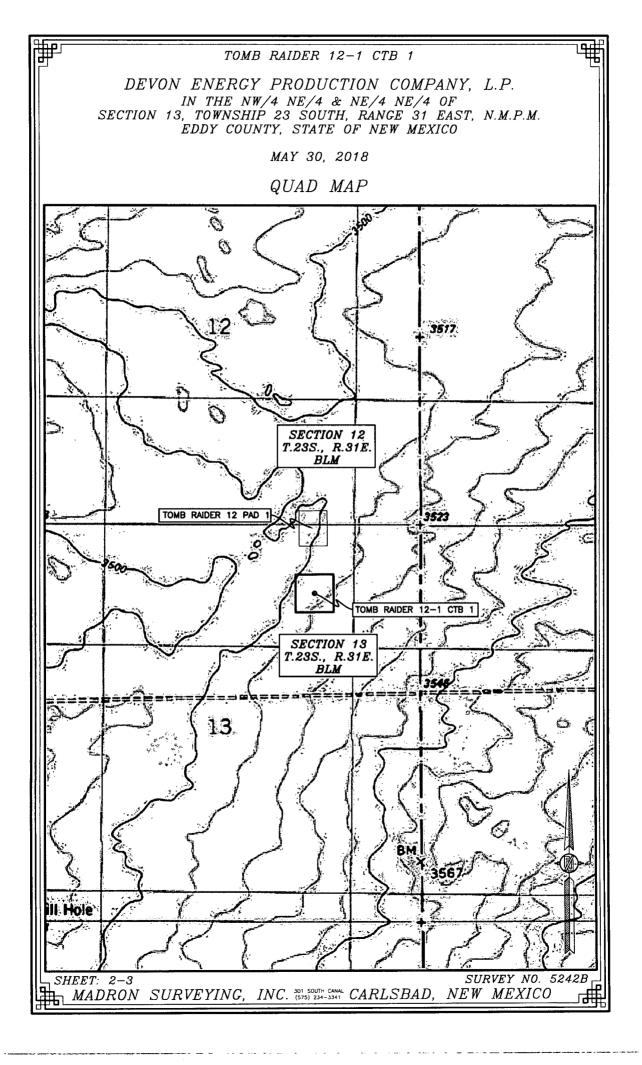
PLAT BORA BORA 13-24 FED COM 215H WA017459410 One Mile Radius Map This map is for illustrative purposes only and is neither a legally recorded map nor a surve and is not intended to be used as one. Devon makes no warranty, representation, or guarantee of any kind regarding this map. TOMB RAIDER 1-12 FED 334H devon Nearest wellbore to SHL: 274 ft. Unknown SHL USA Contiguous Equidistant Conic Active SHL Datum: North American 1983 ALDABRA 25 FED 7H Created by: FME Server Inactive SHL Map is current as of 11/26/2018 Nearest wellbore to BHL: 405 ft. BHL Miles 0.3 1 inch = 0.45 miles 23S -6 31E BARCLAY FEDERAL BARCLAY FED Y PEDERAL 19 SHARDRO FEDERAL 8 BARCLAY BARCLAY FEDERAL 5 FEDERAL 13 SHARBRO FEDERAL 6 11 BARCLAY BARCLAY FEDERAL 17 BARCLAY FEDERAL 4 SHARBRO FEDERAL 7 ARBRO FEDERAL 10 BAUERDORF-FED BLUE QUAIL • FEDERAL 2 QUAIL FEDERAL 1 ● BL TODD 13B FEDERAL 002 ● TODD 13B FED 2 SDE-18 FEDERAL 1 TODD TODD 13F TODD 14H FED 13G FED 21 3E FED 26 TODI TODD 13H FED 8 14 13 18 TODD 13 • TODD 1 FED 9 17 TODD 1: FED 15 23S TODD 13F FED 16 32E FEDERAL 2 FEDERAL '24 • TODD 24 19 FEDERAL 5 AMAX '24' FEDERAL 14 7 FEDERAL AMAX '24' 724' 1 FEDERAL 6 TODD 24 FED 8 AMAX '24' FEDER TODD 23H FED 6 23 24 FEDERAL '24' 2 TODD 23I FED AMAX '24' AMAX '24' FEDERAL 8 FEDERAL 9 TODD 23LEED TODD FED 9 20 AMÁX FEDERAL 13 • TODD 23F ED 8 AMAX '24' FEDERAL 10 FEDERAL 11 AMAX SDE 19 FEDERAL 3 SDE 19 FEDERA TRESNOR 1000 TODD 25C × 250 FED 3 FEDERAL 19 TODD 26A FES FED 1 TRESNOR TRESNOR MITCHELL MITCHELL 30 30 FED 3 FEDERAL 3 TODD 26A FE TODD 25F FED 6 ADS FEDERAL TODD /25/ FEDERAL 1 DD 25E FED 5 TODD /25/ FEDERAL 1-Y TODD 25G FED 7 TODD 26 25F FED 1Z 25 30" FEDERAL 2 MITCHELL 30 TODD 25J FED 10 • TODD 25J FED 9 TODD 25L 29 SNOR FEDERAL 1 TRESNO TODD '25N' FEDER 25 FED 6H 25 FED 35











TOMB RAIDER 12-1 CTB 1

DEVON ENERGY PRODUCTION COMPANY, L.P.

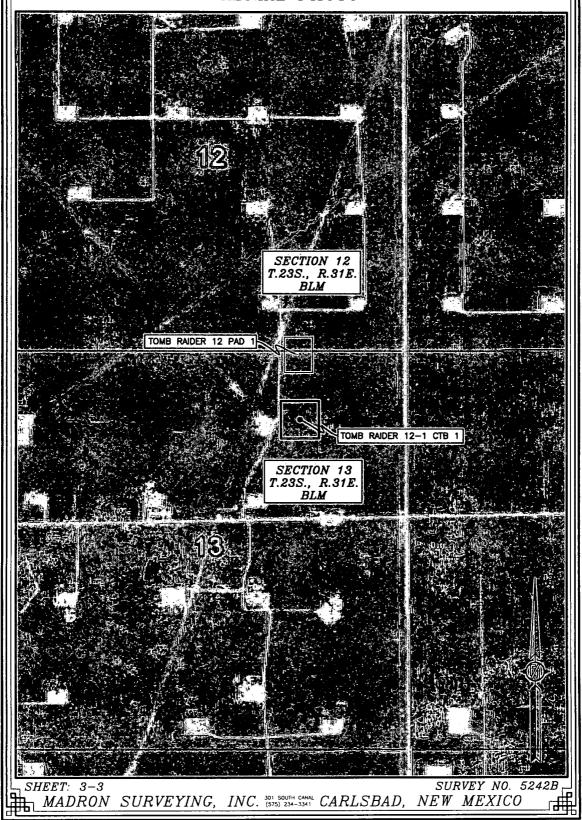
IN THE NW/4 NE/4 & NE/4 NE/4 OF

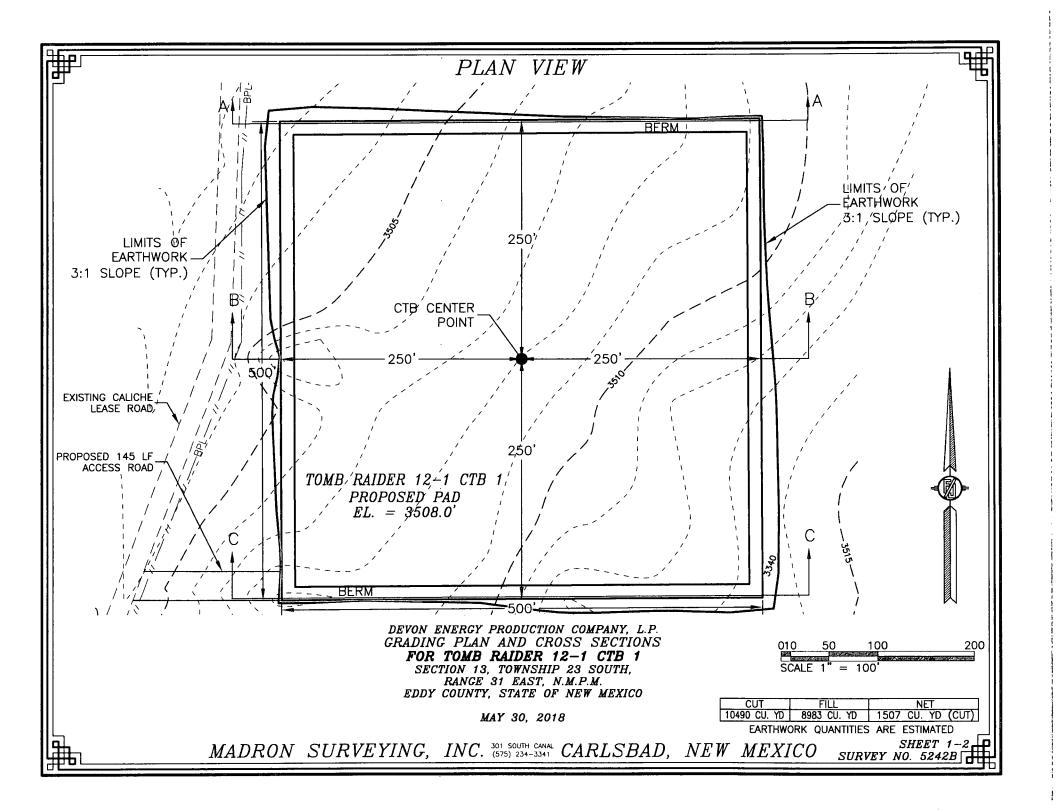
SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.

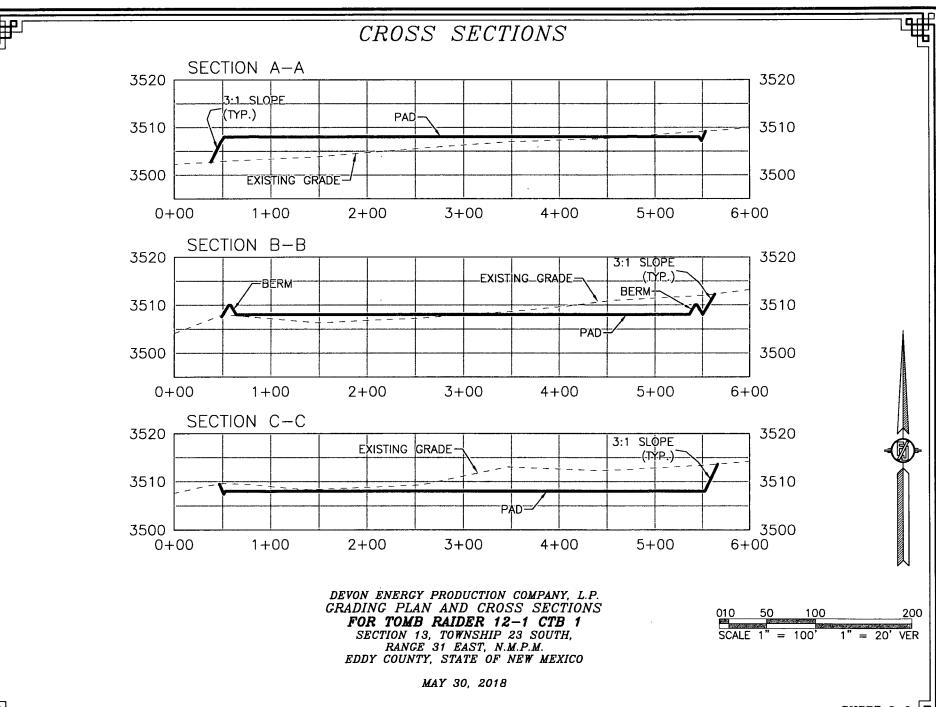
EDDY COUNTY, STATE OF NEW MEXICO

MAY 30, 2018

AERIAL PHOTO







ACCESS ROAD PLAT ACCESS ROAD FROM THE TOMB RAIDER 12-1 CTB 1 TO THE TOMB RAIDER 12 PAD 1 (TOMB RAIDER 12 FED 213H, TOMB RAIDER 12-1 FED 516H) 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 30, 2018 TOMB RAIDER 12 PAD 1 (TOMB RAIDER 12 FED 213H-TOMB RAIDER 12-1 FED 516H)

FT BC 1916 N89*43'23"E 2637.86 FT. 2636.56 FT BC 1916 13 18 (TIE) STA 14+60.8 E.O.R. STA 13+95.7 PI LEFT N77"29'08"E 1273.94 FT STA 13+22.7 PI LEFT STA 9+25.5 PI RIGHT N01°39'59' 516.96 FT Ŀ 8 2639. 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 SEC 13 T.23S., R.31E. S4755'48"É 2233.89 FT BC 1916 BC 1916 BLM500.19.58 19^{BC} 1916 S89'42'56"W 2640.30 FT S89°41'05"W 2637.85 FT 23 SEE NEXT SHEET (2-2) FOR DESCRIPTION 1000 SURVEYOR CERTIFICATE Scale: 1" = 1000' I, FILIMON F. LARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY, THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IN 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. GENERAL NOTES 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT. WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD. 2.) BASIS OF BEARING AND DISTANCE IS NMSP NEW MEXICO, ST EAST (NAD83) MODIFIED TO SURFACE MADRON SURVEYING, INC. COORDINATES. NAD 83 (FEET) AND NAVD 88 501 SOUTH CANAL ARLSBAD, NEW MEXICO 88220 (FEET) COORDINATE SYSTEMS USED IN THE

hone (575) 234-3341

NEW MEXICO

ARLSBAD.

SURVEY NO. 5242B

SURVÉY.

SHEET: 1-2

MADRON SURVEYING,

ACCESS ROAD PLAT

ACCESS ROAD FROM THE TOMB RAIDER 12-1 CTB 1 TO THE TOMB RAIDER 12 PAD 1 (TOMB RAIDER 12 FED 213H, TOMB RAIDER 12-1 FED 516H)

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 30. 2018

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 S47'55'48"E, A DISTANCE OF 2233.89 FEET:

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 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 THAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUEDAND 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,

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

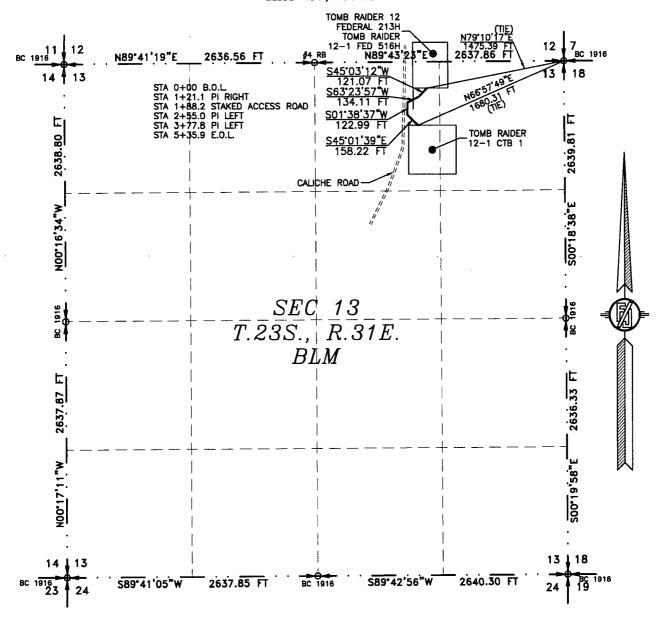
SURVEY NO. 5242B

SARAMILOZPES. 42797

CARLSBAD, NEW MEXICO

TWO-8" POLY FLOWLINES & ONE-6" GAS LIFT LINE BURIED IN THE SAME DITCH FROM TOMB RAIDER 12 FEDERAL 213H & TOMB RAIDER 12-1 FED 516H TO TOMB RAIDER 12-1 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 MAY 29, 2018



SEE NEXT SHEET (2-4) FOR DESCRIPTION

INC. 301 SOUTH CAMAL (5/5) 234-3541



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: 1-4

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 GERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO,

 $\overline{AR}LSBAD$

MADRON SURVEYING, INC. 301 SOUTH CANAL Phone (575) 234-3341

NEW

SURVEY NO. 5406A

CARLSBAD, NEW MEXICO 88220

TWO-8" POLY FLOWLINES & ONE-6" GAS LIFT LINE BURIED IN THE SAME DITCH FROM TOMB RAIDER 12 FEDERAL 213H & TOMB RAIDER 12-1 FED 516H TO TOMB RAIDER 12-1 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

MAY 29, 2018

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 N01°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

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,

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 DO DAY OF MAY 2018

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

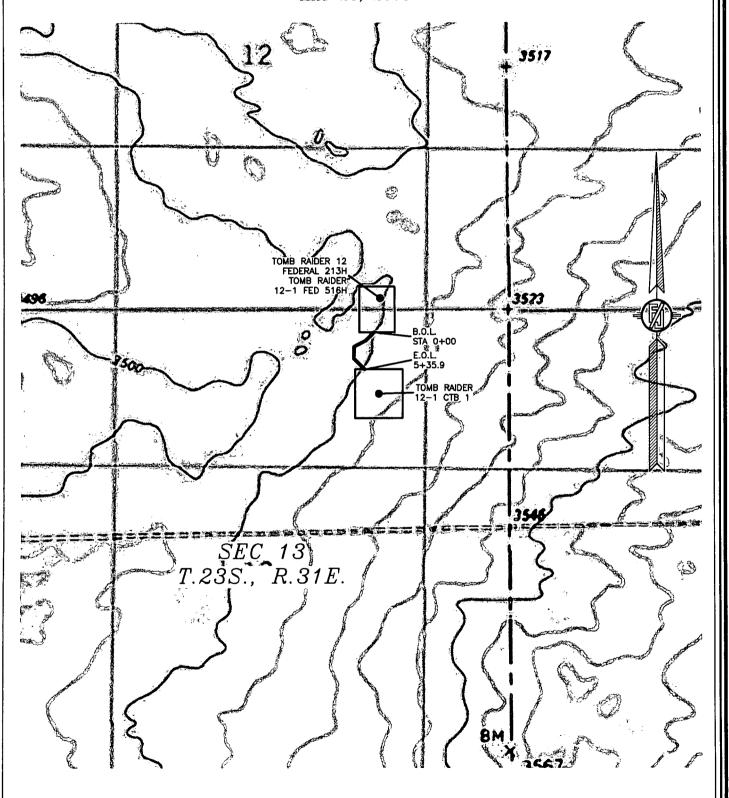
757 SURVEY NO. 5406A

INC. (5.1 SOUTH, CANAL CARLSBAD, NI

NEW MEXICO

TWO-8" POLY FLOWLINES & ONE-6" GAS LIFT LINE BURIED IN THE SAME DITCH FROM TOMB RAIDER 12 FEDERAL 213H & TOMB RAIDER 12-1 FED 516H TO TOMB RAIDER 12-1 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 MAY 29, 2018



SHEET: 3-4

SURVEY NO. 5406A MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

TWO-8" POLY FLOWLINES & ONE-6" GAS LIFT LINE BURIED IN THE SAME DITCH FROM TOMB RAIDER 12 FEDERAL 213H & TOMB RAIDER 12-1 FED 516H TO TOMB RAIDER 12-1 CTB 1

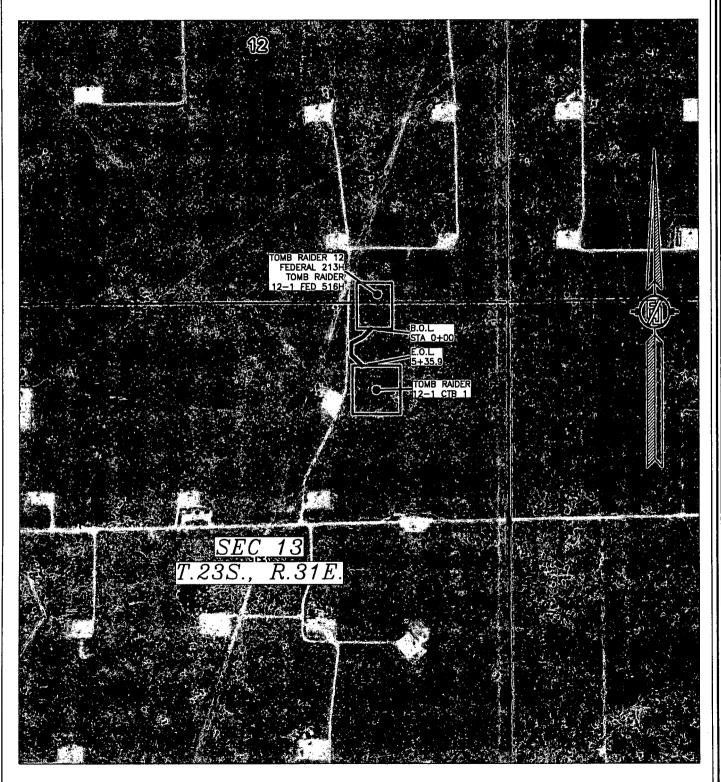
DEVON ENERGY PRODUCTION COMPANY, L.P.

CENTERLINE SURVEY OF A PIPELINE CROSSING

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

EDDY COUNTY, STATE OF NEW MEXICO

MAY 29, 2018



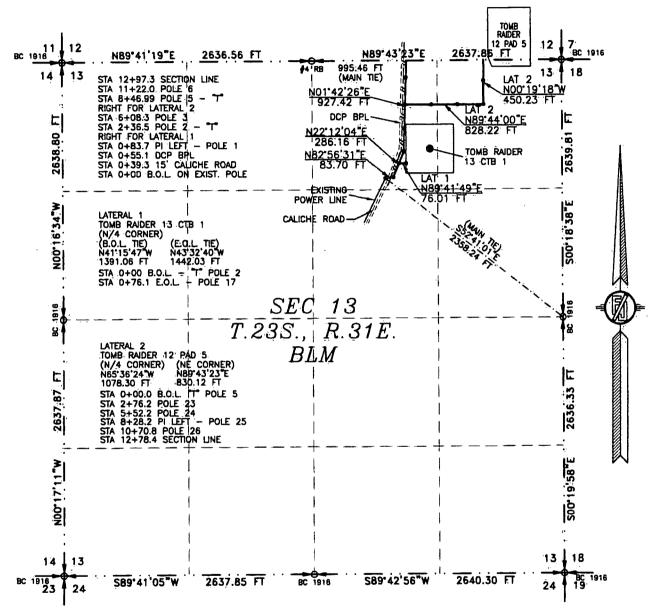
SHEET: 4-4

SURVEY NO. 5406A

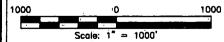
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

ELECTRIC LINE TO CONNECT TOMB RAIDER 13 CTB 1, TOMB RAIDER 12 PAD 1 (TOMB RAIDER 12-1 FED 516H), TOMB RAIDER 12 PAD 4 & 5, AND TOMB RAIDER 12 CTB 2 & 3

DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF AN ELECTRIC LINE CROSSING SECTION 13. TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO JUNE 18. 2018



SEE NEXT SHEET (2-7) 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: 1-7

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,

THIS NEW MEXICO.

CARLSBAD

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

NEW MEXICO

SURVEY NO. 6299

ELECTRIC LINE TO CONNECT TOMB RAIDER 13 CTB 1, TOMB RAIDER 12 PAD 1 (TOMB RAIDER 12-1 FED 516H), TOMB RAIDER 12 PAD 4 & 5, AND TOMB RAIDER 12 CTB 2 & 3

DEVON ENERGY PRODUCTION COMPANY, L.P.

CENTERLINE SURVEY OF AN ELECTRIC LINE CROSSING
SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO

JUNE 18, 2018

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:

MAIN LINE - TOMB RAIDER 12 CTB 3
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 \$52'
41'01"E. A DISTANCE OF 2358.24 FEET;

THENCE NB2'56'31"E A DISTANCE OF 83.70 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N22'12'04"E A DISTANCE OF 286.16 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE NO1:42'26"E A DISTANCE OF 927.42 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH
QUARTER CORNER OF SAID SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS S89'43'23"W, A DISTANCE
OF 995.46 FEET;

SAID STRIP OF LAND BEING 1297:28 FEET OR 78.63 RODS IN LENGTH, CONTAINING 0.893 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NE/4 1297.28 L.F. 78.63 RODS 0.893 ACRES

LATERAL 1 - TOMB RAIDER 13 CTB 1

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 NORTH QUARTER CORNER OF SAID SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N:M:P:M: BEARS N41* 15'47"W. A DISTANCE OF 1391.06 FEET;

THENCE N89'41'49"E A DISTANCE OF 76.01 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N43'32'40"W, A DISTANCE OF 1442.03

SAID STRIP OF LAND BEING 76.01 FEET OR 4.61 RODS IN LENGTH, CONTAINING 0.052 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NE/4 76:01 LF. 4:61 RODS 0.052 ACRES

LATERAL 2 - TOMB RAIDER 12 PAD 5
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 NORTH QUARTER CORNER OF SAID SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N65: 36'24"W, A DISTANCE OF 1078.30 FEET;

THENCE NB9'44'00"E A DISTANCE OF 828.22 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;.
THENCE NOO'19'18"W A DISTANCE OF 450.23 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH
QUARTER CORNER OF SAID SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS NB9'43'23"E, A DISTANCE
OF 830.12 FEET;

SAID STRIP OF LAND BEING 1278.45 FEET OR 77.48 RODS IN LENGTH, CONTAINING 0.880 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NE/4 339.30 L.F. 20.56 RODS 0.234 ACRES NE/4 NE/4 939.15 L.F. 56.92 RODS 0.647 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: 2-7

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_MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

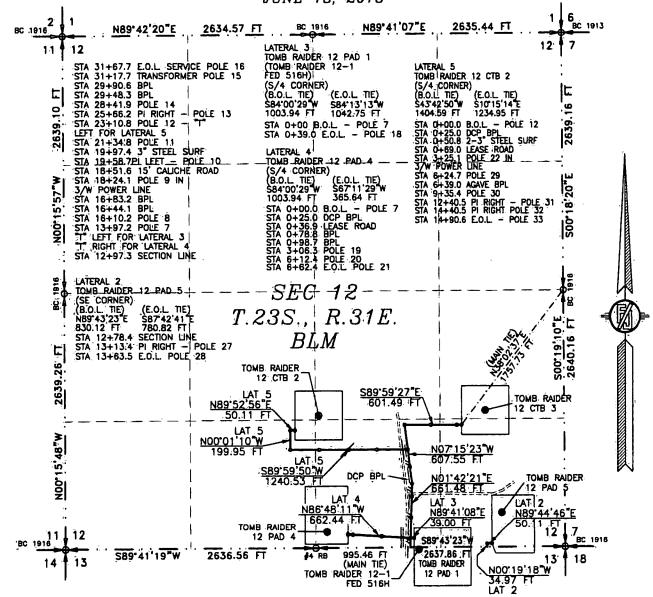
MADRON SURVEYING, INC.
301 SDUTH CANAL
CARLSBAD, NEW MEXICO 85220
Phone (575) 234-3341

SURVEY NO. 6299

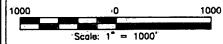
SOI SOUTH CARLSBAD, NEW MEXICO

ELECTRIC LINE TO CONNECT TOMB RAIDER 13 CTB 1, TOMB RAIDER 12 PAD 1 (TOMB RAIDER 12-1 FED 516H), TOMB RAIDER 12 PAD 4 & 5, AND TOMB RAIDER 12 CTB 2 & 3

DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF AN ELECTRIC LINE CROSSING SECTION 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO JUNE 18, 2018



SEE SHEETS (4-7 & 5-7) 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: 3-7

MADRON SURVEYING

SURVEYOR CERTIFICATE

1, 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.

WITHERS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, MADRON SURVEYING, INC. 301 SOUTH CANAL

RI-SBAD

CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341

SURVEY NO. 6299 *NEW MEXICO*

ELECTRIC LINE TO CONNECT TOMB RAIDER 13 CTB 1, TOMB RAIDER 12 PAD 1 (TOMB RAIDER 12-1 FED 516H), TOMB RAIDER 12 PAD 4 & 5, AND TOMB RAIDER 12 CTB 2 & 3

DEVON ENERGY PRODUCTION COMPANY, L.P.

CENTERLINE SURVEY OF AN ELECTRIC LINE CROSSING
SECTION 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO

JUNE 18, 2018

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 12, 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:

MAIN LINE - TOMB RAIDER 12 CTB 3

N.M.P.M. BEARS S89'43'23"W, A DISTANCE OF 995.46 FEET;

THENCE NOT 42'21"E A DISTANCE OF 661:48 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE NOT 5'23"W A DISTANCE OF 607:55 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S89:59'27"E A DISTANCE OF 601.49 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE EAST QUARTER CORNER OF SAID SECTION 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N38'02'37"E, A DISTANCE OF 1757.73 FEET;

SAID STRIP OF LAND BEING 1870.52 FEET OR 113.37 RODS IN LENGTH, CONTAINING 1.288 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SE/4 1642.95 L.F. SE/4 SE/4 227.57 L.F. 99.57 RODS

1.132 ACRES

SE/4 SE/4 227.57 LF. 13.79 RODS

S 0.157 ACRES

LATERAL 2 - TOMB RAIDER 12 PAD 5

BEGINNING AT A POINT WITHIN THE SE/4 SE/4 OF SAID SECTION 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE SOUTHEAST CORNER OF SAID SECTION 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., BEARS N89'43'23"E, A DISTANCE OF 830.12 FEET;

THÊNCE NOOTS'IB"W A DISTANCE OF 34.97 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE NB9'44'46"E A DISTANCE OF 50.11 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHEAST CORNER OF SAID SECTION 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS S87'42'41"E, A DISTANCE OF 780'82 FEET;

SAID STRIP OF LAND BEING 85.08 FEET OR 5.16 RODS IN LENGTH, CONTAINING 0.059 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SE/4 85.08 L.F. 5.16 RODS 0.059 ACRES

LATERAL 3 - TOMB: RAIDER 12 PAD 1 (TOMB RAIDER 12-1 FED 516H)
BEGINNING AT A POINT WITHIN THE SW/4 SE/4 OF SAID SECTION 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST,
N.M.P.M., WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST,
N.M.P.M. BEARS S8400'29"W, A DISTANCE OF 1003.94 FEET;
THENCE N89"41'08"E A DISTANCE OF 39.00 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTH
QUARTER CORNER OF SAID SECTION 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS S8413'13"W, A
DISTANCE OF 10.42.75 FEET;

SAID STRIP OF LAND BEING 39.00 FEET OR 2.36 RODS IN LENGTH, CONTAINING 0.027 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SE/4 39.00 LF. 2.36 RODS 0.027 ACRES

SURVEYOR CERTIFICATE

GENERAL NOTÉS 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

NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FÉET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 4-7

MADRON SURVEYING INC. (575) 234-5341

I, FILMON 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 ATTHIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS ZOAY OF JUNE 2018

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

SURVEY NO. 6299

CARLSBAD, NEW MEXICO

ELECTRIC LINE TO CONNECT TOMB RAIDER 13 CTB 1, TOMB RAIDER 12 PAD 1 (TOMB RAIDER 12-1 FED 516H), TOMB RAIDER 12 PAD 4 & 5, AND TOMB RAIDER 12 CTB 2 & 3

DEVON ENERGY PRODUCTION COMPANY, L.P.

CENTERLINE SURVEY OF AN ELECTRIC LINE CROSSING

SECTION 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO

JUNE 18, 2018

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 12, 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:

LATERAL 4 - TOMB RAIDER 12 PAD 2

BEGINNING AT A POINT WITHIN THE SW/4 SE/4 OF SAID SECTION 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS S84 00'29"W. A DISTANCE OF 1003.94 FEET:

THENCE N86'48'11" A DISTANCE OF 662.44 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS S67'11'29"W, A DISTANCE OF 365.64 FEET;

SAID STRIP OF LAND BEING 662.44 FEET OR 40.15 RODS IN LENGTH, CONTAINING 0.456 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SE/4 662.44 L.F. 40.15 RODS 0.456 ACRES

LATERAL 5 - TOMB RAIDER 12 CTB 2

BEGINNING AT A POINT WITHIN THE SW/4 SE/4 OF SAID SECTION 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS: S43*42*50*W. A DISTANCE OF 1404.59 FEET;

THENCE \$89:59'50"W A DISTANCE OF 1240.53 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE NOO'01'10"W A DISTANCE OF 199.95 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N89'52'56"E A DISTANCE OF 50.11 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS S10'15'14"E, A DISTANCE OF 1234.95 FEET:

SAID STRIP OF LAND BEING 1490.59 FEET OR 90.34 RODS IN LENGTH, CONTAINING 1.027 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SE/4 975.73 L.F. 59.13 RODS 0.672 ACRES SE/4 SW/4 514.86 L.F. 31.20 RODS 0.355 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: 5-7

MADRON SURVEYING,

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT-I-HAVE-CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, STRUE 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 ZOTAY OF JUNE 2018

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

SURVEY NO. 6299

AKLSBAD. NEW MEXICO



ELECTRIC LINE TO CONNECT TOMB RAIDER 13 CTB 1, TOMB RAIDER 12 PAD 1 (TOMB RAIDER 12-1 FED 516H), TOMB RAIDER 12 PAD 4 & 5, AND TOMB RAIDER 12 CTB 2 & 3

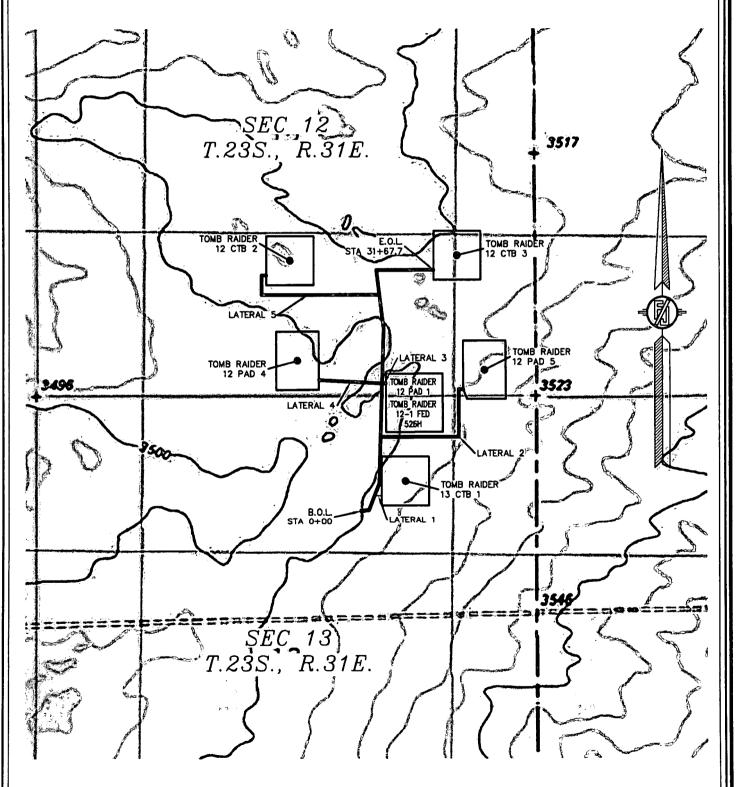
DEVON ENERGY PRODUCTION COMPANY, L.P.

CENTERLINE SURVEY OF AN ELECTRIC LINE CROSSING

SECTIONS 13 & 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO

JUNE 18, 2018



SHEET: 6-7

SURVEY NO. 6299,

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

ELECTRIC LINE TO CONNECT TOMB RAIDER 13 CTB 1, TOMB RAIDER 12 PAD 1 (TOMB RAIDER 12-1 FED 516H), TOMB RAIDER 12 PAD 4 & 5, AND TOMB RAIDER 12 CTB 2 & 3

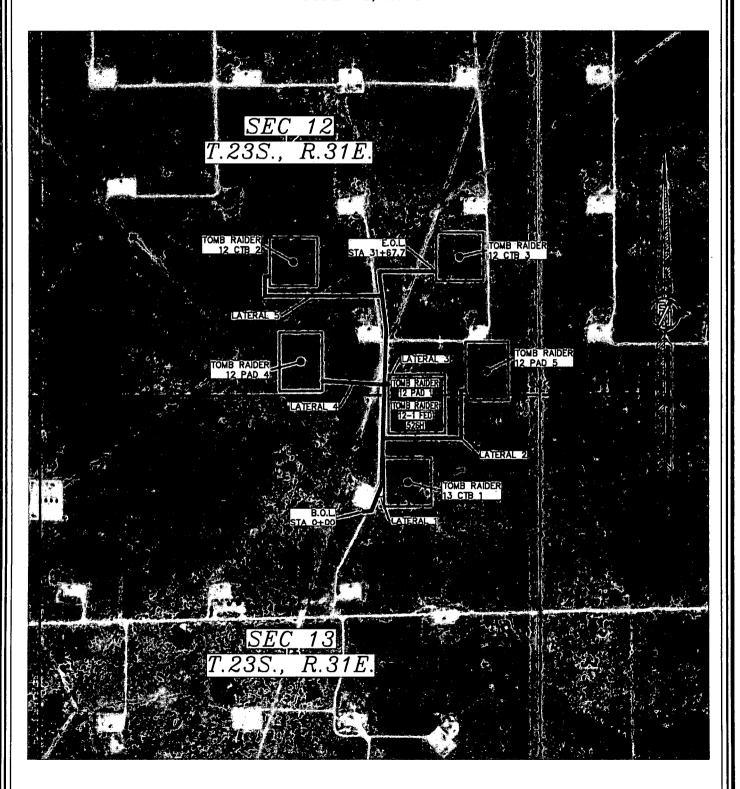
DEVON ENERGY PRODUCTION COMPANY, L.P.

CENTERLINE SURVEY OF AN ELECTRIC LINE CROSSING

SECTIONS 13 & 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO

JUNE 18, 2018



SHEET: 7-7

SURVEY NO. 6299

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



Tracking Information

Pay.gov Tracking ID: 26DNIUGV

Agency Tracking ID: 75623046826

Form Name: Bureau of Land Management (BLM) Application for Permit to Drill (APD) Fee

Application Name: BLM Oil and Gas Online Payment

Payment Information

Payment Type: Bank account (ACH)

Payment Amount: \$30,150.00

Transaction Date: 11/26/2018 04:44:04 PM EST

Payment Date: 11/27/2018

Company: DEVON ENERGY PRODUCTION CO., L.P.

APD IDs: 10400036686, 10400036684, 10400036665

Lease Numbers: NMNM0404441, NMNM0404441, NMNM0404441

Well Numbers: 216H, 215H, 214H

Note: You will need your Pay.gov Tracking ID to complete your APD transaction in AFMSS II. Please ensure you write this number down upon completion of payment.

Account Information

11/26/2018 Pay.gov - Receipt

Account Holder Name: Devon Energy Production Company, L.P.

Routing Number: 061000052

Account Number: ********9892

BURIED **Flowline Plat**

TWO-8" POLY FLOWLINES & ONE-6" GAS LIFT LINE BURIED IN THE SAME DITCH FROM TOMB RAIDER 12 FEDERAL 213H & TOMB RAIDER 12-1 FED 516H TO TOMB RAIDER 12-1 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

ALL FLOWLINES ARE BURIED TOMB RAIDER 12 FEDERAL 213H TOMB RAIDER 12-1 FED 516H N89°43 BC 1916 2636.56 FT N89°41'19"E_ 15'03'12 W 121.07 FT STA 0+00 B.O.L STA 1+21.1 PI RIGHT
STA 1+21.1 PI RIGHT
STA 1+88.2 STAKED ACCESS ROAD
STA 2+55.0 PI LEFT
STA 3+77.8 PI LEFT
STA 5+35.9 E.O.L. 134.11 FI TOMB RAIDER 12-1 CTB 1 CALICHE ROAD SEC 13 $\overline{T}.\overline{Z}\overline{S}\overline{S}., \overline{R}.\overline{S}\overline{I}\overline{E}.$ BLM13 I 18 S89°42'56"W 2640.30 FT S89'41'05"W 2637.85 FT

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 Šurvéy.

SHEET: 1-4

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 GERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS

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

SURVEY NO. 5406A

TILINON/P/JAMATILIN/P SOUTH CAMAL INC. 301 SOUTH CANAL *CARLSBAD*

BURIED **Flowline Plat**

TWO-8" POLY FLOWLINES & ONE-6" CAS LIFT LINE BURIED IN THE SAME DITCH FROM TOMB RAIDER 12 FEDERAL 213H & TOMB RAIDER 12-1 FED 516H TO TOMB RAIDER 12-1 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 MAY 29, 2018

ALL FLOWLINES ARE BURIED 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

INC. 101 SOUTH CANAL (575) 234-3341

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.

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 BOD DAY MAY 2018

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

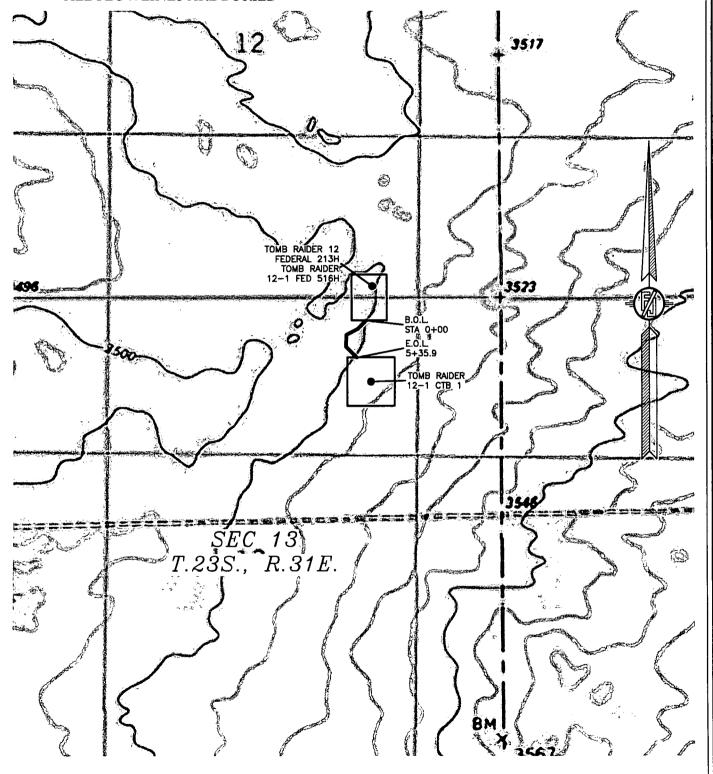
SURVEY NO. 5406A

FILLHON /F/ JARAMILEO PESS 12757 CARLSBAD. *NEW MEXICO*

BURIED FLOWLINE PLAT

TWO-8" POLY FLOWLINES & ONE-6" CAS LIFT LINE BURIED IN THE SAME DITCH FROM TOMB RAIDER 12 FEDERAL 213H & TOMB RAIDER 12-1 FED 516H TO TOMB RAIDER 12-1 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 *ALL FLOWLINES ARE BURIED* MAY 29, 2018



SHEET: 3-4

SURVEY NO. 5406A MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

BURIED **FLOWLINE PLAT**

TWO-8" POLY FLOWLINES & ONE-6" GAS LIFT LINE BURIED IN THE SAME DITCH FROM TOMB RAIDER 12 FEDERAL 213H & TOMB RAIDER 12-1 FED 516H TO TOMB RAIDER 12-1 CTB 1

DEVON ENERGY PRODUCTION COMPANY, L.P.

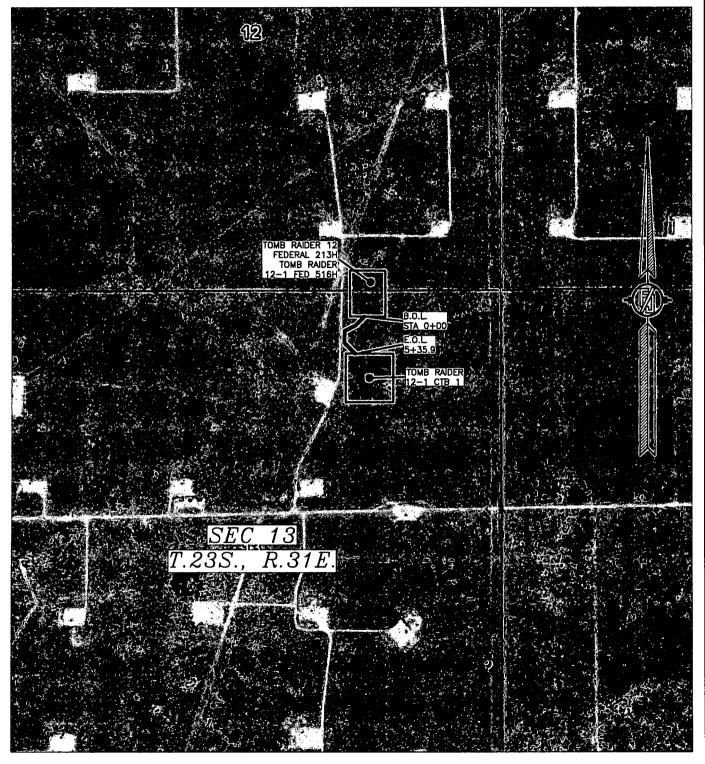
CENTERLINE SURVEY OF A PIPELINE CROSSING

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

EDDY COUNTY, STATE OF NEW MEXICO

MAY 29, 2018

ALL FLOWLINES ARE BURIED



SHEET: 4-4

SURVEY NO. 5406A

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



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

27	PWD Data Report
	06/12/2019

Section 1 - General

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

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

PWD disturbance (acres):

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:	
PWD surface owner:	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 Dissolutat of the existing water to be protected?	lved Solids (TDS) concentration equal to or less than
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 well mineral owner:

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?	



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

Bond Info Data Report 06/12/2019

Bond Information

Federal/Indian APD: FED

BLM Bond number: CO1104

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: