NM OIL CONSERVATION ARTESIA DISTRICT

Form 3160-3 (June 2015)

OCT 15 2019

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

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED

5. Lease Serial No.

NMNM0404441 BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. **✓** DRILL REENTER la. Type of work: 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone BORA BORA 13-24 FED COM 2. Name of Operator 9. API Well No. **DEVON ENERGY PRODUCTION COMPANY LP** 30-04 3a. Address 3b. Phone No. (include area code) MO. Field and Pool, or Exploratory 333 West Sheridan Avenue Oklahoma City OK 73102 LIVINGSTON RIDGE / BONESPRING (800)583-3866 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 13 **/ T23S** / R31E / NMP At surface NENE / 100 FNL / 1210 FEL / LAT 32.3114209 / LONG -103.7268752 At proposed prod. zone SWSE / 20 FSL / 2170 FEL / LAT 32.2827351 / LONG -103.7299875 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office* **FDDY** NM 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 100 feet location to nearest 320 property or lease line, ft. 1440 (Also to nearest drig. unit line, if any) 20, BLM/BIA Bond No. in file 18. Distance from proposed location* 19. Proposed Depth to nearest well, drilling, completed, 303 feet 10230 feet / 20582 feet FED: CO1104 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3506 feet 05/26/2019 45 days 24. Attachments 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 operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). 5. Operator certification. Such other site specific information and/or plans as may be requested by the Name (Printed/Typed) Date 25. Signature (Electronic Submission) Jenny Harms / Ph: (405)524-4902 11/26/2018 Regulatory Compliance Professional Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) 10/04/2019 Cody Layton / Ph: (575)234-5959 Title Office Assistant Field Manager Lands & Minerals **CARLSBAD** Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency

APPROVED WITH CONDITIONS

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of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RNT 10-18-19

INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

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

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

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

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

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

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

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

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

Additional Operator Remarks

Location of Well

1. SHL: NENE / 100 FNL / 1210 FEL / TWSP: 23S / RANGE: 31E / SECTION: 13 / LAT: 32.3114209 / LONG: -103.7268752 (TVD: 0.feet, MD: 0 feet)

PPP: NWNE / 100 FNL / 2170 FEL / TWSP: 23S / RANGE: 31E / SECTION: 13 / LAT: 32.3114231 / LONG: -103.7299819 (TVD: 10230 feet, MD: 10009 feet)

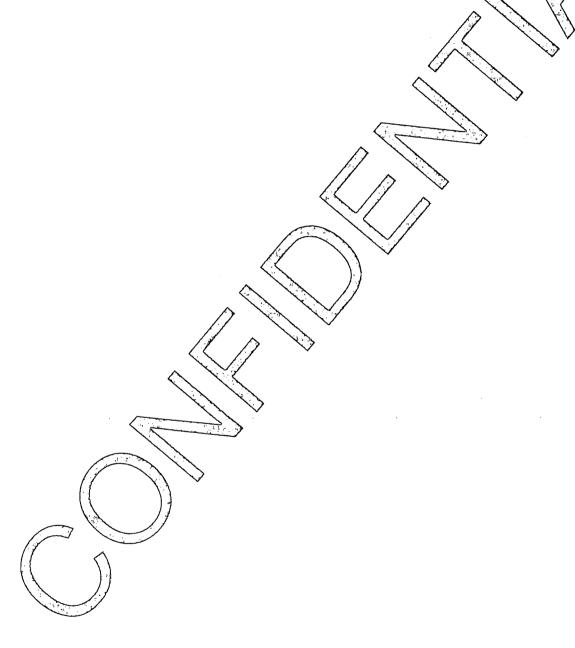
BHL: SWSE / 20 FSL / 2170 FEL / TWSP: 23S / RANGE: 31E / SECTION: 24 / LAT: 32.2827351 / LONG: -103.7299875 (TVD: 10230 feet, MD: 20582 feet)



(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 Bureau of Land Management office for further information.



(Form 3160-3, page 4)

OCT 15 2019

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

RECEIVED

OPERATOR'S NAME: Devon Energy Production Company LP

LEASE NO.: | NMNM0404441

WELL NAME & NO.: | Bora Bora 13-24 Fed Com 214H

SURFACE HOLE FOOTAGE: 100'/N & 1210'/E **BOTTOM HOLE FOOTAGE** 20'/S & 2170'/E

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

COUNTY: Eddy County, New Mexico

COA

H2S	• Yes	CNo	
Potash	None	© Secretary	CR-111-P
Cave/Karst Potential	⊙ Low	○ Medium	C High
Variance	O None	© Flex Hose	O Other
Wellhead	C Conventional	○ Multibowl	⊙ Both
Other	☐4 String Area	Capitan Reef	□WIPP
Other	Fluid Filled	Cement Squeeze	Pilot Hole
Special Requirements	☐ Water Disposal	☑ 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 920 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.
 (22.78%)

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.

(22.78%)

- 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.
 (3.35%)

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 **2000 (2M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **3000** (**3M**) 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 **3000 (3M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

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.

Page 4 of 9

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County
 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 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. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 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. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: 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, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug 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.

Page 9 of 9

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:
WELL NAME & NO.:
Bora Bora 13-24 Fed Com 214H
100'/N & 1210'/E
BOTTOM HOLE FOOTAGE:
LOCATION:
COUNTY:
Devon Energy Production Company LP
Bora Bora 13-24 Fed Com 214H
100'/N & 1210'/E
20'/S & 2170'/E
Section 13, T.23 S., R.31 E., NMPM
Eddy County, New Mexico

TABLE OF CONTENTS

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

General Provisions
Permit Expiration
Archaeology, Paleontology, and Historical 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
igties Production (Post Drilling)
Well Structures & Facilities
Pipelines
Electric Lines
Interim Reclamation
Final Abandonment & Reclamation

I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

IV. NOXIOUS WEEDS

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

Page 2 of 18

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.

- 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.

Page 4 of 18

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)

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.

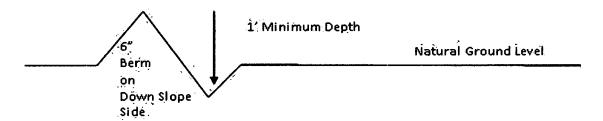
Drainage

Page 6 of 18

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
- 4. Revegetate slopes 2. Construct road

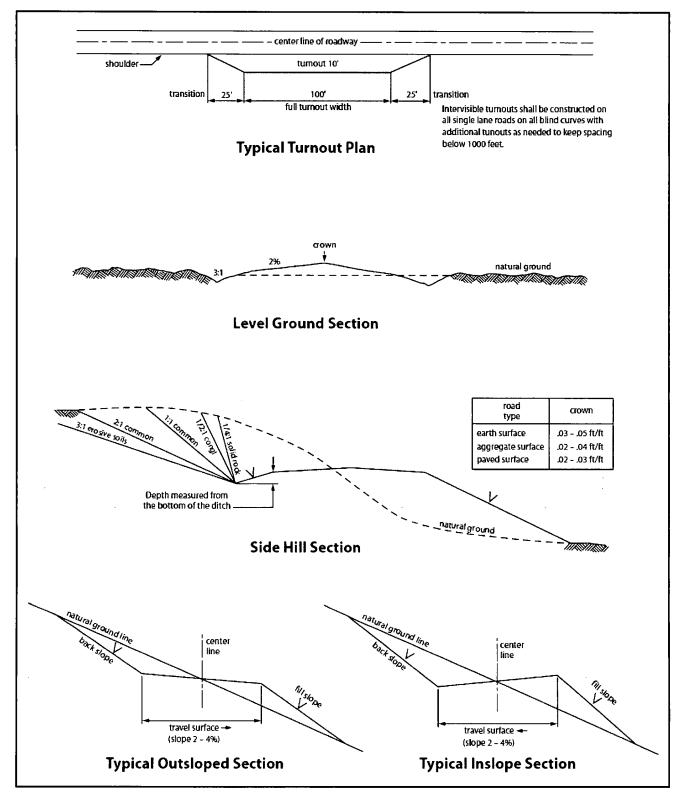


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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.

Page 10 of 18

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 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.									
10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.									
11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.									

Page 12 of 18

seeding requirements, using the following seed mix.								
() seed mixture 1() seed mixture 2(X) seed mixture 2/LPC	() seed mixture 3() seed mixture 4() Aplomado Falcon Mixture							
13. All above-ground structures not subject to s to blend with the natural color of the landscape. "Standard Environmental Colors" – Shale Gree								
way and at all road crossings. At a minimum, si	signs and information thereon will be posted in a							
	thorized Officer in consultation with the holder e whatever steps are necessary to ensure that the ermined necessary during the life of the pipeline,							
16. Any cultural and/or paleontological resource discovered by the holder, or any person working immediately reported to the Authorized Officer. immediate area of such discovery until written a Authorized Officer. An evaluation of the discovery determine appropriate actions to prevent the loss holder will be responsible for the cost of evaluate measures will be made by the Authorized Officer.	y on his behalf, on public or Federal land shall be Holder shall suspend all operations in the uthorization 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							

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached

18. <u>Escape Ramps</u> - The operator will construct and maintain pipeline/utility trenches that are not otherwise fenced, screened, or netted to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or

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

weed control methods, which include following EPA and BLM requirements and policies.

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.

Page 14 of 18

Approval Date: 10/04/2019

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

Page 16 of 18

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.

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

©perator Certification Data Report

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 SHERDIAN AVE

City: OKLAHOMA CITY State: OK

Phone: (405)524-4902

Email address: RAY.VAZ@DVN.COM

Field Representative

Representative Name: Ray Vaz

Street Address: 333 WEST SHERIDAN AVENUE

City: OKLAHOMA CITY

State: OK

Phone: (405)552-4902

Email address: ray.vaz@dvn.com

Zip: 73102-5015

Zip: 73170



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

Application Data Report

APD ID: 10400036665

Submission Date: 11/26/2018

Highlighted data reflects the most

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

recent changes

Well Name: BORA BORA 13-24 FED COM

Well Number: 214H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID:

10400036665

Tie to previous NOS?

Submission Date: 11/26/2018

BLM Office: CARLSBAD

User: Jenny Harms

Title: Regulatory Compliance

Federal/Indian APD: FED

Professional 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: 214H

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: 214H

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

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 Logar 1

S: HORIZONTAL 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: 303 FT Distance to lease line: 100 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: BORA_BORA_13_24_FED_COM_214H_C102_20181126115909.pdf

Well work start Date: 05/26/2019 Duration: 45 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

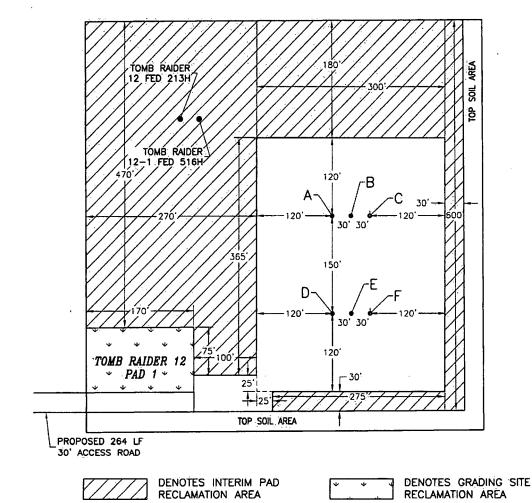
Datum: NAD83 Vertical Datum: NAVD88

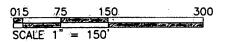
Survey number: 6674A Reference Datum:

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	100	FNL	121 0	FEL	23S	31E	13	Aliquot NENE	32.31142 09	- 103.7268 752	EDD Y	l .	NEW MEXI CO	F	NMNM 040444 1	350 6	0	0
KOP Leg #1	50	FNL	217 0	FEL	23S	31E	13	Aliquot NWNE	32.31156	- 103.7299 82	EDD Y		NEW MEXI CO		NMNM 040444 1	- 619 1	976 8	969 7
PPP Leg #1	100	FNL	217 0	FEL	23S	31E	13	Aliquot NWNE	32.31142 31	- 103.7299 819	EDD Y	i	NEW MEXI CO		NMNM 040444 1	- 642 5	100 09	993 1

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



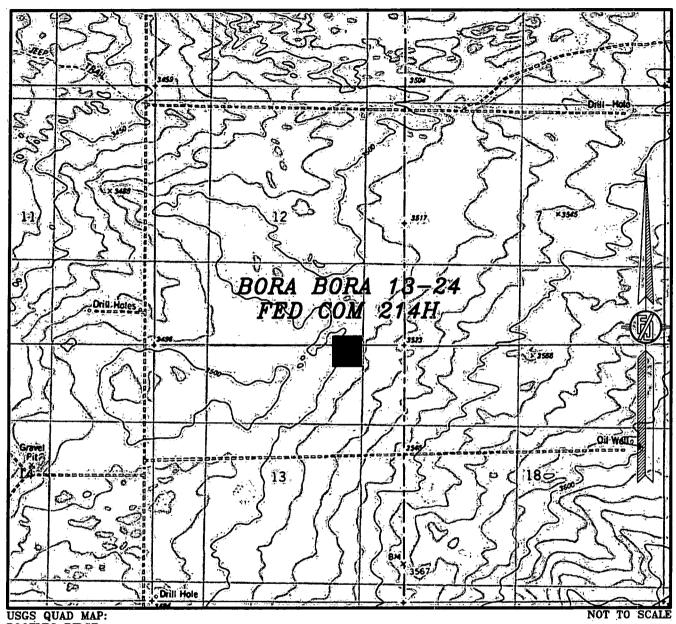


4.929± ACRES INTERIM PAD RECLAMATION AREA 0.390± ACRES GRADING SITE RECLAMATION AREA 2.948± ACRES NON-RECLAIMED AREA 8.267± ACRES TOMB RAIDER 12 PAD 1 DEVON ENERGY PRODUCTION COMPANY, L.P.
BORA BORA 13-24 FED COM 214H
LOCATED 100 FT. FROM THE NORTH LINE
AND 1210 FT. FROM THE EAST LINE OF
SECTION 13, TOWNSHIP 23 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LAND STATUS: BLM

NOVEMBER 15, 2018
SURVEY NO. 6674A

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



USGS QUAD MAP: BOOTLEG RIDGE

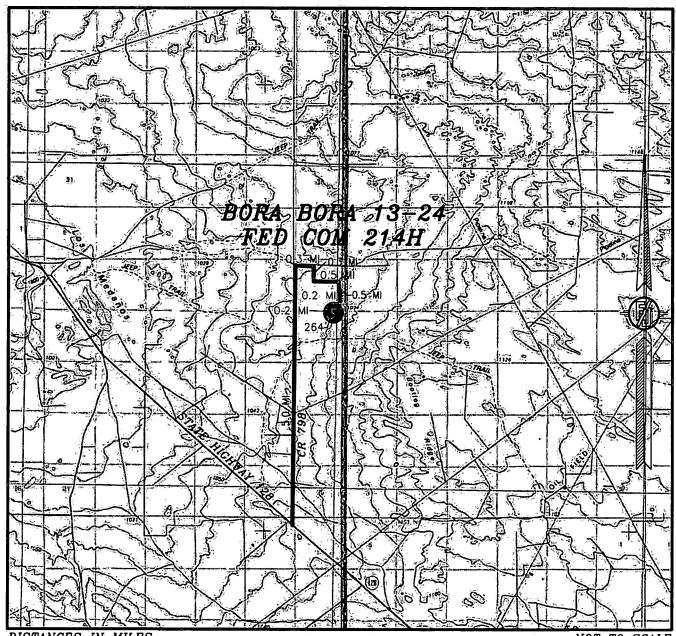
DEVON ENERGY PRODUCTION COMPANY, L.P. BORA BORA 13-24 FED COM 214H LOCATED 100 FT. FROM THE NORTH LINE AND 1210 FT. FROM THE EAST LINE OF SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO LAND STATUS: BLM

NOVEMBER 15, 2018

SURVEY NO. 6674A

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 214H LOCATED 100 FT. FROM THE NORTH LINE AND 1210 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

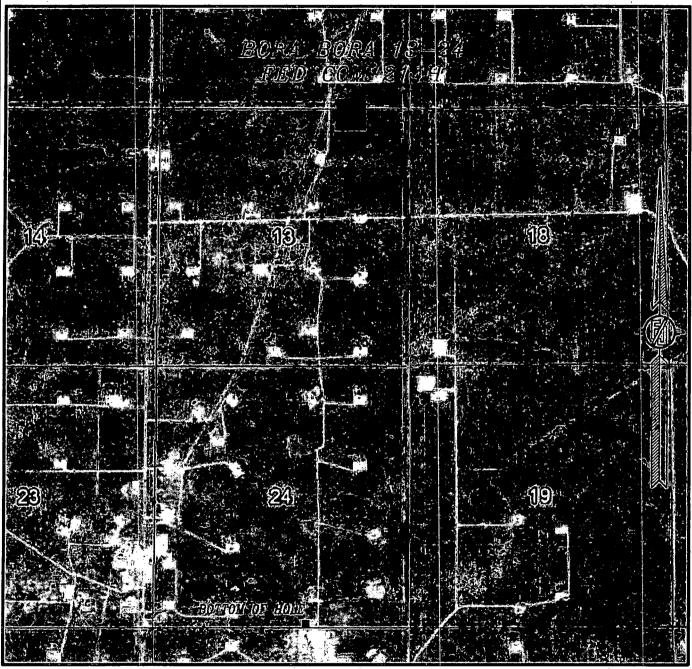
DIRECTIONS TO LOCATION

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 (EAST) GO 264 TO THE SOUTHWEST PAD CORNER FOR THIS LOCATION.

SURVEY NO. 6674A

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 214H

LOCATED 100 FT. FROM THE NORTH LINE

AND 1210 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. 6674A

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 ACCESS AERIAL ROUTE MAP



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH NOVEMBER 2017 DEVON ENERGY PRODUCTION COMPANY, L.P.

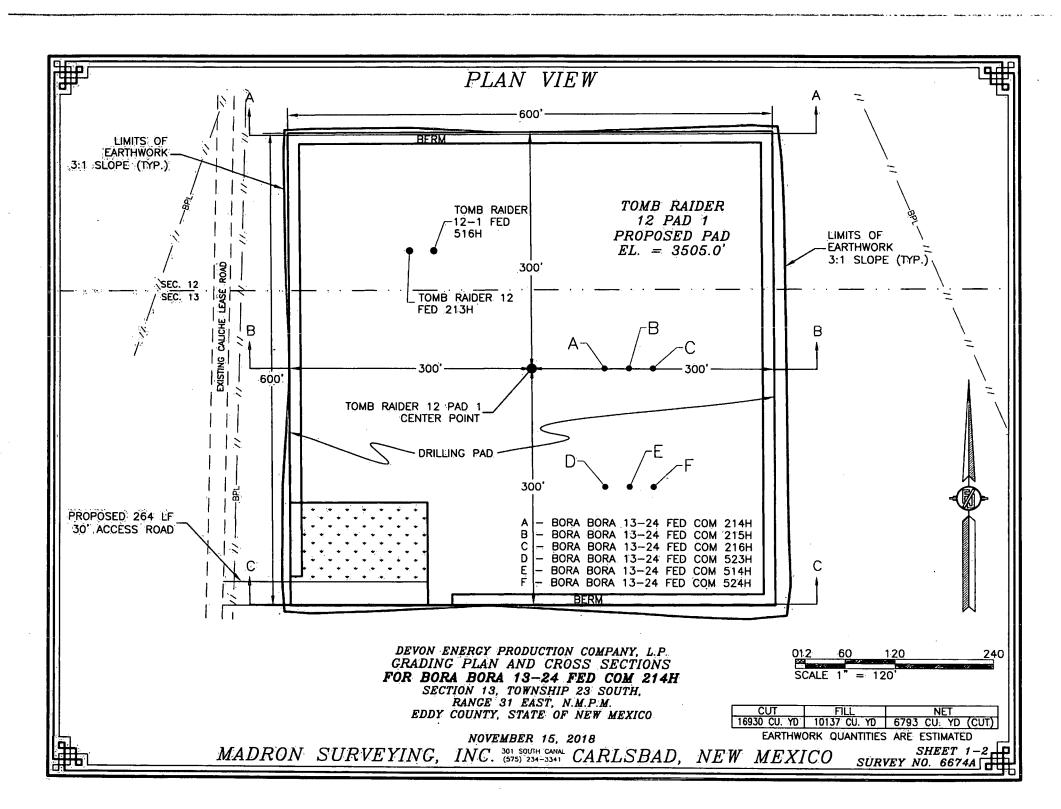
BORA BORA 13-24 FED COM 214H

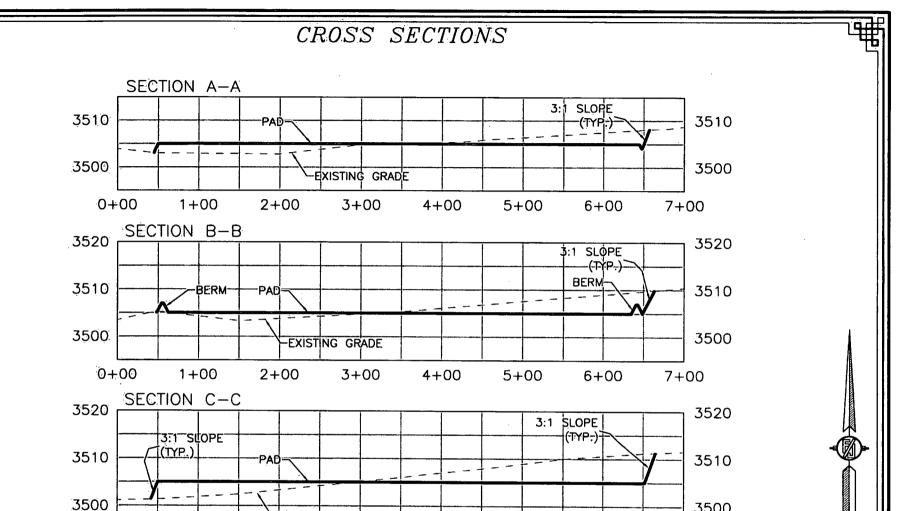
LOCATED 100 FT. FROM THE NORTH LINE
AND 1210 FT. FROM THE EAST LINE OF
SECTION 13, TOWNSHIP 23 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LAND STATUS: BLM

NOVEMBER 15, 2018

SURVEY NO. 6674A

MADRON SURVEYING, INC. (575) 234-3341 CARLSBAD, NEW MEXICO





DEVON ENERGY PRODUCTION COMPANY, L.P. GRADING PLAN AND CROSS SECTIONS FOR BORA BORA 13-24 FED COM 214H SECTION 13, TOWNSHIP 23 SOUTH, RANCE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

4+00

5+00

6+00

EXISTING GRADE

3+00

2+00

0+00

1+00

 CUT
 FILL
 NET

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

3500

7+00

NOVEMBER 15, 2018

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

SHEET 2-SURVEY NO. 6674A

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 8C 1916 N89°43'23"E 26<u>37.86</u> FT. N89'41'19"E_ 2636.56 FT BC 1916 13 18 13 STA 14+60.8 E.O.R. STA 13+95.7 PL LEFT (TIE) N74,39'10"E STA 13+22.7 PI LEFT 1480.93 FT TOMB RAIDER 12 PAD 1 STA 9+25.5 PI RIGHT E STA 4+08.5 PI LEFT STA 1+57.0 PI RIGHT STA 0+00 B.O.R. TOMB RAIDER 12-1 CTB 1 SEC 13 S47 55 48 E BC 1918 BLME 14 1 13 19^{BC 1916} BC 1916 S89'42'56"W 2640.30 FT S89*41'05"W 2637.85 FT 24 SEE NEXT SHEET (2-2) FOR DESCRIPTION 1000 1000 SURVEYOR CERTIFICATE Scale: = 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.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,
NEW MEXICO, THIS DAY OF MOVEMBER 2018 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 MADRON SURVEYING, INC. COORDINATES. NAD 83 (FEET) AND NAVD 88 301 SOUTH CANAL (FEET) COORDINATE SYSTEMS USED IN THE CARLSBAD, NEW MEXICO 88220 ŠURVÉY. Phone (575) 234-3341 SHEET: 1-2SURVEY NO. 6674A INC . (575)/234-3341 SBAD. *MADRON SURVEYING* NEW MEXICO

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, NIM.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 N01'39'59"E A DISTANCE OF 516.96 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE 189 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 1480.93 FEET;

SAID STRIP OF LAND BEING 1189:93 FEET OR 72.12 RODS IN LENGTH, CONTAINING 0.820 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

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

SURVEYOR CERTIFICATE

GENERAL NOTES

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

SHEET: 2-2

MADRON SURVEYING

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

INSWITNESS, WHEREOF, ITHIS CERTIFICATE IS EXECUTED AT CARLSBAD,

N.SWITNESS, WHEREOF

DAY (OF NOVEMBER 2018

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

SURVEY NO. 6674A

INC. 301 SOUTH CANAL CARLSBAD, *NEW MEXICO*



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

Drilling Plan Data Report

APD ID: 10400036665 **Submission Date:** 11/26/2018

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BORA BORA 13-24 FED COM Well Number: 214H

Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	UNKNOWN	3506	0	0	ALLUVIUM	NONE	N
2	RUSTLER	2681	825	825	SALT	NONE	N
3	SALADO	2306	1200	1200		NONE	N
4	BASE OF SALT	-994	4500	4500	SALT	NONE	N
5	DELAWARE	-1024	4530	4530	SANDSTONE	NATURAL GAS,OIL	N.
6	BONE SPRING	-4934	8440	8440	SANDSTONE	NATURAL GAS,OIL	N
7	BONE SPRING 2ND	-6564	10070	1.0070	SANDSTONE	NATURAL GAS,OIL	Y

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: 214H

Pressure Rating (PSI): 5M

Rating Depth: 10230

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_20190416143350.pdf

BOP Diagram Attachment:

5M_BOPE__CK_20190416143359.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	ST&C	1.12 5	1	BUOY	1.6	BUOY	1.6
1	INTERMED IATE	12.2 5	9,625	NEW	API	N	0	6000	0	6000	-6768	- 11036	6000	J-55		OTHER - BTC	1.12 5	1	BUOY	1.6	BUOY	1.6
3	PRODUCTI ON	8.75	5.5	NEW	API	N	0	20582	0	10230	-6768	- 16768	20582	P- 110		OTHER - BTC	1.12 5	1	BUOY	1.6	BUOY	1.6

Casing Attachments

Casing Attachments	
Casing ID: 1 String Type: SURFAC Inspection Document:	₽E
inspection bocument.	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s);
Surf_Csg_Ass_20181126124403.pdf	
Casing ID: 2 String Type: INTERM8 Inspection Document:	EDIATE:
inspection bocument.	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s)•
Int_Csg_Ass_20181126124414.pdf	<i>,</i>
Casing ID: 3 String Type: PRODUC	CTION
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):
Prod_Csg_Ass_20181126124428.pdf	,

Well Number: 214H

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BORA BORA 13-24 FED COM

Section 4 - Cement

Well Name: BORA BORA 13-24 FED COM Well Number: 214H

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. 9	100	С	Class C + adds

									7 .	
INTERMEDIATE	Lead	0	5500	1091. 2	1.94	9	2116. 9	50	С	Class C + adds
INTERMEDIATE	Tail	5500	6000	196	1.33	13.2	261.7	50	C	Class C + adds
PRODUCTION	Lead	5500	9768	333.5	1.94	9	1190. 4	10	TUNED	Class C + adds
PRODUCTION	Tail	9768	2058 2	2058. 1	1.6	13.2	3004. 8	10	Н	Class H / C + additives

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 (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	HA	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	850	OTHER : FRESH WATER	8.5	9		:		2	:		
850	6000	OTHER : BRINE	10	10.5				2	-		
6000	1023 0	WATER-BASED MUD	8.5	9							

Well Name: BORA BORA 13-24 FED COM Well Number: 214H

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: 4788

Anticipated Surface Pressure: 2537.4

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_214H_H2S_20181126125046.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Devon___Bora_Bora_13_24_Fed_Com_214H___p1_20181126125124.pdf
Drilling_Plan_Bora_Bora_13_24_Fed_Com_214H_4_15_20190426131248.pdf

Other proposed operations facets description:

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

Other proposed operations facets attachment:

Multi_Bowl_Verbiage_3M_Rev1_20181126130044.pdf Clsd_Loop_20181126130115.pdf MB_Wellhd_3M_20181126130116.pdf GasCapturePlan_20181126131228.pdf

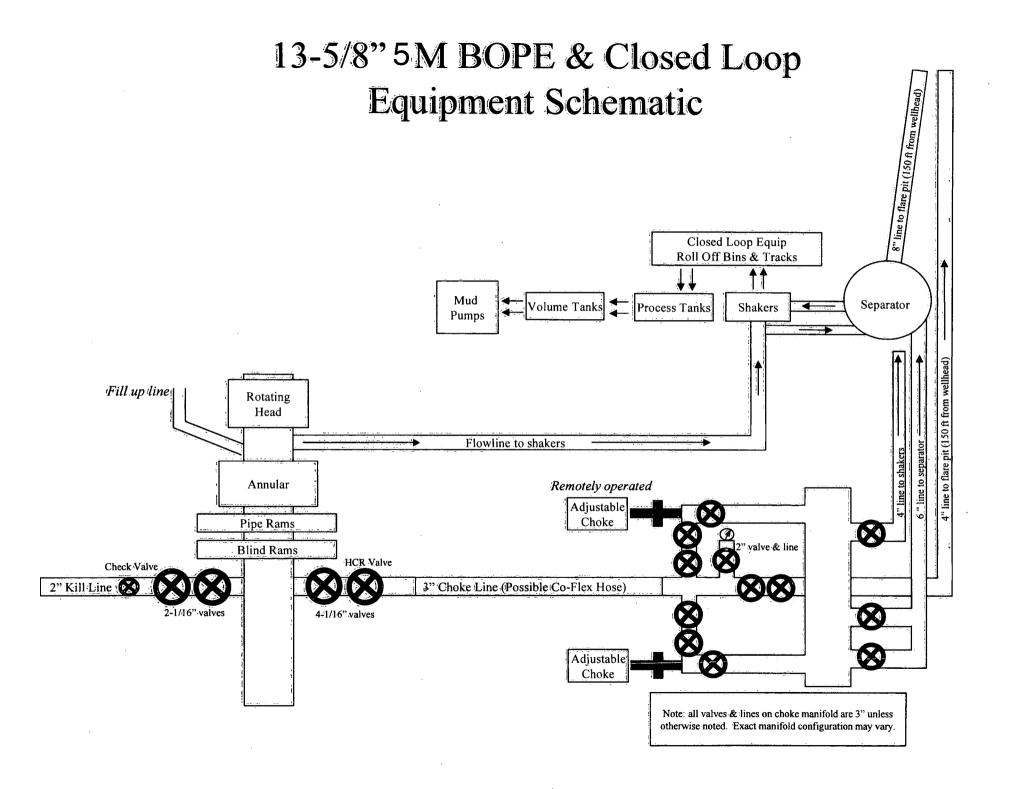
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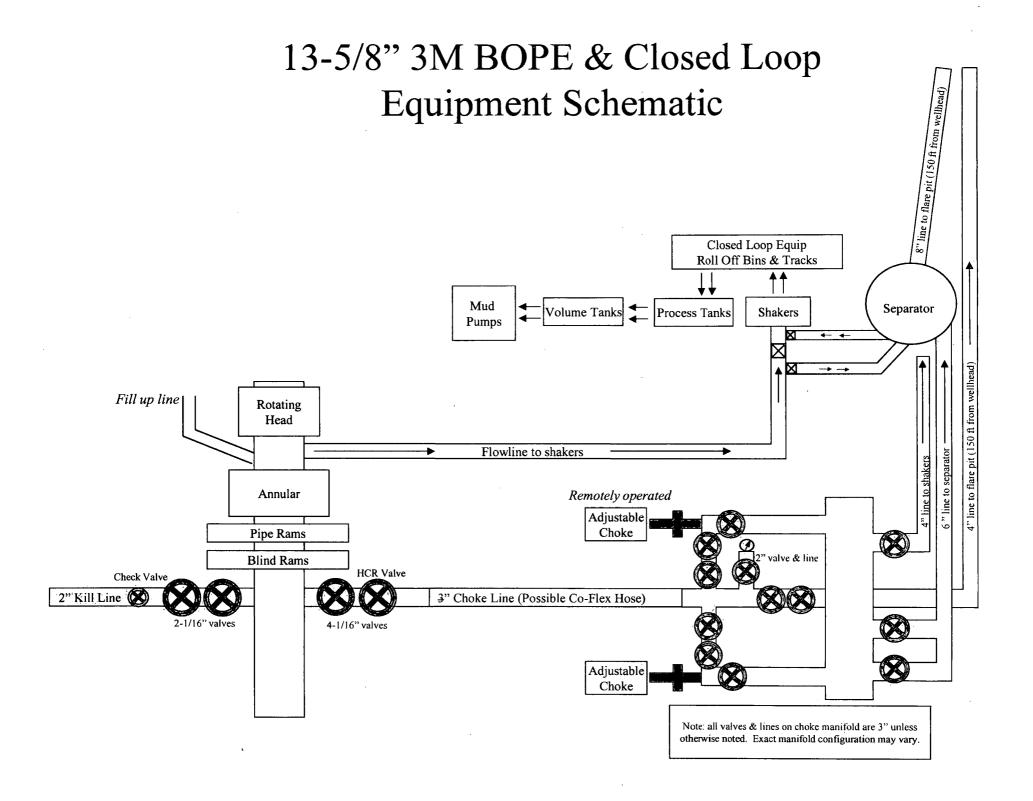
Well Number: 214H

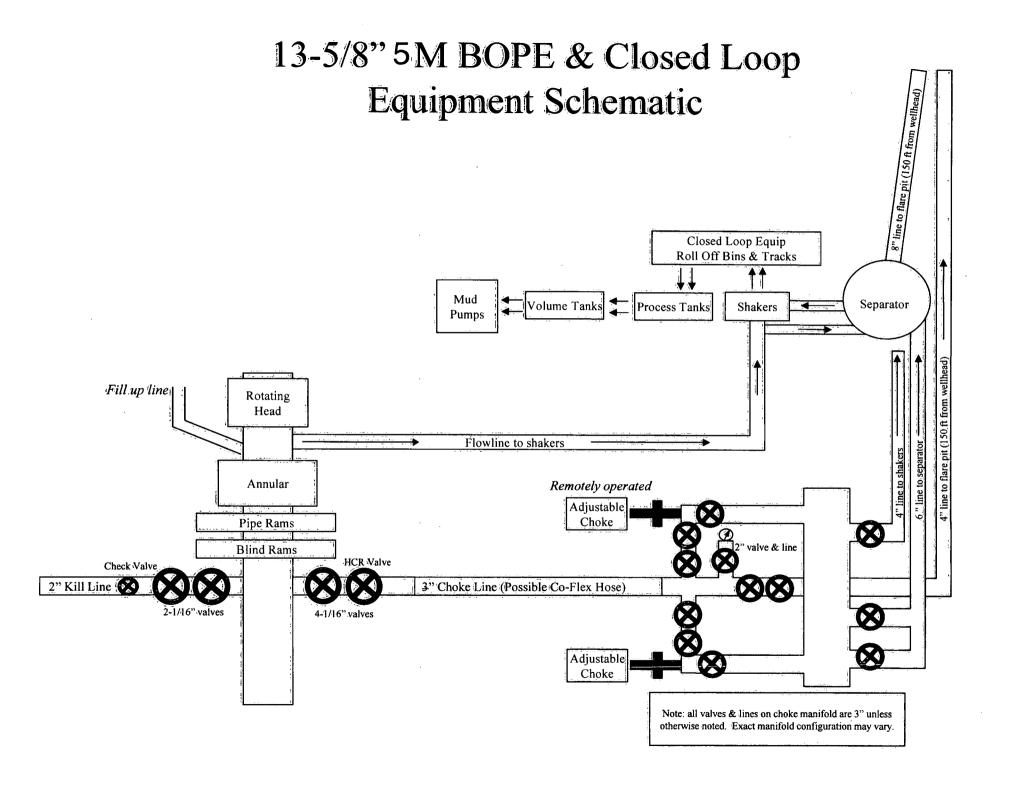
Spudder_Rig_Info_20190426131159.pdf

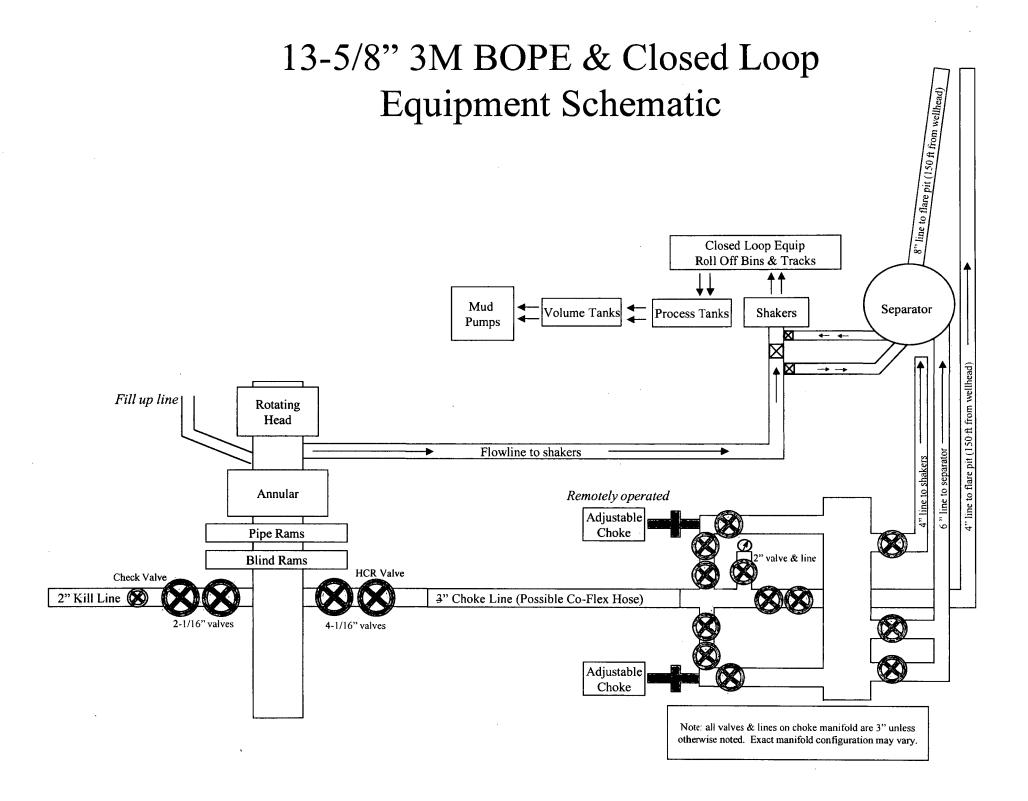
Other Variance attachment:

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				

Casing Assumptions and Load Cases

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

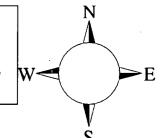
Bora Bora 13-24 Fed Com 214H

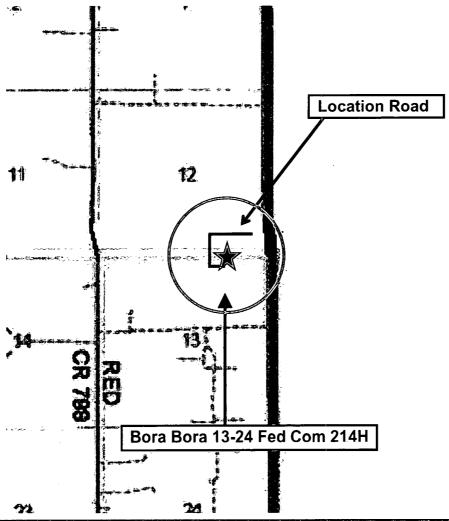
Sec-13 T-23S R-31E 100' FNL & 1210' FEL LAT. = 32.3114209' N (NAD83) LONG = 103.7268752' W

Eddy County NM

Bora Bora 13-24 Fed Com 214H

This is an open drilling site. H₂S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H₂S, including warning signs, wind indicators and H₂S monitor.





Assumed 100 ppm ROE = 3000' (Radius of Exposure))
100 ppm HZS concentration shall tripper extivation 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.

1. Well Control Equipment

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

2. Protective equipment for essential personnel:

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

3. H₂S detection and monitoring equipment:

Portable H₂S monitors positioned on location for best coverage and response. These units have warning lights which activate when H₂S levels reach 10 ppm and audible sirens which activate at 15 ppm. Sensor locations:

- Bell nipple
- Possum Belly/Shale shaker
- Rig floor
- Choke manifold
- Cellar

Visual warning systems:

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

4. Mud program:

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

5. Metallurgy:

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

6. Communication:

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

7. Well testing:

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H₂S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

Drilling Sเ	ipervisor – Basin – Mark Kramer	405-823-4796
EHS Prof	essional – Laura Wright	405-439-8129
<u>Agency</u>	Call List	
Lea	Hobbs	
County	Lea County Communication Authority	393-3981
<u>(575)</u>	State Police	392-5588
	City Police	397-9265
	Sheriff's Office	393-2515
	Ambulance	911
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management	393-3612
Eddy	Carlsbad	
County	State Police	885-3137
<u>(575)</u>	City Police	885-2111
	Sheriff's Office	887-7551
	Ambulance	911
	Fire Department	885-3125
	LEPC (Local Emergency Planning Committee)	887-3798
	US Bureau of Land Management	887-6544
	NM Emergency Response Commission (Santa Fe)	(505) 476-9600
	24 HR	(505) 827-9126
	National Emergency Response Center	(800) 424-8802
	National Pollution Control Center: Direct	(703) 872-6000
	For Oil Spills	(800) 280-7118
	Emergency Services	
	Wild Well Control	(281) 784-4700
	Cudd Pressure Control (915) 699- 0139	(915) 563-3356
	Halliburton	(575) 746-2757
	B. J. Services	(575) 746-3569
Give	Native Air – Emergency Helicopter – Hobbs	(575) 392-6429
GPS	Flight For Life - Lubbock, TX	(806) 743-9911
position:	Aerocare - Lubbock, TX	(806) 747-8923
	Med Flight Air Amb - Albuquerque, NM	(575) 842-4433
	Lifeguard Air Med Svc. Albuquerque, NM	(800) 222-1222
	Poison Control (24/7)	(575) 272-3115
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366
	NOAA – Website - www.nhc.noaa.gov	



Devon Energy

Project: Eddy County, NM (NAD-83)

Site: Bora Bora 13-24

Well: Bora Bora 13-24 Fed Com 214H

#

214H Plan

Com

Fed

Bora 13-24

Bora

Vertical Section at 179.69° (2500 usft/in)

Start Drop -1.00

Start 200.00 hold at 9568.64 MD

Start DLS 10.00 TFO 179.69

KOP (Bora Bora 214H) - 50' FNL, 2170' FEL \$13 FTP (Bora Bora 214H) - 100' FNL, 2170' FEL \$13

Start 9911.49 hold at 10670.96 MD

1500

Wellbore: OH
Design: Plan #1

7500

7500

9000

10500

True Vertical Depth (1500 usft/in)

-2500



9500

10500

3000

-500

Frue Vertical Depth (500 usft/in)

SHL (Bora Bora 214H) - 100' FNL, 1210' FEL S13

-Start-Build-1:00-

Start 5277.90 hold at 3395.37 MD

Azimuths to Grid North True North: -0.32° Magnetic North: 6.54°

Magnetic Field Strength: 48032.8snT Dip Angle: 60.07° Date: 11/20/2018 Model: HDGM PROJECT DETAILS: Eddy County, NM (NAD-83)

Geodetic System: US State Plane 1983

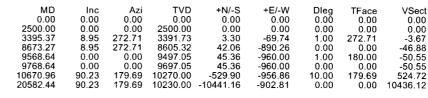
Datum: North American Datum 1983

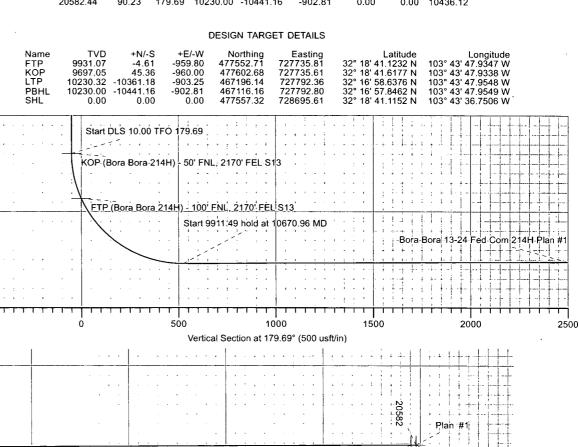
Ellipsoid: GRS 1980

Zone: New Mexico Eastern Zone
Datum: 3506.7' GE + 23.5' KB @ 3530.20usft



SECTION DETAILS





LTP (Bora Bora 214H) - 100' FSL, 2170' FEL \$24

9000

7500

Vertical Section at 179.69° (1500 usft/in)

4500

LEAM DRILLING SERVICES 2010 East Davis, Conroe, Texas 77301 Phone: 936/756-7618, Fax: 936/756-7595

6000

Plan: Plan #1 (Bora Bora 13-24 Fed Com 214H/OH)

12000

Created By: Dustin Ault

PBHL (Bora Bora 214H) - 20' FSL 2170' FEL S24

10500

Date: _____

Date: 9:35, November 20 2018



-1500

Devon Energy

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

Zone: New Mexico Eastern Zone

Well: Bora Bora 13-24 Fed Com 214H System Datum: Mean Sea Level

Wellbore: OH

Design: Plan #1



Azimuths to Grid North True North: -0.32° Magnetic North: 6.54°

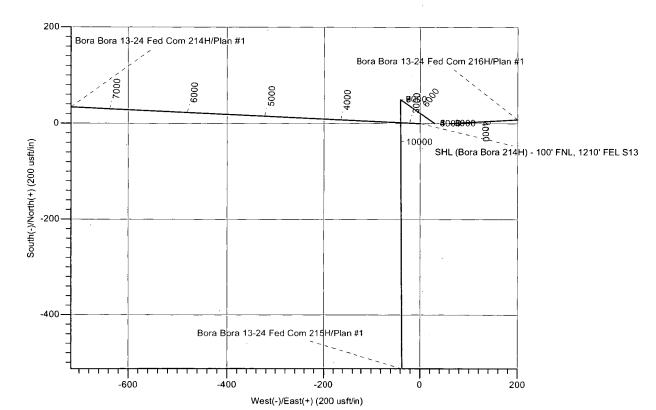
Magnetic Field Strength: 48032.8snT Dip Angle: 60.07° Date: 11/20/2018 Model: HDGM

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP	9931.07	-4.61	-959.80	477552.71	727735.81	32° 18' 41.1232 N	103° 43' 47.9347 W
KOP	9697.05	45.36	-960.00	477602.68	727735.61	32° 18' 41.6177 N	103° 43' 47.9338 W
LTP	10230.32	-10361.18	-903.25	467196.14	727792.36	32° 16′ 58.6376 N	103° 43' 47.9548 W
PBHL	10230.00	-10441.16	-902.81	467116.16	727792.80	32° 16' 57.8462 N	103° 43' 47.9549 W
SHL	0.00	0.00	0.00	477557.32	728695.61	32° 18′ 41.1152 N	103° 43' 36.7506 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+É/-W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.0ŏ	0.00	0.00
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00
3395.37	8.95	272.71	3391.73	3.30	-69.74	1.00	272.71	-3.67
8673.27	8.95	272.71	8605.32	42.06	-890.26	0.00	0.00	-46.88
9568.64	0.00	0.00	9497.05	45.36	-960.00	1.00	180.00	-50.55
9768.64	0.00	0.00	9697.05	45.36	-960.00	0.00	0.00	-50.55
10670.96	90.23	179.69	10270.00	-529.90	-956.86	10.00	179.69	524.72
20582.44	90.23	179.69	10230.00	-10441.16	-902.81	0.00	0.00	10436.12



2000 -2000 KOP (Bora Bora 214H) - 50' FNL, 2170' FEL S13 FTP (Bora Bora 214H) - 100' FNL, 2170' FEL S13 Hard Line: 100' FNL SHL (Bora Bora 214H) - 100' FNL, 1210' FEL S13 -2000 Sec 13 -4000 Sec 24 -8000 10250 -10000 Hard Line. 100' FSL LTP (Bora Bora 214H) - 100' F\$L, 2170' FBL S24 PBHL (Bora Bora 214H) - 20' FSL, 2170' FEL S24 -2000 2000 West(-)/East(+) (2000 usft/in)

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 214H/OH) Date: 9:38. November 20 2018

Created By: Dustin Ault Date:

Devon Energy

Eddy County, NM (NAD-83) Bora Bora 13-24 Bora Bora 13-24 Fed Com 214H

ОН

Plan: Plan #1

Standard Planning Report - Geographic

20 November, 2018

Planning Report - Geographic

Database: EDM 5000.17Multi User Db	Local Co-ordinate Reference	Well Bora Bora 13-24 Fed Com 214H
Company: Devon Energy	TVD Reference:	3506.7' GE + 23.5' KB @ 3530.20usft
Project: Eddy County, NM (NAD-83)	MD Reference:	3506.7' GE + 23.5' KB @ 3530.20usft
Site: Bora Bora 13-24	North Reference:	Grid
Well: Bora Bora 13-24 Fed Com 214H	Survey Calculation Method:	Minimum Curvature
Wellbore: OH	to the first the second	
Design: Plan #1		

Project +	Eddy County, NM (NAD-83)	a .	and the second s	
Map System: Geo Datum: Map Zone:	US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone	System Datum:	Mean Sea Level	

Site	Bora Bora 13	3-24				
Site Position:			Northing:	477,557.32 usft	Latitude:	32° 18′ 41.1152 N
From:	Map		Easting:	728,695.61 usft	Longitude:	103° 43' 36.7506 W
Position Uncertainty:		0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.32 °

Well	Bora Bora 1	3-24 Fed Com 214h	1	and the state of t		
Well Position	+N/-S	0.00 usft	Northing:	477,557.32 usft	Latitude:	32° 18' 41.1152 N
	+E/-W	0.00 usft	Easting:	728,695.61 usft	Longitude:	103° 43′ 36.7506 W
Position Uncertain	nty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,506.70 usft
· —						

Wellbore	ОН				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle	Field Strength
	HDGM	11/20/2018	6.87	60.07	48,033

Design Plan #1				and the second	
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD)	+N/-S	+È/-W	Direction	- A A
	(usft)	(usft)	(usft)	and a O ight Anga	
	0.00	. 0.00	0.00	179.69	

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,395.37	8.95	272.71	3,391.73	3.30	-69.74	1.00	1.00	0.00	272.71	
8,673.27	8.95	272.71	8,605.32	42.06	-890.26	0.00	0.00	0.00	0.00	
9,568.64	0.00	0.00	9,497.05	45.36	-960.00	1.00	-1.00	0.00	180.00	
9,768.64	0.00	0.00	9,697.05	45.36	-960.00	0.00	0.00	0.00	0.00	
10,670.96	90.23	179.69	10,270.00	-529.90	-956.86	10.00	10.00	19.91	179.69	
20,582.44	90.23	179.69	10,230.00	-10,441,16	-902.81	0.00	0.00	0.00	0.00	PBHL (Bora Bora 2

Planning Report - Geographic

Database: EDM 5000.1 Multi User Db Local Co-ordinate Reference: Well Bora Bora 13-24 Fed Com 214H Company: Devon Energy TVD Reference: 3506.7' GE + 23.5' KB @ 3530.20usft Eddy County, NM (NAD-83) Project: MD Reference: 3506.7' GE + 23.5' KB @ 3530.20usft Bora Bora 13-24 Site: North Reference: Grid Survey Calculation Method: Well: Bora Bora 13-24 Fed Com 214H Minimum Curvature Wellbore: ОН

Plan #1

Design:

Planned Survey	/, <u> </u>								
Measured Depth	Inclination	Azimuth	Vertical Depth (usft)	+N/-S	+E/-W	Map Northing (usft)	Map Easting (usft)	and the April of the second	, , , , , , , , , , , , , , , , , , ,
(usft)	(°)	(°)		(usft)	(usft)			Latitude	Longitude
0.00		0.00	0.00	0.00	0.00	477,557.32	728,695.61	32° 18' 41.1152 N	103° 43' 36.7506 W
		. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1210' FEL S13			477.557.00	700 005 04	000 401 44 4450 N	400° 40' 00 7500 W
100.00		0.00	100.00	0.00	0.00	477,557.32	728,695.61	32° 18' 41.1152 N	103° 43' 36.7506 W 103° 43' 36.7506 W
200.00 300.00		0.00	200.00 300.00	0.00 0.00	0.00 0.00	477,557.32 477,557.32	728,695.61 728,695.61	32° 18' 41.1152 N 32° 18' 41.1152 N	103° 43' 36.7506 W
1		0.00 0.00	400.00	0.00	0.00	477,557.32	728,695.61	32° 18' 41.1152 N	103° 43' 36.7506 W
400.00 500.00		0.00	500.00	0.00	0.00	477,557.32	728,695.61	32° 18' 41.1152 N	103° 43' 36.7506 W
600.00		0.00	600.00	0.00	0.00	477,557.32	728,695.61	32° 18' 41.1152 N	103° 43' 36.7506 W
700.00		0.00	700.00	0.00	0.00	477,557.32	728,695.61	32° 18' 41.1152 N	103° 43' 36.7506 W
800.00		0.00	800.00	0.00	0.00	477,557.32	728,695.61	32° 18' 41.1152 N	103° 43' 36.7506 W
900.00		0.00	900.00	0.00	0.00	477,557.32	728,695.61	32° 18' 41.1152 N	103° 43' 36.7506 W
1,000.00		0.00	1,000.00	0.00	0.00	477,557.32	728,695.61	32° 18' 41.1152 N	103° 43' 36.7506 W
1,100.00		0.00	1,100.00	0.00	0.00	477,557.32	728,695.61	32° 18' 41.1152 N	103° 43' 36.7506 W
1,200.00	0.00	0.00	1,200.00	0.00	0.00	477,557.32	728,695.61	32° 18' 41.1152 N	103° 43' 36.7506 W
1,300.00	0.00	0.00	1,300.00	0.00	0.00	477,557.32	728,695.61	32° 18' 41.1152 N	103° 43' 36.7506 W
1,400.00	0.00	0.00	1,400.00	0.00	0.00	477,557.32	728,695.61	32° 18′ 41.1152 N	103° 43' 36.7506 W
1,500.00		0.00	1,500.00	0.00	0.00	477,557.32	728,695.61	32° 18' 41.1152 N	103° 43' 36.7506 W
1,600.00	0.00	0.00	1,600.00	0.00	0.00	477,557.32	728,695.61	32° 18' 41.1152 N	103° 43' 36.7506 W
1,700.00		0.00	1,700.00	0.00	0.00	477,557.32	728,695.61	32° 18' 41.1152 N	103° 43' 36.7506 W
1,800.00		0.00	1,800.00	0.00	0.00	477,557.32	728,695.61	32° 18' 41.1152 N	103° 43' 36.7506 W
1,900.00		0.00	1,900.00	0.00	0.00	477,557.32	728,695.61	32° 18' 41.1152 N	103° 43' 36.7506 W
2,000.00		0.00	2,000.00	0.00	0.00	477,557.32	728,695.61	32° 18' 41.1152 N	103° 43' 36.7506 W
2,100.00		0.00	2,100.00	0.00	0.00	477,557.32	728,695.61	32° 18' 41.1152 N	103° 43' 36.7506 W
2,200.00		0.00	2,200.00	0.00	0.00	477,557.32	728,695.61	32° 18' 41.1152 N	103° 43' 36.7506 W
2,300.00		0.00	2,300.00	0.00	0.00	477,557.32	728,695.61	32° 18' 41.1152 N 32° 18' 41.1152 N	103° 43' 36.7506 W 103° 43' 36.7506 W
2,400.00	0.00 0.00	0.00	2,400.00 2,500.00	0.00 0.00	0.00 0.00	477,557.32 477,557.32	728,695.61 728,695.61	32° 18' 41.1152 N	103° 43' 36.7506 W
2,500.00 2,600.00		272.71	2,599.99	0.00	-0.87	477,557.36	728,694.73	32° 18' 41.1157 N	103° 43' 36.7608 W
2,700.00		272.71	2,699.96	0.16	-3.49	477,557.49	728,692.12	32° 18' 41.1170 N	103° 43' 36.7912 W
2,800.00		272.71	2,799.86	0.37	-7.84	477,557.69	728,687.76	32° 18' 41.1193 N	103° 43′ 36.8420 W
2,900.00		272.71	2,899.68	0.66	-13.94	477,557.98	728,681.66	32° 18' 41.1225 N	103° 43' 36.9130 W
3,000.00		272.71	2,999.37	1.03	-21.78	477,558.35	728,673.83	32° 18′ 41.1266 N	103° 43' 37.0043 W
3,100.00		272.71	3,098.90	1.48	-31.35	477,558.80	728,664.25	32° 18′ 41.1316 N	103° 43' 37.1158 W
3,200.00	7.00	272.71	3,198.26	2.02	-42.66	477,559.34	728,652.95	32° 18′ 41.1375 N	103° 43′ 37.2476 W
3,300.00	8.00	272.71	3,297.40	2.63	-55.70	477,559.95	728,639.91	32° 18' 41.1444 N	103° 43' 37.3994 W
3,395.37	8.95	272.71	3,391.73	3.30	-69.74	477,560.62	728,625.87	32° 18' 41.1517 N	103° 43' 37.5630 W
3,400.00	8.95	272.71	3,396.30	3.33	-70.46	477,560.65	728,625.15	32° 18′ 41.1521 N	103° 43' 37.5714 W
3,500.00	8.95	272.71	3,495.09	4.06	-86.01	477,561.38	728,609.60	32° 18′ 41.1602 N	103° 43' 37.7525 W
3,600.00	8.95	272.71	3,593.87	4.80	-101.55	477,562.12	728,594.05	32° 18′ 41.1684 N	103° 43' 37.9336 W
3,700.00		272.71	3,692.65	5.53	-117.10	477,562.85	728,578.51	32° 18′ 41.1765 N	103° 43′ 38.1147 W
3,800.00	8.95	272.71	3,791.43	6.27	-132.65	477,563.59	728,562.96	32° 18′ 41.1847 N	103° 43' 38.2958 W
3,900.00		272.71	3,890.21	7.00	-148.19	477,564.32	728,547.41	32° 18' 41.1928 N	103° 43' 38.4769 W
4,000.00		272.71	3,988.99	7.74	-163.74	477,565.06	728,531.87	32° 18′ 41.2009 N	103° 43' 38.6580 W
4,100.00	8.95	272.71	4,087.77	8.47	-179.28	477,565.79	728,516.32	32° 18′ 41.2091 N	103° 43' 38.8391 W
4,200.00	8.95	272.71	4,186.56	9.21	-194.83	477,566.53	728,500.78	32° 18' 41.2172 N	103° 43' 39.0202 W
4,300.00		272.71	4,285.34	9.94	-210.38	477,567.26	728,485.23	32° 18′ 41.2253 N	103° 43' 39.2013 W
4,400.00	8.95	272.71	4,384.12	10.67	-225.92	477,568.00	728,469.68	32° 18' 41.2335 N	103° 43' 39.3824 W
4,500.00		272.71	4,482.90	11.41	-241.47 257.02	477,568.73	728,454.14	32° 18' 41.2416 N	103° 43' 39.5635 W 103° 43' 39.7446 W
4,600.00		272.71	4,581.68 4,680.46	12.14	-257.02 272.56	477,569.46 477,570.20	728,438.59 728,423.04	32° 18' 41.2498 N 32° 18' 41.2579 N	103° 43' 39.7446 W
4,700.00 4,800.00		272.71 272.71	4,680.46	12.88 13.61	-272.56 -288.11	477,570.20 477,570.93	728,423.04 728,407.50	32° 18' 41.2660 N	103° 43' 40.1068 W
4,800.00		272.71	4,779.24	14.35	-200.11 -303.65	477,570.93 477,571.67	728,391.95	32° 18′ 41.2742 N	103° 43' 40.2879 W
5,000.00		272.71	4,976.81	15.08	-303.03	477,571.07	728,376.41	32° 18' 41.2823 N	103° 43' 40.4690 W
5,100.00		272.71	5,075.59	15.82	-318.20	477,573.14	728,360.86	32° 18' 41.2904 N	103° 43' 40.6501 W
3,100.00		414.11	0,070.00	10.02	QQ4.10	-771,070.1-7	, 20,000.00	JE 10 11.2005 (4	

Planning Report - Geographic

EDM 5000.1 Multi User Db Database: Devon Energy Company: Eddy County, NM (NAD-83) Project: Site: Bora Bora 13-24 Well:

Wellbore:

Design:

Bora Bora 13-24 Fed Com 214H

OH Plan #1 Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Bora Bora 13-24 Fed Com 214H 3506.7' GE + 23.5' KB @ 3530.20usft 3506.7 GE + 23.5 KB @ 3530.20usft Grid

Minimum Curvature

Pla	nned Survey			· · · · · · · · · · · · · · · · · · ·						
3					100	10 g 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	W 30 7 7 -	Contract		and the state of the
2.	Measured	e, ajv. N	&1	Vertical		San San San	Map	Map		•
	Depth (verft)	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting (ing and the second of the seco	
2.	(usft)	(°)	. (°)	(usft)	્યું (usft)	(usft)	(usft)	(usft)	Latitude	Longitude
	5,200.00	8.95	272.71	5,174.37	16.55	-350.29	477,573.87	728,345.31	32° 18' 41.2986 N	103° 43' 40.8312 W
	5,300.00	8.95	272.71	5,273.15	17.29	-365.84	477,574.61	728,329.77	32° 18' 41.3067 N	103° 43' 41.0123 W
	5,400.00	8.95	272.71	5,371.93	18.02	<i>-</i> 381.39	477,575.34	728,314.22	32° 18' 41.3149 N	103° 43′ 41.1934 W
	5,500.00	8.95	272.71	5,470.71	18.76	-396.93	477,576.08	728,298.67	32° 18' 41.3230 N	103° 43′ 41.3745 W
İ	5,600.00	8.95	272.71	5,569.50	19.49	-412.48	477,576.81	728,283.13	32° 18' 41.3311 N	103° 43′ 41.5556 W
	5,700.00	8.95	272.71	5,668.28	20.22	-428.03	477,577.54	728,267.58	32° 18' 41.3393 N	103° 43′ 41.7367 W
	5,800.00	8.95	272.71	5,767.06	20.96	-443.57	477,578.28	728,252.03	32° 18' 41.3474 N	103° 43′ 41.9178 W
	5,900.00	8.95	272.71	5,865.84	21.69	-459.12 474.00	477,579.01	728,236.49	32° 18' 41.3555 N	103° 43' 42.0989 W
	6,000.00 6,100.00	8,95 8.95	272.71 272.71	5,964.62 6,063.40	22.43	-474.66 400.31	477,579.75	728,220.94	32° 18' 41.3637 N	103° 43′ 42.2800 W
	6,200.00	8.95	272.71	6,162.18	23.16 23.90	-490.21 -505.76	477,580.48 477,581.22	728,205.40 728,189.85	32° 18' 41.3718 N	103° 43′ 42.4611 W
	6,300.00	8.95	272.71	6,260.97	24.63	-505.76	477,581.95	728,174.30	32° 18' 41.3800 N	103° 43' 42.6422 W
ŀ	6,400.00	8.95	272.71	6,359.75	25.37	-536.85	477,582.69	728,174.30	32° 18' 41.3881 N 32° 18' 41.3962 N	103° 43' 42.8233 W 103° 43' 43.0044 W
	6,500.00	8.95	272.71	6,458.53	26.10	-552.40	477,583.42	728,143.21	32° 18' 41.4044 N	103° 43' 43.1855 W
	6,600.00	8.95	272.71	6,557.31	26.84	-567.94	477,584.16	728,127.66	32° 18' 41.4125 N	103° 43' 43.3666 W
l	6,700.00	8.95	272.71	6,656.09	27.57	-583.49	477,584.89	728,112.12	32° 18' 41.4206 N	103° 43' 43.5478 W
	6,800.00	8.95	272.71	6,754.87	28.30	-599.03	477,585.63	728,096.57	32° 18' 41.4288 N	103° 43' 43.7289 W
	6,900.00	8.95	272.71	6,853.65	29.04	-614.58	477,586.36	728,081.03	32° 18′ 41.4369 N	103° 43' 43.9100 W
	7,000.00	8.95	272.71	6,952.44	29.77	-630.13	477,587.09	728,065.48	32° 18′ 41.4451 N	103° 43' 44.0911 W
	7,100.00	8.95	272.71	7,051.22	30.51	-645.67	477,587.83	728,049.93	32° 18′ 41.4532 N	103° 43' 44.2722 W
	7,200.00	8.95	272.71	7,150.00	31.24	-661.22	477,588.56	728,034.39	32° 18' 41.4613 N	103° 43' 44.4533 W
	7,300.00	8.95	272.71	7,248.78	31.98	-676.77	477,589.30	728,018.84	32° 18' 41.4695 N	103° 43' 44.6344 W
	7,400.00	8.95	272.71	7,347.56	32.71	-692.31	477,590.03	728,003.29	32° 18' 41.4776 N	103° 43' 44.8155 W
	7,500.00	8.95	272.71	7,446.34	33.45	-707.86	477,590.77	727,987.75	32° 18′ 41.4857 N	103° 43' 44.9966 W
ļ	7,600.00	8.95	272.71	7,545.12	34.18	-723.41	477,591.50	727,972.20	32° 18′ 41.4939 N	103° 43' 45.1777 W
	7,700.00	8.95	272.71	7,643.91	34.92	-738.95	477,592.24	727,956.65	32° 18′ 41.5020 N	103° 43′ 45.3588 W
	7,800.00	8.95	272.71	7,742.69	35.65	-754.50	477,592.97	727,941.11	32° 18′ 41.5101 N	103° 43' 45.5399 W
	7,900.00	8.95	272.71	7,841.47	36.38	-770.04	477,593.71	727,925.56	32° 18′ 41.5183 N	103° 43' 45.7210 W
	8,000.00	8.95	272.71	7,940.25	37.12	-785.59	477,594.44	727,910.02	32° 18' 41.5264 N	103° 43' 45.9021 W
	8,100.00 8,200.00	8.95	272.71	8,039.03	37.85	-801.14	477,595.17	727,894.47	32° 18' 41.5345 N	103° 43' 46.0832 W
	8,300.00	8.95 8.95	272.71 272.71	8,137.81 8,236.59	38.59 39.32	-816.68 -832.23	477,595.91	727,878.92	32° 18' 41.5427 N	103° 43' 46.2643 W
	8,400.00	8.95	272.71	8,335.38	40.06	-847.78	477,596.64 477,597.38	727,863.38 727,847.83	32° 18' 41.5508 N 32° 18' 41.5590 N	103° 43' 46.4454 W 103° 43' 46.6265 W
ļ	8,500.00	8.95	272.71	8,434.16	40.79	-863.32	477,598.11	727,832.28	32° 18' 41.5671 N	103° 43′ 46.8076 W
	8,600.00	8.95	272.71	8,532.94	41.53	-878.87	477,598.85	727,816.74	32° 18' 41.5752 N	103° 43' 46.9887 W
	8,673.27	8.95	272.71	8,605.32	42.06	-890.26	477,599.39	727,805.35	32° 18' 41.5812 N	103° 43′ 47.1214 W
	8,700.00	8.69	272.71	8,631.73	42.26	-894.35	477,599.58	727,801.25	32° 18' 41.5833 N	103° 43' 47.1691 W
	8,800.00	7.69	272.71	8,730.71	42.93	-908.58	477,600.25	727,787.03	32° 18' 41.5908 N	103° 43' 47.3348 W
	8,900.00	6.69	272.71	8,829.92	43.52	-921.07	477,600.84	727,774.53	32° 18' 41.5973 N	103° 43' 47.4803 W
	9,000.00	5.69	272.71	8,929.34	44.03	-931.84	477,601.35	727,763.77	32° 18′ 41.6029 N	103° 43' 47.6057 W
	9,100.00	4.69	272.71	9,028.93	44.46	-940.87	477,601.78	727,754.74	32° 18′ 41.6077 N	103° 43′ 47.7109 W
	9,200.00	3.69	272.71	9,128.66	44.80	-948.16	477,602:12	727,747.45	32° 18′ 41.6115 N	103° 43' 47.7958 W
	9,300.00	2.69	272.71	9,228.50	45.06	-953.71	477,602.38	727,741.90	32° 18' 41.6144 N	103° 43' 47.8605 W
	9,400.00	1.69	272.71	9,328.43	45.24	-957.52	477,602.56	727,738.09	32° 18' 41.6164 N	103° 43' 47.9049 W
	9,500.00	0.69	272.71	9,428.41	45.34	-959.59	477,602.66	727,736.02	32° 18' 41.6175 N	103° 43′ 47.9290 W
	9,568.64	0.00	0.00	9,497.05	45.36	-960.00	477,602.68	727,735.61	32° 18' 41.6177 N	103° 43' 47.9338 W
	9,600.00	0.00	0.00	9,528.41	45.36	-960.00	477,602.68	727,735.61	32° 18' 41.6177 N	103° 43' 47.9338 W
	9,700.00	0.00	0.00	9,628.41	45.36	-960.00	477,602.68	727,735.61	32° 18' 41.6177 N	103° 43' 47.9338 W
	9,768.64	0.00	0.00	9,697.05	45.36	-960.00	477,602.68	727,735.61	32° 18' 41.6177 N	103° 43' 47.9338 W
j i		ra Bora 214H)			4 4 4	·	ere r <u>ez</u> izete	<u> </u>		
	9,800.00	3.14	179.69	9,728.39	44.50	-960.00	477,601.82	727,735.61	32° 18' 41.6092 N	103° 43' 47.9338 W
	9,850.00	8.14	179.69	9,778.13	39.59	-959.97	477,596.91	727,735.64	32° 18' 41.5606 N	103° 43' 47.9338 W
	9,900.00	13.14	179.69	9,827.26	30.37	-959.92	477,587.69	727,735.69	32° 18' 41.4693 N	103° 43' 47.9338 W
	9,950.00	18.14	179.69	9,875.39	16.90	-959.84	477,574.22	727,735.76	32° 18' 41.3360 N	103° 43' 47.9339 W

Planning Report - Geographic

EDM 5000.1 Multi User Db Database: Company: Devon Energy Project:

Eddy County, NM (NAD-83)

Bora Bora 13-24 Site: Well: Bora Bora 13-24 Fed Com 214H

Wellbore: Design: Plan #1 Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well Bora Bora 13-24 Fed Com 214H 3506.7' GE + 23.5' KB @ 3530.20usft

3506.7' GE + 23.5' KB @ 3530.20usft

Grid

Minimum Curvature

anned Survey									
		у		· · · · · · · · · · · · · · · · · · ·				\$	
Measured Depth	lu alimatian	Autoriália e	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting	e Samuel Sagardigae	in the second
(usft)	Inclination (°)	Azimuth (°)	(usft)	+N/-S (usft)	(usft)	(usft)	(usft)	Latitude	Longitude
10,000.00	23.14	179.69	9,922.17	-0.72	-959.75	477,556.60	727,735.86	32° 18' 41.1617 N	103° 43' 47.933
10,000.00	24.11	179.69	9,931.07	-4.61	-959.73	477,552.71	727,735.88	32° 18′ 41.1232 N	103° 43' 47.9339
			170' FEL S13						
10,050.00	28.14	179.69	9.967.23	-22.34	-959.63	477,534.98	727,735.98	32° 18' 40.9477 N	103° 43' 47.9339
10,100.00	33.14	179.69	10,010.24	-47.81	-959.49	477,509.51	727,736.11	32° 18' 40.6957 N	103° 43′ 47.934
10,150.00	38.14	179.69	10,050.87	-76.94	-959.33	477,480.39	727,736.27	32° 18′ 40.4075 N	103° 43′ 47.934
10,200.00	43.14	179.69	10,088.80	-109.49	-959.16	477,447.83	727,736.45	32° 18' 40.0854 N	103° 43′ 47.934
10,250.00	48.14	179.69	10,123.75	-145.22	-958.96	477,412.10	727,736.65	32° 18' 39.7318 N	103° 43' 47.934
10,300.00	53.14	179.69	10,155.45	-183.86	-958.75	477,373.46	727,736.86	32° 18′ 39.3494 N	103° 43' 47.934
10,350.00	58.14	179.69	10,183.66	-225.12	-958.52	477,332.20	727,737.08	32° 18′ 38.9411 N	103° 43′ 47.934
10,400.00	63.14	179.69	10,208.17	-268.68	-958.29	477,288.64	727,737.32	32° 18' 38.5100 N	103° 43' 47.934
10,450.00	68.14	179.69	10,228.79	-314.22	-958.04	477,243.10	727,737.57	32° 18' 38.0594 N	103° 43' 47.934
10,500.00	73.14	179.69	10,245.37	-361.37	-957.78	477,195.95	727,737.82	32° 18′ 37.5928 N	103° 43' 47.934
10,550.00	78.14	179.69	10,257.77	-409.79	-957.52	477,147.53	727,738.09	32° 18′ 37.1136 N	103° 43' 47.93
10,600.00	83.14	179.69	10,265.90	-459.11	-957.25	477,098.21	727,738.36	32° 18′ 36.6256 N	103° 43′ 47.934
10,650.00	88.14	179.69	10,269.70	-508.95	-956.98	477,048.37	727,738.63	32° 18' 36.1324 N	103° 43′ 47.93
10,670.96	90.23	179.69	10,270.00	-529.90	-956.86	477,027.42	727,738.74	32° 18′ 35.9251 N	103° 43' 47.93
10,700.00	90.23	179.69	10,269.89	-558.94	-956.70	476,998.38	727,738.90	32° 18' 35.6377 N	103° 43' 47.93
10,800.00	90.23	179.69	10,269.48	-658.94	-956.16	476,898.38	727,739.45	32° 18' 34.6481 N	103° 43' 47.93
10,900.00	90.23	179.69	10,269.08	-758.94	-955.61	476,798.38	727,739.99	32° 18' 33.6586 N	103° 43' 47.93
11,000.00	90.23	179.69	10,268.68	-858.94	-955.07	476,698.38	727,740.54	32° 18' 32.6690 N	103° 43' 47.93
11,100.00	90.23	179.69	10,268.27	-958.94	-954.52	476,598.39	727,741.08	32° 18' 31.6795 N	103° 43′ 47.93
11,200.00	90.23	179.69	10,267.87	-1,058.93	-953.98	476,498.39	727,741.63	32° 18' 30.6899 N	103° 43' 47.936
11,300.00	90.23	179.69	10,267.46	-1,158.93	-953.43	476,398.39	727,742.17	32° 18' 29.7004 N	103° 43' 47.936
11,400.00	90.23	179.69	10,267.06	-1,258.93	-952.89	476,298.39	727,742.72	32° 18' 28.7109 N	103° 43' 47.936
11,500.00	90.23	179.69	10,266.66	-1,358.93	-952.34	476,198.39	727,743.26	32° 18' 27.7213 N	103° 43' 47.936
11,600.00	90.23	179.69	10,266.25	-1,458.92	-951.80	476,098.40	727,743.81	32° 18' 26.7318 N	103° 43' 47.936
11,700.00	90.23	179.69	10,265.85	-1,558.92	-951.25	475,998.40	727,744.36	32° 18' 25.7422 N	103° 43' 47.93
11,800.00	90.23	179.69	10,265.45	-1,658.92	-950.71	475,898.40	727,744.90	32° 18' 24.7527 N	103° 43' 47.93
11,900.00	90.23	179.69	10,265.04	-1,758.92	-950.16	475,798.40	727,745.45	32° 18' 23.7631 N	103° 43' 47.93
12,000.00	90.23	179.69	10,264.64	-1,858.91	-949.61	475,698.41	727,745.99	32° 18' 22.7736 N	103° 43' 47.93'
12,100.00	90.23	179.69	10,264.24	-1,958.91	-949.07	475,598.41	727,746.54	32° 18' 21.7840 N	103° 43' 47.93
12,200.00	90.23	179.69	10,263.83	-2,058.91	-948.52	475,498.41	727,747.08	32° 18' 20.7945 N	103° 43' 47.93
12,300.00	90.23	179.69	10,263.43	-2,158.91	-947.98	475,398.41	727,747.63	32° 18′ 19.8049 N	103° 43' 47.93
12,400.00	90.23	179.69	10,263.02	-2,258.91	-947.43	475,298.42	727,748.17	32° 18' 18.8154 N	103° 43' 47.93
12,500.00	90.23	179.69	10,262.62	-2,358.90	-946.89	475,198.42	727,748.72	32° 18' 17.8258 N	103° 43' 47.93
12,600.00	90.23	179.69	10,262.22	-2,458.90	-946.34	475,098.42	727,749.26	32° 18' 16.8363 N	103° 43' 47.93
12,700.00	90.23	179.69	10,261.81	-2,558.90	-945.80	474,998.42	727,749.81	32° 18′ 15.8468 N	103° 43' 47.93
12,800.00	90.23	179.69	10,261.41	-2,658.90	-945.25	474,898.42	727,750.35	32° 18' 14.8572 N	103° 43' 47.939
12,900.00	90.23	179.69	10,261.01	-2,758.89	-944.71	474,798.43	727,750.90	32° 18′ 13.8677 N	103° 43' 47.939
13,000.00	90.23	179.69	10,260.60	-2,858.89	-944.16	474,698.43	727,751.45	32° 18' 12.8781 N	103° 43′ 47.939
13,100.00	90.23	179.69	10,260.20	-2,958.89	-943.62	474,598.43	727,751.99	32° 18′ 11.8886 N	103° 43' 47.939
13,200.00	90.23	179.69	10,259.80	-3,058.89	-943.07	474,498.43	727,752.54	32° 18′ 10.8990 N	103° 43' 47.940
13,300.00	90.23	179.69	10,259.39	-3,158.88	-942.53	474,398.44	727,753.08	32° 18' 9.9095 N	103° 43' 47.940
13,400.00	90.23	179.69	10,258.99	-3,258.88	-941.98	474,298.44	727,753.63	32° 18' 8.9199 N	103° 43' 47.940
13,500.00	90.23	179.69	10,258.59	-3,358.88	-941.43	474,198.44	727,754.17	32° 18' 7.9304 N	103° 43' 47.940
13,600.00	90.23	179.69	10,258.18	-3,458.88	-940.89	474,098.44	727,754.72	32° 18′ 6.9408 N	103° 43' 47.940
13,700.00	90.23	179.69	10,257.78	-3,558.88	-940.34	473,998.45	727,755.26	32° 18′ 5.9513 N	103° 43' 47.94
13,800.00	90.23	179.69	10,257.37	-3,658.87	-939.80	473,898.45	727,755.81	32° 18' 4.9617 N	103° 43' 47.94
13,900.00	90.23	179.69	10,256.97	-3,758.87	-939.25	473,798.45	727,756.35	32° 18′ 3.9722 N	103° 43' 47.94
14,000.00	90.23	179.69	10,256.57	-3,858.87	-938.71	473,698.45	727,756.90	32° 18′ 2.9826 N	103° 43' 47.941
14,100.00	90.23	179.69	10,256.16	-3,958.87	-938.16	473,598.45	727,757.44	32° 18′ 1.9931 N	103° 43' 47.941
14,200.00	90.23	179.69	10,255.76	-4,058.86	-937.62	473,498.46	727,757.99	32° 18′ 1.0035 N	103° 43' 47.942
14,300.00	90.23	179.69	10,255.36	-4,158.86	-937.07	473,398.46	727,758.53	32° 18' 0.0140 N	103° 43′ 47.942

Planning Report - Geographic

EDM 5000.1 Multi User Db Local Co-ordinate Reference: Database: Well Bora Bora 13-24 Fed Com 214H Company: Devon Energy TVD Reference: 3506.7' GE + 23.5' KB @ 3530.20usft Eddy County, NM (NAD-83) Project: MD Reference: .3506.7' GE + 23.5' KB @ 3530.20usft Bora Bora 13-24 Site: North Reference: Grid Bora Bora 13-24 Fed Com 214H Well: Survey Calculation Method: Minimum Curvature Wellbore: OH Design: Plan #1

Jesign:	Plan				<u> </u>				
Planned Survey									
Measured			Vertical	in the second		Map	Map	· Marine Jan 1991	the state of the s
Depth		Azimuth	Depth &	+N/-S	;::, +E/-;W ;;;.	Northing	Easting	Acres 1	
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
14,400.00	90.23	179.69	10,254.95	-4,258.86	-936.53	473,298.46	727,759.08	32° 17' 59.0245 N	103° 43' 47.9425 W
14,500.00	90.23	179.69	10,254.55	-4,358.86	-935.98	473,198.46	727,759.63	32° 17' 58.0349 N	103° 43' 47.9427 W
14,600.00	90.23		10,254.15	-4,458.85	-935.44	473,098.47	727,760.17	32° 17' 57.0454 N	103° 43' 47.9429 W
14,700.00	90.23		10,253.74	-4,558.85	-934.89	472,998.47	727,760.72	32° 17' 56.0558 N	103° 43' 47.9432 V
14,800.00	90.23	179.69	10,253.34	-4,658.85	-934.34	472,898.47	727,761.26	32° 17' 55.0663 N	103° 43′ 47.9434 V
14,900.00	90.23		10,252.93	-4,758.85	-933.80	472,798.47	727,761.81	32° 17' 54.0767 N	103° 43′ 47.9436 V
15,000.00	90.23	179.69	10,252.53	-4,858.85	-933.25	472,698.48	727,762.35	32° 17' 53.0872 N	103° 43′ 47.9438 V
15,100.00	90.23	179.69	10,252.13	-4,958.84	-932.71	472,598.48	727,762.90	32° 17' 52.0976 N	103° 43′ 47.9440 V
15,200.00 15,300.00	90.23 90.23	179.69 179.69	10,251.72 10,251.32	-5,058.84	-932.16	472,498.48	727,763.44	32° 17' 51.1081 N	103° 43' 47.9442 V
15,400.00	90.23	179.69	•	-5,158.84	-931.62	472,398.48 472,298.48	727,763.99	32° 17' 50.1185 N	103° 43' 47.9444 V
15,500.00	90.23	179.69	10,250.92	-5,258.84	-931.07		727,764.53	32° 17' 49.1290 N	103° 43′ 47.9446 V
15,600.00	90.23	179.69	10,250.51 10,250.11	-5,358.83 -5,458.83	-930.53 -929.98	472,198.49	727,765.08	32° 17' 48.1394 N	103° 43' 47.9448 V
15,700.00	90.23	179.69	10,230.11	-5,456.63 -5,558.83	-929.96 -929.44	472,098.49	727,765.62	32° 17' 47.1499 N	103° 43' 47.9450 V
15,800.00	90.23	179.69	10,249.71	-5,658.83	-929.44 -928.89	471,998.49 471,898.49	727,766.17	32° 17′ 46.1603 N	103° 43' 47.9452 V
15,900.00	90.23	179.69	10,249.30	-5,758.82	-928.35		727,766.72 727.767.26	32° 17' 45.1708 N	103° 43' 47.9454 V
16,000.00	90.23	179.69	10,248.50	-5,758.82	-927.80	471,798.50 471,698.50		32° 17' 44.1812 N	103° 43' 47.9456 V
16,100.00	90.23	179.69	10,248.09	-5,958.82	-927.80 -927.26		727,767.81	32° 17' 43.1917 N	103° 43' 47.9458 V
16,200.00	90.23	179.69	10,247.69	-6,058.82	-926.71	471,598.50 471,498.50	727,768.35	32° 17' 42.2021 N	103° 43' 47.9460 V
16,300.00	90.23	179.69	10,247.09	-6,058.82 -6,158.82	-926.71 -926.16	471,496.50	727,768.90	32° 17' 41.2126 N	103° 43' 47.9462 V
16,400.00	90.23	179.69	10,247.28	-6,156.62 -6,258.81	-925.62	471,398.51	727,769.44	32° 17' 40.2231 N	103° 43' 47.9464 V 103° 43' 47.9466 V
16,500.00	90.23	179.69	10,246.48	-6,358.81	-925.02 -925.07	471,198.51	727,769.99	32° 17′ 39.2335 N	
16,600.00	90.23	179.69	10,246.48	-6,458.81	-925.07 -924.53	471,198.51	727,770.53 727,771.08	32° 17' 38.2440 N	103° 43' 47.9468 W
16,700.00	90.23	179.69	10,245.67	-6,558.81	-923.98	470,998.51	727,771.62	32° 17' 37.2544 N 32° 17' 36.2649 N	103° 43' 47.9470 V 103° 43' 47.9472 V
16,800.00	90.23	179.69	10,245.07	-6,658.80	-923.44	470,898.52	727,771.62	32° 17' 35.2753 N	103° 43' 47.9474 V
16,900.00	90.23	179.69	10,244.86	-6,758.80	-922.89	470,798.52	727,772.71	32° 17' 34.2858 N	103° 43' 47.9476 V
17,000.00	90.23	179.69	10,244.46	-6,858.80	-922.35	470,698.52	727,772.71	32° 17' 34.2050 N	103° 43' 47.9478 V
17,100.00	90.23	179.69	10,244.06	-6,958.80	-921.80	470,598.52	727,773.80	32° 17' 32.3067 N	103° 43' 47.9480 W
17,200.00	90.23	179.69	10,243.65	-7,058.79	-921.26	470,498.53	727,774.35	32° 17' 31.3171 N	103° 43' 47.9482 V
17,300.00	90.23	179.69	10,243.25	-7,158.79	-920.71	470,398.53	727,774.90	32° 17' 30.3276 N	103° 43' 47.9484 V
17,400.00	90.23	179.69	10,242.84	-7,258.79	-920.17	470,298.53	727,775.44	32° 17' 29.3380 N	103° 43' 47.9486 W
17,500.00	90.23	179.69	10,242.44	-7,358.79	-919.62	470,198.53	727,775.99	32° 17' 28.3485 N	103° 43' 47.9488 W
17,600.00	90.23	179.69	10,242.04	-7,458.79	-919.07	470,098.53	727,776.53	32° 17' 27.3589 N	103° 43' 47.9490 W
17,700.00	90.23	179.69	10,241.63	-7,558.78	-918.53	469,998.54	727,777.08	32° 17' 26.3694 N	103° 43' 47.9492 W
17,800.00	90.23	179.69	10,241.23	-7,658.78	-917.98	469,898.54	727,777.62	32° 17' 25.3798 N	103° 43' 47.9494 W
17,900.00	90.23	179.69	10,240.83	-7,758.78	-917.44	469,798.54	727,778.17	32° 17' 24.3903 N	103° 43′ 47.9496 V
18,000.00	90.23	179.69	10,240.42	-7,858.78	-916.89	469,698.54	727,778.71	32° 17' 23.4007 N	103° 43′ 47.9498 W
18,100.00	90.23	179.69	10,240.02	-7,958.77	-916.35	469,598.55	727,779.26	32° 17' 22.4112 N	103° 43' 47.9500 W
18,200.00	90.23	179.69	10,239.62	-8,058.77	-915.80	469,498.55	727,779.80	32° 17' 21.4216 N	103° 43' 47.9502 W
18,300.00	90.23	179.69	10,239.21	-8,158.77	-915.26	469,398.55	727,780.35	32° 17' 20.4321 N	103° 43' 47.9504 W
18,400.00	90.23	179.69	10,238.81	-8,258.77	-914.71	469,298.55	727,780.89	32° 17′ 19.4425 N	103° 43' 47.9506 W
18,500.00	90.23	179.69	10,238.41	-8,358.77	-914.17	469,198.56	727,781.44	32° 17' 18.4530 N	103° 43′ 47.9508 W
18,600.00	90.23	179.69	10,238.00	-8,458.76	-913.62	469,098.56			103° 43' 47.9510 W
18,700.00	90.23	179.69							103° 43' 47.9512 W
18,800.00	90.23	179.69	10,237.19	-8,658.76	-912.53	468,898.56	727,783.08		103° 43' 47.9514 W
18,900.00	90.23	179.69	10,236.79	-8,758.76	-911.99	468,798.56	727,783.62	32° 17′ 14.4948 N	103° 43′ 47.9516 V
19,000.00	90.23	179.69	10,236.39	-8,858.75	-911.44	468,698.57	727,784.17	32° 17' 13.5052 N	103° 43′ 47.9518 V
									103° 43′ 47.9520 V
									103° 43′ 47.9522 V
							·		103° 43' 47.9524 V
									103° 43' 47.9526 V
									103° 43' 47.9528 V
									103° 43' 47.9530 V
									103° 43' 47.9532 V
									103° 43' 47.9534 V
18,700.00 18,800.00 18,900.00	90.23 90.23 90.23	179.69 179.69 179.69	10,237.60 10,237.19 10,236.79	-8,558.76 -8,658.76 -8,758.76	-913.08 -912.53 -911.99	468,998.56 468,898.56 468,798.56	727,783.62		103° 43' 47.9 103° 43' 47.9

Planning Report - Geographic

Database: Company: EDM 5000.1 Multi User Db

Devon Energy.

Eddy County, NM (NAD-83)

Project:-Site:

Bora Bora 13-24

Well: Wellbore: Bora Bora 13-24 Fed Com 214H

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 214H

3506.7' GE + 23.5' KB @ 3530.20usft 3506.7' GE + 23.5' KB @ 3530.20usft

Grid

Minimum Curvature

Measured	19 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		Vertical		*	Мар	Map		
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
19,900.00	90.23	179.69	10,232.75	-9,758.73	-906.53	467,798.59	727,789.07	32° 17' 4.5993 N	103° 43' 47.9536 V
20,000.00	90.23	179.69	10,232.35	-9,858.73	-905.99	467,698.59	727,789.62	32° 17' 3.6097 N	103° 43' 47.9538 V
20,100.00	90.23	179.69	10,231.95	-9,958.73	-905.44	467,598.59	727,790.17	32° 17' 2.6202 N	103° 43' 47.9540 V
20,200.00	90.23	179.69	10,231.54	-10,058.73	-904.90	467,498.59	727,790.71	32° 17' 1.6306 N	103° 43' 47.9542 V
20,300.00	90.23	179.69	10,231.14	-10,158.72	-904.35	467,398.60	727,791.26	32° 17' 0.6411 N	103° 43' 47.9544 V
20,400.00	90.23	179.69	10,230.74	-10,258.72	-903.80	467,298.60	727,791.80	32° 16' 59.6515 N	103° 43' 47.9546 V
20,500.00	90.23	179.69	10,230.33	-10,358.72	-903.26	467,198.60	727,792.35	32° 16' 58.6620 N	103° 43' 47.9548 V
LTP (Bora	Bora 214H)	- 100' FSL, 2'	170' FEL S24	engger acons so that a the artist same	and the same of the same of				
20,582,44	90.23	179.69	10,230.00	-10,441.16	-902.81	467,116.16	727,792.80	32° 16' 57.8462 N	103° 43' 47.9549 V

Target Name	· S	4	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	3,	**************************************	*.	**************************************	and the second	
- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (Bora Bora 214H) - - plan hits target cente - Point	0.00 er	0.00	0.00	0.00	0.00	477,557.32	728,695.61	32° 18' 41.1152 N	103° 43 [†] 36.7506 W
KOP (Bora Bora 214H) - - plan hits target cente - Point	0.00 er	0.00	9,697.05	45.36	-960.00	477,602.68	727,735.61	32° 18' 41.6177 N	103° 43' 47.9338 W
FTP (Bora Bora 214H) - - plan misses target o - Point	0.00 enter by 0.07	0.00 usft at 1000	9,931.07 9.71usft MD	-4.61 (9931.07 TVD	-959.80 , -4.61 N, -959	477,552.71 9.73 E)	727,735.81	32° 18′ 41.1232 N	103° 43′ 47.9347 W
PBHL (Bora Bora 214H) - plan hits target cente - Point	0.00 er	0.00	10,230.00	-10, 44 1.16	-902.81	467,116.16	727,792.80	32° 16′ 57.8462 N	103° 43' 47.9549 W
LTP (Bora Bora 214H) - - plan misses target co - Point	0.00 enter by 2.46		10,230.32 0.00usft MD	-10,361.18 (10230.33 TV	-903.25 D, -10358.72 I	467,196.14 N, -903.26 E)	727,792.36	32° 16′ 58.6376 N	103° 43′ 47.9548 W

Devon Energy

Eddy County, NM (NAD-83) Bora Bora 13-24 Bora Bora 13-24 Fed Com 214H

OH Plan #1

Anticollision Report

20 November, 2018

Anticollision Report

Local Co-ordinate Reference: Company: Devon Energy Well Bora Bora 13-24 Fed Com 214H Project: Eddy County, NM (NAD-83) TVD Reference: 3506.7' GE + 23.5' KB @ 3530.20usft Reference Site: Bora Bora 13-24 MD Reference: 3506.7' GE + 23.5' KB @,3530.20usft Site Error: 0.00 usft North Reference: Reference Well: Bora Bora 13-24 Fed Com 214H **Survey Calculation Method:** Minimum Curvature Well Error: 0.00 usft Output errors are at 2.00 sigma EDM 5000.1 Multi User Db Reference Wellbore ОН Database: Offset Datum Plan #1 Offset TVD Reference: Reference Design:

Reference Plan #1 Filter type: NO GLOBAL FILTER: Using user defined selection & filtering criteria **ISCWSA** MD Interval 100.00usft Error Model: Interpolation Method: Closest Approach 3D Depth Range: Scan Method: Results Limited by: Maximum center-center distance of 2,174.65 usft Error Surface: Elliptical Conic 2.00 Sigma Casing Method: Not applied Warning Levels Evaluated at:

Survey Tool Pr	ogram		Date	11/20/2018		*,								
From (usft)		To (usft)	Survey	(Wellbore)		3 * 1 1 .	Tool Name		*	Descrip	*.		*	 .T.
	0.00	20,582.44	Plan #1	(OH)	 	20)	LEAM MWD	HDGM	•	MWD+I	HDGM	 A		

Summary		and a second			ده به دانده چهدیهای در سرخوان معین داند بازگیر بازد بود بود. داده های و به داندهای در سرخوان بازد بازد بازد بازد بازد بازد بازد بازد	
	Reference Measured	Offset Measured	Dista Between	nce Between	Separation	Warning
Site Name Offset Well - Wellbore - Design	Depth (usft)	Depth (usft)	Centres (usft)	Ellipses (usft)	Factor	
Bora Bora 13-24						
Bora Bora 13-24 Fed Com 215H - OH - Plan #1	2,500.00	2,500.30	29.96	19.00	2.733 CC, ES	
Bora Bora 13-24 Fed Com 215H - OH - Plan #1	20,582.44	20,511.39	919.86	575.16	2.669 SF	
Bora Bora 13-24 Fed Com 216H - OH - Plan #1	2,500.00	2,500.40	59.98	49.02	5.472 CC, ES	
Bora Bora 13-24 Fed Com 216H - OH - Plan #1	20,582.44	20,556.49	1,840.21	1,495.23	5.334 SF	

Offset De	sign	Bora Bo	ra 13-24 -	Bora Bora	13-24 F€	ed Com 21	H - OH - Plan	#1					Offset Site Error:	0.00 usfi
Survey Prog		AM MWD+HD	GM							1.5			Offset Well Error:	0.00 usf
Refer	ence .	Offse	et .	Semi Major	Axis				Dista					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset	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	0.30	0.30	0.00	0.00	89.66	0.18	29.96	29.96					
100.00	100.00	100.30	100:30	0.09	0.09	89.66	0.18	29.96	29.96	29.79	0.17	173.563		
200.00	200.00	200.30	200.30	0.31	0.31	89.66	0.18	29.96	29.96	29.34	0.62	48.156		
300.00	300.00	300.30	300.30	0.54	0.54	89.66	0.18	29.96	29.96	28.89	1.07	27.956		
400.00	400.00	400.30	400.30	0.76	0.76	89.66	0.18	29.96	29.96	28.44	1.52	19.695		
500.00	500.00	500.30	500.30	0.99	0.99	89.66	0.18	29.96	29.96	27.99	1.97	15.203		
600.00	600.00	600.30	600.30	1.21	1.21	89.66	0.18	29.96	29.96	27.54	2.42	12.379		
700.00	700.00	700.30	700.30	1.43	1.44	89.66	0.18	29.96	29.96	27.09	2.87	10.440		
800.00	800.00	800.30	800.30	1.66	1.66	89.66	0.18	29.96	29.96	26.64	3.32	9.026		
900.00	900.00	900.30	900.30	1.88	1.88	89.66	0.18	29.96	29.96	26.19	3.77	7.949		
1,000.00	1,000.00	1,000.30	1,000.30	2.11	2.11	89.66	0.18	29.96	29.96	25.74	4.22	7.102		
1,100.00	1,100.00	1,100.30	1,100.30	2.33	2.33	89.66	0.18	29.96	29.96	25.29	4.67	6.418		
1,200.00	1,200.00	1,200.30	1,200.30	2.56	2.56	89.66	0.18	29.96	29.96	24.84	5.12	5.855		
1,300.00	1,300.00	1,300.30	1,300.30	2.78	2.78	89.66	0.18	29.96	29.96	24.39	5.57	5.382		
1,400.00	1,400.00	1,400.30	1,400.30	3.01	3.01	89.66	0.18	29.96	29.96	23.94	6.02	4.980		
1,500.00	1,500.00	1,500.30	1,500.30	3.23	3.23	89.66	0.18	29.96	29.96	23.49	6.47	4.634		
1,600.00	1,600.00	1,600.30	1,600.30	3.46	3.46	89.66	0.18	29.96	29.96	23.04	6.92	4.332		
1,700.00	1,700.00	1,700.30	1,700.30	3.68	3.68	89.66	0.18	29.96	29.96	22.60	7.37	4.068		
1,800.00	1,800.00	1,800.30	1,800.30	3.91	3.91	89.66	0.18	29.96	29.96	22.15	7.81	3.834		
1,900.00	1,900.00	1,900.30	1,900.30	4.13	4.13	89.66	0.18	29.96	29.96	21.70	8.26	3.625		
2,000.00	2,000.00	2,000.30	2,000.30	4.36	4.36	89.66	0.18	29.96	29.96	21.25	8.71	3.438		
2,100.00	2,100.00	2,100.30	2,100.30	4.58	4.58	89.66	0.18	29.96	29.96	20.80	9.16	3.270		
2,200.00	2,200.00	2,200.30	2,200.30	4.81	4.81	89.66	0.18	29.96	29.96	20.35	9.61	3.117	•	

Anticollision Report

Company: Project: Reference Site:

Site Error:

Devon Energy Eddy County, NM (NAD-83)

Bora Bora 13-24

0.00 usft

Reference Well: Bora Bora 13-24 Fed Com 214H

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 214H

3506.7' GE + 23.5' KB @ 3530.20usft 3506.7' GE + 23.5' KB @ 3530.20usft

Grid

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

Offset Datum

	sign	- continue and a cont	ora 13-24											ั 0.00 น
	ram: 0-LE			المناج بالزاه		7. E. G.	·戴莱 · · · ·	V 4.8 1 2			34 11 41		Offset Well Error:	0.00 u
Refer easured		Offs		Semi Major		Makada			Dist	ance				
Depth (usft)	Depth	Depth	Vertical Depth (usft)	Reference (usft)	(usft)	Highside Toolface	Offset Wellborn	+E/-W	Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	er in t
			****			· (°)	(usft)		(usft)	(usft)	(usft)		· · · · · · · · · · · · · · · · · · ·	
2,300.00	2,300.00	2,300.30	2,300.30	5.03	5.03	89.66	0.18	29.96	29.96	19.90	10.06	2.977		
2,400.00	2,400.00	2,400.30	2,400.30	5.26	5.26	89.66	0.18	29.96	29.96	19.45	10.51	2.850		
2,500.00	2,500.00	2,500.30	2,500.30	5.48	5.48	89.66	0.18	29.96	29.96	19.00	10.96	2.733 (CC, ES	
2,600.00	2,599.99	2,600.29	2,600.29	5.69	5.71	177.04	0.18	29.96	30.83	19.43	11.40	2.705		
2,700.00	2,699.96	2,700.26	2,700.26	5.89	5.93	177.27	0.18	29.96	33.45	21.63	11.82	2.829		
2,800.00	2,799.86	2,800.16	2,800.16	6.10	6.16	177.58	0.18	29.96	37.80	25.56	12.25	3.087		
2,900.00	2,899.68	2,899.98	2,899.98	6.30	6.38	177.91	0.18	29.96	43.90	31.23	12.67	3.464		
3,000.00	2,999.37	2,999.67	2,999.67	6.51	6.60	178.23	0.18	29.96	51.75	38.64	13.10	3.950		
3,100.00	3,098.90	3,099.20	3,099.20	6.73	6.83	178.50	0.18	29.96	61.33	47.79	13.53	4.532		
3,200.00	3,198.26	3,198.56	3,198.56	6.96	7.05	178.73	0.18	29.96	72.64	58.68	13.96	5.203		
3,300.00	3,297.40	3,297.70	3,297.70	7.19	7.27	178.92	0.18	29.96	85.69	71.30	14.40	5.953		
3,400.00	3,396.30	3,396.60	3,396.60	7.43	7.50	179.08	0.18	29.96	100.47	85.64	14.83	6.774		
3,500.00	3,495.09	3,495.39	3,495.39	7.69	7.72	179.20	0.18	29.96	116.03	100.77	15.27	7.601		
3,600.00	3,593.87	3,594.17	3,594.17	7.95	7.94	179.30	0.18	29.96	131.59	115.89	15.70	8.381		
3,700.00	3,692.65	3,692.95	3,692.95	8.21	8.16	179.37	0.18	29.96	147.16	131.02	16.14	9.117		
3,800.00	3,791.43	3,791.73	3,791.73	8.48	8.38	179.43	0.18	29.96	162.72	146.14	16.58	9.814		
2 000 00	2 000 04	2 000 5	2.000.54			,=a .a			,					
3,900.00	3,890.21	3,890.51	3,890.51	8.76	8.61	179.48	0.18	29.96	178.28	161.26	17.02	10.473		
4,000.00	3,988.99	3,989.29	3,989.29	9.04	8.83	179.52	0.18	29.96	193.85	176.38	17.47	11.098		
4,100.00	4,087.77	4,088.07	4,088.07	9.32	9.05	179.56	0.18	29.96	209.41	191.50	17.91	11.691		
4,200.00 4,300.00	4,186.56	4,186.86	4,186.86	9.61	9.27	179.59	0.18	29.96	224.97	206.61	18.36	12.255		
4,300.00	4,285.34	4,285.64	4,285.64	9.90	9.49	179.62	0.18	29.96	240.54	221.73	18.81	12.791		
4,400.00	4,384.12	4,384.42	4,384.42	10.19	9.72	179.64	0.18	29.96	256.10	236.84	19.25	13.301		
4,500.00	4,482.90	4,483.20	4,483.20	10.49	9.94	179.66	0.18	29.96	271.66	251.96	19.70	13.788		
4,600.00	4,581.68	4,581.98	4,581.98	10.79	10.16	179.68	0.18	29.96	287.23	267.07	20.15	14,251		
4,700.00	4,680.46	4,680.76	4,680.76	11.09	10.38	179.69	0.18	29.96	302.79	282.18	20.61	14.694		
4,800.00	4,779.24	4,779.54	4,779.54	11.40	10.60	179.71	0.18	29.96	318.35	297.29	21.06	15.118		
			.,				• • • • • • • • • • • • • • • • • • • •		0.0.00	207.20	21.00	10.110		
4,900.00	4,878.03	4,878.33	4,878.33	11.70	10.83	179.72	0.18	29.96	333.92	312.40	21.51	15.523		
5,000.00	4,976.81	4,977.11	4,977.11	12.01	11.05	179.74	0.18	29.96	349.48	327.51	21.97	15.910		
5,100.00	5,075.59	5,080.18	5,080.17	12.32	11.28	179.70	0.50	29.50	364.60	342.17	22.43	16.254		
5,200.00	5,174.37	5,184.94	5,184.90	12.63	11.50	179.51	1.90	27.52	378.24	355.35	22.89	16.523		
5,300.00	5,273.15	5,289,87	5,289.75	12.94	11.73	179.18	4.41	23.98	390.37	367.02	23.35	16.719		
5 400 00	5.074.00													
5,400.00	5,371.93	5,389.18	5,388.94	13.26	11.94	178.82	7.28	19.92	401.80	378.00	23.80	16.885		
5,500.00	5,470.71	5,488.50	5,488.13	.13.57	12.15	178.48	10.14	15.87	413.25	389.00	24.24	17.045		
5,600.00	5,569.50	5,587.81	5,587.32	13.89	12.37	178.16	13.01	11.82	424.71	400.02	24.69	17.199		
5,700.00 5,800.00	5,668.28 5,767.06	5,687.13	5,686.51	14.21	12.59	177.85	15.87	7.77	436.18	411.04	25.14	17.347		
3,000.00	0,707.00	5,786.44	5,785.70	14.53	12.80	177.57	18.74	3.71	447.67	422.07	25.60	17.490		
5,900.00	5,865.84	5,885.75	5,884.88	14.85	13.02	177.29	21.60	-0.34	459.16	433.12	26.05	17.627		
6,000.00	5,964.62	5,985.07	5,984.07	15.17	13.24	177.03	24.47	-4.39	470.67	444.17	26.50	17.760		
6,100.00	6,063.40	6,084.38	6,083.26	15.49	13.46	176.78	27.34	-8.44	482.18	455.23	26.96	17.887		
6,200.00	6,162.18	6,183.69	6,182.45	15.81	13.68	176.54	30.20	-12.49	493.71	466.30	27.41	18.010		
6,300.00	6,260.97	6,283.01	6,281.64	16.14	13.90	176.32	33.07	-16.55	505.24	477.37	27.87	18.129		
	•													
6,400.00	6,359.75	6,382.32	6,380.83	16.46	14.12	176.10	35.93	-20.60	516.78	488.45	28.33	18.244		
6,500.00	6,458.53	6,481.63	6,480.02	16.78	14.34	175.89	38.80	-24.65	528.32	499.54	28.78	18.355		
6,600.00	6,557.31	6,580.95	6,579.21	17.11	14.56	175.69	41.66	-28.70	539.88	510.63	29.24	18.462		
6,700.00	6,656.09	6,680.26	6,678.40	17.44	14.78	175.50	44.53	-32.75	551.43	521.73	29.70	18.565		
6,800.00	6,754.87	6,774.93	6,772.96	17.76	14.98	175.35	47.08	-36.37	563.26	533.12	30.14	18.689		
											- "			
6,900.00	6,853.65	6,866.80	6,864.78	18.09	15.15	175.29	48.76	-38.74	576.28	545.74	30.54	18.867		
7,000.00	6,952.44	6,958.35	6,956.32	18.42	15.32	175.32	49.58	-39.90	590.57	559.63	30.94	19.089		
7,100.00	7,051.22	7,053.54	7,051.52	18.74	15.49	175.43	49.68	-40.04	605.94	574.59	31.35	19.328		
7,200.00	7,150.00	7,152.32	7,150.30	19.07	15.70	175.54	49.68	-40.04	621.45	589.65	31.80	19.542		
7,300.00	7,248.78	7,251.10	7,249.08	19.40	15.92	175.65	49.68	-40.04	636.97	604.71	32.26	19.743		
									,					
7,400.00	7,347.56	7,349.89	7,347.86	19.73	16.14	175.75	49.68				32.73	19.938		

Anticollision Report

Devon Energy Company: Local Co-ordinate Reference: Well Bora Bora 13-24 Fed Com 214H 3506.7' GE +.23.5' KB @ 3530.20usft. Project: Eddy County, NM (NAD-83) TVD Reference: Bora Bora 13-24 3506.7' GE + 23.5' KB @ 3530.20usft Reference Site: MD Reference: North Reference: Grid 0.00 usft Site Error: Reference Well: Bora Bora 13-24 Fed Com 214H Survey Calculation Method: Minimum Curvature Well Error: 0.00 usft Output errors are at 2.00 sigma EDM 5000.1 Multi User Db Reference Wellbore Database: Reference Design: Plan #1 Offset TVD Reference: Offset Datum

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ırvey Prog ≅≪Refer		AM MWD+HD	GM et	Semi Major	Avie	Same and			Dista	ınce	\$1.00		Offset Well Error:	0.00 us
easured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	_ '			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	• .	•	5 34
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
7,500.00	7,446.34	7,448.67	7,446.64	20.06	16.36	175.85	49.68	-40.04	668.02	634.83	33.19	20.128		
7,600.00	7,545.12	7,547.45	7,545.42	20.39	16.59	175.95	49.68	-40.04	683.54	649.89	33.65	20.313		
7,700.00	7,643.91	7,646.23	7,644.21	20.72	16.81	176.04	49.68	-40.04	699.07	664.95	34.11	20.492		
7,800.00	7,742.69	7,745.01	7,742.99	21.05	17.03	176.12	49.68	-40.04	714.60	680.02	34.58	20.666		
7,900.00	7,841.47	7,843.79	7,841.77	21.38	17.25	176.21	49.68	-40.04	730.13	695.08	35.04	20.836		
8,000.00	7,940.25	7,942.57	7,940.55	21.71	17.47	176.28	49.68	-40.04	745.66	710.15	35.51	21.001		
8,100.00	8,039.03	8,041.36	8,039.33	22.04	17.69	176.36	49.68	-40.04	761.19	725.22	35.97	21.162		
8,200.00	8,137.81	8,140.14	8,138.11	22.38	17.91	176.43	49.68	-40.04	776.72	740.29	36.43	21.318		
8,300.00	8,236.59	8,238.92	8,236.89	22.71	18.13	176.50	49.68	-40.04	792.26	755.36	36.90	21.471		
8,400.00	8,335.38	8,337.70	8,335.68	23.04	18.35	176.57	49.68	-40.04	807.79	770.43	37.36	21.619		
8,500.00	8,434.16	8,436.48	8,434.46	23.37	18.57	176.64	49.68	-40.04	823.33	785.50	37.83	21.764		
					40.70	470.70	40.00	40.04	000.07	000 57	20.20	24.005		
8,600.00	8,532.94	8,535.26	8,533.24	23.71	18.79	176.70	49.68	-40.04 40.04	838.87	800.57	38.30	21.905		
8,700.00	8,631.73	8,634.05	8,632.03	24.03	19.01	176.76	49.68 49.68	-40.04 -40.04	854.35 868.56	815.59 829.38	38.76 39.18	22.045 22.169		
8,800.00 8,900.00	8,730.71 8,829.92	8,733.03 8,832.25	8,731.01 8,830.22	24.27 24.51	19.24 19.46	176.82 176.87	49.68 49.68	-40.04 -40.04	881.05	841.45	39.60	22.169		
9,000.00	8,929.34	8,931.66	8,929.64	24.73	19.46	176.92	49.68	-40.04	891.81	851.79	40.02	22.284		
3,000.00	0,525.34	0,001.00	0,020.04	27.73	,5.00	,, 5.52	40.00	70.04	301.01	501.10	-10.02			
9,100.00	9,028.93	9,031.25	9,029.23	24.93	19.90	176.95	49.68	-40.04	900.84	860.40	40.44	22.277		
9,200.00	9,128.66	9,130.98	9,128.96	25.13	20.13	176.98	49.68	-40.04	908.13	867.28	40.85	22.230		
9,300.00	9,228.50	9,230.83	9,228.80	25.31	20.35	177.00	49.68	-40.04	913.68	872.42	41.26	22.143		
9,400.00	9,328.43	9,330.75	9,328.73	25.49	20.57	177.02	49.68	-40.04	917.49	875.82	41.67	22.018		
9,500.00	9,428.41	9,430.73	9,428.71	25.65	20.80	177.02	49.68	-40.04	919.56	877.49	42.07	21.856		
9,600.00	9,528.41	9,530.73	9,528.71	25.80	21.02	89.73	49.68	-40.04	919.97	877.49	42.48	21.656		
9,700.00	9,628.41	9,630.73	9,628.71	25.97	21.02	89.73	49.68	-40.04	919.97	877.06	42.91	21.442		
9,800.00	9,728.39	9,730.69	9,728.65	26.14	21.46	-89.96	48.81	-40.04	919.97	876.65	43.32	21.238		
9,900.00	9,827.26	9,830.57	9,827.39	26.29	21.63	-89.95	34.66	-39.96	919.97	876.32	43.65	21.075		
10,000.00	9,922.17	9,930.44	9,922.18	26.44	21.80	-89.95	3.60	-39.79	919.97	876.00	43.97	20.925		
	·	,												
10,100.00	10,010.24	10,030.31	10,010.14	26.58	21.95	-89.95	-43.43	-39.53	919.97	875.68	44.29	20.773		
10,200.00	10,088.80	10,130.18	10,088.61	26.73	22.10	-89.96	-105.00	-39.20	919.97	875.31	44.66	20.601		
10,300.00	10,155.45	10,230.06	10,155.22	26.90	22.29	-89.96	-179.26	-38.80	919.97	874.85	45.12	20.389		
10,400.00	10,208.17	10,329.95	10,207.95	27.10	22.57	-89.96	-263.95	-38.33	919.97	874.24	45.72	20.120		
10,500.00	10,245.37	10,429.86	10,245.19	27.36	22.95	-89.97	-356.51	-37.83	919.96	873.47	46.49	19.788		
10,600.00	10,265.90	10,529.78	10,265.81	27.69	23.41	-89.98	-454.15	-37.30	919.96	872.53	47.43	19.395		
10,700.00	10,269.89	10,629.74	10,269.91	28.12	23.97	-89.98	-553.94	-36.76	919.96	871.41	48.55	18.950		
10,800.00	10,269.48	10,729.74	10,269.61	28.64	24.61	-89.99	-653.94	-36.21	919.96	870.13	49.83	18.461		
10,900.00	10,269.08	10,829.74	10,269.30	29.25	25.34	-90.00	-753.94	-35.67	919.96	868.66	51,30	17.934		
11,000.00	10,268.68	10,929.74	10,269.00	29.94	26.15	-90.00	-853.93	-35.13	919.96	867.03	52.92	17.383		
						_								
11,100.00	10,268.27	11,029.74	10,268.70	30.71	27.04	-90.01	-953.93	-34.58	919.95	865.25	54.70	16.818		
11,200.00	10,267.87	11,129.74	10,268.39	31.55	27.99	-90.01	-1,053.93	-34.04	919.95	863.34	56.61	16.251		
11,300.00		11,229.74	10,268.09	32.46	29.01	-90.02	-1,153.93	-33.49	919.95	861.31	58.64	15.688		
	10,267.06	11,329.74		33.43	30.08	-90.03	-1,253.93	-32.95	919.95	859.17	60.78	15.135		
11,500.00	10,266.66	11,429.74	10,267.49	34.44	31.20	-90.03	-1,353.92	-32.41	919.95	856.93	63.02	14.598		
11,600.00	10,266.25	11,529.74	10,267.18	35.51	32.37	-90.04	-1,453.92	-31.86	919.95	854.60	65.35	14.078		
11,700.00	10,265.85	11,629.74	10,266.88	36.62	33.57	-90.05	-1,553.92	-31.32	919.95	852.19	67.75	13.578		
11,800.00	10,265.45	11,729.74	10,266.58	37.78	34.81	-90.05	-1,653.92	-30.78	919.94	849.72	70.23	13.099		
11,900.00	10,265.04	11,829.74	10,266.28	38.96	36.08	-90.06	-1,753.92	-30.23	919.94	847.17	72.77	12.642		
12,000.00		11,929.74	10,265.97	40.18	37.38	-90.06	-1,853.91	-29.69	919.94	844.58	75.37	12.206		
,	-,		,				,	*	'					
12,100.00	10,264.24	12,029.74	10,265.67	41.43	38.71	-90.07	-1,953.91	-29.14	919.94	841.93	78.01	11.792		
12,200.00	10,263.83	12,129.74	10,265.37	42.71	40.06	-90.08	-2,053.91	-28.60	919.94	839.23	80.71	11.398		
12,300.00	10,263.43	12,229.74	10,265.07	44.01	41.43	-90.08	-2,153.91	-28.06	919.94	836.49	83.45	11.024		
12,400.00	10,263.02	12,329.74	10,264.76	45.33	42.82	-90.09	-2,253.91	-27.51	919.94	833.71	86.22	10.670		
12,500.00	10,262.62	12,429.74	10,264.46	46.67	44.23	-90.10	-2,353.90	-26.97	919.93	830.90	89.03	10.333		

Anticollision Report

Company:
Project:
Reference Site:
Site Error:
Reference Well:

Reference Wellbore

Reference Design:

Well Error:

Devon-Energy Eddy County, NM (NAD-83)

Bora Bora 13-24

0.00 usft

Bora Bora 13-24 Fed Com 214H

0.00 usft

OH Plan #1 Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Offset TVD Reference:

Well Bora Bora 13-24 Fed Com 214H

3506.7' GE + 23.5' KB @ 3530.20usft 3506.7' GE + 23.5' KB @ 3530.20usft

Grid

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

Offset Datum

Offset De	sign	Bora Bo	ora 13-24 -	- Bora Bora	13-24 F	ed Com 21	5H - OH - Plan #	ř1		Ariabaya garifi da inga	-		Offset Site Error:	0.00 usft
Survey Progr Refere		AM MWD+HC	OGM	Semi Major	Axis	, 3			Dist	ance	y, i,		Offset Well Error:	0.00 usft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor		Between	Between	Minimum	Separation	Warning	. 44 .
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
12,700.00	10,261.81	12,629.74	10,263.85	49.41	47.09	-90.11	-2,553.90	-25.88	919.93	825.19	94.74	9.710		
12,800.00	10,261.41	12,729.74	10,263.55	50.81	48.54	-90.11	-2,653.90	-25.34	919.93	822.30	97.63	9.422		
12,900.00	10,261.01	12,829.74	10,263.25	52.22	50.00	-90.12	-2,753.90	-24.79	919.93		100.55	9.149		
13,000.00 13,100.00	10,260.60 10,260.20	12,929.74	10,262.95	53.64	51.47	-90.13	-2,853.90	-24.25	919.93		103.49	8.889		
13,100.00	10,259.80	13,029.74 13,129.74	10,262.64 10,262.34	55.07 56.52	52.95 54.44	-90.13 -90.14	-2,953.89 -3,053.89	-23.71 -23.16	919.93 919.92	813.48 810.50	106.45 109.43	8.642 8.407		
10,200.00	10,200.00	10,120.14	10,202.04	00.02	04.44	-30.14	-5,035,03	-23.10	819.52	810.30	105.43	0.407		
13,300.00	10,259.39	13,229.74	10,262.04	57.97	55.94	-90.15	-3,153.89	-22.62	919.92		112.42	8.183		
13,400.00	10,258.99	13,329.74	10,261.74	59.44	57.45	-90.15	-3,253.89	-22.07	919.92	804.49	115.43	7.969		
13,500.00 13,600.00	10,258.59 10,258.18	13,429.73 13,529.73	10,261.43	60.91	58.96	-90.16	-3,353.89	-21.53	919.92	801.46	118.46	7.766		
13,700.00	10,256.18	13,629.73	10,261.13 10,260.83	62.39 63.88	60.48 62.01	-90.17 -90.17	-3,453.88 -3,553.88	-20.99 -20.44	919.92 919.92	798.42 795.37	121.50 124.55	7.572		
10,100.00	10,257.10	. 10,020.10	10,200.03	03.00	02.01	-30.17	-3,333.66	-20.44	313.32	195.51	124.55	7.386		
13,800.00	10,257.37	13,729.73	10,260.53	65.38	63.54	-90.18	-3,653.88	-19.90	919.92	792.31	127.61	7.209		
13,900.00	10,256.97	13,829.73	10,260.22	66.89	65.08	-90.18	-3,753.88	-19.36	919.92	789.24	130.68	7.040		
14,000.00	10,256.57	13,929.73	10,259.92	68.40	66.62	-90.19	-3,853.88	-18.81	919.91	786.15	133.76	6.877		
14,100.00	10,256.16	14,029.73	10,259.62	69.91	68.17	-90.20	-3,953.87	-18.27	919.91	783.06	136.85	6.722		
14,200.00	10,255.76	14,129.73	10,259.31	71.43	69.72	-90.20	-4,053.87	-17.72	919.91	779.96	139.95	6.573		
14,300.00	10,255.36	14,229.73	10,259.01	72.96	71.27	-90.21	-4,153.87	-17.18	919.91	776.85	143.06	6.430		
14,400.00	10,254.95	14,329.73	10,258.71	74.49	72.83	-90.22	-4,253.87	-16.64	919.91	773.74	146.17	6.293		
14,500.00	10,254.55	14,429.73	10,258.41	76.03	74.39	-90.22	-4,353.87	-16.09	919.91	770.61	149.30	6.162		
14,600.00	10,254.15	14,529.73	10,258.10	77.57	75.96	-90.23	-4,453.86	-15.55	919.91	767.48	152.42	6.035		
14,700.00	10,253.74	14,629.73	10,257.80	79.11	77.53	-90.23	-4,553.86	-15.01	919.91	764.35	155.56	5.914		
14,800.00	10,253.34	14,729.73	10,257.50	80.66	79.10	-90.24	-4,653.86	-14.46	919.91	761.21	158.70	5.797		
14,900.00	10,252.93	14,829.73	10,257.20	82.21	80.67	-90.25	-4,753.86	-13.92	919.90	758.06	161.85	5.684		
15,000.00	10,252.53	14,929.73	10,256.89	83.77	82.25	-90.25	-4,853.86	-13.37	919.90	754.91	165.00	5.575		
15,100.00	10,252.13	15,029.73	10,256.59	85.32	83.83	-90.26	-4,953.85	-12.83	919.90	751.75	168.15	5.471		
15,200.00	10,251.72	15,129.73	10,256.29	86.88	85.41	-90.27	-5,053.85	-12.29	919.90	748.59	171.31	5.370		
15,300.00	10,251.32	15,229.73	10,255.99	88.45	86.99	-90.27	-5,153.85	-11.74	919.90	745.42	174.48	5.272		
15,400.00	10,250.92	15,329.73	10,255.68	90.01	88.58	-90.28	-5,253.85	-11.20	919.90	742.25	177.65	5.178		
15,500.00	10,250.51	15,429.73	10,255.38	91.58	90.17	-90.28	-5,353.85	-10.65	919.90	739.08	180.82	5.087		
15,600.00	10,250.11	15,529.73	10,255.08	93.15	91.76	-90.29	-5,453.84	-10.11	919.90	735.90	184.00	4.999		
15,700.00	10,249.71	15,629.73	10,254.77	94.73	93.35	-90.30	-5,553.84	-9.57	919.90	732.72	187.18	4.914		
15,800.00	10,249.30	15,729.73	10,254.47	96.30	94.94	-90.30	-5,653.84	-9.02	919.89	729.53	190.36	4.832		
15,900.00	10,248.90	15,829.73	10,254.17	97.88	96.54	-90.31	-5,753.84	-8.48	919.89	726.34	193.55	4.753		
16,000.00	10,248.50	15,929.73	10,253.87	99.46	98.13	-90.32	-5,853.84	-7.94	919.89	723.15	196.74	4.676		
16,100.00	10,248.09	16,029.73	10,253.56	101.04	99.73	-90.32	-5,953.83	-7.39	919.89	719.96	199.93	4.601		
16,200.00	10,247.69	16,129.73	10,253.26	102.63	101.33	-90.33	-6,053.83	-6.85	919.89	716.76	203.13	4.529		
16,300.00	10,247.28	16,229.73	10,252.96	104.21	102.93	-90.33	-6,153.83	-6.30	919.89	713.56	206.33	4.458		
16,400.00	10,246.88	16,329.73	10,252.66	105.80	104.53	-90.34	-6,253.83	-5 .76	919.89	710.36	209.53	4.390		
16,500.00	10,246.48	16,429.73	10,252.35	107.39	106.13	-90.35	-6,353.83	-5.22	919.89	707.15	212.73	4.324		
16,600.00	10,246.07	16,529.73	10,252.05	108.98	107.73	-90.35	-6,453.82	-4.67	919.89	703.95	215.94	4.260		
16,700.00	10,245.67	16,629.73	10,251.75	110.57	109.34	-90.36	-6,553.82	-4.13	919.89	700.74	219.15	4.198		
16,800.00	10,245.27	16,729.73	10,251.45	112.16	110.94	-90.37	-6,653.82	-3.59	919.89	697.53	222.36	4.137		
16,900.00	10,244.86	16,829.73	10,251.14	113.76	112.55	-90.37	-6,753.82	-3.04	919.88	694.32	225.57	4.078		
17,000.00	10,244.46	16,929.73	10,250.84	115.35	114.16	-90.38	-6,853.82	-2.50	919.88	691.10	228.78	4.021		
17,100.00	10,244.06	17,029.73	10,250.54	116.95	115.77	-90.39	-6,953.81	-1.95	919.88	687.89	232.00	3.965		
17,200.00	10,243.65	17,129.73	10,250.24	118.55	117.38	-90.39	-7,053.81	-1.41	919.88	684.67	235.21	3.911		
17,300.00	10,243.25	17,229.73	10,249.93	120.15	118.99	-90.40	-7,153.81	-0.87	919.88	681.45	238.43	3.858		
17,400.00	10,242.84	17,329.73	10,249.63	121.75	120.60	-90.40	-7,253.81	-0.32	919.88	678.23	241.65	3.807		
17,500.00	10,242.44	17,429.73	10,249.33	123.35	122.21	-90.41	-7,353.81	0.22	919.88	675.00	244.88	3.757		
17,600.00	10,242.04	17,529.73	10,249.02	124.95	123.82	-90.42	-7,453.80	0.77	919.88	671.78	248.10	3.708		
17,700.00	10,241.63	17,629.73	10,248.72	126.56	125.43	-90.42	-7,553.80	1.31	919.88	668.55	251.32	3.660		
17,800.00	10,241.23	17,729.73	10,248.42	128.16	127.05	-90.43	-7,653.80	1.85	919.88	665.33	254.55	3.614		

Anticollision Report

Company: Devon Energy Local Co-ordinate Reference: Well Bora Bora 13-24 Fed Com 214H Project: Eddy County, NM (NAD-83) TVD Reference: 3506.7' GE + 23.5' KB @ 3530.20usft 3506.7' GE + 23.5' KB @ 3530.20usft Reference Site: Bora Bora 13-24 MD Reference: Site Error: 0.00 usft North Reference: Minimum Curvature Reference Well: Bora Bora 13-24 Fed Com 214H Survey Calculation Method: Well Error: 0.00 usft Output errors are at 2.00 sigma EDM 5000.1 Multi User Db ОН Database: Reference Wellbore Plan #1 Offset Datum Reference Design: Offset TVD Reference:

Offset De	sign	Bora Bo	ora 13-24	- Bora Bora	a 13-24 F€	ed Com 215	H - OH - Plan	#1					Offset S	ite Error:	0.00 usft
Survey Prog	ram: 0-L	EAM MWD+HD	OGM .	٠.			,	*					Offset W	ell Error:	0.00 usft
Refer	rence	Offs	et	Semi Majo	r Axis				Dista	nce .	100	·	r.'s;		
Measured 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)	the Sylv	=;'-		<u>(, '.'</u>
17,900.00	10,240.83	17,829.73	10,248.12	129.76	128.66	-90.44	-7,753.80	2.40	919.88	662.10	257.78	3.568			
18,000.00	10,240.42	17,929.73	10,247.81	131.37	130.28	-90.44	-7,853.80	2.94	919.88	658.87	261.01	3.524			
18,100.00	10,240.02	18,029.73	10,247.51	132.98	131.89	-90.45	-7,953.79	3.48	919.87	655.64	264.24	3.481			
18,200.00	10,239.62	18,129.73	10,247.21	134.58	133.51	-90.45	-8,053.79	4.03	919.87	652.40	267.47	3.439			
18,300.00	10,239.21	18,229.73	10,246.91	136.19	135.12	-90.46	-8,153.79	4.57	919.87	649.17	270.70	3.398			
18,400.00	10,238.81	18,329.73	10,246.60	137.80	136.74	-90.47	-8,253.79	5.12	919.87	645.94	273.94	3.358			
18,500.00	10,238.41	18,429.73	10,246.30	139.41	138.36	-90.47	-8,353.79	5.66	919.87	642.70	277.17	3.319			
18,600.00	10.238.00	18,529.73	10,246.00	141.02	139.98	-90.48	-8,453.78	6.20	919.87	639.46	280.41	3.280			
18,700.00	10,237.60	18,629.73	10,245.70	142.63	141.60	-90.49	-8,553.78	6.75	919.87	636.23	283.64	3.243			
18,800.00	10,237.19	18,729.73	10,245.39	144.24	143.22	-90.49	-8,653.78	7.29	919.87	632.99	286.88	3.206			
18,900.00	10,236.79	18,829.73	10,245.09	145.86	144.84	-90.50	-8,753.78	7.83	919.87	629.75	290.12	3.171			
19,000.00	10.236.39	18,929.73	10,244.79	147,47	146.46	-90.50	-8,853.78	8.38	919.87	626.51	293.36	3.136			
19,100.00	10,235.98	19,029.73	10,244.48	149.08	148.08	-90.51	-8,953.77	8.92	919.87	623.27	296.60	3.101			
19,200.00	10,235.58	19,129.73	10,244.18	150.70	149.70	-90.52	-9,053.77	9.47	919.87	620.03	299.84	3.068			
19,300.00	10,235.18	19,229.73	10,243.88	152.31	151.32	-90.52	-9,153.77	10.01	919.87	616.78	303.08	3.035			
19,400.00	-	19,329.73	10,243.58	153.93	152.94	-90.53	-9,253.77	10.55	919.87	613.54	306.33	3.003			
19,500.00	10,234.37	19,429.73	10,243.27	155.54	154.56	-90.54	-9,353.77	11,10	919.86	610.29	309.57	2.971			
19,600.00	10,233.97	19,529.73	10,242.97	157.16	156.19	-90.54	-9,453.76	11.64	919.86	607.05	312.81	2,941			
19,700.00	10,233.56	19,629.73	10,242.67	158.78	157.81	-90.55	-9,553.76	12.19	919.86	603.80	316.06	2,910			
19,800.00	10,233.16	19,729.73	10,242.37	160.39	159.43	-90.55	-9,653.76	12.73	919.86	600.56	319.31	2.881			
19,900.00	10,233.10	19,829.73	10,242.06	162.01	161.06	-90.56	-9,753.76	13.27	919.86	597.31	322.55	2.852			
20,000.00	10,232.35	19,929.73	10.241.76	163.63	162.68	-90.57	-9.853.76	13.82	919.86	594.06	325.80	2.823			
20,100.00	10,232.35	20,029.73	10,241.76	165.25	164.30	-90.57	-9,953.75	14.36	919.86	590.82	329.05	2.796			
20,100.00	10,231.55	20,029.73	10,241.46	166.87	165.93	-90.58	-10,053.75	14.90	919.86	587.57	332.29	2.768			
20,300.00	10,231.34	20,129.73	10,241.16	168.48	167.55	-90.59	-10,053.75	15.45	919.86	584.32	335.54	2.741			
20,300.00	10,231.14	20,229.73	10,240.85	170.10	169.18	-90.59	-10,153.75	15.45	919.86	581.07	338.79	2.715			
20 500 22	10,230.33	20,429.73	10,240.25	171.72	170.80	-90.60	-10,353.75	16.54	919.86	577.82	342.04	2.689			
20,500.00				171.72	170.80		-10,433.82	16.97	919.86	575.21	344.65	2.669			
20,580.08	10,230.01	20,509.81	10,240.01			-90.60		16.97	919.86	575.16	344.70	2.669 SF			
20,582.44	10,230.00	20,511.39	10,240.00	173.06	172.13	-90.60	-10,435.40	16.98	919.86	5/5.16	344.70	2.009 SF			

Anticollision Report

Company: Devon Energy Local Co-ordinate Reference: Well Bora Bora 13-24 Fed Com 214H TVD Reference: -3506.7' GE + 23.5' KB @ 3530.20usft Project: Eddy County, NM (NAD-83) 3506.7' GE + 23.5' KB @ 3530.20usft Bora Bora 13-24 Reference Site: MD Reference: 0.00 usft Site Error: North Reference: Reference Well: Bora Bora 13-24 Fed Com 214H **Survey Calculation Method:** Minimum Curvature 0.00 usft 2.00 sigma ___ Well Error: Output errors are at ОН Database: EDM 5000.1 Multi User Db Reference Wellbore Reference Design: Plan #1 Offset TVD Reference: Offset Datum

Offset De	sian	Bora Bo	ora 13-24	- Bora Bora	13-24 F	ed Com 216I	H - OH - Plan	#1		3.			Offset Site Error:	0.00 usft
Survey Prog	ram: 0-LE	AM MWD+HD		Semi Major	Avia	- 1 - 4		The same	Dist	4		,	Offset Well Error:	0.00 usft
Measured	Vertical			Reference	Offset	Highside	Offset Wellbo	re Centre	Between	Between -	Minimum	Separation	Morning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)		Warning	e
0.00	0.00	0.40	0.40	0.00	0.00	89.78	0.23	59.98	59.98					· · · · ·
100.00	100.00	100.40	100.40	0.09	0.00	89.78	0.23	59.98	59.98	59.81	0.17	347.018		
200.00	200.00	200.40	200.40	0.31	0.31	89.78	0.23	59.98	59.98			96.373		
300.00	300.00	300.40	300.40	0.54	0.54	89.78	0.23	59.98	59.98		1.07	55.957		
400.00	400.00	400.40	400.40	0.76	0.76	89.78	0.23	59.98	59.98			39.423		
500.00	500.00	500.40	500.40	0.99	0.99	89.78	0.23	59.98	59.98		1.97	30.432		
600.00	600.00	600.40	600.40	1.21	1.21	89.78	0.23	59.98	59.98	57.56	2.42	24.780		
700.00	700.00	700.40	700.40	1.43	1.44	89.78	0.23	59.98	59.98	57.11	2.87	20.899		
800.00	800.00	800.40	800.40	1.66	1.66	89.78	0.23	59.98	59.98			18.069		
900.00	900.00	900.40	900.40	1.88	1.89	89.78	0.23	59.98	59.98	56.21	3.77	15.914		
1,000.00	1,000.00	1,000.40	1,000.40	2.11	2.11	89.78	0.23	59.98	59.98			14.218		
1,100.00	1,100.00	1,100.40	1,100.40	2.33	2.33	89.78	0.23	59.98	59.98	55.31	4.67	12.849		
1,200.00	1,200.00	1,200.40	1,200.40	2.56	2.56	89.78	0.23	59.98	59.98	54.86		11.720		
1,300.00	1,300.00	1,300.40	1,300.40	2.78	2.78	89.78	0.23	59.98	59.98	54.41	5.57	10.774		
1,400.00	1,400.00	1,400.40	1,400.40	3.01	3.01	89.78	0.23	59.98	59.98	53.96		9.969		
1,500.00	1,500.00	1,500.40	1,500.40	3.23	3.23	89.78	0.23	59.98	59.98	53.51	6.47	9.276		
1,600.00	1,600.00	1,600.40	1,600.40	3.46	3.46	89.78	0.23	59.98	59.98	53.06	6.92	8.673		
1,700.00	1,700.00	1,700.40	1,700.40	3.68	3.68	89.78	0.23	59.98	59.98	52.62	7.37	8.144		
1,800.00	1,800.00	1,800.40	1,800.40	3.91	3.91	89.78	0.23	59.98	59.98	52.17	7.81	7.675		
1,900.00	1,900.00	1,900.40	1,900.40	4.13	4.13	89.78	0.23	59.98	59.98	51.72		7.258		
2,000.00	2,000.00	2,000.40	2,000.40	4.36	4.36	89.78	0.23	59.98	59.98	51.27	8.71	6.883		
2,100.00	2,100.00	2,100.40	2,100.40	4.58	4.58	89.78	0.23	59.98	59.98	50.82	9.16	6.546		
2,200.00	2,200.00	2,200.40	2,200.40	4.81	4.81	89.78	0.23	59.98	59.98	50.37	9.61	6.240		
2,300.00	2,300.00	2,300.40	2,300.40	5.03	5.03	89.78	0.23	59.98	59.98	49.92	10.06	5.961		
2,400.00	2,400.00	2,400.40	2,400.40	5.26	5.26	89.78	0.23	59.98	59.98	49.47	10.51	5.706		
2,500.00	2,500.00	2,500.40	2,500.40	5.48	5.48	89.78	0.23	59.98	59.98	49.02	10.96	5.472 CC,	ES	
2,600.00	2,599.99	2,600.39	2,600.39	5.69	5.71	177.12	0.23	59.98	60.85	49.45	11.40	5.339	•	
2,700.00	2,699.96	2,700.36	2,700.36	5.89	5.93	177.23	0.23	59.98	63.47	51.65	11.82	5.369		
2,800.00	2,799.86	2,800.26	2,800.26	6.10	6.16	177.41	0.23	59.98	67.82	55.58	12.25	5.538		
2,900.00	2,899.68	2,900.08	2,900.08	6.30	6.38	177.62	0.23	59.98	73.92	61.25	12.67	5.833		
3,000.00	2,999.37	2,999.77	2,999.77	6.51	6.60	177.85	0.23	59.98	81.76	68.66	13.10	6.241		
3,100.00	3,098.90	3,097.74	3,097.74	6.73	6.81	178.03	0.28	60.81	92.19	78.67	13.51	6.822		
3,200.00	3,198.26	3,195.10	3,195.06	6.96	7.01	178.14	0.42	63.30	106.03	92.12		7.623		
3,300.00	3,297.40	3,291.67	3,291.55	7.19	7.20	178.19	0.65	67.39	123.26	108.96	14.30	8.619		
3,400.00	3,396.30	3,387.31	3,387.01	7.43	7.40	178.20	0.96	73.05	143.85	129.16	14.69	9.791		
3,500.00	3,495.09	3,482.07	3,481.50	7.69	7.60	178.18	1.37	80.22	166.83	151.76	15.08	11.067		
3,600.00	3,593.87	3,576.07	3,575.10	7.95	7.80	178.13	1.85	88.87	191.41	175.95	15.45	12.385		
3,700.00	3,692.65	3,669.28	3,667.75	8.21	8.00	178.06	2.42	98.96	217.56	201.73	15.83	13.743		
3,800.00	3,791.43	3,761.64	3,759.40	8.48	8.21	177.98	3.06	110.45	245.27	229.07	16.20	15.138		
3,900.00	3,890.21	3,854.52	3,851.37	8.76	8.43	177.90	3.79	123.40	274.43	257.85	16.58	16.547		
4,000.00	3,988.99	3,950.07	3,945.93	9.04	8.66	177.82	4.56	137.08	303.95	286.95	17.00	17.878		
4,100.00	4,087.77	4,045.61	4,040.48	9.32	8.89	177.76	5.33	150.75	333.47	316.05	17.42	19.142		
4,200.00	4,186.56	4,141.15	4,135.04	9.61	9.13	177.71	6.09	164.42	362.99	345.15	17.84	20.344		
4,300.00	4,285.34	4,236.70	4,229.60	9.90	9.37	177.67	6.86	178.09	392.51	374.24	18.27	21.486		
4,400.00	4,384.12	4,332.24	4,324.16	10.19	9.62	177.63	7.63	191.76	422.03	403.34	18.70	22.573		
4,500.00	4,482.90	4,427.78	4,418.71	10.49	9.87	177.60	8.40	205.43	451.55	432.43	19.13	23.609		
4,600.00	4,581.68	4,523.33	4,513.27	10.79	10.12	177.57	9.16	219.10	481.07	461.51	19.56	24.597		
4,700.00	4,680.46	4,618.87	4,607.83	11.09	10.38	177.54	9.93	232.77	510.59	490.60	19.99	25.539		
4,800.00	4,779.24	4,714.41	4,702.38	11.40	10.64	177.52	10.70	246.44	540.11	519.68	20.43	26.438		
4,900.00	4,878.03	4,809.96	4,796.94	11.70	10.90	177.50	11.47	260.11	569.63	548.77	20.87	27.297		
5,000.00	4,976.81	4,905.50	4,891.50	12.01	11.16	177.48	12.23	273.78	599.15	577.85	21.31	28.119		
5,100.00	5,075.59	5,001.04	4,986.05	12.32	11.43	177.47	13.00	287.45	628.67	606.92	21.75	28.905		
3,100.00	3,073.38	5,001.04	4,500.00	14.32	11.43	177.47	13.00	207.45	020.07	000.92	21.75	20.900		

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 214H

Well Error: Reference Wellbore Reference Design:

0.00 usft ОН Plan #1

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Local Co-ordinate Reference:

Output errors are at Database:

Offset TVD Reference:

Well Bora Bora 13-24 Fed Com 214H

3506.7' GE + 23.5' KB @ 3530.20usft 3506.7' GE + 23.5' KB @ 3530.20usft.

Grid

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

Offset Datum

Offset De	sign	Bora Bo	ora 13-24 -	Bora Bora	13-24 F	ed Com 216	H - OH - Plan	#1]	Offset	Site Error:	0.00 us
urvey Prog	_	AM MWD+HD					· ·		13.	****	*	**	Offset	Well Error:	0.00 us
Refer		Offs		Semi Major	Axis		•		Dista	ince	***				
leasured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbo		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	. ~	Warning	*
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)	ractor			*
5,200.00	5,174.37	5,096.58	5,080.61	12.63	11.70	177.45	13.77	301.13	658.20	636.00	22.19	29.657			
5,300.00	5,273.15	5,192.13	5,175.17	12.94	11.97	177.44	14.54	314.80	687.72	665.08	22.64	30.378			
5,400.00	5,371.93	5,287.67	5,269.73	13.26	12.24	177.42	15.30	328.47	717.24	694.15	23.08	31.070			
5,500.00	5,470.71	5,383.21	5,364.28	13.57	12.52	177.41	16.07	342.14	746.76	723.22	23.53	31.733			
5,600.00	5,569.50	5,478.76	5,458.84	13.89	12.79	177.40	16.84	355.81	776.28	752.30	23.98	32.370			
5,700.00	5,668.28	5,574.30	5,553.40	14.21	13.07	177.39	17.61	369.48	805.80	781.37	24.43	32.982			
5,800.00	5,767.06	5,669.84	5,647.95	14.53	13.35	177.38	18.37	383.15	835.32	810.44	24.88	33.570			
5,900.00	5,865.84	5,765.39	5,742.51	14.85	13.63	177.37	19.14	396.82	864.84	839.50	25.34	34.136			
6,000.00	5,964.62	5,860.93	5,837.07	15.17	13.91	177.37	19.91	410.49	894.36	868.57	25.79	34.680			
6,100.00	6,063.40	5,956.47	5,931.62	15.49	14.19	177.36	20.68	424.16	923.88	897.64	26.24	35.205			
6,200.00	6,162.18	6,052.02	6,026.18	15.81	14.48	177.35	21.45	437.83	953.40	926.70	26.70	35.710			
6,300.00	6,260.97	6,147.56	6,120.74	16.14	14.76	177.35	22.21	451.51	982.92	955.77	27.15	36.197			
6,400.00	6,359.75	6,243.10	6,215.30	16.46	15.05	177.34	22.98	465.18	1,012.44	984.83	27.61	36.667			
6,500.00	6,458.53	6,338.65	6,309.85	16.78	15.33	177.33	23.75	478.85	1,041.97	1,013.90	28.07	37.120			
6,600.00	6,557.31	6,434.19	6,404.41	17.11	15.62	177.33	24.52	492.52	1,071.49	1,042.96	28.53	37.558			
6,700.00	6,656.09	6,529.73	6,498.97	17.44	15.91	177.32	25.28	506.19	1,101.01	1,072.02	28.99	37.981			
6,800.00	6,754.87	6,625.28	6,593.52	17.76	16.20	177.32	26.05	519.86	1,130.53	1,101.08	29.45	38.389			
6,900.00	6,853.65	6,720.82	6,688.08	18.09	16.49	177.31	26.82	533.53	1,160.05	1,130.14	29.91	38.784			
7,000.00	6,952.44	6,816.36	6,782.64	18.42	16.78	177.31	27.59	547.20	1,189.57	1,159.20	30.37	39.167			
7,100.00	7,051.22	6,911.91	6,877.19	18.74	17.07	177.30	28.35	560.87	1,219.09	1,188.26	30.83	39.537			
7,200.00	7,150.00	7,007.45	6,971.75	19.07	17.36	177.30	29.12	574.54	1,248.61	1,217.31	31.30	39.895			
7,300.00	7,248.78	7,102.99	7,066.31	19.40	17.65	177.30	29.89	588.21	1,278.13	1,246.37	31.76	40.242			
7,400.00	7,347.56	7,198.54	7,160.87	19.73	17.94	177.29	30.66	601.89	1,307.65	1,275.43	32.23	40.578			
7,500.00	7,446.34	7,294.08	7,255.42	20.06	18.24	177.29	31.42	615.56	1,337.17	1,304.48	32.69	40.904			
7,600.00	7,545.12	7,389.62	7,349.98	20.39	18.53	177.28	32.19	629.23	1,366.70	1,333.54	33.16	41.220			
7,700.00	7,643.91	7,485.17	7,444.54	20.72	18.83	177.28	32.96	642.90	1,396.22	1,362.59	33.62	41.526			
7,800.00	7,742.69	7,580,71	7,539.09	21.05	19.12	177.28	33.73	656.57	1,425.74	1,391.65	34.09	41.824			
7,900.00	7,841.47	7,676.25	7,633.65	21.38	19.42	177.28	34.49	670.24	1,455.26	1,420.70	34.56	42.113			
8,000.00	7,940.25	7,771.80	7,728.21	21.71	19.71	177.27	35.26	683.91	1,484.78	1,449.76	35.02	42.393			
8,100.00	8,039.03	7,867.34	7,822.76	22.04	20.01	177.27	36.03	697.58	1,514.30	1,478.81	35.49	42.666			
8,200.00	8,137.81	7,962.88	7,917.32	22.38	20.31	177.27	36.80	711.25	1,543.82	1,507.86	35.96	42.931			
8,300.00	8,236.59	8,058.42	8,011.88	22.71	20.60	177.26	37.56	724.92	1,573.34	1,536.91	36.43	43.188			
8,400.00	8,335.38	8,153.97	8,106.44	23.04	20.90	177.26	38.33	738.59	1,602.86	1,565.96	36.90	43.438			
8,500.00	8,434.16	8,249.51	8,200.99	23.37	21.20	177.26	39.10	752.27	1,632.38	1,595.01	37.37	43.682			
8,600.00	8,532.94	8,345.05	8,295.55	23.71	21.50	177.26	39.87	765.94	1,661.90	1,624.06	37.84	43.919			
8,700.00	8,631.73	8,440.62	8,390.12	24.03	21.79	177.26	40.63	779.61	1,691.37	1,653.06	38.31	44.154			
8,800.00	8,730.71	8,536.54	8,485.06	24.27	22.09	177.27	41.41	793.34	1,719.61	1,680.87	38.74	44.390			
8,900.00	8,829.92	8,632.95	8,580.47	24.51	22.40	177.27	42.18	807.13	1,746.17	1,707.00	39.17	44.580			
9,000.00	8,929.34	8,729.98	8,676.51	24.73	22.70	177.28	42.96	821.01	1,771.05	1,731.45	39.60	44.724			
9,100.00	9,028.93	8,871.48	8,816.78	24.93	23.06	177.27	44.00	839.52	1,793.03	1,752.83	40.20	44.607			
9,200.00	9,128.66	9,014.92	8,959.40	25.13	23.37	177.27	44.85	854.74	1,810.86	1,770.10	40.76	44.430			
9,300.00	9,228.50	9,159.91	9,103.91	25.31	23.67	177.27	45.51	866.50	1,824.50	1,783.20	41.30	44.182			
9,400.00	9,328.43	9,306.06	9,249.83	25.49	23.95	177.27	45.97	874.65	1,833.88	1,792.07	41.81	43.867			
9,500.00	9,428.41	9,452.93	9,396.63	25.65	24.21	177.27	46.22	879.10	1,838.97	1,796.69	42.29	43.488			
9,600.00	9,528.41	9,585.12	9,528.81	25.80	24.42	89.97	46.27	879.98	1,839.98	1,797.25	42.73	43.065			
9,700.00	9,628.41	9,685.12	9,628.81	25.97	24.61	89.97	46.27	879.98	1,839.98	1,796.85	43.13	42.662			
9,800.00	9,728.39	9,784.62	9,728.29	26.14	24.78	-89.72	45.42	879.98	1,839.98	1,796.45	43.53	42.272			
9,900.00	9,827.26	9,883.05	9,825.64	26.29	24.94	-89.72	31.65	880.06	1,839.98	1,796.10	43.87	41.937			
10,000.00	9,922.17	9,981.53	9,919.24	26.44	25.09	-89.73	1.43	880.23	1,839.98	1,795.77	44.21	41.621			
10,100.00	10,010.24	10,080.11	10,006.37	26.58	25.25	-89.75	-44.41	880.48	1,839.98	1,795.42	44.55	41.299			
10,200.00	10,088.80	10,178.82	10,084.47	26.73	25.41	-89.78	-104.57	880.80	1,839.97	1,795.02	44.95	40.935			
	10,155.45	10 277 70	10,151.20	26.90	25.60	-89.82	-177.38	881.20	1,839.97	1,794.53	45.44	40.495			

Anticollision Report

Company: Devon Energy Local Co-ordinate Reference: Well Bora Bora 13-24 Fed Com 214H TVD Reference: Eddy County, NM (NAD-83) 3506.7' GE + 23.5' KB @ 3530.20usft Project: 3506.7 GE + 23.5 KB @ 3530.20usft Reference Site: Bora Bora 13-24 MD Reference: Site Error: 0.00 usft North Reference: Grid Reference Well: Bora Bora 13-24 Fed Com 214H Survey Calculation Method: Minimum Curvature 2.00 sigma Well Error: 0.00 usft Output errors are at ОН Database: EDM 5000 1 Multi User Db Reference Wellbore Reference Design: Plan #1 Offset TVD Reference: Offset Datum

Offset De	sign	Bora Bo	ora-13-24 -	Bora Bora	13-24 F	ed Com 21	6H - OH - Plan i	# 1		· · · · · · · · · · · · · · · · · · ·		<u> </u>	Offset Site	Error:	0.00 usft
Survey Prog		AM MWD+HE			(8)	10	200		- \$1 - Jan	\$5 × 3 × 5	1.7		Offset Well	Error:	0:00 usft
Refer	rence	Offs	et	Semi Major					Dista	ance					
Measured	Vertical	Measured	Vertical	Reference	Offset		Offset Wellbor	e Centre	Between ≽			Separation	** 1	Varning .	4 14 Jan
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(mo#1)	(veft)	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor			
				(usft)	(usft)			(usft)	(usft)	(usft)	(usft)	* · E	<u> </u>	-	
10,400.00	10,208.17	10,376.79	10,204.54	27.10	25.83	-89.86	-260.74	881.66	1,839.97	1,793.91	46.06	39.946			
10,500.00	10,245.37	10,476.11	10,242.80	27.36	26.13	-89.90	-352.26	882.16	1,839.97	1,793.12	46.85	39.276			
10,595.69 10,600.00	10,265.37 10,265.90	10,571.40	10,264.15	27.68	26.49	-89.95	-445.00	882.67	1,839.97	1,792.20	47.76	38.523			
10,700.00	10,265.90	10,575.69 10,675.55	10,264.74 10,269.95	27.69 28.12	26.51	-89.95	-449.26	882.69	1,839.97	1,792.16	47.81	38.489			
10,700.00	10,269.48	10,775.55	10,269.75	28.64	26.99 27.56	-89.99 -90.00	-548.88 -648.88	883.23 883.78	1,839.97 1,839.97	1,791.04 1,789.74	48.92 50.23	37.608			
10,000.00	10,200.40	10,170.00	10,203.13	20.04	27.50	-30.00	-040.00	003.70	1,038.87	1,705.74	30.23	36.634			
10,900.00	10,269.08	10,875.55	10,269.55	29.25	28.22	-90.00	-748.88	884.33	1,839.97	1,788.27	51.70	35.592			
11,000.00	10,268.68	10,975.55	10,269.35	29.94	28.96	-90.01	-848.88	884.87	1,839.97	1,786.64	53.33	34.503			
11,100.00	10,268.27	11,075.55	10,269.15	30.71	29.77	-90.01	-948.88	885.42	1,839.97	1,784.87	55.11	33.389			
11,200.00		11,175.55	10,268.94	31.55	30.65	-90.02	-1,048.87	885.97	1,839.97	1,782.95	57.02	32.270			
11,300.00	10,267.46	11,275.55	10,268.74	32.46	31.60	-90.03	-1,148.87	886.51	1,839.97	1,780.92	59.05	31.159			
11,400.00	10,267.06	11,375.55	10,268.54	33.43	32.59	-90.03	-1,248.87	887.06	1,839.98	1,778.78	61.19	30.069			
11,500.00	10,266.66	11,475.55	10,268.34	34.44	33.64	-90.04	-1,348.87	887.61	1,839.98	1,776.75	63.43	29.008			}
11,600.00	10,266.25	11,575.55	10,268.14	35.51	34.74	-90.05	-1,448.87	888.16	1,839.98	1,774.22	65.76	27.982			
11,700.00	10,265.85	11,675.55	10,267.93	36.62	35.88	-90.05	-1,548.86	888.70	1,839.98	1,771.82	68.16	26.995			
11,800.00	10,265.45	11,775.55	10,267.73	37.78	37.05	-90.06	-1,648.86	889.25	1,839.98	1,769.35	70.63	26.049			
44 000 00	40.005.04	44 075 55	40 007 50	00.00	20.00										
11,900.00 12,000.00	10,265.04 10,264.64	11,875.55 11,975.55	10,267.53 10,267.33	38.96	38.26	-90.07	-1,748.86	889.80	1,839.98	1,766.81	73.17	25.146			
12,100.00		12,075.55	10,267.33	40.18 41.43	39.51 40.78	-90.07 -90.08	-1,848.86 -1,948.86	890.34 890.89	1,839.99	1,764.22 1,761.57	75.77	24.285			
12,200.00	10,263.83	12,175.55	10,266.93	42.71	42.07	-90.08	-2,048.85	891.44	1,839.99 1,839.99	1,758.88	78.41 81.11	23.465 22.686			
12,300.00		12,275.55	10,266.72	44.01	43.39	-90.09	-2,148.85	891.98	1,839.99	1,756.15	83.84	21.947			
į į	,	,					2,7,10,00		1,000.00	1,700.10	00.04	21.541			
12,400.00	10,263.02	12,375.55	10,266.52	45.33	44.73	-90.10	-2,248.85	892.53	1,839.99	1,753.38	86.61	21.244			
12,500.00	10,262.62	12,475.55	10,266.32	46.67	46.09	-90.10	-2,348.85	893.08	1,839.99	1,750.58	89.42	20.577			
12,600.00	10,262.22	12,575.55	10,266.12	48.03	47.46	-90.11	-2,448.85	893.62	1,840.00	1,747.74	92.26	19.945			
12,700.00	10,261.81	12,675.55	10,265.92	49.41	48.86	-90.12	-2,548.85	894.17	1,840.00	1,744.88	95.12	19.344			i
12,800.00	10,261.41	12,775.55	10,265.71	50.81	50.27	-90.12	-2,648.84	894.72	1,840.00	1,741.99	98.01	18.773			
12,900.00	10,261.01	12,875.55	10,265.51	52.22	51.69	-90.13	-2,748.84	895.26	1,840.00	1,739.07	100.93	18.231			
13,000.00	10,260.60	12,975.55	10,265.31	53.64	53.12	-90.13	-2,848.84	895.81	1,840.00	1,736.14	103.87	17.715			
13,100.00	10,260.20	13,075.55	10,265.11	55.07	54.57	-90.14	-2,948.84	896.36	1,840.01	1,733.18	106.82	17.225			
13,200.00	10,259.80	13,175.55	10,264.91	56.52	56.02	-90.15	-3,048.84	896.90	1,840.01	1,730.21	109.80	16.758			
13,300.00	10,259.39	13,275.55	10,264.70	57.97	57.49	-90.15	-3,148.83	897.45	1,840.01	1,727.22	112.79	16.313			
13,400.00	10,258.99	13,375.55	10,264.50	59.44	58.96	00.16	2 240 02	909.00	1 040 01	4 704 04	445.00	45.000			
13,500.00	10,258.59	13,475.55	10,264.30	60.91	60.45	-90.16 -90.17	-3,248.83 -3,348.83	898.00 898.54	1,840.01 1,840.01	1,724.21 1,721.19	115.80 118.82	15.890 15.486			
13,600.00	10,258.18	13,575.55	10,264.10	62.39	61.94	-90.17	-3,448.83	899.09	1,840.02	1,718.16	121.86	15.100			
13,700.00	10,257.78	13,675.55	10,263.90	63.88	63.44	-90.18	-3,548.83	899.64	1,840.02	1,715.11	124.90	14.731			
13,800.00	10,257.37	13,775.55	10,263.69	65.38	64.94	-90.18	-3,648.82	900.18	1,840.02	1,712.06	127.96	14.379			
					_										
13,900.00	10,256.97	13,875.55	10,263.49	66.89	66.46	-90.19	-3,748.82	900.73	1,840.02	1,708.99	131.03	14.042			ł
14,000.00	10,256.57	13,975.55	10,263.29	68.40	67.97	-90.20	-3,848.82	901.28	1,840.02	1,705.91	134.11	13.720			
14,100.00 14,200.00	10,256.16 10,255.76	14,075.55 14,175.55	10,263.09 10,262.89	69.91 71.43	69.50 71.03	-90.20 -90.21	-3,948.82 -4,048.82	901.82 902.37	1,840.03 1,840.03	1,702.82 1,699.73	137.20	13.411			
14,300.00		14,175.55	10,262.69	71.43	71.03	-90.21 -90.22	-4,048.82 -4,148.81	902.37	1,840.03	1,699.73	140.30 143.41	13.115 12.831			
,500.00	.0,200.00	,270.00	.0,202.00	12.50	, 2.50	-30.22	→, (40.01	302.32	1,040.03	1,030.02	(40.41	12.031			.
14,400.00	10,254.95	14,375.55	10,262.48	74.49	74.10	-90.22	-4,248.81	903.46	1,840.03	1,693.51	146.52	12.558			
14,500.00	10,254.55	14,475.55	10,262.28	76.03	75.64	-90.23	-4,348.81	904.01	1,840.03	1,690.39	149.64	12.296			
14,600.00	10,254.15	14,575.55	10,262.08	77.57	77.19	-90.23	-4,448.81	904.56	1,840.04	1,687.27	152.77	12.045			
14,700.00	10,253.74	14,675.55	10,261.88	79.11	78.74	-90.24	-4,548.81	905.10	1,840.04	1,684.14	155.90	11.803			
14,800.00	10,253.34	14,775.55	10,261.67	80.66	80.29	-90.25	-4,648.81	905.65	1,840.04	1,681.00	159.04	11.570			
14,900.00	10,252.93	14,875.55	10,261.47	82.21	81.85	-90.25	-4,748.80	906.20	1,840.04	1,677.86	162.18	11.345			
15,000.00	10,252.53	14,075.55	10,261.47	83.77	83.41	-90.25 -90.26	-4,748.80 -4,848.80	906.20	1,840.04	1,674.71	165.33	11.345			
15,100.00	10,252.13	15,075.55	10,261.07	85.32	84.97	-90.27	-4,948.80	907.29	1,840.05	1,674.71	168.49	10.921			
15,200.00	10,251.72	15,175.55	10,260.87	86.88	86.54	-90.27	-5,048.80	907.84	1,840.05	1,668.40	171.65	10.720			ļ
15,300.00	10,251.32	15,275.55	10,260.66	88.45	88.11	-90.28	-5,148.80	908.39	1,840.05	1,665.24	174.81	10.726			
15,400.00	10,250.92	15,375.54	10,260.46	90.01	89.68	-90.28	-5,248.79	908.93	1,840.06	1,662.08	177.98	10.339			

Anticollision Report

Devon Energy Company:

Eddy County, NM (NAD-83) Project:

Bora Bora 13-24 Reference Site:

Site Error: Reference Well:

0.00 usft Bora Bora 13-24 Fed Com 214H

Well Error: Reference Design: 0.00 usft

Plan #1

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 214H

3506.7' GE + 23.5' KB @ 3530.20usft 3506.7' GE + 23.5' KB @ 3530.20usft

Grid ...

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

Offset Datum

_	sign	-	ora 13-24 -												
urvey Prog Pofor		EAM MWD+HE Offs		Semi Major	Avia :				Dista	ınce		, t = 20 m	Offset We	ell Error:	0.00 usf
Refer easured	ence '	Measured	et Vertical	Semi Major Reference	Axis Offset	Highside	Offset Wellbo	re Centre	Dista Between	ince Between	Minimum	Separation	:	Warning	
Depth:	Depth	Depth	Depth	1 3		Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor *	in a s	viairing	• . •
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	. (usft)	(usft)	(usft)	(usft)				
15,500.00	10,250.51	15,475.54	10,260.26	91.58	91.25	-90.29	-5,348.79	909.48	1,840.06	1,658.91	181.15	10.158			
15,600.00	10,250.11	15,575.54	10,260.06	93.15	92.83	-90.30	-5,448.79	910.03	1,840.06	1,655.73	184.33	9.983			
15,700.00	10,249.71	15,675.54	10,259.86	94.73	94.40	-90.30	-5,548.79	910.57	1,840.06	1,652.56	187.51	9.813			
15,800.00	10,249.30	15,775.54	10,259.66	96.30	95.98	-90.31	-5,648.79	911.12	1,840.06	1,649.38	190.69	9.650			
15,900.00	10,248.90	15,875.54	10,259.45	97.88	97.57	-90.32	-5,748.78	911.67	1,840.07	1,646.19	193.88	9.491 9.337			
16,000.00	10,248.50	15,975.54	10,259.25	99.46	99.15	-90.32	-5,848.78	912.21	1,840.07	1,643.01	197.06	9.337			
16,100.00	10,248.09	16,075.54	10,259.05	101.04	100.74	-90.33	-5,948.78	912.76	1,840.07	1,639.82	200.26	9.189			
16,200.00	10,247.69	16,175.54	10,258.85	102.63	102.32	-90.34	-6,048.78	913.31	1,840.08	1,636.62	203.45	9.044			
16,300.00	10,247.28	16,275.54	10,258.65	104.21	103.91	-90.34	-6,148.78	913.85	1,840.08	1,633.43	206.65	8.904			
16,400.00	10,246.88	16,375.54	10,258.44	105.80	105.50	-90.35	-6,248.78	914.40	1,840.08	1,630.23	209.85	8.769			
16,500.00	10,246.48	16,475.54	10,258.24	107.39	107.09	-90.35	-6,348.77	914.95	1,840.08	1,627.03	213.05	8.637			
16 600 00	10,246.07	16,575.54	10,258.04	108.98	108.69	-90.36	-6,448.77	915.49	1,840.09	1,623.83	216.25	8.509			
16,600.00 16,700.00	10,245.67	16,675.54	10,255.04	110.57	110.28	-90.37	-6,548.77	916.04	1,840.09	1,620.63	219.46	8.385			
16,800.00	10,245.27	16,775.54	10,257.64	112.16	111.88	-90.37	-6,648.77	916.59	1,840.09	1,617.42	222.67	8.264			
6,900.00	10,244.86	16,875.54	10,257.43	113.76	113.48	-90.38	-6,748.77	917.13	1,840.09	1,614.21	225.88	8.146			
17,000.00	10,244.46	16,975.54	10,257.23	115.35	115.07	-90.39	-6,848.76	917.68	1,840.10	1,611.00	229.09	8.032			
				_											
17,100.00	10,244.06	17,075.54	10,257.03	116.95	116.67	-90.39	-6,948.76	918.23	1,840.10	1,607.79	232.31	7.921			
17,200.00	10,243.65	17,175.54	10,256.83	118.55	118.28	-90.40	-7,048.76	918.77	1,840.10	1,604.58	235.52	7.813			
17,300.00	10,243.25	17,275.54	10,256.63	120.15	119.88	-90.40	-7,148.76	919.32	1,840.10	1,601.36	238.74	7.707			
7,400.00	10,242.84	17,375.54	10,256.42	121.75	121.48	-90.41	-7,248.76	919.87	1,840.11	1,598.15	241.96	7.605			
7,500.00	10,242.44	17,475.54	10,256.22	123.35	123.08	-90.42	-7,348.75	920.41	1,840.11	1,594.93	245.18	7.505			
17,600.00	10,242.04	17,575.54	10,256.02	124.95	124.69	-90.42	-7,448.75	920.96	1,840.11	1,591.71	248.41	7.408			
7,700.00	10,241.63	17,675.54	10,255.82	126.56	126.29	-90.43	-7,548.75	921.51	1,840.12	1,588.49	251.63	7.313			
7,800.00	10,241.23	17,775.54	10,255.62	128.16	127.90	-90.44	-7,648.75	922.05	1,840.12	1,585.26	254.86	7.220			
17,900.00	10,240.83	17,875.54	10,255.41	129.76	129.51	-90.44	-7,748.75	922.60	1,840.12	1,582.04	258.08	7.130			
18,000.00	10,240.42	17,975.54	10,255.21	131.37	131.12	-90.45	-7,848.74	923.15	1,840.13	1,578.81	261.31	7.042			
								000.00	4 040 40	. 4 575 50	264.54	6.056			
18,100.00	10,240.02	18,075.54	10,255.01	132.98	132.72	-90.45	-7,948.74	923.69	1,840.13	1,575.59	264.54	6.956			
18,200.00	10,239.62	18,175.54	10,254.81	134.58	134.33	-90.46	-8,048.74	924.24	1,840.13	1,572.36 1,569.13	267.77 271.00	6.872 6.790			
18,300.00 18,400.00	10,239.21 10,238.81	18,275.54 18,375.54	10,254.61 10,254.40	136.19 137.80	135.94 137.56	-90.47 -90.47	-8,148.74 -8,248.74	924.79 925.34	1,840.13 1,840.14	1,565.90	274.24	6.710			
18,500.00	10,238.41	18,475.54	10,254.40	137.60	137.36	-90.47	-8,348.74	925.88	1,840.14	1,562.67	277.47	6.632			
10,500.00	10,200.41	10,410.04	10,204,20	700.47	100.11	-00.40	-0,040.74	020.00	1,040.14	1,502.01	217.41	0.002			
18,600.00	10,238.00	18,575.54	10,254.00	141.02	140.78	-90.49	-8,448.73	926.43	1,840.14	1,559.44	280.70	6.555			
18,700.00	10,237.60	18,675.54	10,253.80	142.63	142.39	-90.49	-8,548.73	926.98	1,840.15	1,556.21	283.94	6.481			
18,800.00	10,237.19	18,775.54	10,253.60	144.24	144.01	-90.50	-8,648.73	927.52	1,840.15	1,552.97	287.18	6.408			
18,900.00	10,236.79	18,875.54	10,253.39	145.86	145.62	-90.50	-8,748.73	928.07	1,840.15	1,549.74	290.42	6.336			
19,000.00	10,236.39	18,975.54	10,253.19	147.47	147.23	-90.51	-8,848.73	928.62	1,840.16	1,546.50	293.65	6.266			
19,100.00	10,235.98	19,075.54	10,252.99	149.08	148.85	-90.52	-8,948.72	929.16	1,840.16	1,543.27	296.89	6.198			
19,100.00	10,235.58	19,075.54	10,252.99	150.70	150.47	-90.52 -90.52	-0,946.72 -9,048.72	929.71	1,840.16	1,540.03	300.13	6.131			
19,300.00	10,235.38	19,175.54		152.31	152.08	-90.52 -90.53	-9,148.72 -9,148.72	930.26	1,840.17	1,536.79	303.38	6.066			
9,400.00	10,234.77	19,375.54	10,252.39	153.93	153.70	-90.54	-9,248.72	930.80	1,840.17	1,533.55	306.62	6.002			
	10,234.37	19,475.54		155.54	155.32	-90.54	-9,348.72	931.35	1,840.17	1,530.31	309.86	5.939			
		'													
19,600.00	10,233.97	19,575.54	10,251.98	157.16	156.93	-90.55	-9,448.71	931.90	1,840.18	1,527.07	313.10	5.877			
19,700.00	10,233.56	19,675.54	10,251.78	158.78	158.55	-90.55	-9,548.71	932.44	1,840.18	1,523.83	316.35	5.817			
19,800.00	10,233.16	19,775.54	10,251.58	160.39	160.17	-90.56	-9,648.71	932.99	1,840.18	1,520.59	319.59	5.758			
9,900.00	10,232.75	19,875.54	10,251.38	162.01	161.79	-90.57	-9,748.71	933.54	1,840.19	1,517.35	322.84	5.700			
00.000.00	10,232.35	19,975.54	10,251.17	163.63	163.41	-90.57	-9,848.71	934.08	1,840.19	1,514.10	326.09	5.643			
00 100 00	10 221 05	20.075.54	10 250 07	105 7F	165.02	.00 50	_0 049 70	024 62	1 840 10	1 510 90	329.33	5.588			
20,100.00	10,231.95	20,075.54	10,250.97	165.25	165.03	-90.58	-9,948.70	934.63	1,840.19	1,510.86	329.33	5.588			
20,300.00	10,231.54 10,231.14	20,175.54 20,275.54	10,250.77 10,250.57	166.87 168.48	166.65 168.27	-90.59 -90.59	-10,048.70 -10,148.70	935.18 935.72	1,840.20 1,840.20	1,507.62 1,504.37	332.58	5.533 5.480			
20,400.00	10,231.14	20,275.54	10,250.37	170.10	169.89	-90.59 -90.60	-10,148.70	935.72	1,840.20	1,504.37	339.08	5.427			
20,500.00	10,230.74	20,375.53	10,250.37	170.10	171.51	-90.60	-10,248.70	936.27	1,840.21	1,497.88	342.33	5.376			
,000.00	.0,200.00	20, 110.00	10,200.10	.,,,,2	1.01	, , , , ,	10,040.10	330.02	1,040.21	1, 151.00	J-12.00	5.070			
20,506.73	10,230.31	20,482.26	10,250.15	171.83	171.62	-90.61	-10,355.42	936.85	1,840.21	1,497.66	342.55	5.372			

Anticollision Report

Devon Energy Company: Local Co-ordinate Reference: Well Bora Bora 13-24 Fed Com 214H Project: Eddy County, NM (NAD-83) TVD Reference: 3506.7' GE + 23.5' KB @ 3530.20usft Reference Site: Bora Bora 13-24 MD Reference: 3506.7" GE + 23.5" KB @ 3530.20usft Site Error: 0.00 usft North Reference: Reference Well: Bora Bora 13-24 Fed Com 214H Survey Calculation Method: Minimum Curvature 0.00 usft Well Error: Output errors are at 2.00 sigma Reference Wellbore OH EDM 5000.1 Multi User Db Database: Plan:#1 Reference Design: Offset TVD Reference: Offset Datum

Offset Des	sign	Bora Bo	ra 13-24	- Bora Bora	13-24 F	ed Com 21	6H - OH - Plan	#1	-γ:				Offset Site Error:	0:00 usft
Survey Progr Refere	24	AM MWD+HD0 Offse	8	Semi Major	Axis	4.	gla ay a	4. 7	Dista	nce			Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbo	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warnin	9
20,582.44	10,230.00	20,556.49	10,250.00	173.06	172.82	-90.61	-10,429.65	937.26	1,840.21	1,495.23	344.98	5.334 SF	* * * * * * * * * * * * * * * * * * * *	······································

Anticollision Report

Company:

Devon Energy

Project:

Eddy County, NM (NAD-83)

Reference Site:

Bora Bora 13-24

Site Error: Reference Well:

Well Error: Reference Wellbore Reference Design:

0.00 usft

Bora Bora 13-24 Fed Com 214H

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 214H

3506.7' GE + 23.5' KB @ 3530.20usft 3506.7' GE + 23.5' KB @ 3530.20usft

Grid

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

Offset Datum

Reference Depths are relative to 3506.7' GE + 23.5' KB @ 3530.20usft

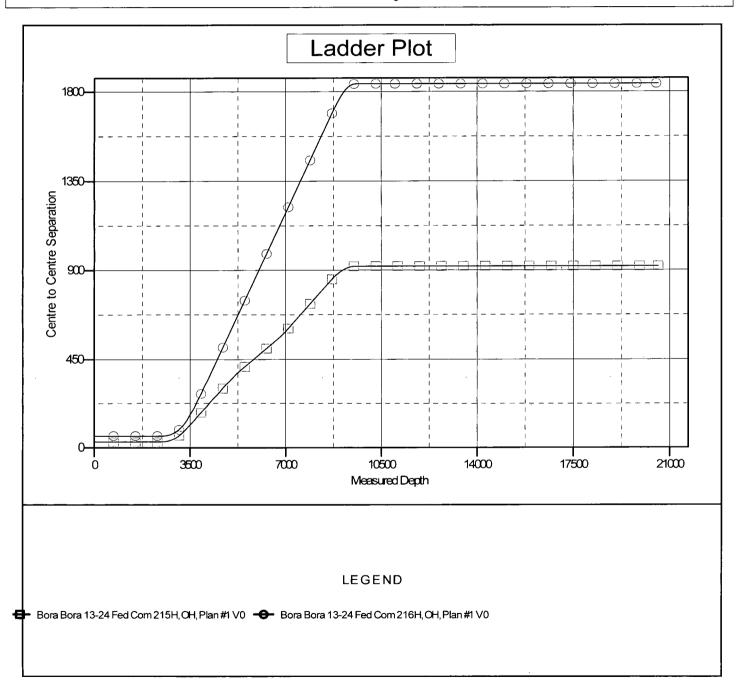
Offset Depths are relative to Offset Datum

Central Meridian is 104° 19' 60.0000 W

Coordinates are relative to: Bora Bora 13-24 Fed Com 214H

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:

Reference Well:

Eddy County, NM (NAD-83)

Bora Bora 13-24

Site Error: 0.00 usft

0.00 usft Bora Bora 13-24 Fed Com 214H

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

TVD Reference:

North Reference: Survey Calculation Method:

Output errors are at

Database: Offset TVD Reference: Well Bora Bora 13-24 Fed Com 214H 3506.7 GE + 23.5 KB @ 3530.20usft

3506.7' GE + 23.5' KB @ 3530.20usft

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

Öffset Datum

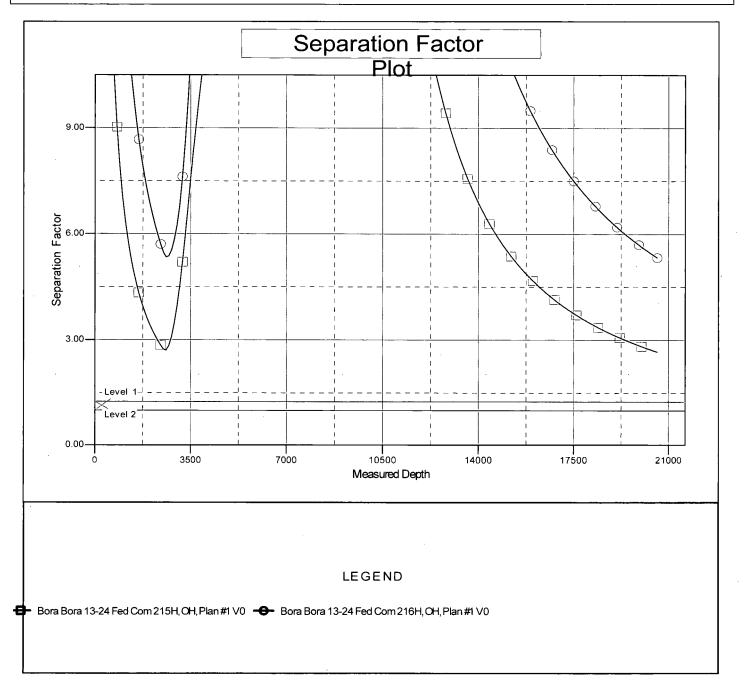
Reference Depths are relative to 3506.7' GE + 23.5' KB @ 3530.20usft

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 214H 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 214H

1. Geologic Formations

TVD of target	10230	Pilot hole depth	N/A
MD at TD:	20582	Deepest expected fresh water:	

Rasin

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	10230			
	·			

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

Devon Energy – Bora Bora 13-24 Fed Com 214H

2. Casing Program

Hole Size	Casing Interval		Con Sino	Weight	CJ -	
Hole Size From To 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
BLM Minimum Safety Facto			ctor	Collapse: 1.125	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 214H

	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?	<u>N</u>
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?	
	<u> </u>
Is well located in R-111-P and SOPA?	<u>N</u>
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
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 214H

3. Cementing Program (3-String Primary Design)

Casing	# Sks	TOC.	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
T .	1091	Surf	9	20.6	1.94	Lead: Class C Cement + additives
Int	196	500' above shoe	13.2	6.42	1.33	Tail: Class H / C + additives
Draduation	335	500' tieback	9	20.6	1.94	Lead: Class H / C + additives
Production	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 214H

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	T	ype	1	Tested to:
			An	nular	X	50% of rated working pressure
Int 1	13-5/8"	2N/	Bline	d Ram	X	
ши т	13-3/6	3M	Pipe	Ram		3M
			Doub	le Ram	X	3101
			Other*			
			An	nular	X	50% of rated working pressure
			Bline	d Ram	X	
Production	13-5/8"	5M	Pipe Ram			
			Double Ram		X	5M
			Other *			
,			An	nular		•
			Bline	d Ram		
			Pipe	Ram		
			Doub	le Ram		
			Other *			

Devon Energy - Bora Bora 13-24 Fed Com 214H

5. Mud Program

6. I	Depth	The state of the s	Weight	17: a	Weten I oes
From	То	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 monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

6. Logging and Testing Procedures

Logg	Logging, 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	4788psi
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 214H

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

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.

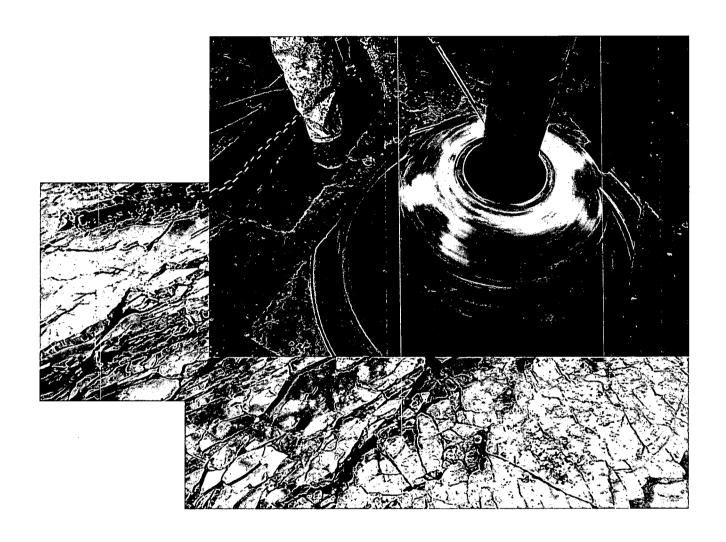
After running the intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 5M will already be installed on the wellhead.

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.



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.

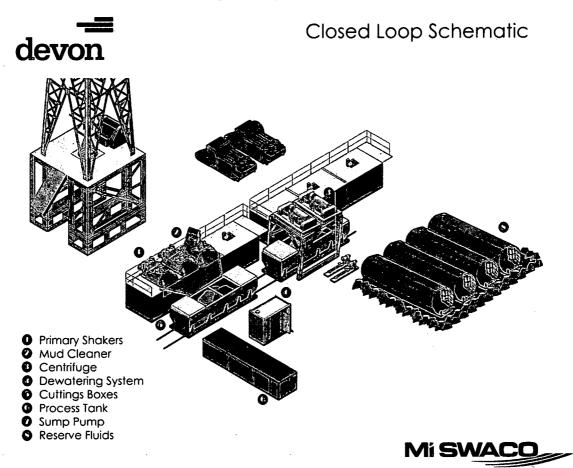
Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

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.

- 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

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.



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



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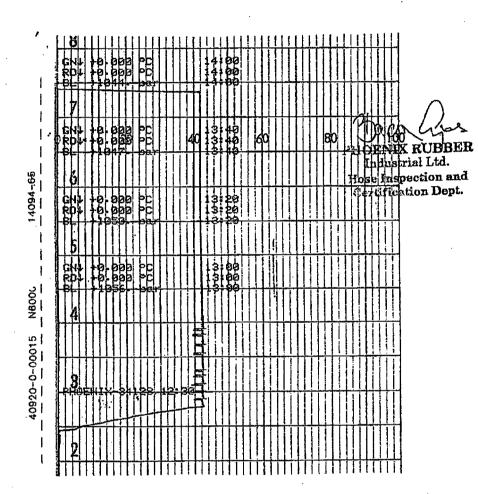
PHOENIX

QUALITY DOCUMENT

PHOENIX RUBBER INDUSTRIAL LTD.

** 6728 Szeged, Budapesti út 10. Hungary • H-6701 Szeged, P. O. Box 152 hone: (3662) 566-737 • Fax: (3662) 568-738 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	CERT. N	lo:	552				
PURCHASER:	P.O. N°	P.O. Nº 1519FA-871					
PHOENIX RUBBER order No.	170466	HOSE TYPE:	3" ID	Cho	ke and Kill	Hose	
HOSE SERIAL N°	34128	NOMINAL / AC	TUAL LENGTH	:	11,43 m		
W.P. 68,96 MPa 1	0000 psi	T.P. 103,4	MPa 1500)() psi	Duration:	60	min.
Pressure test with water at ambient temperature	See atta	achment. (1	page)				A 18 1 2 1 1
↑ 10 mm = 10 Min. → 10 mm = 25 MPa		COUPLI	NCS				مختلف
Туре		Serial Nº	100	Quality		Heat N°	
3" coupling with 4 1/16" Flange end	72	· · · · · · · · · · · · · · · · · · ·		AISI 4130 AISI 4130		C7626 47357	
				:			•
All metal parts are flawless WE CERTIFY THAT THE ABOVE			API Spec 1 Temperatu	re rate:"E		OF THE ORDE	R AND
Date: 29. April. 2002.	Inspector	ORY RESULT.	Quality Cont	HOE	NIX RUB lustrial Ltd Inspection	•	w.



VERIFIED TRUE CO.
PHOENIX RUBBER & 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

Well Name: BORA BORA 13-24 FED COM

Well Number: 214H

Well Type: OIL WELL

APD ID: 10400036665

Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

BORA_BORA_13_24_FED_COM_214H_EX_RD_20181126131345.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_WA017459401_20181126131455.pdf

Well Name: BORA BORA 13-24 FED COM Well Number: 214H

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 type: OTHER

Describe type: Fresh Water

Water source use type:

STIMULATION

Source latitude:

Source longitude:

Source datum:

Water source permit type:

OTHER

Water source transport method:

PIPELINE

Source land ownership: FEDERAL

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_214_20181126133758.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:

Well Name: BORA BORA 13-24 FED COM Well Number: 214H

Aquifer comments:

Aquifer documentation:

Well depth (ft): Well casing type:

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

New water well casing?

Used casing source:

Drilling method: Drill material:

Grout material: Grout depth:

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

Well Production type: Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

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

Construction Materials source location attachment:

Caliche_Map_214_20181126132453.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 pineline take away.

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

Well Name: BORA BORA 13-24 FED COM Well Number: 214H

Safe containment attachment:

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

FACILITY

Disposal type description:

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

Waste type: FLOWBACK

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

Amount of waste: 2000

barrels

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

Safe containment attachment:

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

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: 2089

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

Well Name: BORA BORA 13-24 FED COM Well Number: 214H

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? NO

Description of cuttings location

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.

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

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

RIG_LAYOUT_20181126132556.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 Name: BORA BORA 13-24 FED COM Well Number: 214H

Well pad proposed disturbance

(acres): 8.267

Well pad interim reclamation (acres): Well pad long term disturbance

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

(acres): 3.338

1.006

Road long term disturbance (acres):

Powerline proposed disturbance

Pipeline proposed disturbance

(acres): 0

Powerline interim reclamation (acres): Powerline long term disturbance

0

(acres): 0

(acres): 0 Other proposed disturbance (acres): 0

Pipeline interim reclamation (acres):

Pipeline long term disturbance

0.3694146

(acres): 0.3694146

Other interim reclamation (acres): 0

Other long term disturbance (acres): 0

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:

Well Name: BORA BORA 13-24 FED COM Well Number: 214H

See	d	Ma	an	aa	е	m	е	n	t

Seed Table

Seed type:

Seed source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary

Seed Type

Pounds/Acre

Total pounds/Acre:

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: JACOB

Last Name: OCHOA

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:

Well Name: BORA BORA 13-24 FED COM Well Number: 214H

Section 11 - Surface Ownership

Disturbance type: PIPELINE							
Describe:							
Surface Owner: BUREAU OF LAND MANAGEMENT							
Other surface owner description:							
BIA Local Office:							
BOR Local Office:							
COE Local Office:							
DOD Local Office:							
NPS Local Office:							
State Local Office:							
Military Local Office:							
USFWS Local Office:							
Other Local Office:							
USFS Region:							
USFS Forest/Grassland:							
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:							

USFS Region:

USFS Ranger District:

Well Name: BORA BORA 13-24 FED COM Well Number: 214H USFS Forest/Grassland: **USFS Ranger District:** Disturbance type: EXISTING ACCESS ROAD Describe: Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: **BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office:** Military Local Office: **USFWS Local Office: Other Local Office: USFS Region: USFS** Forest/Grassland: **USFS Ranger District:** 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:**

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Military Local Office:

Well Name: BORA BORA 13-24 FED COM

Well Number: 214H

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

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

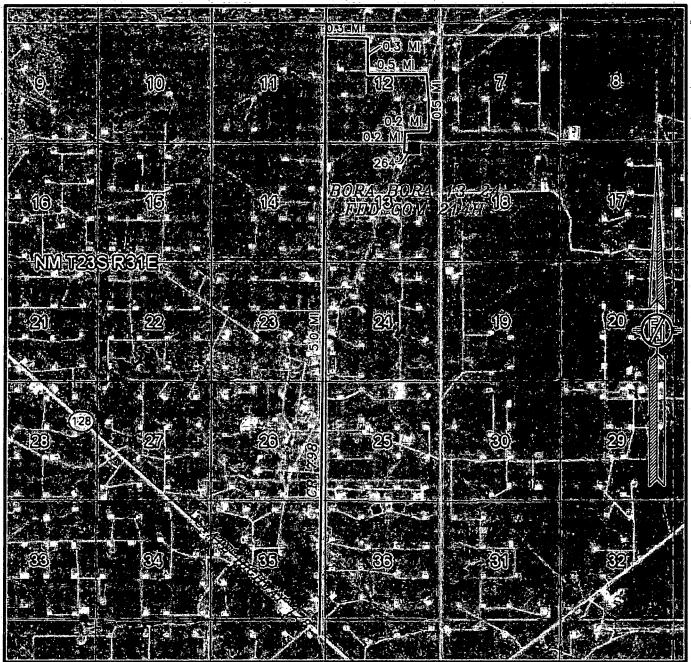
Previous Onsite information:

Other SUPO Attachment

400774XYZ_FL_GL_TR_12_FED_213_516_TR_12_CTB_1_P_R1_20181126133236.pdf
AA000145295_TOMB_RAIDER_12_1_CTB_1_PAD_P_R2_20181126133241.pdf
TOMB_RAIDER_12_1_FED_516H_FLOWLINES_20181126133245.pdf
ELEC_LN_TR_13_CTB1_TR_12_PAD_1_4_5_TR1_12_CTB_2_3_20181126133242.pdf
Pay.gov___Receipt_20181126145631.pdf
TOMB_RAIDER_12_1_FED_516H_FLOWLINES_BURIED_20190426130804.pdf



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



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH NOVEMBER 2017 DEVON ENERGY PRODUCTION COMPANY, L.P.

BORA BORA 13-24 FED COM 214H

LOCATED 100 FT. FROM THE NORTH LINE

AND 1210 FT. FROM THE EAST LINE OF

SECTION 13, TOWNSHIP 23 SOUTH,

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

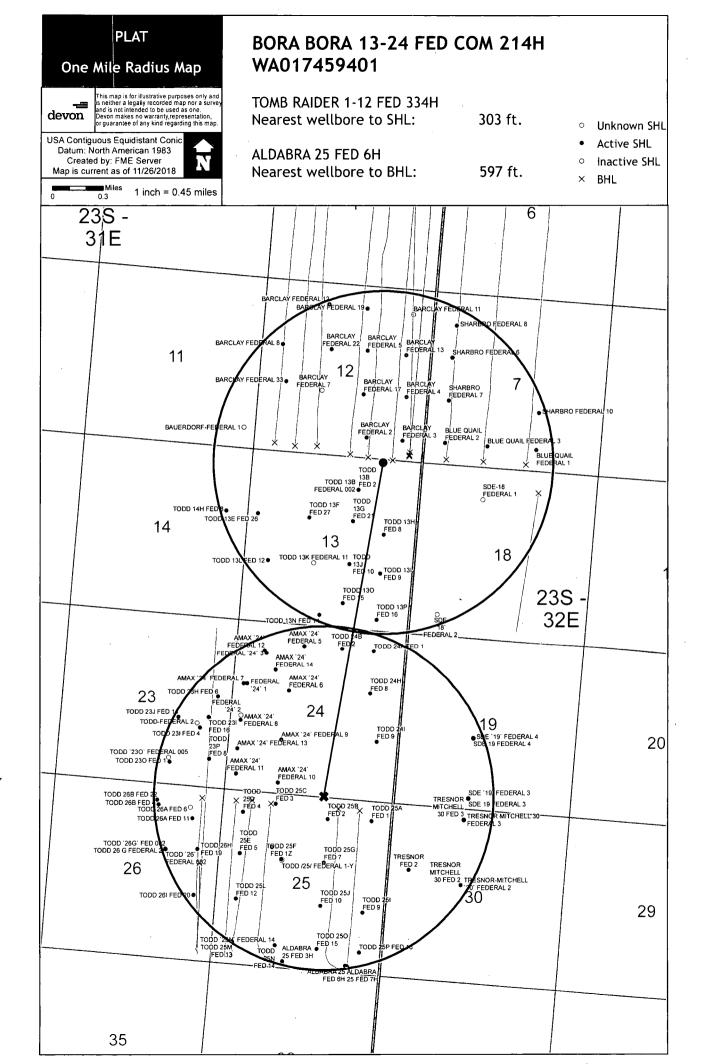
EDDY COUNTY, STATE OF NEW MEXICO

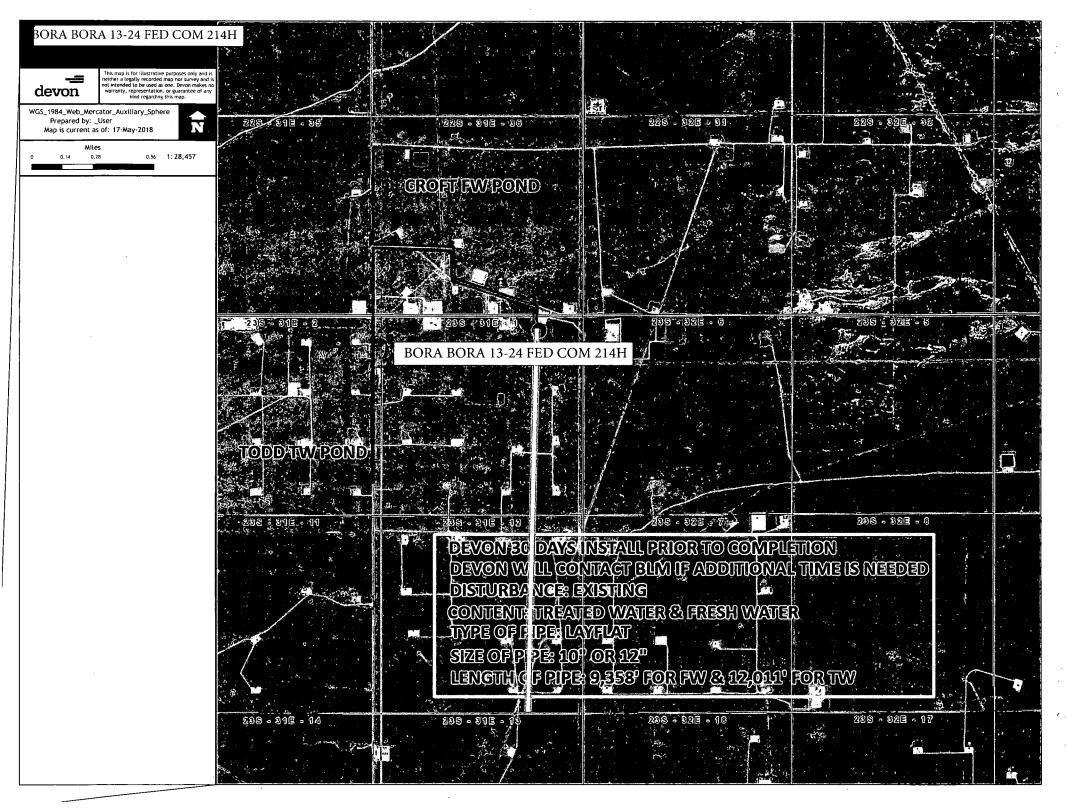
LAND STATUS: BLM

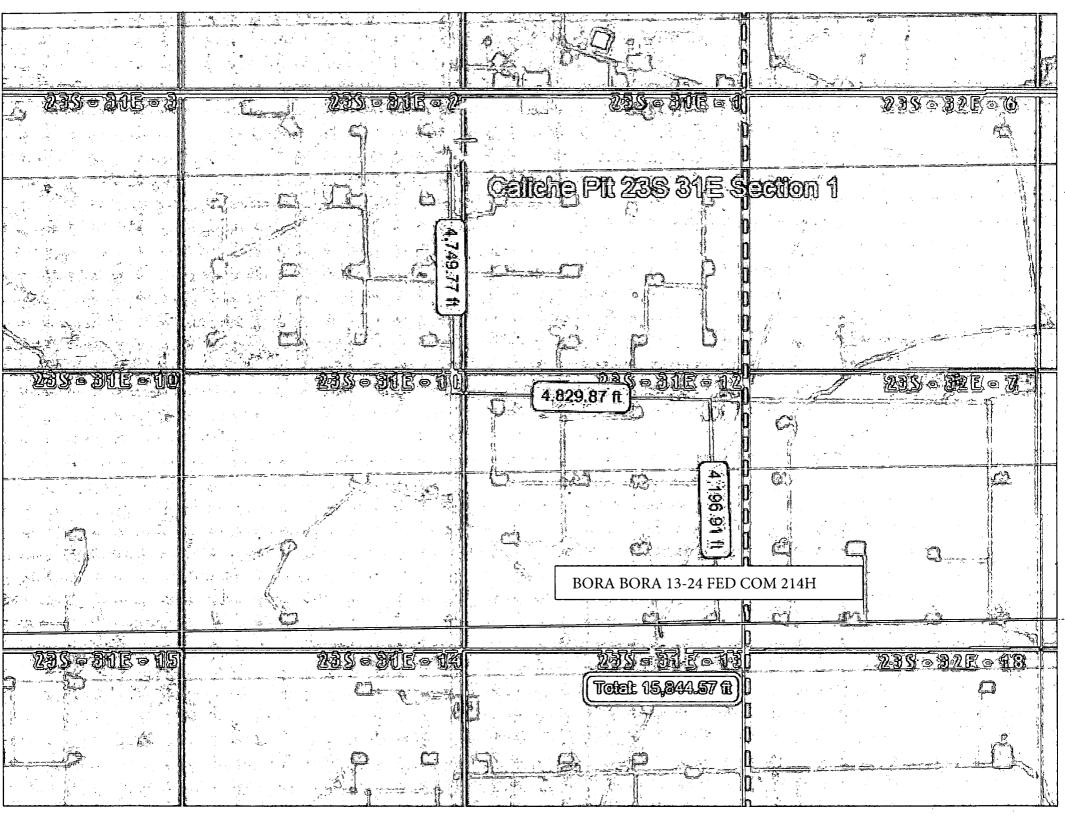
NOVEMBER 15, 2018

SURVEY NO. 6674A

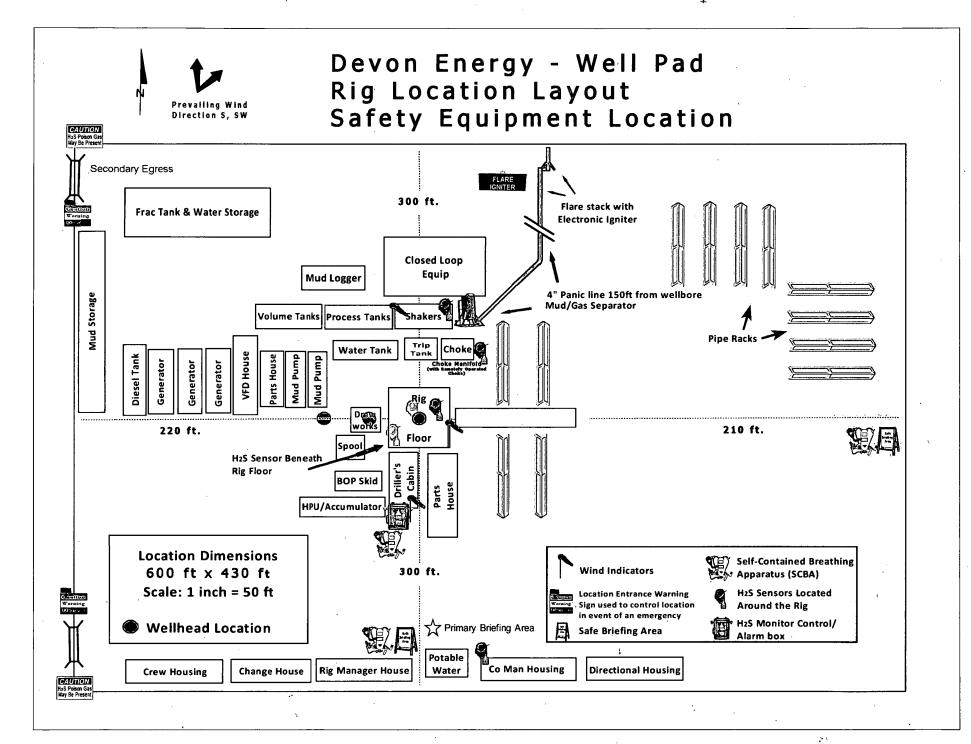
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO







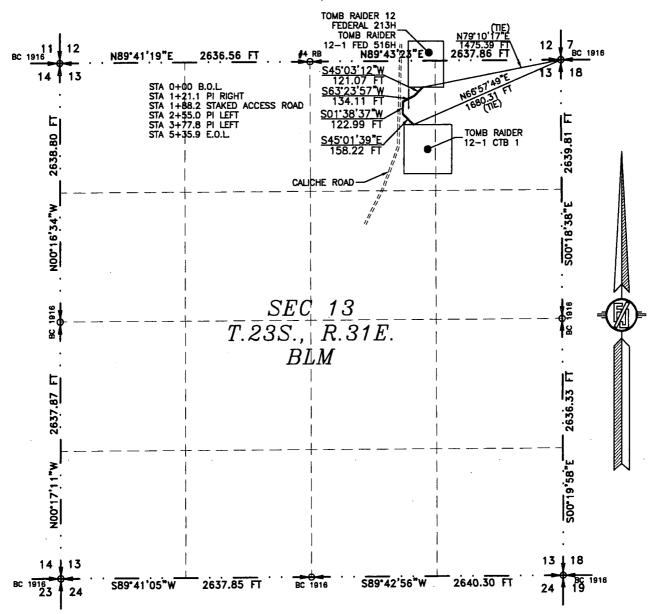
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FLOWLINE PLAT

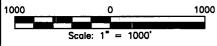
TWO-8" POLY FLOWLINES & ONE-6" CAS LIFT LINE BURIED IN THE SAME DITCH FROM TOMB RAIDER 12 FEDERAL 213H & TOMB RAIDER 12-1 FED 516H TO TOMB RAIDER 12-1 CTB 1

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



SEE NEXT SHEET (2-4) FOR DESCRIPTION

ÍNC.



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,

ARLSBAD

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220

NEW MEXICO

SURVEY NO. 5406A

Phone (575) 234-3341

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

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 BO DAY OF MAY 2018

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

SURVEY NO. 5406A

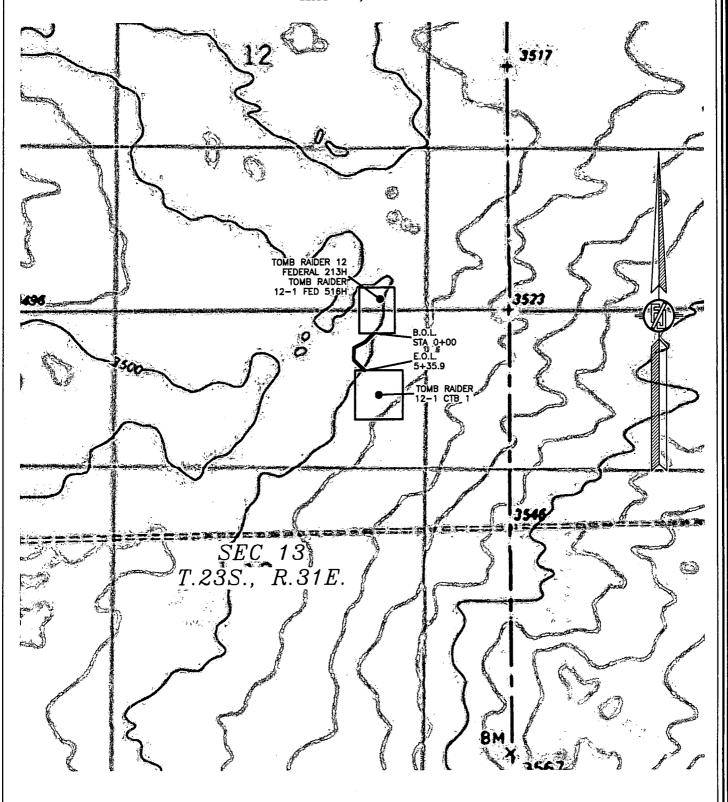
FILMON F / JARAMILLO PLS 12797

INC. 1515) 234-3341 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: 3-4

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

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

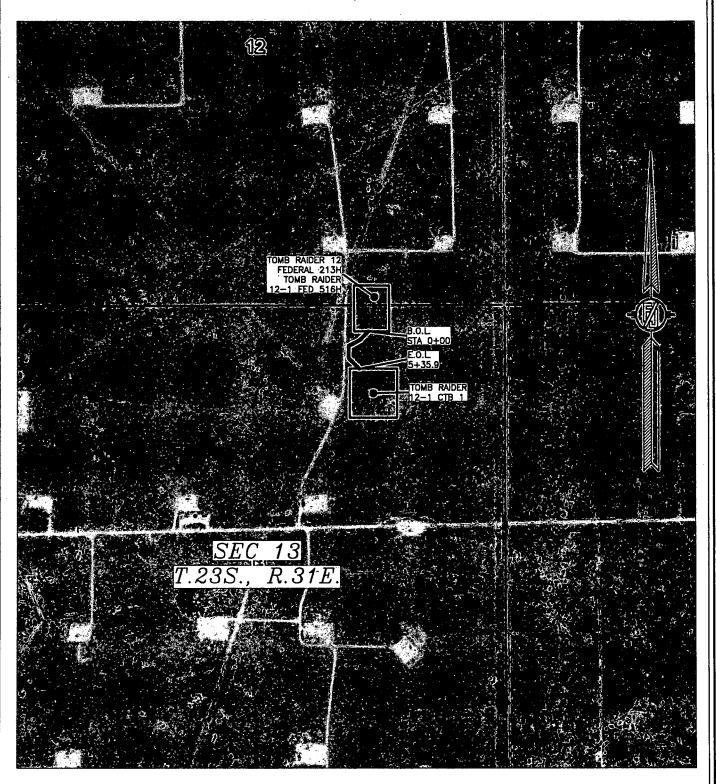
DEVON ENERGY PRODUCTION COMPANY, L.P.

CENTERLINE SURVEY OF A PIPELINE CROSSING

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

EDDY COUNTY, STATE OF NEW MEXICO

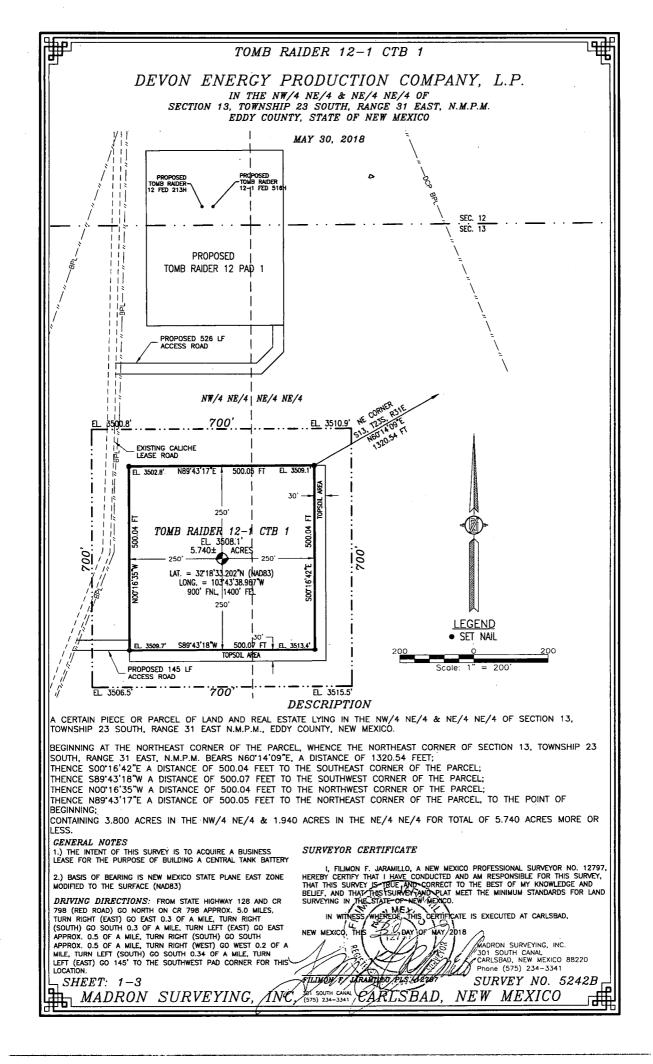
MAY 29, 2018

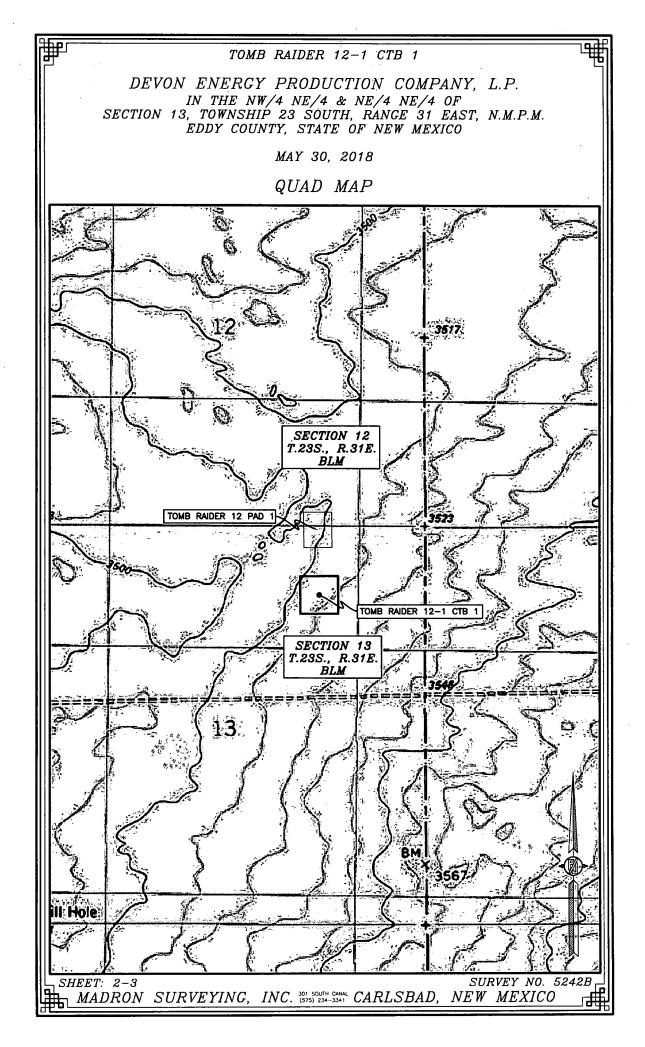


SHEET: 4-4

SURVEY NO. 5406A

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





TOMB RAIDER 12-1 CTB 1

DEVON ENERGY PRODUCTION COMPANY, L.P.

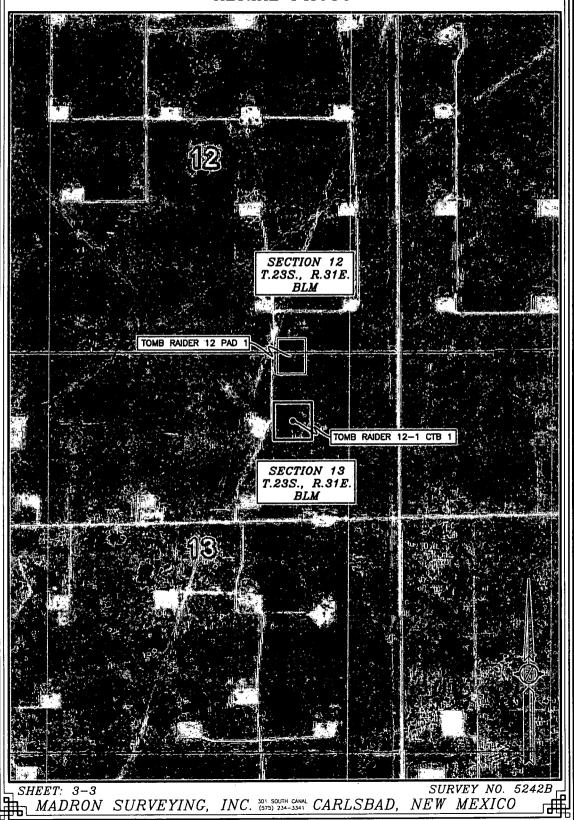
IN THE NW/4 NE/4 & NE/4 NE/4 OF

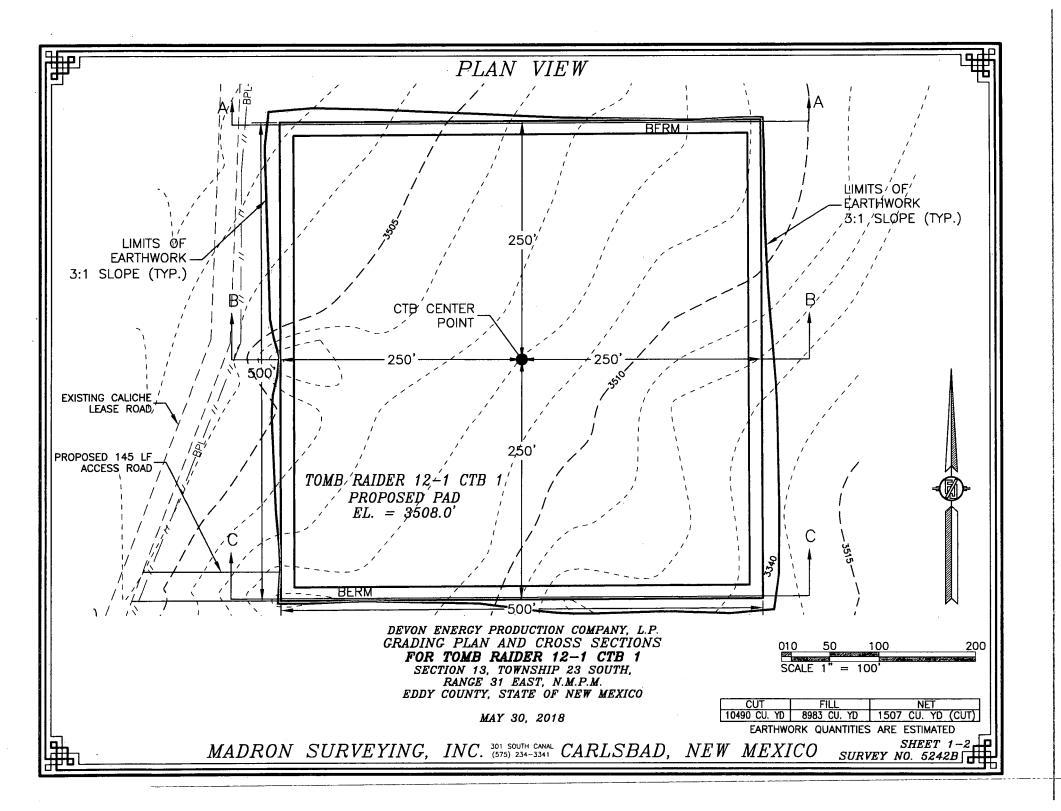
SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.

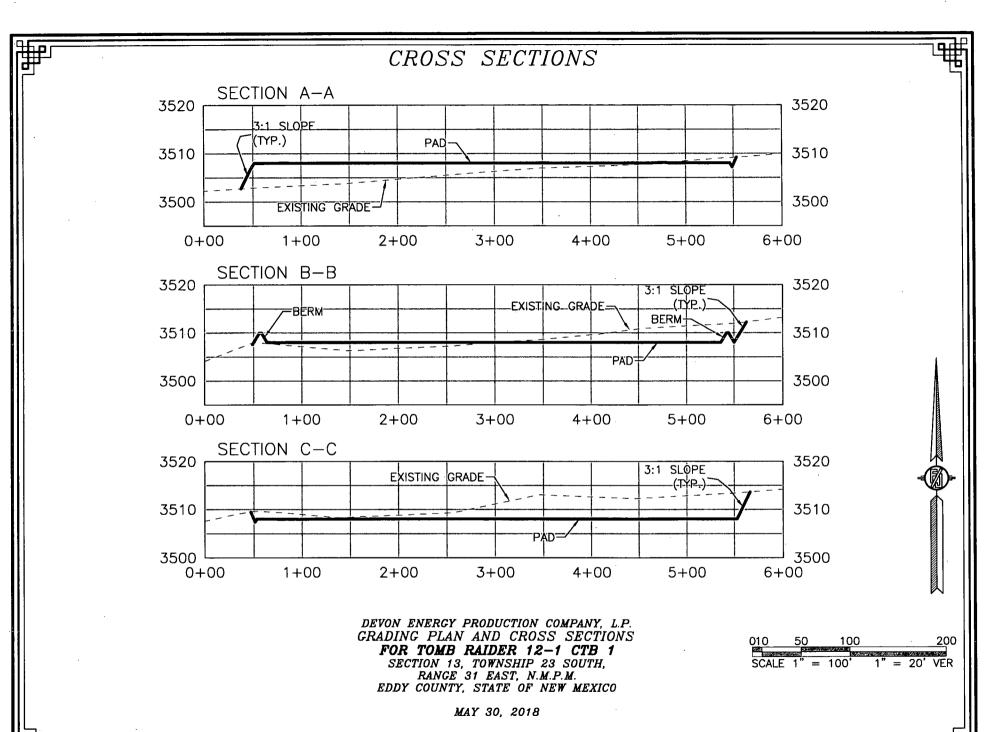
EDDY COUNTY, STATE OF NEW MEXICO

MAY 30, 2018

AERIAL PHOTO







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

SHEET 2-2 SURVEY NO. 5242B

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) 11 N89°43'23"E 2637.86 FT 2636.56 FT BC 1916 13 18 STA 14+60.8 E.O.R. (TIE) STA 13+95.7 PI LEFT N77"29"08"E STA 13+22.7 PI LEFT 1273.94 FT STA 9+25.5 PI RIGHT N01°39'59"6 516.96 FT ᇉ 8 8 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"E 2233.89 FT BC 1916 BC 1916 BLMᆫ

SEE NEXT SHEET (2-2) FOR DESCRIPTION

2637.85 FT



GENERAL NOTES

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

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

SHEET: 1-2

MADRON SURVEYING,

S89°41'05"W

SURVEYOR CERTIFICATE

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

2640.30 FT

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS CONTROL TO THE SECURIOR TO TH

ÀRLS BAD

S89*42'56"W

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

S00*19

13 | 18

19^{BC} 1916

SURVEY NO. 5242B

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 SURVEY:

BEGINNING AT A POINT WITHIN THE NW/4 NE/4 OF SAID SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE EAST QUARTER CORNER OF SAID SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS S47*55'48"E, A DISTANCE OF 2233.89 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 NE/4 NE/4 159.57 L.F. 9.67 RODS 0.110 ACRES

SURVEYOR CERTIFICATE

GENERAL NOTES

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

SHEET: 2-2

MADRON SURVEYING,

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

OF MAY 2018

SARAMILLO/F

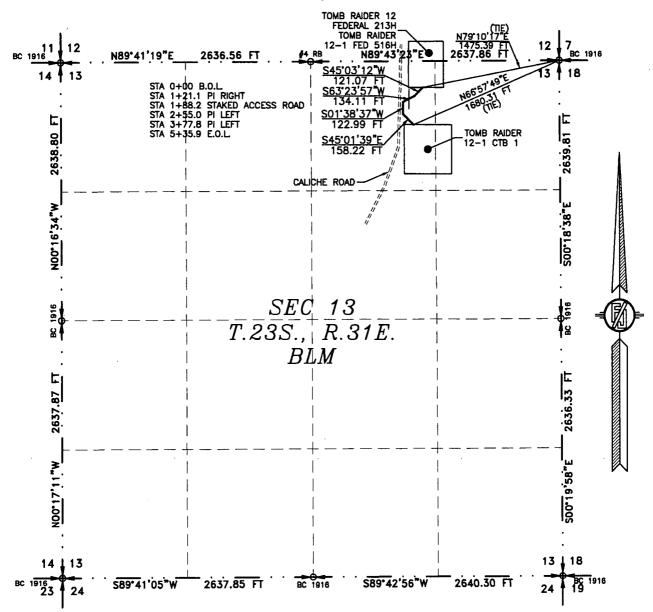
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341

SURVEY NO. 5242B

. 1001 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



SEE NEXT SHEET (2-4) FOR DESCRIPTION

ÍNC.



GENERAL NOTES

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

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

SHEET: 1-4

MADRON SURVEYING

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 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.

WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THE TOWN PLANTIE DO PUS

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

SURVEY NO. 5406A

 $\overline{AR}LSBAD.$ *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 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 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

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: 2-4

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,

0 NEW MEXICO, THIS 2018

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

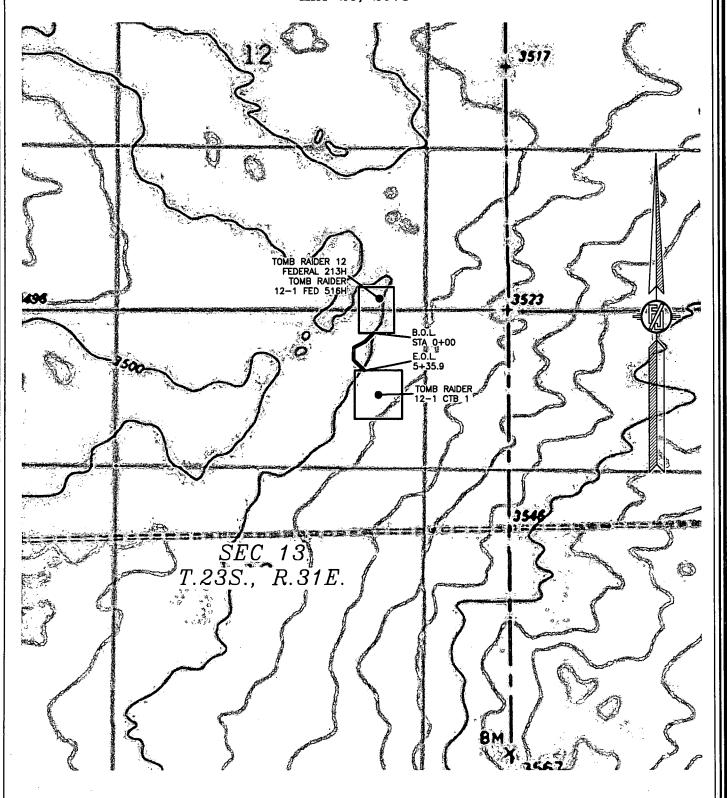
SURVEY NO. 5406A

IT 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: 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

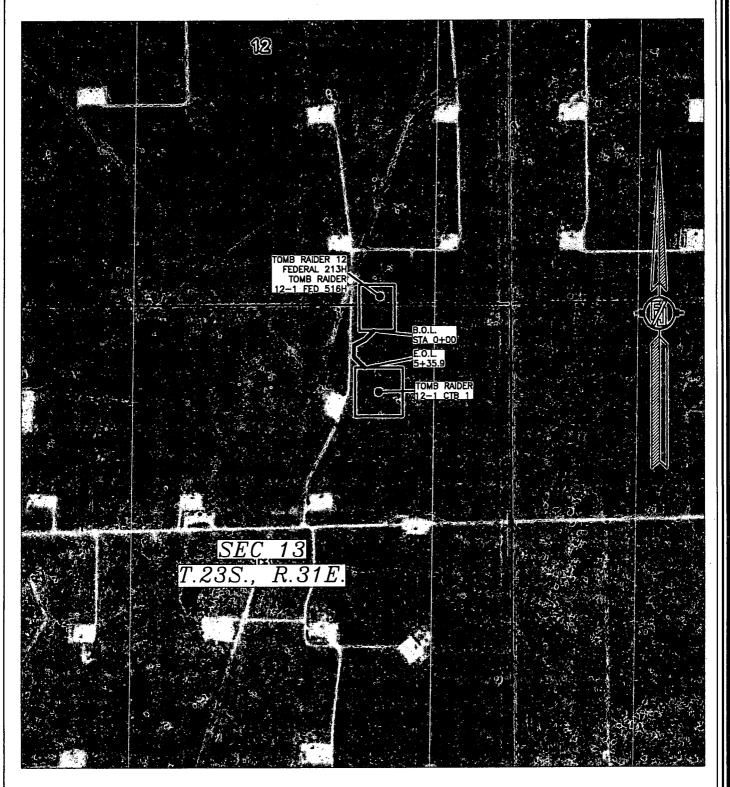
DEVON ENERGY PRODUCTION COMPANY, L.P.

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



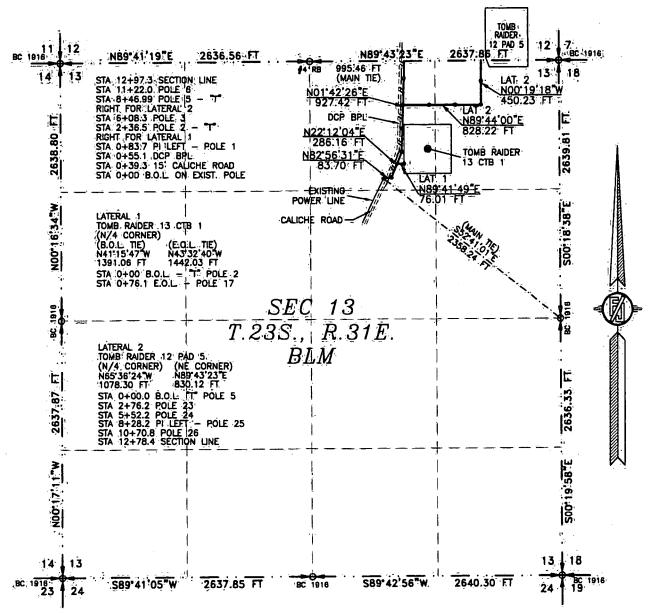
SHEET: 4-4

SURVEY NO. 5406A

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

ELECTRIC LINE TO CONNECT TOMB RAIDER 18 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

1000 1000 = 1000 Scale: 1

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 WHEREOE, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

DAY OF JUNE 2016 NEW MEXICO.

CARLSBAD

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

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, NM.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 552 41'01"E, A DISTANCE OF 2358.24 FEET;

THÊNCE N82'56'31"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 589 43 23 W. A DISTANCE OF 995.46 FEET;

'SÁID STRIP' OF LAND BEING 1297,28 FÉET 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 N417 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 NOS 36'24"W, A DISTANCE OF 1078.30 FEET;

THENCE N89'44'00"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
OUARTER CORNER OF SAID SECTION 13, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N89'43'23"E, A DISTANCE OF 830.12 FEET;

SAID STRIP OF LAND BEING 1278.45 FEET OR 77.46 RODS IN LENGTH, CONTAINING 0.880 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

20.56 RODS 0.234 ACRES NW/4 NE/4 339.30 L.F. NE/4 NE/4 56.92 RODS 939.15 L.F. 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,

DAY OF NEW MEXICO, 1

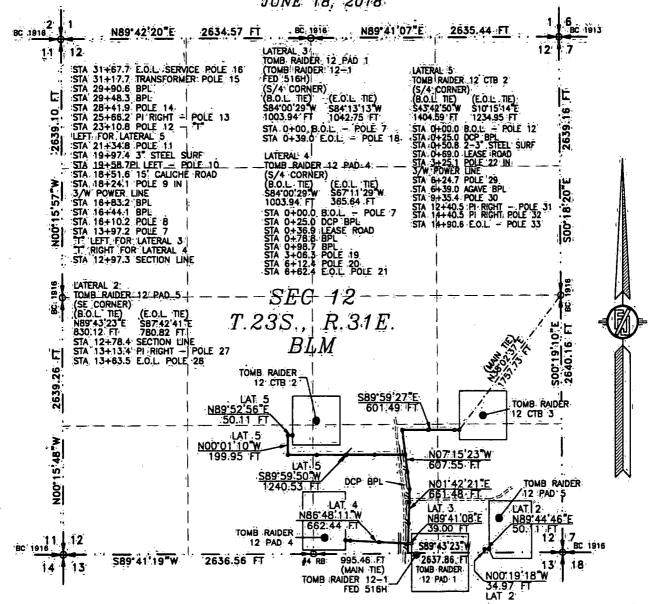
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-33431

SURVEY NO. 6299

INC. (575). 234-53-1 CARLSBAD

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 ÉLECTRIC 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 NAVO 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 3-7

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 HIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITHERS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS DAY OF HONE 2018

MADRON SURVEYING, INC.

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

SURVEY NO. 6299

RLSBAD

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, NIM.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED, CENTERLINE SURVEY:

MÁIN LÍNE — TOMB: RAIDER 12 CTB 3
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 SB9 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 523"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 LF. 99.57 RODS 1,132 ACRES SE/4 SE/4 227.57 LF. 13:79 RODS 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 NOO'19'18"W A DISTANCE OF 34.97 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N89'44'46"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 LF. 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 S84 00 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 S84 13 13 W, A
DISTANCE OF 1042.75 FEET;

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

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

SURVEYOR CERTIFICATE

CENERAL 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: 4=7

MADRON SURVEYING INC. (575) 234-6341

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 DAY OF JUNE 2018

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

Phone (575) 234-3341

SURVEY NO. 6299

ZARLSBAD, NEW MEXICO

ELECTRIC LINE TO CONNECT TOMB RAIDER 13 CTB 1. TOMB RAIDER 12 PAD 1 (TOMB RAIDER 12-14 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"W 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 S6711'29"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 S89 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 SIOTS 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, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT LEHAVE-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.

DAY OF JUNE NEW MEXICO :DHIS

ADRON SURVEYING, INC. CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341

SURVEY NO. 6299

NEW MEXICO

(575) 234-

CARLSBAD.



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

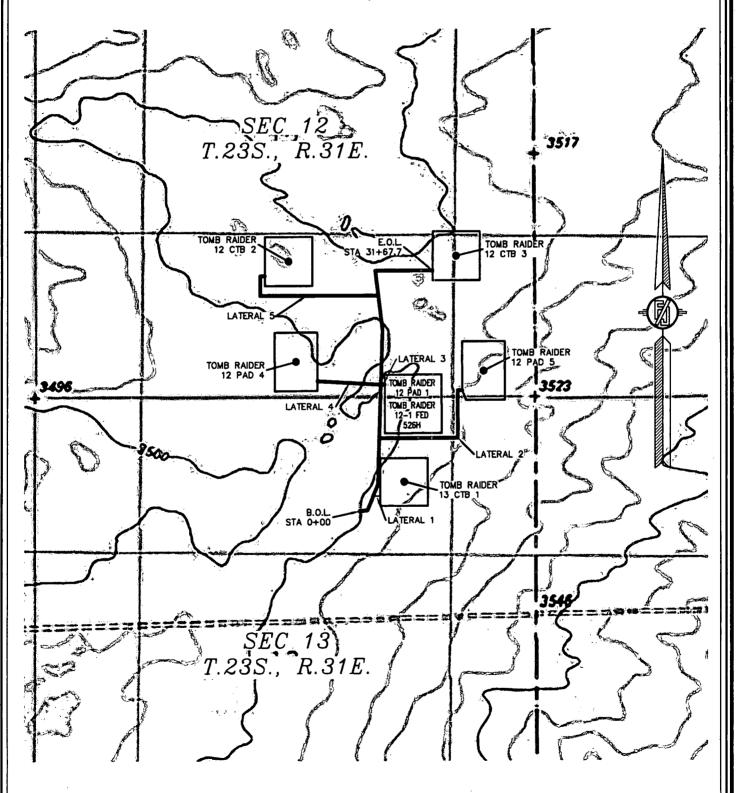
DEVON ENERGY PRODUCTION COMPANY, L.P.

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

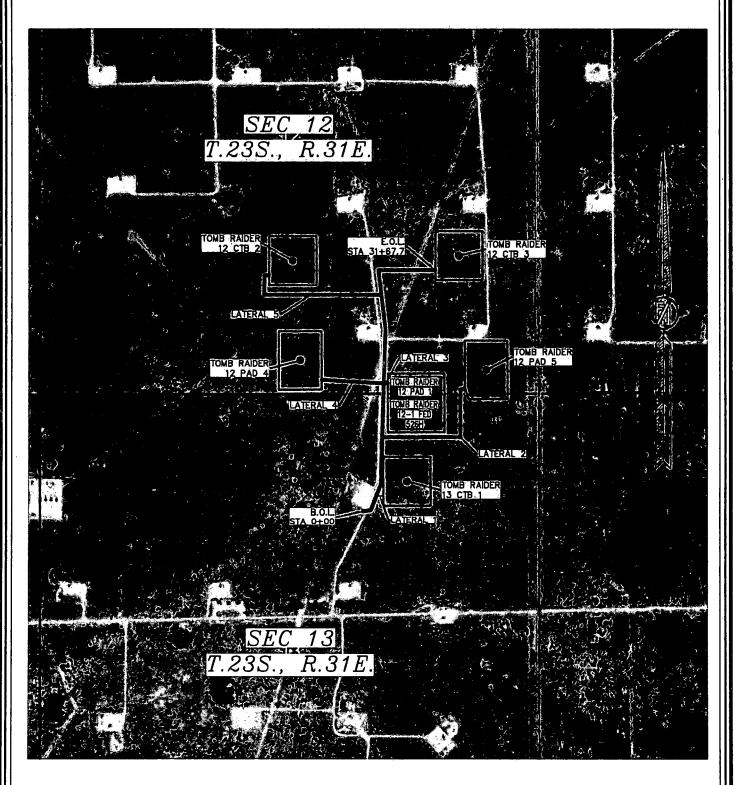
DEVON ENERGY PRODUCTION COMPANY, L.P.

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



Receipt

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

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

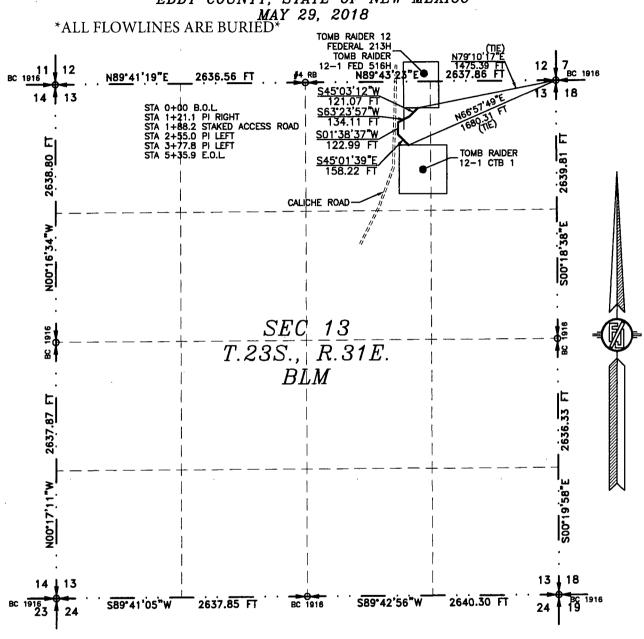
Routing Number: 061000052

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



SEE NEXT SHEET (2-4) FOR DESCRIPTION

ÍNC.



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. I, FILIMUN 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 WHEREOE, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO,

TRLSBAD

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220

SURVEY NO. 5406A

Phone (575) 234-3341

BURIED **FLOWLINE PLAT**

TWO-8" POLY FLOWLINES & ONE-6" GAS LIFT LINE BURIED IN THE SAME DITCH FROM TOMB RAIDER 12 FEDERAL 21SH & 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:

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

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.

WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD, in witness

NEW MEXICO, THIS 30

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

SURVEY NO. 5406A

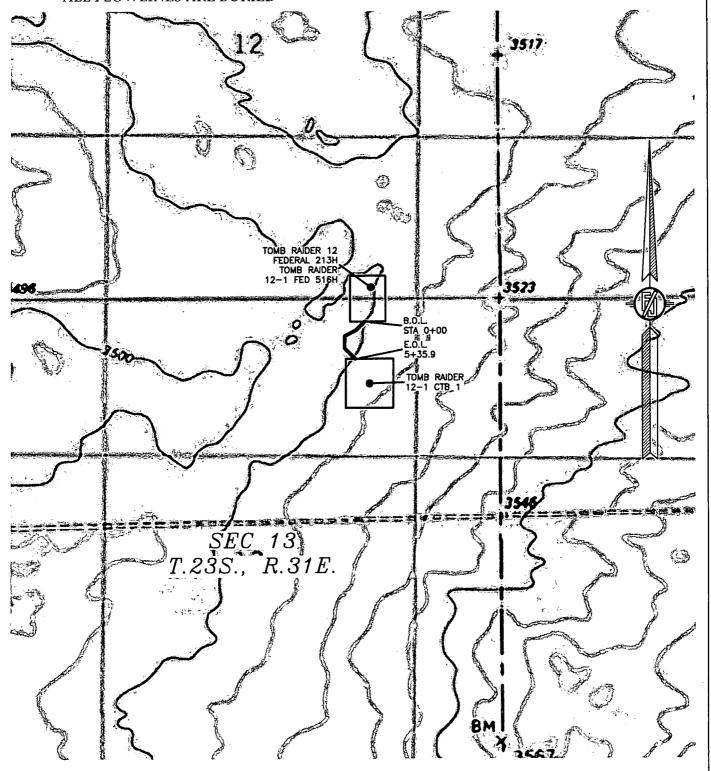
FILMON F/ JARAMILEO, PLS. 512757

INC. 1875) 234-3341 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 *ALL FLOWLINES ARE BURIED* MAY 29, 2018



SHEET: 3-4

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

SURVEY NO. 5406A

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

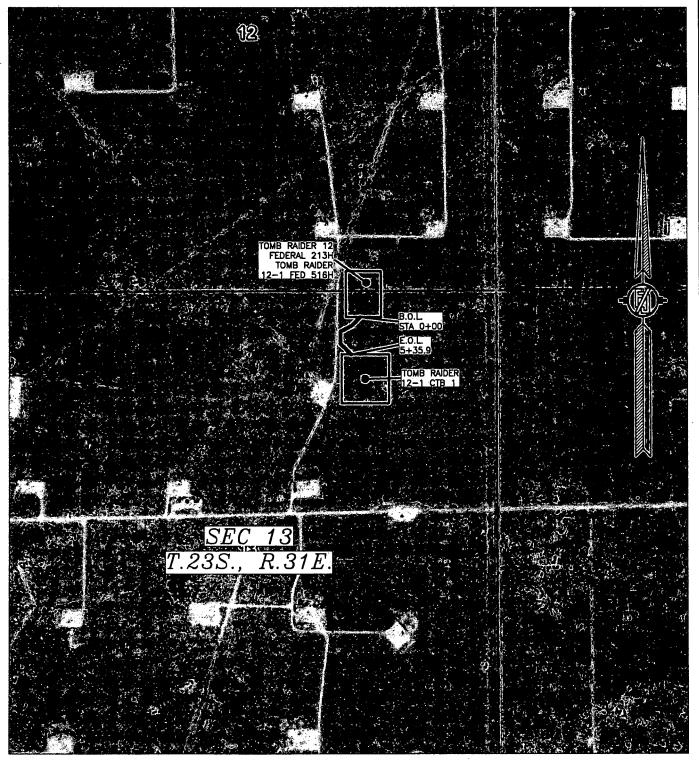
DEVON ENERGY PRODUCTION COMPANY, L.P.

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

SECTION STATES

Submission Date: 11/26/2018

PWD Data Repor

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BORA BORA 13-24 FED COM

Well Number: 214H

Well Type: OIL WELL

APD ID: 10400036665

Well Work Type: Drill

Section 1 - General

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

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Well Name: BORA BORA 13-24 FED COM Well Number: 214H

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:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

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

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP Well Name: BORA BORA 13-24 FED COM Well Number: 214H Is the reclamation bond a rider under the BLM bond? Unlined pit bond number: Unlined pit bond amount: Additional bond information attachment: Section 4 - Injection Would you like to utilize Injection PWD options? NO **Produced Water Disposal (PWD) Location:** PWD surface owner: PWD disturbance (acres): Injection PWD discharge volume (bbl/day): Injection well mineral owner: Injection well type: Injection well number: Injection well name: Injection well API number: Assigned injection well API number? Injection well new surface disturbance (acres): Minerals protection information: Mineral protection attachment: **Underground Injection Control (UIC) Permit? UIC Permit attachment:** Section 5 - Surface Discharge Would you like to utilize Surface Discharge PWD options? NO **Produced Water Disposal (PWD) Location:** PWD surface owner: PWD disturbance (acres): 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):

Well Name: BORA BORA 13-24 FED COM Well Number: 214H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



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

Bond Info Data Report

Submission Date: 11/26/2018

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BORA BORA 13-24 FED COM

Well Number: 214H

Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Bond Information

Well Type: OIL WELL

APD ID: 10400036665

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: