Form 3160-3 (June 2015)

NM OIL CONSERVATION

ARTESIA DISTRICT

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

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OCT 15 2019

5. Lease Serial No.

NMNM0404441

APPLICATION FOR PERMIT TO DR	ILL OR REENTED	6. If Indian, Allotee or Tribe Name
1a. Type of work: PRILL REE	ENTER	7. If Unit or CA Agreement, Name and No.
1b. Type of Well: Oil Well Gas Well Other	er	8. Lease Name and Well No.
1c. Type of Completion: Hydraulic Fracturing Sing	ele Zone Multiple Zone	BELLOQ 11-2/FED STATE COM
		521H 3 224875
Name of Operator DEVON ENERGY PRODUCTION COMPANY LP	^	9/API-Well No. (1) - 4/6-395
	b. Phone No. (include area code) 800)583-3866	10. Field and Pool, of Exploratory
4. Location of Well (Report location clearly and in accordance wit	h any State requirements.*)	11. Sec., T. R. M. or Blk. and Survey or Area
At surface SWSW / 300 FSL / 660 FWL / LAT 32.312565	55 / LONG -103.754988	SEC 11/1235/ R31E / NMP
At proposed prod. zone LOT 4 / 20 FNL / 400 FWL / LAT 3	2.3406799 / LONG -103.755 86 53	
14. Distance in miles and direction from nearest town or post office	*	12. County or Parish 13. State EDDY NM
location to nearest	6. No of acres in lease 17. Spacin	g.Unit dedicated to this well
18. Distance from proposed location*	9. Proposed Depth 20/BLM/ 040/feet /19267 feet FED: CO	BIA Bond No. in file
7:8	2. Approximate date work will start*	23. Estimated duration
	2/19/2019	45 days
	24. Attachments	
The following, completed in accordance with the requirements of O (as applicable)	nsnore Oil and Gas Order No. 1, and the H	ydraulic Fracturing rule per 43 CFR 3162.3-3
Well plat certified by a registered surveyor. A Drilling Plan.	4. Bond to cover the operations Item 20 above).	s unless covered by an existing bond on file (see
3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office).		mation and/or plans as may be requested by the
25. Signature (Electronic Submission)	Name (Printed/Typed) Jenny Harms / Ph: (405)524-4902	Date 01/31/2019
Title Regulatory Compliance Professional		
Approved by (Signature)	Name (Printed/Typed)	Date
(Electronic Submission)	Cody Layton / Ph: (575)234-5959	10/04/2019
Title (A StantyField Manager Lands)& Minerals	Office CARLSBAD	
Application approval does not warrant or certify that the applicant happlicant to conduct operations thereon. Conditions of approval, if any, are attached.	olds legal or equitable title to those rights i	n the subject lease which would entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make of the United States any false, fictitious or fraudulent statements or		
		····

APPROVED WITH CONDITIONS
APProval Date: 10/04/2019

RN10-18-19

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 land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

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

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

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

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

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

(Form 3160-3, page 2)

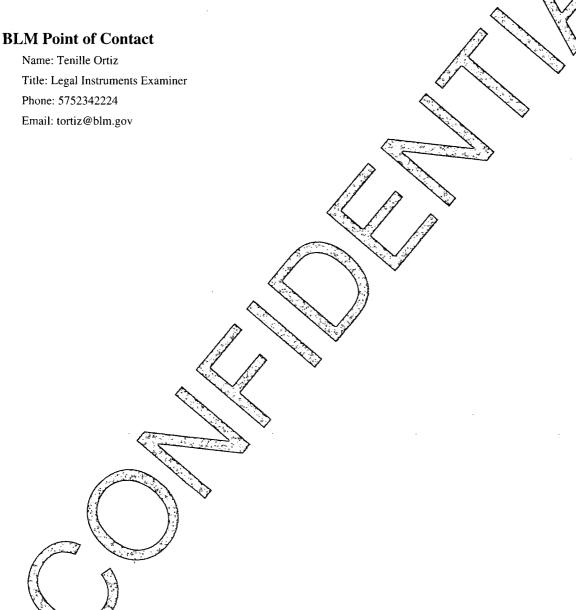
Additional Operator Remarks

Location of Well

1. SHL: SWSW / 300 FSL / 660 FWL / TWSP: 23S / RANGE: 31E / SECTION: 11 / LAT: 32.3125655 / LONG: -103.754988 (TVD: 0 feet, MD: 0 feet)

PPP: SWSW / 100 FSL / 400 FWL / TWSP: 23S / RANGE: 31E / SECTION: 11 / LAT: 32.3120179 / LONG: -103.7558293 (TVD: 9640 feet, MD: 8704 feet)

BHL: LOT 4 / 20 FNL / 400 FWL / TWSP: 23S / RANGE: 31E / SECTION: 2 / LAT: 32.3406799 / LONG: -103.7558653 (TVD: 9040 feet, MD: 19267 feet)



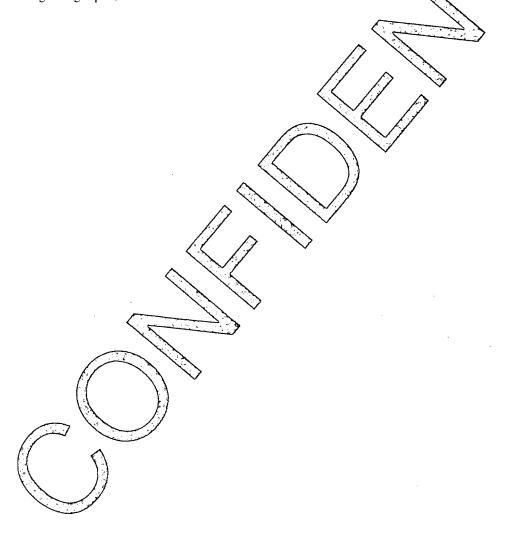
(Form 3160-3, page 3)

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.

Geologic Conditions of Approval

All APDs in Basin Areas need to consist of: Rustler Top of Salt Base of Salt Lamar Bell Canyon Cherry Canyon Brushy Canyon Bone Springs Lime 1st Bone Sand 2nd Bone Sand 3rd Bone Lime (if near or in Potash Area) 3rd Bone Sand Wolfcamp Strawn *All formation casing setting depths, TVD formations.



(Form 3160-3, page **5**)

Approval Date: 10/04/2019

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Devon Energy Production Company L.P.

LEASE NO.: NMNM0404441

WELL NAME & NO.: | BELLOQ 11-2 FED STATE COM 521H

SURFACE HOLE FOOTAGE: 300'/S & 660'/W **BOTTOM HOLE FOOTAGE** 20'/N & 400'/W

LOCATION: Section 11, T.23 S., R.31 E., NMPM

COUNTY: Eddy County, New Mexico

COA

H2S	• Yes	CNo	
Potash	C None	© Secretary	© R-111-P
Cave/Karst Potential	© Low	○ Medium	C High
Variance	© None	© Flex Hose	O Other
Wellhead	• 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 Dunes**, the **Salad**, and **Bone Spring** 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 764 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 4325 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.

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.

Operator has proposed to pump down 13-3/8" X 9-5/8" annulus. Operator must run a CBL from TD of the 9-5/8" casing to surface. Submit results to BLM.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

Cement excess is less than 25%, more cement might be required. (-10.38%)

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.

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.

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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.

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PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:
WELL NAME & NO.:
BELLOQ 11-2 FED STATE COM
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
Devon Energy Production Company L.P.
BELLOQ 11-2 FED STATE COM
300'/S & 660'/W
20'/N & 400'/W
Section 11, 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
Range
Potash
☐ Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
☐ Road Section Diagram
▼ Production (Post Drilling)
Well Structures & Facilities
Pipelines
Electric Lines
Oil and Gas Related sites
☐ 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.

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V. SPECIAL REQUIREMENT(S)

<u>Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:</u>

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

<u>Ground-level Abandoned Well Marker to avoid raptor perching</u>: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

Lessees must comply with the 2012Secretarial Potash Order. The Order is designed to manage the efficient development of oil, gas, and potash resources. Section 6 of the Order provides general provisions which must be followed to minimize conflict between the industries and ensure the safety of operations.

To minimize impacts to potash resources, the proposed well is confined within the boundaries of the established Uber North Drill Island (See Potash Memo and Map in attached file for Drill Island description).

Livestock Watering Requirement

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

Fence Requirement

Where entry is granted across a fence line, the fence must be braced and tied off on both sides of the passageway with H-braces prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

The operator must contact the allotment holder prior to construction to identify the location of the pipeline. The operator must take measures to protect the pipeline from compression or other damages. If the pipeline is damaged or compromised in any way near the proposed project as a result of oil and gas activity, the operator is responsible for repairing the pipeline immediately. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

During construction, the proponent shall minimize disturbance to existing fences, water lines, troughs, windmills, and other improvements on public lands. The proponent is required to promptly repair improvements to at least their former state. Functional use of these

improvements will be maintained at all times. The holder will contact the grazing permittee/allottee prior to disturbing any range improvement projects. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

VI. CONSTRUCTION

A. NOTIFICATION

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

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

B. TOPSOIL

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

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

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

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

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

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

G. ON LEASE ACCESS ROADS

Road Width

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

Surfacing

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

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

Turnouts

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

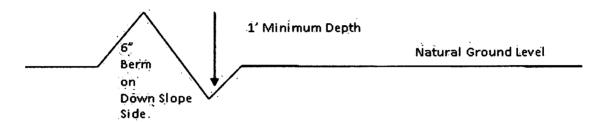
Drainage

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

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

Cross Section of a Typical Lead-off Ditch



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

Formula for Spacing Interval of Lead-off Ditches

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

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

Cattle guards

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

Fence Requirement

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

Public Access

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

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Construction Steps

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

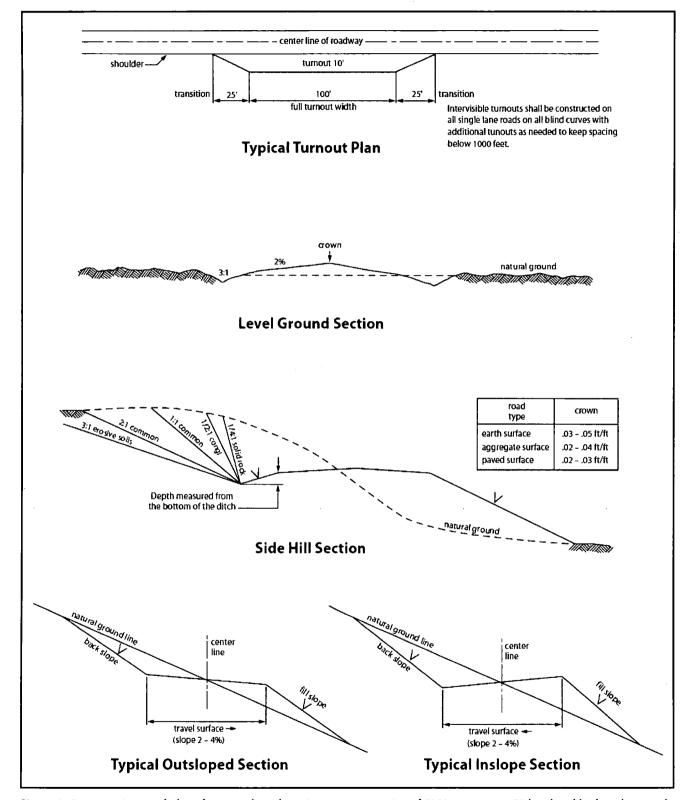


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

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

Exclosure Netting (Open-top Tanks)

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

Chemical and Fuel Secondary Containment and Exclosure Screening

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

Open-Vent Exhaust Stack Exclosures

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

Containment Structures

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

Painting Requirement

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

B. PIPELINES

BURIED PIPELINE STIPULATIONS

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

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

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

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

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

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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 sto blend with the natural color of the landscape. "Standard Environmental Colors" – Shale Gree				
14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.				
15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.				
16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.				

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.

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

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

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

- 1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the

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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 activity of the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. The holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:
 - a. Activities of the holder including, but not limited to construction, operation, maintenance, and termination of the facility.
 - b. Activities of other parties including, but not limited to:
 - (1) Land clearing.
 - (2) Earth-disturbing and earth-moving work.
 - (3) Blasting.
 - (4) Vandalism and sabotage.
 - c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the 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 the holder

of any responsibility as provided herein.

- 6. All construction and maintenance activity will be confined to the authorized right-of-way width of 20 feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline must be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline must be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity will be confined to existing roads or right-of-ways.
- 7. No blading or clearing of any vegetation will be allowed unless approved in writing by the Authorized Officer.
- 8. The holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline will be "snaked" around hummocks and dunes rather then suspended across these features.
- 9. The pipeline shall be buried with a minimum of <u>24</u> inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.
- 10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.
- 13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.

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- 14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.
- 15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.
- 16. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
- 17. Surface pipelines must be less than or equal to 4 inches and a working pressure below 125 psi.

18. Special Stipulations:

a. <u>Lesser Prairie-Chicken</u>: Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted.

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

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

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

- 1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, 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.

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- 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

Page 19 of 26

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.

STANDARD STIPULATIONS FOR OIL AND GAS RELATED SITES

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

The holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer, BLM.

- 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 and for all response costs, penalties, damages, claims, and other costs arising from the provisions of the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. Chap. 82, Section 6901 et. seq., from the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. Chap. 109, Section 9601 et. seq., and from other applicable environmental statues.
- 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 U.S.C. 2601, et. seq.) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized by this 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). This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. If, during any phase of the construction, operation, maintenance, or termination of the site or related pipeline(s), any oil or other pollutant should be discharged from site

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facilities, the pipeline(s) or from containers or vehicles impacting Federal lands, the control and total removal, disposal, and cleanup of such oil of other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages to Federal lands resulting therefrom, the Authorized Officer may take such measures as deemed necessary to control and cleanup 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 the holder of any liability or responsibility.

- 5. Sites shall be maintained in an orderly, sanitary condition at all times. Waste materials, both liquid and solid, shall be disposed of promptly at an appropriate, authorized waste disposal facility in accordance with all applicable State and Federal laws. "Waste" means all discarded matter including, but not limited to, human waste, trash, garbage, refuse, petroleum products, brines, chemicals, oil drums, ashes, and equipment.
- 6. The operator will notify the Bureau of Land Management (BLM) authorized officer and nearest Fish and Wildlife Service (FWS) Law Enforcement office within 24 hours, if the operator discovers a dead or injured federally protected species (i.e., migratory bird species, bald or golden eagle, or species listed by the FWS as threatened or endangered) in or adjacent to a pit, trench, tank, exhaust stack, or fence. (If the operator is unable to contact the FWS Law Enforcement office, the operator must contact the nearest FWS Ecological Services office.)
- 7. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" designated by the Rocky Mountain Five-State Interagency Committee. The color selected for this project is **Shale Green**, Munsell Soil Color Chart Number 5Y 4/2.
- 8. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The 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 the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.
- 9. A sales contract for removal of mineral material (caliche, sand, gravel, fill dirt) from an authorized pit, site, or on location must be obtained from the BLM prior to commencing construction. There are several options available for purchasing mineral material: contact the BLM office (575-234-5972).

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- 10. 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.
- 11. Once the site is no longer in service or use, the site must undergo final abandonment. At final abandonment, the site 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 the abandonment of the site. All pads and 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. 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).

- 12. The holder shall stockpile an adequate amount of topsoil where blading occurs. The topsoil to be stripped is approximately ___6__ inches in depth. The topsoil will be segregated from other spoil piles. The topsoil will be used for final reclamation.
- 13. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

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

- 14. In those areas where erosion control structures are required to stabilize soil conditions, the holder shall install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound management practices. Any earth work will require prior approval by the Authorized Officer.
- 15. Open-topped Tanks 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,

Page 22 of 26

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

16. 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 1½ inches.

- 17. 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.
- 18. 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.

19. Special Stipulations:

• The entire well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The berm shall be maintained through the life of the well and after interim reclamation has been completed.

Any water erosion that may occur due to the construction of the well pad during the life of the
well will be corrected within two weeks and proper measures will be taken to prevent future
erosion.

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 permanent engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

VIII. INTERIM RECLAMATION

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

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

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

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

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

IX. FINAL ABANDONMENT & RECLAMATION

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

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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 no 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:

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass Sand Bluestem Little Bluestem Big Bluestem Plains Coreopsis Sand Dropseed	5lbs/A 5lbs/A 3lbs/A 6lbs/A 2lbs/A 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: 01/30/2019

Title: Regulatory Compliance Professional

Street Address: 333 W SHERDIAN AVE

City: OKLAHOMA CITY State: OK Zip: 73170

Phone: (405)524-4902

Email address: RAY.VAZ@DVN.COM

Field Representative

Representative Name: Ray Vaz

Street Address: 6488 Seven Rivers Hwy

City: Artesia State: NM Zip: 88210

Phone: (575)748-1871

Email address: ray.vaz@dvn.com



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

Application Data Report

10/09/2019

APD ID: 10400038616

Submission Date: 01/31/2019

Highlighted data reflects the most recent changes

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Number: 521H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

Well Name: BELLOQ 11-2 FED STATE COM

APD ID:

10400038616

Tie to previous NOS?

Submission Date: 01/31/2019

BLM Office: CARLSBAD
Federal/Indian APD: FED

User: Jenny Harms

Title: Regulatory Compliance

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: BELLOQ 11-2 FED STATE COM

Well Number: 521H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: LIVINGSTON

Pool Name: BONESPRING

RIDGE

Well Name: BELLOQ 11-2 FED STATE COM

Well Number: 521H

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

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:

Number: 2

Well Class: HORIZONTAL

BELLOQ 11 PAD Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:
Distance to town:

Distance to nearest well: 260 FT

Distance to lease line: 300 FT

Reservoir well spacing assigned acres Measurement: 640 Acres

Well plat:

BELLOQ_11_2_FED_STATE_COM_521H_WL_P_signed_1_30_2019_20190130053223.pdf

Well work start Date: 12/19/2019

Duration: 45 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

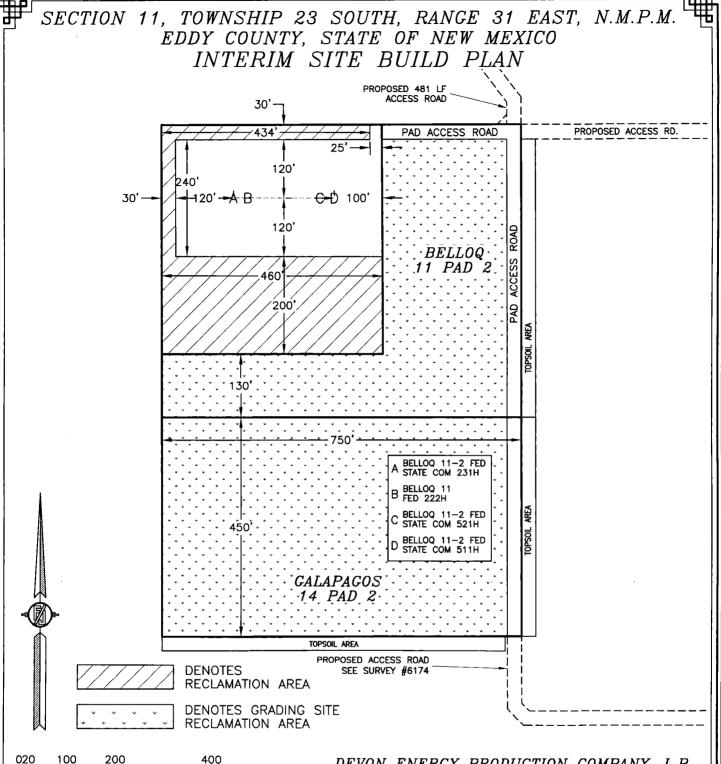
Datum: NAD83

Vertical Datum: NAVD88

Survey number: 6708

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	300	FSL	660	FWL	238	31E	11	Aliquot SWS W	32.31256 55	- 103.7549 88	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 040444 1	343 0	0	0
KOP Leg #1	50	FSL	400	FWL	23S	31E	11	Aliquot SESE	32.31194	- 103.7558	EDD Y	1	NEW MEXI CO	F	NMNM 040444 1	- 502 2	846 3	845 2
PPP Leg #1	100	FSL	400	FWL	23S	31E	11	Aliquot SWS W	32.31201 79	- 103.7558 293	EDD Y	NEW MEXI CO	• • • • • • • • • • • • • • • • • • •		NMNM 040444 1	- 525 6	870 4	868 6



020 100 200 400 SCALE 1" = 200'

2.575± ACRES INTERIM PAD RECLAMATION AREA
12.216± ACRES GRADING SITE RECLAMATION AREA
3.289± ACRES NON-RECLAIMED AREA
18.080± ACRES BELLOQ & GALAPAGOS WELL PAD

DEVON ENERGY PRODUCTION COMPANY, L.P.

BELLOQ 11-2 FED STATE COM 521H

LOCATED 300 FT. FROM THE SOUTH LINE

AND 660 FT. FROM THE WEST LINE OF

SECTION 11, TOWNSHIP 23 SOUTH,

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

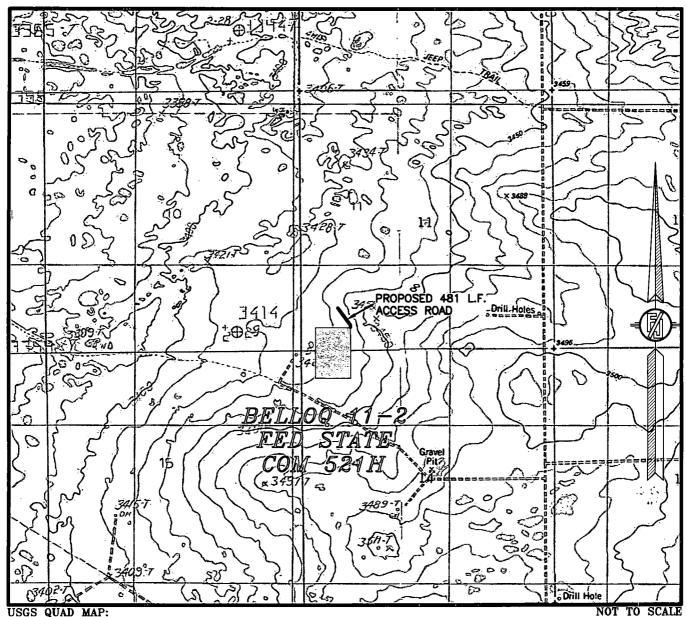
EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 20, 2018

SURVEY NO. 6708

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

SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO LOCATION VERIFICATION MAP



USGS QUAD MAP: LOS MEDANOS BOOTLEG RIDGE

DEVON ENERGY PRODUCTION COMPANY, L.P. BELLOQ 11-2 FED STATE COM 521H

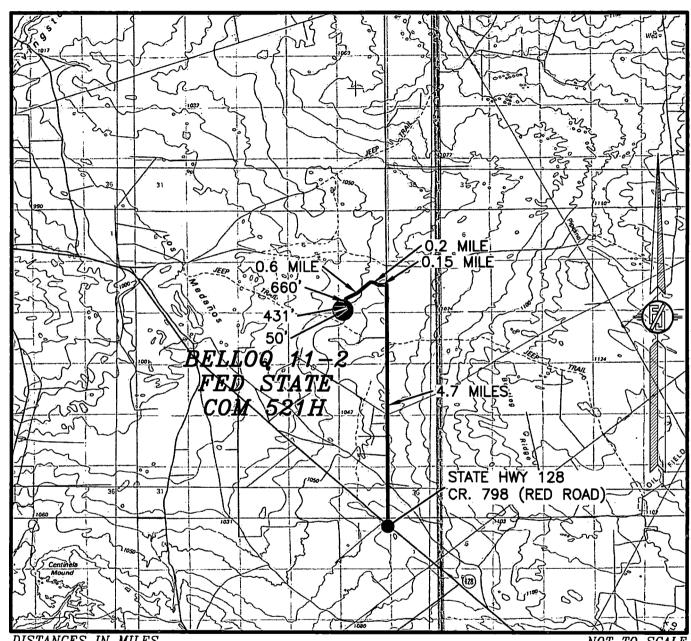
LOCATED 300 FT. FROM THE SOUTH LINE AND 660 FT. FROM THE WEST LINE OF SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 20, 2018

SURVEY NO. 6708

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

SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM STATE HIGHWAY 128 AND CR 798 (RED ROAD) GO NORTH ON CR 798 4.7 MILES, TURN LEFT ON CALICHE ROAD AND GO WEST 0.15 OF A MILE, BEND RIGHT AND GO NORTHWEST 0.2 OF A MILE, TURN LEFT AND GO SOUTHWEST 0.6 OF A MILE, TURN LEFT AND GO SOUTH 660' TO PROPOSED ROAD SURVEY AND FOLLOW FLAGS SOUTHEAST 431', THEN SOUTH 50' TO THE NORTHEAST PAD CORNER.

DEVON ENERGY PRODUCTION COMPANY, L.P. BELLOQ 11-2 FED STATE COM 521H LOCATED 300 FT. FROM THE SOUTH LINE AND 660 FT. FROM THE WEST LINE OF SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 20, 2018

SURVEY NO. 6708

SECTION 11, 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 NOV. 2017

DEVON ENERGY PRODUCTION COMPANY, L.P. BELLOQ 11-2 FED STATE COM 521H

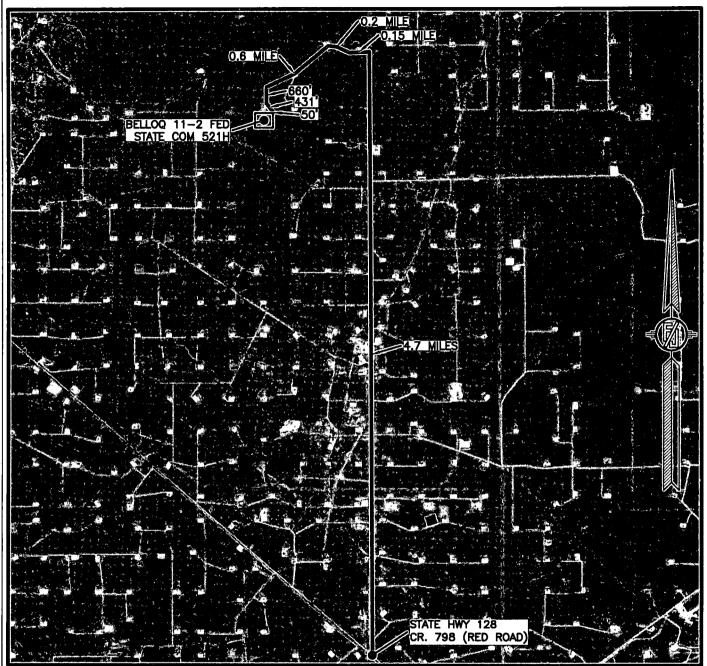
LOCATED 300 FT. FROM THE SOUTH LINE AND 660 FT. FROM THE WEST LINE OF SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 20, 2018

SURVEY NO. 6708

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

SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO AERIAL ACCESS ROUTE MAP



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH NOV. 2017

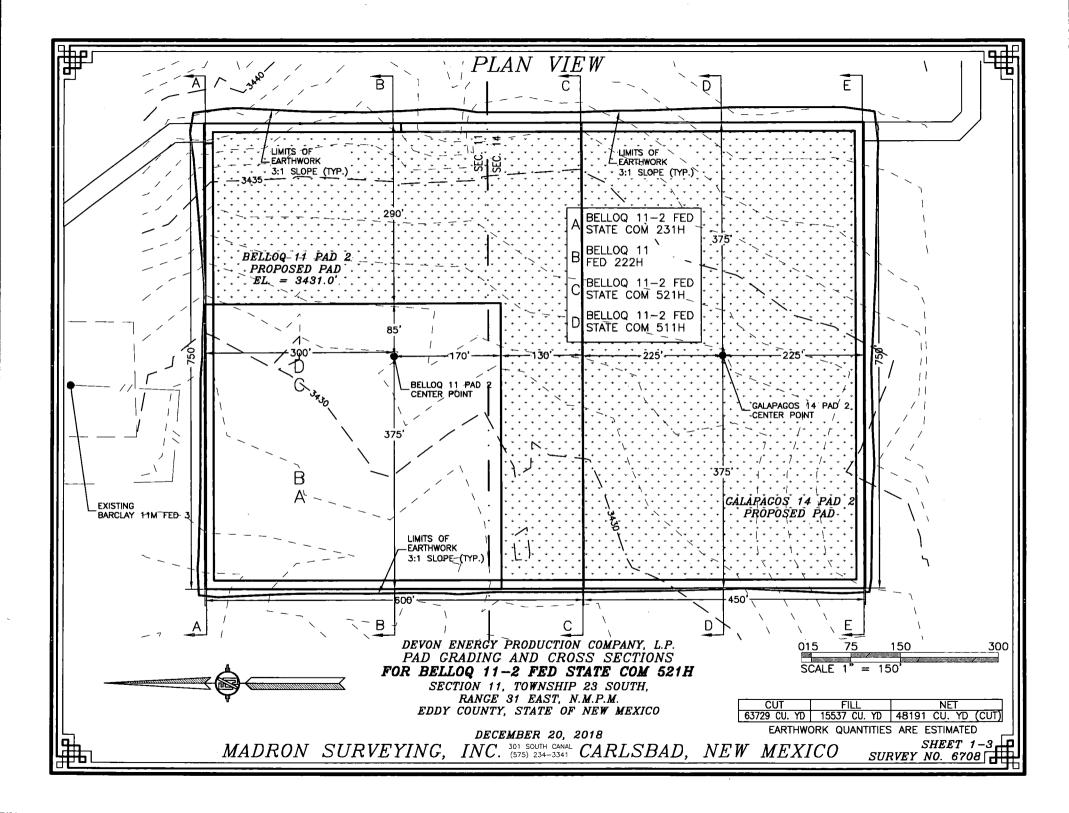
DEVON ENERGY PRODUCTION COMPANY, L.P. BELLOQ 11-2 FED STATE COM 521H

LOCATED 300 FT. FROM THE SOUTH LINE AND 660 FT. FROM THE WEST LINE OF SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

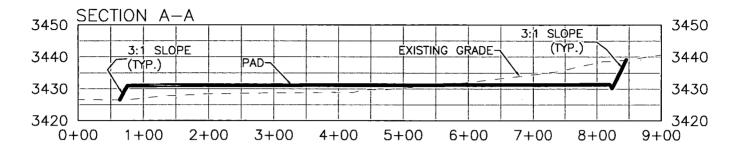
DECEMBER 20, 2018

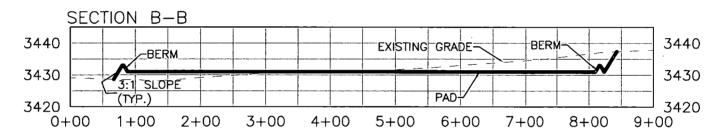
SURVEY NO. 6708

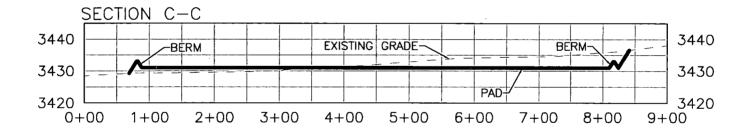
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO



CROSS SECTIONS







DEVON ENERGY PRODUCTION COMPANY, L.P.
PAD GRADING AND CROSS SECTIONS
FOR BELLOQ 11-2 FED STATE COM 521H
SECTION 11, TOWNSHIP 23 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

015	75	150	300
SCALE	1" =	150' - 1	" = 30' VER

CUT FILL NET
63729 CU. YD 15537 CU. YD 48191 CU. YD (CUT)

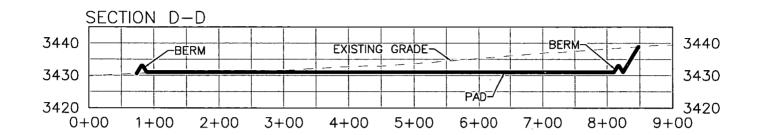
EARTHWORK QUANTITIES ARE ESTIMATED

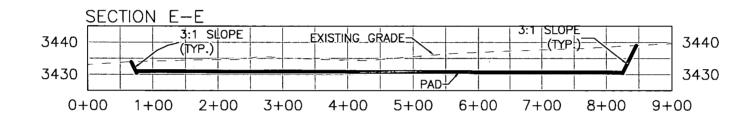
DECEMBER 20, 2018

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

SHEET 2-3 SURVEY NO. 6708

CROSS SECTIONS







DEVON ENERGY PRODUCTION COMPANY, L.P.
PAD GRADING AND CROSS SECTIONS
FOR BELLOQ 11-2 FED STATE COM 521H
SECTION 11, TOWNSHIP 23 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

015	75	150		300
SCALE	1" =	150' -	1" =	30' VER

CUT FILL NET
63729 CU. YD 15537 CU. YD 48191 CU. YD (CUT)

EARTHWORK QUANTITIES ARE ESTIMATED

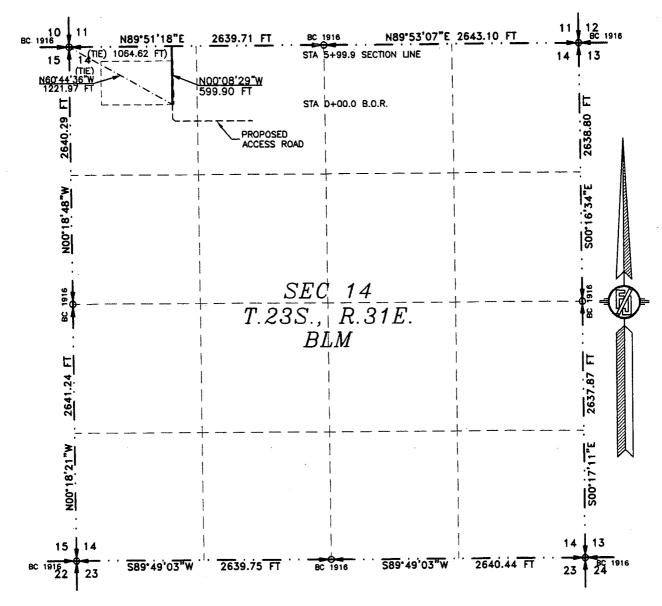
DECEMBER 20, 2018

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

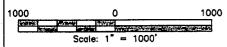
SHEET 3-3 SURVEY NO. 6708

ACCESS ROAD FOR BELLOQ 11-2 FED STATE COM 231H, 521H, 511H, & BELLOQ 11 FED 222H

DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 14, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO DECEMBER 20, 2018



SEE NEXT SHEET (2-4) FOR DESCRIPTION



GENERAL NOTES

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

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE 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 THATTHIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

પાર્મીક GERTIFICATE IS EXECUTED AT CARLSBAD,

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

SURVEY NO. 6708

JARAHILIA *CARLSBAD*. *NEW MEXICO*

ACCESS ROAD FOR BELLOQ 11-2 FED STATE COM 231H, 521H, 511H, & BELLOQ 11 FED 222H

DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 14. TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO DECEMBER 20, 2018

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 14, 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 NW/4 OF SAID SECTION 14, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 14, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N60°44'36"W, A DISTANCE OF 1221.97 FEET;

THENCE NOO'08'29"W A DISTANCE OF 599.90 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 14, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS S89°51'18"W, A DISTANCE OF 1064.62 FEET;

SAID STRIP OF LAND BEING 599.90 FEET OR 36.36 RODS IN LENGTH, CONTAINING 0.413 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

599.90 FT 36.36 RODS 0.413 ACRES NW/4 NW/4

SURVEYOR CERTIFICATE

GENERAL NOTES

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

INCHITNESSENHEREDE THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

DECEMBER 2018

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

SURVEY NO. 6708

INC. 301/500 234 CARLSBAD, *NEW MEXICO*

ACCESS ROAD FOR BELLOQ 11-2 FED STATE COM 231H, 521H, 511H, & BELLOQ 11 FED 222H

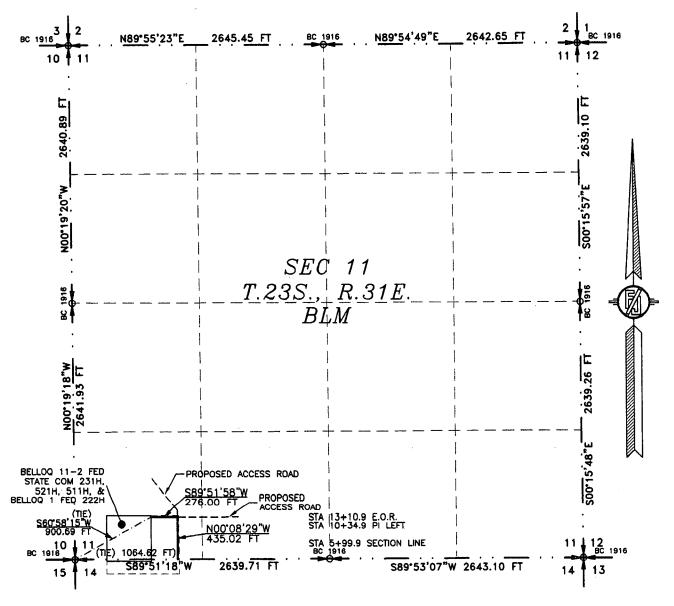
DEVON ENERGY PRODUCTION COMPANY, L.P.

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING

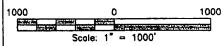
SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 20, 2018



SEE NEXT SHEET (4-4) FOR DESCRIPTION



GENERAL NOTES

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

SHEET: 3-4

MADRON SURVEYING,

SURVEYOR CERTIFICATE

FILING NO MARAMILLO PLS

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.

NEW LIMEXICO, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW LIMEXICO, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

MADRON SURVEYING, INC.

301 SOUTH CANAL

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

SURVEY NO. 6708

IC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

ACCESS ROAD FOR BELLOQ 11-2 FED STATE COM 231H, 521H, 511H, & BELLOQ 11 FED 222H

DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO DECEMBER 20, 2018

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 11, 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 SW/4 SW/4 OF SAID SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST. N.M.P.M., WHENCE THE SOUTHWEST CORNER OF SAID SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS \$89.51,18,W. A DISTANCE OF 1064.62 FEET;

THENCE NOO'08'29"W A DISTANCE OF 435.02 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S89°51'58"W A DISTANCE OF 276.00 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHWEST CORNER OF SAID SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS S60°58'15"W, A DISTANCE OF 900.69 FEET;

SAID STRIP OF LAND BEING 711.02 FEET OR 43.09 RODS IN LENGTH, CONTAINING 0.490 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SW/4 711.02 L.F. 43.09 RODS 0.490 ACRES

SURVEYOR CERTIFICATE

301 SOUTH CANAL

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: 4-4

MADRON SURVEYING

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

IN WITHERE WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

OF DECEMBER 2018

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

SURVEY NO. 6708

CARLSBAD. NEW MEXICO



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

Drilling Plan Data Report

10/09/2019

APD ID: 10400038616

Submission Date: 01/31/2019

Highlighted data reflects the most

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

recent changes

Well Name: BELLOQ 11-2 FED STATE COM

Well Number: 521H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name UNKNOWN	Elevation 3430	True Vertical Depth 0	Measured Depth 0	Lithologies ALLUVIUM	Mineral Resources	Producing Formation N
2	RUSTLER	2691	739	739	SANDSTONE	NONE	N .
3	BASE OF SALT	-1040	4470	4470	SALT	NONE	N
4	DELAWARE	-1077	4507	4507	SANDSTONE	NATURAL GAS,OIL	N
5	BONE SPRING 1ST	-6032	9462	9462	SANDSTONE	NATURAL GAS,OIL	N
6	BONE SPRING 2ND	-6437	9867	9867	SANDSTONE	NATURAL GAS,OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 6000

Equipment: BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below surface casing, a BOP/BOPE system with the minimum rating listed above 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_20190129135606.pdf

BOP Diagram Attachment:

5M_BOPE__CK_20190129135615.pdf

Well Name: BELLOQ 11-2 FED STATE COM Well Number: 521H

Pressure Rating (PSI): 5M

Rating Depth: 9039

Equipment: BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below surface casing, a BOP/BOPE system with the minimum rating listed above 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_20190129135705.pdf

BOP Diagram Attachment:

5M_BOPE__CK_20190129135720.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	764	0	764	-6990	-7665	764	H-40	48	ST&C	1.12 5	1	BUOY	1.6	BUOY	1.6
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	6000	0	6000	-6990	- 11150		J-55	40	OTHER - BTC	1.12 5	1	BUOY	1.6	BUOY	1.6
	PRODUCTI ON	8.75	5.5	NEW	API	N	0	19267	0	9039	-6990	- 16785	19267	P- 110	17	OTHER - BTC	1.12 5	1	BUOY	1.6	BUOY	1.6

Casing Attachments

Casing Attachments	
Casing ID: 1 String Type:SURFACE	
Inspection Document:	
Spec Document:	
Spec Document.	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
Surf_Csg_Ass_20190129135920.pdf	
Casing ID: 2 String Type: INTERMEDIATE	
Inspection Document:	
Spec Document:	
Tapered String Spec:	
ruporou oximg opoor	
Casing Design Assumptions and Worksheet(s):	
Int_Csg_Ass_20190129135930.pdf	
Casing ID: 3 String Type: PRODUCTION	
Inspection Document:	
Spec Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
Prod_Csg_Ass_20190129135940.pdf	

Well Number: 521H

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BELLOQ 11-2 FED STATE COM

Section 4 - Cement

Well Name: BELLOQ 11-2 FED STATE COM Well Number: 521H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	764	798	1.33	13.2	1061	100	C	Class C + adds

INTERMEDIATE	Lead	0	5500	1115	1.94	9	2164	50	С	Class C + adds
INTERMEDIATE	Tail	5500	6000	196	1.33	13.2	261	50	С	Class C + adds
PRODUCTION	Lead	5500	8463	735.6	3.27	9	2405. 3	.10	TUNED	Class C + adds
PRODUCTION	Tail	8463	1926 7	2257. 1	1.33	13.2	3002	10	Н	(50:50) Clas H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	9040	OTHER : FRESH WATER	8.5	9				2			

Well Name: BELLOQ 11-2 FED STATE COM Well Number: 521H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
764	9040	OTHER : BRINE	10	10.5				2			
6000	9040	WATER-BASED MUD	8.5	9					_	×	

Section 6 - Test, Logging, Coring

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

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

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

CALIPER, CBL, DS, GR, MUDLOG

Coring operation description for the well:

N/A

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4230

Anticipated Surface Pressure: 2241.19

Anticipated Bottom Hole Temperature(F): 145

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:

Belloq_11_2_Fed_State_Com_521H_H2S_20190130063113.pdf

Well Name: BELLOQ 11-2 FED STATE COM Well Number: 521H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Devon___Belloq_11_2_Fed_State_Com_521H___p2_20190130063158.pdf

Belloq_11_2_Fed_State_Com_521H_APD_20190708091139.pdf

Other proposed operations facets description:

Multi-Bowl Verbiage

Multi-Bowl Wellhead

Closed-Loop Design Plan

Gas Capture Plan

Drill plan/SPEC SHEETS- revised drill plan, prod cmt 7/8/2019

Other proposed operations facets attachment:

MB_Verb_5M_20190129140757.pdf

9.625_40__J_55_SPEC_20190129140732.pdf

5_500in_17_00__P110RY_DWC_C_SPEC_20190129140735.pdf

MB_Verb_5M_20190129140734.pdf

MB_Wellhd_5M_20190129140734.pdf

Clsd_Loop_20190129140733.pdf

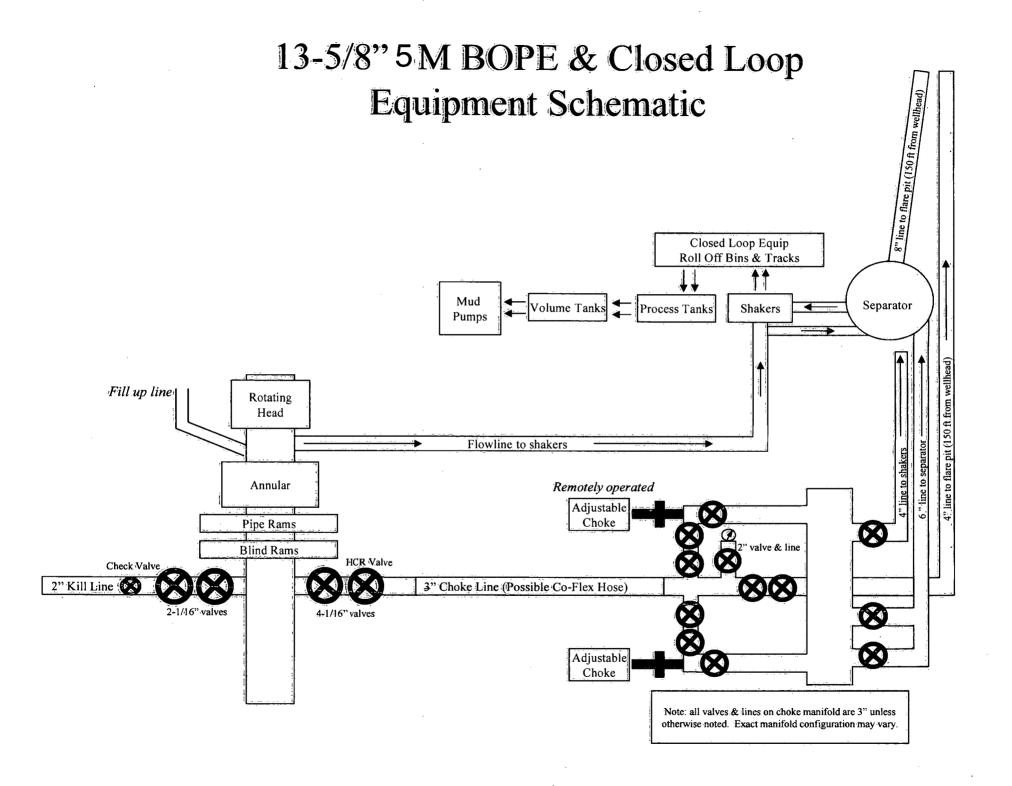
13.375_48__H40_SPEC_20190129140732.pdf

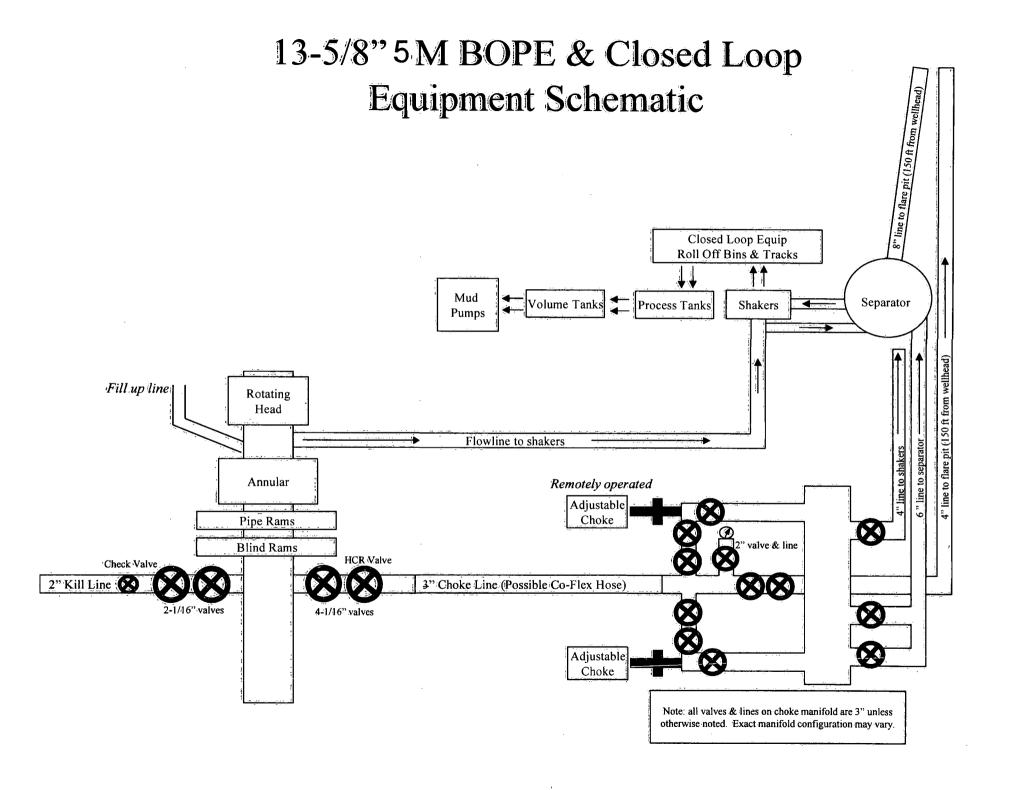
BELLOQ_11_CTB_1_GasCapturePlan_20190129141006.pdf

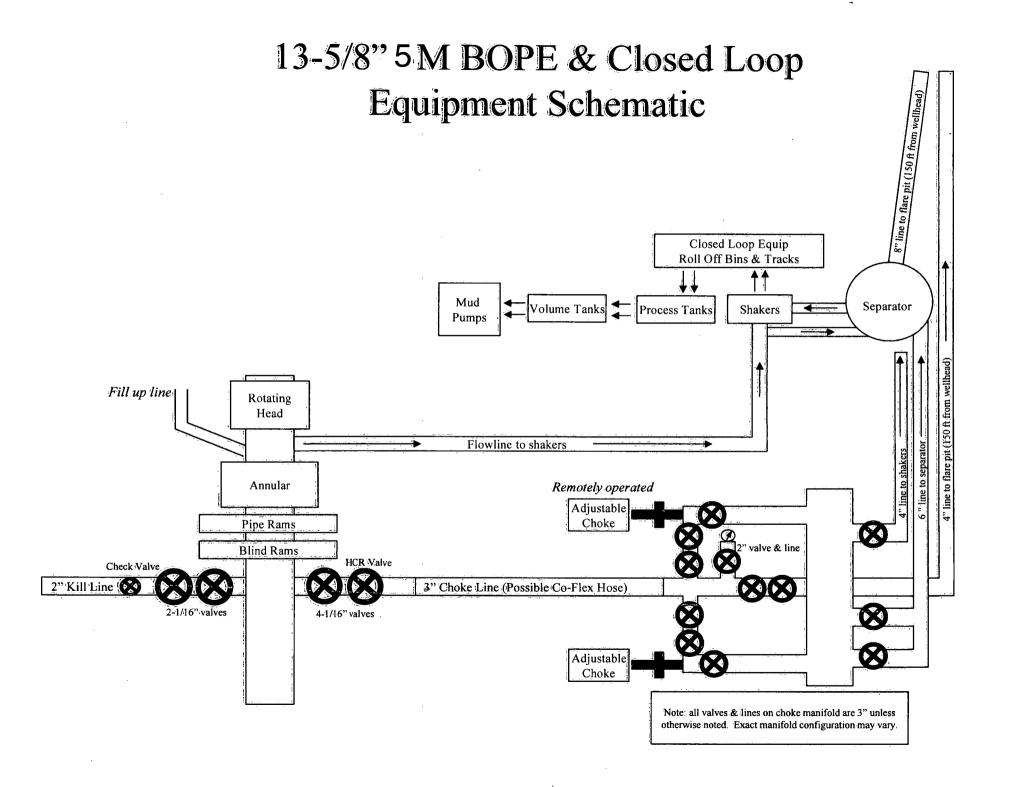
Spudder_Rig_Info_20190130063428.pdf

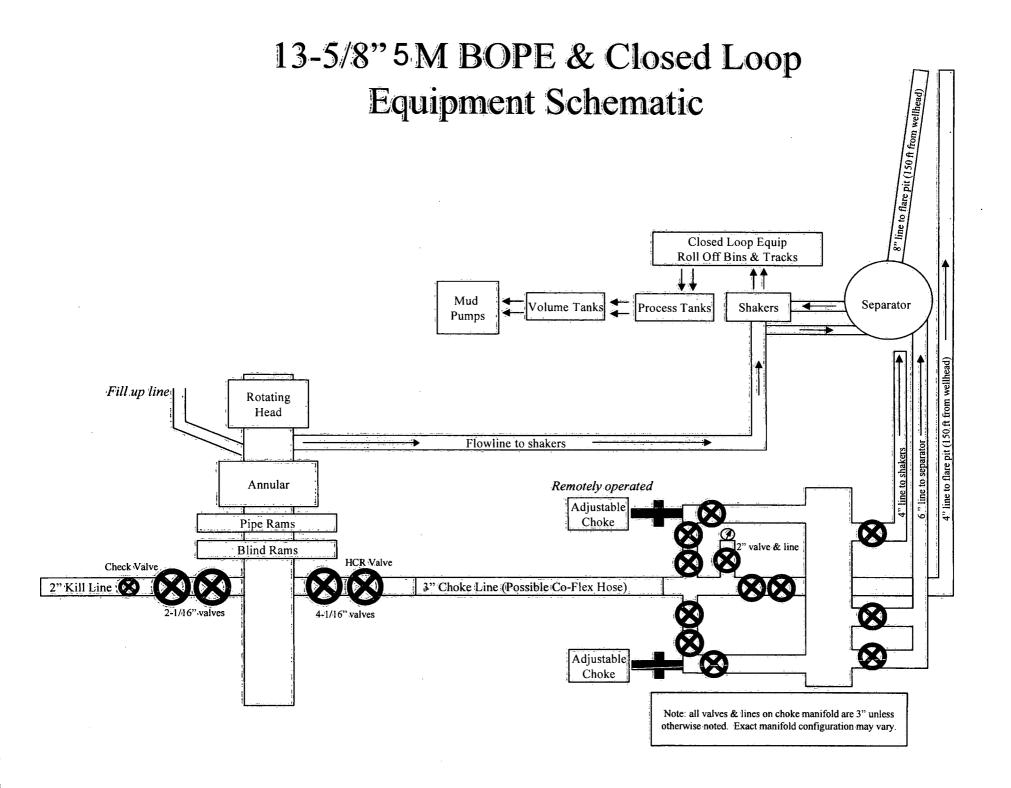
Other Variance attachment:

Co_flex_20190130063458.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 None	
Full Evacuation	Water gradient in cement, mud above TOC		
Cementing	Wet cement weight	Water (8.33ppg)	

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

Intermediate

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

Intermediate Casing Burst Design			
Load Case	External Pressure	Internal Pressure Max mud weight of next holesection plus Test psi	
Pressure Test	Formation Pore Pressure		
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 None	
Full Evacuation	Water gradient in cement, mud above TOC		
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

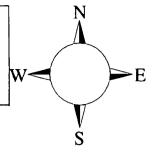
Belloq 11-2 Fed State Com 521H

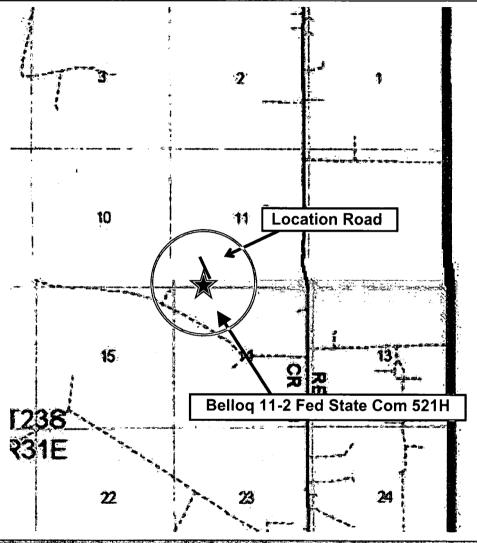
Sec-11 T-23S R-31E 300' FSL & 660' FWL LAT. = 32.3125655' N (NAD83) LONG = 103.7549880' W

Eddy County NM

Belloq 11-2 Fed State Com 521H

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 =** 8000° (Radius of Exposure) 100 ppm H2S concentration shall trigger activation of this plan.

Escape

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

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

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

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

Ignition of Gas Source

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

Characteristics of H₂S and SO₂

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

Contacting Authorities

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

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H2S) TRAINING

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

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

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

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

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

II. HYDROGEN SULFIDE TRAINING

Note: All 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 Su	ıpervisor – Basin – Mark Kramer	·	405-823-4796
EHS Prof	essional – Laura Wright		405-439-8129
Agency	Call List		
<u>Lea</u>	Hobbs		
County	Lea County Communication Authority		393-398
<u>(575)</u>	State Police		392-558
	City Police		397-926
	Sheriff's Office		393-251
	Ambulance		91
	Fire Department		397-930
	LEPC (Local Emergency Planning Comn	nittee)	393-287
	NMOCD		393-616
	US Bureau of Land Management		393-361
Eddy	Carlsbad		
County	State Police		885-313
<u>(575)</u>	City Police		885-211
	Sheriff's Office		887-755
	Ambulance		91
	Fire Department		885-312
	LEPC (Local Emergency Planning Comm	nittee)	887-379
	US Bureau of Land Management		887-654
	NM Emergency Response Commission ((Santa Fe)	(505) 476-960
	24 HR		(505) 827-912
	National Emergency Response Center		(800) 424-880
	National Pollution Control Center: Direct		(703) 872-600
	For Oil Spills		(800) 280-711
	Emergency Services		
	Wild Well Control		(281) 784-470
	Cudd Pressure Control	(915) 699- 0139	(915) 563-3350
	Halliburton	0100	(575) 746-275
	B. J. Services		(575) 746-356
Give	Native Air – Emergency Helicopter – Hot	obs	(575) 392-642
GPS	Flight For Life - Lubbock, TX		(806) 743-991
position:	Aerocare - Lubbock, TX		(806) 747-892
	Med Flight Air Amb - Albuquerque, NM		(575) 842-443
	Lifeguard Air Med Svc. Albuquerque, NN	1	(800) 222-122
	Poison Control (24/7)		(575) 272-311
	Oil & Gas Pipeline 24 Hour Service		(800) 364-436
	NOAA – Website - www.nhc.noaa.gov		

Prepared in conjunction with Dave Small

Project: Eddy County, NM (NAD-83) Site: Belloq 11-2 Fed State Com

Well: Belloq 11-2 Fed State Com 521H

Vertical Section at 359.63° (2000 usft/in)

-Start-Build-1:00-

Start 5136.75 hold at 2374.49 MD

Bellog 11-2 Fed State Com 521H Plan #2

SHL (Bellog 521H) - 300' FSL, 660' FWL S11

Wellbore: OH
Design: Plan #2

rue Vertical Depth (2000

6000

-2000



Azimuths to Grid North True North: -0.31° Magnetic North: 6.54°

Magnetic Field Strength: 48018.0snT Dip Angle: 60.05° Date: 1/21/2019 Model: HDGM PROJECT DETAILS: Eddy County, NM (NAD-83)

Geodetic System: US State Plane 1983

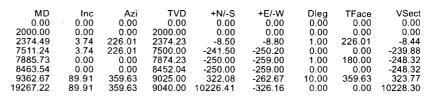
Datum: North American Datum 1983

Ellipsoid: GRS 1980

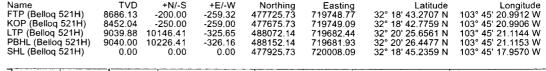
Zone: New Mexico Eastern Zone Datum: 3430' GE + 23.5' KB @ 3453.50usft

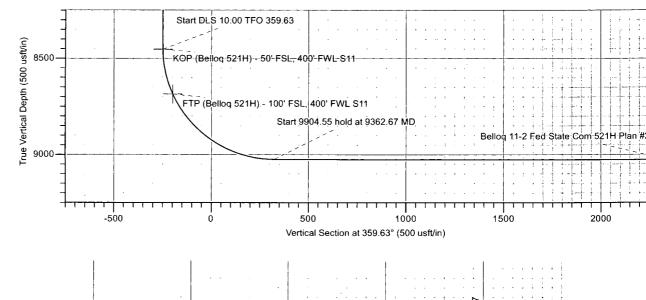


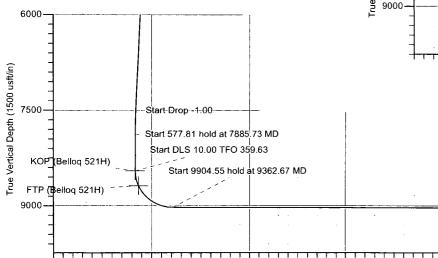
SECTION DETAILS



DESIGN TARGET DETAILS







1500

3000

PBHL (Bellog 521H) - 20' FNL, 400' FWL S2
4500 6000 7500 9000 10500

Vertical Section at 359.63° (1500 usft/in)



-1500

LEAM DRILLING SERVICES 2010 East Davis, Conroe, Texas 77301 Phone: 936/756-7618, Fax: 936/756-7595 Plan: Plan #2 (Belloq 11-2 Fed State Corn 521H/OH)
Belloq 11-2 Fed State Corn
Created By: Dustin Ault
Date: 12:12, January

realed By: Dustin Ault Date: 12:12, January 23 2019

Date: _____

Approved: _____ Date: _____

Project: Eddy County, NM (NAD-83) Site: Bellog 11-2 Fed State Com

Well: Belloq 11-2 Fed State Com 521H

Wellbore: OH

Design: Plan #2

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



Azimuths to Grid North True North: -0.31° Magnetic North: 6.54°

Magnetic Field Strength: 48018.0snT Dip Angle: 60.05° Date: 1/21/2019 Model: HDGM

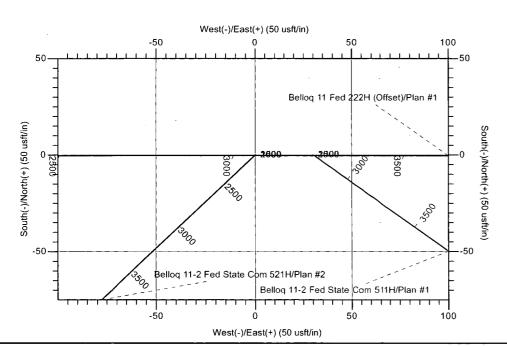


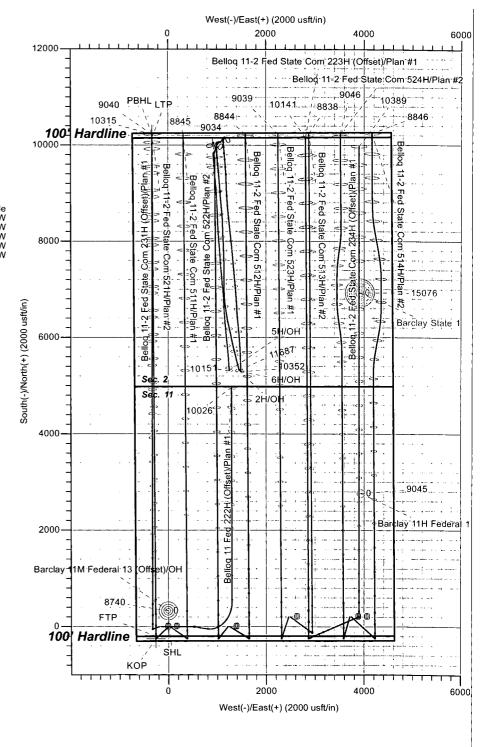
DESIGN TARGET DETAILS

SHL (Bellog 521H) 0.00 0.00 0.00 477925.73 720008.09 32° 18' 45.2359 N 103° 45' 17.9570 \	Name FTP (Belloq 521H) KOP (Belloq 521H) LTP (Belloq 521H) PBHL (Belloq 521H) SHL (Belloq 521H)	TVD 8686.13 8452.04 9039.88 9040.00 0.00	+N/-S -200.00 -250.00 10146.41 10226.41 0.00	+E/-W -259.32 -259.00 -325.65 -326.16 0.00	Northing 477725.73 477675.73 488072.14 488152.14 477925.73	719749.09 719682.44 719681.93	32° 18' 42.7759 N 32° 20' 25.6561 N 32° 20' 26.4477 N	Longitude 103° 45' 20.9912 W 103° 45' 20.9906 W 103° 45' 21.1144 W 103° 45' 21.1153 W 103° 45' 17.9570 W
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SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	
2374.49	3.74	226.01	2374.23	-8.50	-8.80	1.00	226.01	-8.44	
7511.24	3.74	226.01	7500.00	-241.50	-250.20	0.00	0.00	-239.88	
7885.73	0.00	0.00	7874.23	-250.00	-259.00	1.00	180.00	-248.32	
8463.54	0.00	0.00	8452.04	-250.00	-259.00	0.00	0.00	-248.32	
9362.67	89.91	359.63	9025.00	322.08	-262.67	10.00	359.63	323.77	
19267.22	89.91	359.63	9040.00	10226.41	-326.16	0.00	0.00	10228.30	







LEAM DRILLING SYSTEMS LLC 2010 East Davis, Conroe, Texas 77301 Phone: 936/756-7577, Fax: 936/756-7595 Plan: Plan #2 (Belloq 11-2 Fed State Com 521H/OH)
Belloq 11-2 Fed State Com
Created By: Dustin Ault
Date: 12:13, January 23 2019
Date:

Eddy County, NM (NAD-83)
Belloq 11-2 Fed State Com
Belloq 11-2 Fed State Com 521H

ОН

Plan: Plan #2

Standard Planning Report - Geographic

23 January, 2019

Planning Report - Geographic

EDM 5000.1 Multi Uşer Db Database: Local Co-ordinate Reference: Well Belloq 11-2 Fed State Com 521H Company: Devon Energy 3430' GE + 23.5' KB @ 3453.50usft **TVD Reference:** Eddy County, NM (NAD-83) Project: 3430' GE + 23.5' KB @ 3453.50usft MD Reference: Site: Bellog 11-2 Fed State Com North Reference: Well: Bellog 11-2 Fed State Com 521H Minimum Curvature **Survey Calculation Method:** Wellbore: ΟĤ Plan #2 Design:

Eddy County, NM (NAD-83) Project

Map System: Geo Datum:

US State Plane 1983

North American Datum 1983 New Mexico Eastern Zone Map Zone:

System Datum:

Mean Sea Level

Site Bellog 11-2 Fed State Com

Site Position:

Мар

Northing: Easting:

477,925.73 usft 720,008.09 usft Latitude:

Longitude:

32° 18' 45.2359 N 103° 45' 17.9570 W

32° 18′ 45.2359 N

From: 0.00 usft 13-3/16 " **Grid Convergence:** 0.31 Slot Radius: **Position Uncertainty:**

Well Belloq 11-2 Fed State Com 521H **Well Position** +N/-S 0.00 usft Northing: 477,925.73 usft Latitude:

+E/-W 0.00 usft Easting: 720,008.09 usft Longitude: 103° 45' 17.9570 W Ground Level: 0.00 usft 3,430.00 usft 0.00 usft Wellhead Elevation: **Position Uncertainty**

Wellbore OH Declination[®] **Dip Angle Field Strength** Magnetics **Model Name** Sample Date (°) (°). (nT) 60.05 48,018 6.85 HDGM 1/21/2019

Plan #2 Design **Audit Notes:** 0.00 Phase: PLAN Tie On Depth: Version: +E/-W Vertical Section: Depth From (TVD) +N/-S Direction (usft) (usft) (usft) (°) 0.00 0.00 0.00 359.63

Plan Sections							1			
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	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,374.49	3.74	226.01	2,374.23	-8.50	-8.80	1.00	1.00	0.00	226.01	
7,511.24	3.74	226.01	7,500.00	-241.50	-250.20	0.00	0.00	0.00	0.00	
7,885.73	0.00	0.01	7,874.23	-250.00	-259.00	1.00	-1.00	0.00	180.00	
8,463.54	0.00	0.01	8,452.04	-250.00	-259.00	0.00	0.00	0.00	0.01	
9,362.67	89.91	359.63	9,025.00	322.08	-262.67	10.00	10.00	-0.04	359.63	
19,267.22	89.91	359.63	9,040.00	10,226.41	-326.16	0.00	0.00	0.00	0.00	PBHL (Bellog 521H) -

Planning Report - Geographic

EDM 5000.1 Multi User Db Local Co-ordinate Reference: Well Belloq 11-2 Fed State Com 521H Database: Devon Energy TVD Reference: Company: 3430' GE + 23.5' KB @ 3453.50usft Project: Eddy County, NM (NAD-83) MD Reference: 3430' GE + 23:5' KB @ 3453.50usft Belloq 11-2 Fed State Com Site: North Reference: Survey Calculation Method: Belloq 11-2 Fed State Com 521H Minimum Curvature Well: Wellbore:

Design:	Plan	#2	elementa de la composition della composition del	-					
Planned Survey	, <u></u>	Santa de la companya de propieta de la companya de				6 /			
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(usft)	(°).	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	477,925.73	720,008.09	32° 18' 45.2359 N	103° 45' 17.9570 W
Princer and the contract of th	lloq 521H) - 3								
100.00		0.00	100.00	0.00	0.00	477,925.73	720,008.09	32° 18' 45.2359 N	103° 45′ 17.9570 W
200.00		0.00	200.00	0.00	0.00	477,925.73	720,008.09	32° 18' 45.2359 N	103° 45' 17.9570 W
300:00		0.00	300.00	0.00	0.00	477,925.73	720,008.09	32° 18' 45.2359 N	103° 45′ 17.9570 W
400.00		0.00	400.00	0.00	0.00	477,925.73	720,008.09	32° 18' 45.2359 N	103° 45′ 17.9570 W
500.00 600.00		0.00 0.00	500.00 600.00	0.00	0.00	477,925.73	720,008.09	32° 18' 45.2359 N	103° 45' 17 9570 W
700.00		0.00	700.00	0.00 0.00	0.00	477,925.73	720,008.09	32° 18' 45.2359 N	103° 45′ 17.9570 W
800.00		0.00	800.00	0.00	0.00 0.00	477,925.73 477,925.73	720,008.09 720,008.09	32° 18' 45.2359 N 32° 18' 45.2359 N	103° 45' 17.9570 W 103° 45' 17.9570 W
900.00		0.00	900.00	0.00	0.00	477,925.73	720,008.09	32° 18' 45.2359 N	103° 45' 17.9570 W
1,000.00		0.00	1,000.00	0.00	0.00	477,925.73	720,008.09	32° 18′ 45.2359 N	103° 45' 17.9570 W
1,100.00		0.00	1,100.00	0.00	0.00	477,925.73	720,008.09	32° 18′ 45.2359 N	103° 45′ 17.9570 W
1,200.00		0.00	1,200.00	0.00	0.00	477,925.73	720,008.09	32° 18′ 45.2359 N	103° 45' 17.9570 W
1,300.00		0.00	1,300.00	0.00	0.00	477,925.73	720,008.09	32° 18' 45.2359 N	103° 45′ 17.9570 W
1,400.00		0.00	1,400.00	0.00	0.00	477,925.73	720,008.09	32° 18' 45.2359 N	103° 45′ 17.9570 W
1,500.00		0.00	1,500.00	0.00	0.00	477,925.73	720,008.09	32° 18' 45.2359 N	103° 45' 17.9570 W
1,600.00		0.00	1,600.00	0.00	0.00	477,925.73	720,008.09	32° 18' 45.2359 N	103° 45' 17.9570 W
1,700.00		0.00	1,700.00	0.00	0.00	477,925.73	720,008.09	32° 18' 45.2359 N	103° 45' 17.9570 W
1,800.00		0.00	1,800.00	0.00	0.00	477,925.73	720,008.09	32° 18' 45.2359 N	103° 45' 17.9570 W
1,900.00		0.00	1,900.00	0.00	0.00	477,925.73	720,008.09	32° 18' 45.2359 N	103° 45' 17.9570 W
2,000.00	0.00	0.00	2,000.00	0.00	0.00	477,925.73	720,008.09	32° 18' 45.2359 N	103° 45′ 17.9570 W
2,100.00	1.00	226.01	2,099.99	-0.61	-0.63	477,925.12	720,007.46	32° 18' 45.2299 N	103° 45' 17.9643 W
2,200.00	2.00	226.01	2,199.96	-2.42	-2.51	477,923.31	720,005.57	32° 18′ 45.2120 N	103° 45′ 17.9864 W
2,300.00	3.00	226.01	2,299.86	-5.45	-5.65	477,920.28	720,002.44	32° 18' 45.1822 N	103° 45' 18.0231 W
2,374.49	3.74	226.01	2,374.23	-8.50	-8.80	477,917.23	719,999.28	32° 18′ 45.1523 N	103° 45' 18.0601 W
2,400.00	3.74	226.01	2,399.68	-9.65	-10.00	477,916.08	719,998.08	32° 18' 45.1409 N	103° 45′ 18.0741 W
2,500.00	3.74	226.01	2,499.47	-14.19	-14.70	477,911.54	719,993.39	32° 18' 45.0963 N	103° 45' 18.1292 W
2,600.00	3.74	226.01	2,599.25	-18.73	-19.40	477,907.00	719,988.69	32° 18' 45.0516 N	103° 45' 18.1842 W
2,700.00	3.74	226.01	2,699.04	-23.26	-24.10	477,902.47	719,983.99	32° 18' 45.0070 N	103° 45' 18.2392 W
2,800.00		226.01	2,798.82	-27.80	-28.80	477,897.93	719,979.29	32° 18' 44.9624 N	103° 45' 18.2943 W
2,900.00		226.01	2,898.61	-32.33	-33.50	477,893.40	719,974.59	32° 18' 44.9177 N	103° 45′ 18.3493 W
3,000.00		226.01	2,998.40	-36.87	-38.20	477,888.86	719,969.89	32° 18' 44.8731 N	103° 45′ 18.4044 W
3,100.00		226.01	3,098.18	-41.41	-42.90	477,884.32	719,965.19	32° 18' 44.8285 N	103° 45' 18.4594 W
3,200.00		226.01	3,197.97	-45.94	-47.60	477,879.79	719,960.49	32° 18′ 44.7838 N	103° 45′ 18.5145 W
3,300.00		226.01	3,297.76	-50.48	-52.30	477,875.25	719,955.79	32° 18' 44.7392 N	103° 45' 18.5695 W
3,400.00		226.01	3,397.54	-55.01	-56.99	477,870.72	719,951.09	32° 18' 44.6946 N	103° 45' 18.6246 W
3,500.00		226.01	3,497.33	-59.55	-61.69	477,866.18	719,946.39	32° 18′ 44.6499 N	103° 45' 18.6796 W
3,600.00		226.01	3,597.12	-64.09	-66.39	477,861.64	719,941.69	32° 18' 44.6053 N	103° 45' 18.7346 W
3,700.00		226.01	3,696.90	-68.62	-71.09	477,857.11	719,936.99	32° 18' 44.5606 N	103° 45′ 18.7897 W
3,800.00		226.01	3,796.69	-73.16	-75.79 80.40	477,852.57	719,932.29	32° 18' 44.5160 N	103° 45′ 18.8447 W
3,900.00		226.01	3,896.48	-77.69	-80.49 95.40	477,848.04	719,927.59	32° 18' 44.4714 N	103° 45′ 18.8998 W
4,000.00		226.01	3,996.26 4,096.05	-82.23	-85.19	477,843.50	719,922.89	32° 18' 44.4267 N	103° 45′ 18.9548 W
4,100.00		226.01 226.01		-86.77 -91.30	-89.89 -94.59	477,838.96	719,918.20	32° 18' 44.3821 N	103° 45' 19.0099 W
4,200.00 4,300.00		226.01	4,195.84 4,295.62	-91.30 -95.84	-94.59 -99.29	477,834.43 477,829.89	719,913.50	32° 18' 44.3375 N	103° 45' 19.0649 W 103° 45' 19.1200 W
4,400.00		226.01	4,295.62	-95.6 4 -100.38	-99.29 -103.99	477,825.36	719,908.80 719,904.10	32° 18' 44.2928 N	103° 45' 19.1750 W
4,500.00	3.74	226.01	4,395.41	-100.36 -104.91	-103.99 -108.69	477,820.82	719,904.10	32° 18' 44.2482 N 32° 18' 44.2036 N	103° 45' 19.1750 W
4,600.00	3.74	226.01				477,820.82 477,816.28			
4,700.00		226.01	4,594.98 4,694.77	-109.45 -113.98	-113.39 -118.09	477,811.75	719,894.70	32° 18' 44.1589 N	103° 45' 19.2851 W
4,800.00	3.74 3.74	226.01	4,694.77 4,794.55	-113.98 -118.52	-118.09 -122.79	477,811.75	719,890.00 719,885.30	32° 18' 44.1143 N	103° 45' 19.3401 W
4,900.00	3.74	226.01	4,794.33	-110.52	-122.79 -127.49	477,802.68	719,880.60	32° 18′ 44.0697 N 32° 18′ 44.0250 N	103° 45' 19.3952 W 103° 45' 19.4502 W
5,000.00	3.74	226.01	4,994.13	-123.00 -127.59	-127.49	477,798.14	719,880.80	32° 18' 43.9804 N	103° 45' 19.5053 W
5,100.00	3.74	226.01	5,093.91	-132.13	-132.16	477,798.14	719,875.90	32° 18' 43.9357 N	103° 45' 19.5603 W
3,100.00	3.14	220.01	0,033.81	-132.13	-130.00	411,183.00	118,011.20	JE 10 43.8337 N	103 45 19.3003 W

Planning Report - Geographic

EDM 5000.1 Multi User Db Database:

Company: Devon Energy

Project: Eddy County, NM (NAD-83) Site: Belloq 11-2 Fed State Com Well:

Belloq 11-2 Fed State Com 521H

Wellbore: ОН Plan #2 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well Bellog 11-2 Fed State Com 521H

3430' GE + 23.5' KB @ 3453.50usft 3430' GE + 23.5' KB @ 3453.50usft

Minimum Curvature

Planned Survey	·								
Measured			Vertical			Map	Map	e de la companya de La companya de la co	
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(usft)	(°)	. (°).	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
5,200.00	3.74	226.01	5,193.70	-136.66	-141.58	477,789.07	719,866.50	32° 18' 43.8911 N	103° 45' 19.6154 W
5,300.00	3.74	226.01	5,293.49	-141.20	-146.28	477,784.53	719,861.80	32° 18' 43.8465 N	103° 45' 19.6704 W
5,400.00	3.74	226.01	5,393.27	-145.74	-150.98	477,779.99	719,857.10	32° 18' 43.8018 N	103° 45′ 19.7254 W
5,500.00	3.74	226.01	5,493.06	-150.27	-155.68	477,775.46	719,852.40	32° 18' 43.7572 N	103° 45' 19.7805 W
5,600.00		226.01	5,592.85	-154.81	-160.38	477,770.92	719,847.70	32° 18' 43.7126 N	103° 45′ 19.8355 W
5,700.00	3.74	226.01	5,692.63	-159.34	-165.08	477,766.39	719,843.01	32° 18' 43.6679 N	103° 45' 19.8906 W
5,800.00		226.01	5,792.42	-163.88	-169.78	477,761.85	719,838.31	32° 18' 43.6233 N	103° 45' 19.9456 W
5,900.00	3.74	226.01	5,892.21	-168.42	-174.48	477,757.31	719,833.61	32° 18' 43.5787 N	103° 45' 20.0007 W
6,000.00	3.74	226.01	5,991.99	-172.95	-179.18	477,752.78	719,828.91	32° 18′ 43.5340 N	103° 45' 20.0557 W
6,100.00	3.74	226.01	6,091.78	-177.49	-183.88	477,748.24	719,824.21	32° 18′ 43.4894 N	103° 45′ 20.1107 W
6,200.00	3.74	226.01	6,191.57	-182.02	-188.58	477,743.71	719,819.51	32° 18′ 43.4448 N	103° 45' 20.1658 W
6,300.00	3.74	226.01	6,291.35	-186.56	-193.28	477,739.17	719,814.81	32° 18′ 43.4001 N	103° 45' 20.2208 W
6,400.00	3.74	226.01	6,391.14	-191.10	-197.98	477,734.63	719,810.11	32° 18' 43.3555 N	103° 45' 20.2759 W
6,500.00	3.74	226.01	6,490.92	-195.63	-202.68	477,730.10	719,805.41	32° 18′ 43.3108 N	103° 45' 20.3309 W
6,600.00	3.74	226.01	6,590.71	-200.17	-207.37	477,725.56	719,800.71	32° 18' 43.2662 N	103° 45' 20.3860 W
6,700.00	3.74	226.01	6,690.50	-204.70	-212.07	477,721.03	719,796.01	32° 18' 43.2216 N	103° 45' 20.4410 W
6,800.00	3.74	226.01	6,790.28	-209.24	-216.77	477,716.49	719,791.31	32° 18' 43.1769 N	103° 45' 20.4961 W 103° 45' 20.5511 W
6,900.00	3.74	226.01	6,890.07	-213.78	-221.47	477,711.95	719,786.61	32° 18' 43.1323 N 32° 18' 43.0877 N	103° 45' 20.6061 W
7,000.00	3.74	226.01	6,989.86	-218.31 -222.85	-226.17 -230.87	477,707.42 477,702.88	719,781.91 719,777.21	32° 18′ 43.0430 N	103° 45' 20.6612 W
7,100.00	3.74	226.01	7,089.64	-222.85 -227.39	-230.87 -235.57	477,702.88	719,777.21	32° 18′ 42.9984 N	103° 45' 20.7162 W
7,200.00	3.74	226.01	7,189.43	-227.39 -231.92	-235.57 -240.27	477,693.81	719,767.82	32° 18' 42.9538 N	103° 45' 20.7713 W
7,300.00		226.01 226.01	7,289.22 7,389.00	-231.92 -236.46	-240.27 -244.97	477,689.27	719,763.12	32° 18' 42.9091 N	103° 45' 20.8263 W
7,400.00 7,500.00	3.74	226.01	7,389.00	-230.40 -240.99	-244.97 -249.67	477,684.74	719,758.42	32° 18' 42.8645 N	103° 45' 20.8814 W
7,500.00 7,511.24	3.74	226.01	7,500.00	-240.55	-250.20	477,684.23	719,757.89	32° 18′ 42.8595 N	103° 45' 20.8875 W
7,600.00	2.86	226.01	7,588.62	-241.00	-253.87	477,680.68	719,754.21	32° 18′ 42.8245 N	103° 45' 20.9306 W
7,700.00		226.01	7,688.53	-247.91	-256.83	477,677.82	719,751.25	32° 18' 42.7964 N	103° 45' 20.9653 W
7,800.00	0.86	226.01	7,788.50	-249.55	-258.54	477,676.18	719,749.55	32° 18' 42.7802 N	103° 45' 20.9852 W
7,885.73	0.00	0.01	7,874.23	-250.00	-259.00	477,675.73	719,749.09	32° 18′ 42.7759 N	103° 45' 20.9906 W
7,900.00	0.00	0.00	7,888.50	-250.00	-259.00	477,675.73	719,749.09	32° 18' 42.7759 N	103° 45' 20.9906 W
8,000.00	0.00	0.00	7,988.50	-250.00	-259.00	477,675.73	719,749.09	32° 18′ 42.7759 N	103° 45' 20.9906 W
8,100.00	0.00	0.00	8,088.50	-250.00	-259.00	477,675.73	719,749.09	32° 18' 42.7759 N	103° 45′ 20.9906 W
8,200.00	0.00	0.00	8,188.50	-250.00	-259.00	477,675.73	719,749.09	32° 18′ 42.7759 N	103° 45' 20.9906 W
8,300.00	0.00	0.00	8,288.50	-250.00	-259.00	477,675.73	719,749.09	32° 18′ 42.7759 N	103° 45' 20.9906 W
8,400.00	0.00	0.00	8,388.50	-250.00	-259.00	477,675.73	719,749.09	32° 18′ 42.7759 N	103° 45' 20.9906 W
8,463.54	0.00	0.00	8,452.04	-250.00	-259.00	477,675.73	719,749.09	32° 18′ 42.7759 N	103° 45' 20.9906 W
KOP (Be	llog 521H) - 50) FSL, 400' F	WL S11				· · · · · · · · · · · · · · · · · · ·		
8,500.00	3.65	359.63	8,488.47	-248.84	-259.01	477,676.89	719,749.08	32° 18' 42.7873 N	103° 45' 20.9907 W
8,550.00	8.65	359.63	8,538.17	-243.49	-259.04	477,682.24	719,749.04	32° 18' 42.8403 N	103° 45′ 20.9907 W
8,600.00	13.65	359.63	8,587.21	-233.83	-259.10	477,691.90	719,748.98	32° 18' 42.9359 N	103° 45' 20.9908 W
8,650.00	18.65	359.63	8,635.22	-219.93	-259.19	477,705.80	719,748.89	32° 18′ 43.0735 N	103° 45' 20.9910 W
8,700.00	23.65	359.63	8,681.84	-201.90	-259.31	477,723.83	719,748.78	32° 18' 43.2519 N	103° 45' 20.9912 W
8,704.69	24.11	359.63	8,686.13	-200.00	-259.32	477,725.73	719,748.77	32° 18' 43.2707 N	103° 45' 20.9912 W
FTP (Bel	loq 521H) - 10	0' FSL, 400' i	FWL S11				•		
8,750.00	28.65	359.63	8,726.71	-179.87	-259.45	477,745.86	719,748.64	32° 18' 43.4698 N	103° 45' 20.9915 W
8,800.00	33.65	359.63	8,769.49	-154.02	-259.62	477,771.71	719,748.47	32° 18' 43.7257 N	103° 45' 20.9918 W
8,850.00	38.65	359.63	8,809.85	-124.54	-259.80	477,801.19	719,748.28	32° 18' 44.0174 N	103° 45' 20.9921 W
8,900.00		359.63	8,847.49	-91.65	-260.02	477,834.08	719,748.07	32° 18' 44.3429 N	103° 45' 20.9925 W
8,950.00	48.65	359.63	8,882.13	-55.61	-260.25	477,870.12	719,747.84	32° 18' 44.6995 N	103° 45' 20.9930 W
9,000.00	53.65	359.63	8,913.48	-16.68	-260.50	477,909.05	719,747.59	32° 18′ 45.0847 N	103° 45′ 20.9934 W
9,050.00		359.63	8,941.33	24.83	-260.76	477,950.56	719,747.32	32° 18′ 45.4955 N	103° 45' 20.9939 W
9,100.00		359.63	8,965.45	68.60	-261.04	477,994.34	719,747.04	32° 18′ 45.9287 N	103° 45′ 20.9944 W
9,150.00		359.63	8,985.66	114.32	-261.34	478,040.05	719,746.75	32° 18′ 46.3811 N	103° 45′.20.9950 W
9,200.00	73.65	359.63	9,001.82	161.62	-261.64	478,087.35	719,746.45	32° 18′ 46.8492 N	103° 45′ 20.9956 W

Planning Report - Geographic

EDM 5000.1 Multi User Db Database: Local Co-ordinate Reference: Well Belloq 11-2 Fed State Com 521H Company: Devon Energy 3430' GE + 23.5' KB @ 3453.50usft TVD Reference: Project: Eddy County, NM (NAD-83) 3430' GE + 23.5' KB @ 3453.50usft MD Reference: Site: Belloq 11-2 Fed State Com North Reference: Well: Belloq 11-2 Fed State Com 521H Survey Calculation Method: Minimum Curvature Wellbore: ОН Plan #2 Design:

nned Survey									
Mooured	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		Vertical		i e e e e e e e e e e e e e e e e e e e	Mon	Mon		
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
9,250.00	78.65	359.63	9,013.78	210.15	-261.95	478,135.88	719,746.14	32° 18′ 47.3294 N	103° 45' 20.9961
9,300.00	83.65	359.63	9,021.48	259.54	-262.27	478,185.27	719,745.82	32° 18' 47.8181 N	103° 45' 20.996
9,350.00	88.65	359.63	9,024.84	309.41	-262.59	478,235.14	719,745.50	32° 18' 48.3116 N	103° 45' 20.9973
9,362.67	89.91	359.63	9,025.00	322.08	-262.67	478,247.81	719,745.42	32° 18' 48.4370 N	103° 45' 20.997
9,400.00	89.91	359.63	9,025.05	359.40	-262.91	478,285.13	719,745.18	32° 18' 48.8064 N	103° 45' 20.997
9,500.00	89.91	359.63	9,025.03	459.40	-263.55	478,385.13	719,744.54	32° 18' 49.7959 N	103° 45′ 20.997 103° 45′ 20.999
9,600.00	89.91	359.63	9,025.21	559.40	-264.19	478,485.13	719,744.54	32° 18' 50.7855 N	103° 45' 21.000
9,700.00	89.91	359.63	9,025.50	659.40	-264.83	478,585.13	719,743.96	32° 18' 51.7750 N	
9,800.00	89.91	359.63	9,025.66	759.39	-265.47				103° 45' 21.001
9,900.00	89.91	359.63	9,025.81	859.39		478,685.13	719,742.62	32° 18' 52.7646 N	103° 45' 21.002
10,000.00	89.91	359.63		959.39	-266.11	478,785.12	719,741.97	32° 18' 53.7542 N	103° 45' 21.003
			9,025.96		-266.75	478,885.12	719,741.33	32° 18' 54.7437 N	103° 45' 21.005
10,100.00	89.91	359.63	9,026.11	1,059.39	-267.39	478,985.12	719,740.69	32° 18' 55.7333 N	103° 45' 21.006
10,200.00	89.91	359.63	9,026.27	1,159.39	-268.04	479,085.12	719,740.05	32° 18' 56.7228 N	103° 45' 21.007
10,300.00	89.91	359.63	9,026.42	1,259.38	-268.68	479,185.11	719,739.41	32° 18' 57.7124 N	103° 45' 21.008
10,400.00	89.91	359.63	9,026.57	1,359.38	-269.32	479,285.11	719,738.77	32° 18′ 58.7019 N	103° 45′ 21.009
10,500.00	89.91	359.63	9,026.72	1,459.38	-269.96	479,385.11	719,738.13	32° 18′ 59.6915 N	103° 45′ 21.011
10,600.00	89.91	359.63	9,026.87	1,559.38	-270.60	479,485.11	719,737.49	32° 19' 0.6810 N	103° 45′ 21.012
10,700.00	89.91	359.63	9,027.02	1,659.38	-271.24	479,585.11	719,736.85	32° 19' 1.6706 N	103° 45′ 21.013
10,800.00	89.91	359.63	9,027.17	1,759.37	-271.88	479,685.10	719,736.20	32° 19' 2.6601 N	103° 45′ 21.014
10,900.00	89.91	359.63	9,027.33	1,859.37	-272.52	479,785.10	719,735.56	32° 19′ 3.6497 N	103° 45' 21.015
11,000.00	89.91	359.63	9,027.48	1,959.37	-273.16	479,885.10	719,734.92	32° 19' 4.6392 N	103° 45′ 21.017
11,100.00	89.91	359.63	9,027.63	2,059.37	-273.80	479,985.10	719,734.28	32° 19' 5.6288 N	103° 45' 21.018
11,200.00	89.91	359.63	9,027.78	2,159.36	-274.45	480,085.10	719,733.64	32° 19' 6.6184 N	103° 45′ 21.019
11,300.00	89.91	359.63	9,027.93	2,259.36	-275.09	480,185.09	719,733.00	32° 19′ 7.6079 N	103° 45′ 21.020
11,400.00	89.91	359.63	9,028.08	2,359.36	-275.73	480,285.09	719,732.36	32° 19′ 8.5975 N	103° 45' 21.021
11,500.00	89.91	359.63	9,028.23	2,459.36	-276.37	480,385.09	719,731.72	32° 19' 9.5870 N	103° 45' 21.022
11,600.00	89.91	359.63	9,028.39	2,559.36	-277.01	480,485.09	719,731.08	32° 19' 10.5766 N	103° 45′ 21.024
11,700.00	89.91	359.63	9,028.54	2,659.35	-277.65	480,585.08	719,730.44	32° 19' 11.5661 N	103° 45' 21.025
11,800.00	89.91	359.63	9,028.69	2,759.35	-278.29	480,685.08	719,729.79	32° 19' 12.5557 N	103° 45' 21.026
11,900.00	89.91	359.63	9,028.84	2,859.35	-278.93	480,785.08	719,729.15	32° 19' 13.5452 N	103° 45' 21.027
12,000.00	89.91	359.63	9,028.99	2,959.35	-279.57	480,885.08	719,728.51	32° 19' 14.5348 N	103° 45' 21.028
12,100.00	89.91	359.63	9,029.14	3,059.35	-280.21	480,985.08	719,727.87	32° 19' 15.5243 N	103° 45' 21.030
12,200.00	89.91	359.63	9,029.30	3,159.34	-280.86	481,085.07	719,727.23	32° 19' 16.5139 N	103° 45' 21.031
12,300.00	89.91	359.63	9,029.45	3,259.34	-281.50	481,185.07	719,726.59	32° 19′ 17.5034 N	103° 45' 21.032
12,400.00	89.91	359.63	9,029.60	3,359.34	-282.14	481,285.07	719,725.95	32° 19' 18.4930 N	103° 45' 21.033
12,500.00	89.91	359.63	9,029.75	3,459.34	-282.78	481,385.07	719,725.31	32° 19' 19.4826 N	103° 45' 21.034
12,600.00	89.91	359.63	9,029.90	3,559.33	-283.42	481,485.06	719,724.67	32° 19' 20.4721 N	103° 45' 21.036
12,700.00	89.91	359.63	9,030.05	3,659.33	-284.06	481,585.06	719,724.02	32° 19' 21.4617 N	103° 45' 21.037
12,800.00	89.91	359.63	9,030.20	3,759.33	-284.70	481,685.06	719,723.38	32° 19' 22.4512 N	103° 45' 21.038
12,900.00	89.91	359.63	9,030.36	3,859.33	-285.34	481,785.06	719,722.74	32° 19' 23.4408 N	103° 45' 21.039
13,000.00	89.91	359.63	9,030.51	3,959.33	-285.98	481,885.06	719,722.10	32° 19' 24.4303 N	103° 45' 21.040
13,100.00	89.91	359.63	9,030.66	4,059.32	-286.63	481,985.05	719,721.46	32° 19' 25.4199 N	103° 45' 21.042
13,200.00	89.91	359.63	9,030.81	4,159.32	-287.27	482,085.05	719,720.82	32° 19' 26.4094 N	103° 45' 21.043
13,300.00	89.91	359.63	9,030.96	4,259.32	-287.91	482,185.05	719,720.18	32° 19' 27.3990 N	103° 45′ 21.044
13,400.00	89.91	359.63	9,031.11	4,359.32	-288.55	482,285.05	719,719.54	32° 19′ 28.3885 N	103° 45' 21.045
13,500.00	89.91	359.63	9,031.26	4,459.31	-289.19	482,385.05	719,718.90	32° 19' 29.3781 N	103° 45' 21.046
13,600.00	89.91	359.63	9,031.42	4,559.31	-289.83	482,485.04	719,718.26	32° 19′ 30.3676 N	103° 45' 21.047
13,700.00	89.91	359.63	9,031.57	4,659.31	-290.47	482,585.04	719,717.61	32° 19' 31.3572 N	103° 45' 21.049
13,800.00	89.91	359.63	9,031.37	4,759.31	-290. 4 7 -291.11	482,685.04	719,716.97	32° 19' 32.3467 N	103° 45' 21.050
13,900.00	89.91	359.63	9,031.72	4,759.31	-291.75	482,785.04	719,716.33	32° 19′ 33.3363 N	103° 45' 21.050
	89.91	359.63 359.63	9,031.87	•	-291.75 -292.39	<i>'</i>			
14,000.00				4,959.30		482,885.03	719,715.69	32° 19' 34.3259 N	103° 45' 21.052
14,100.00	89.91	359.63	9,032.17	5,059.30	-293.04	482,985.03	719,715.05	32° 19' 35.3154 N	103° 45' 21.053
14,200.00	89.91	359.63	9,032.32	5,159.30	-293.68	483,085.03	719,714.41	32° 19' 36.3050 N	103° 45' 21.055
14,300.00	89.91 89.91	359.63 359.63	9,032.48 9,032.63	5,259.30 5,359.30	-294.32 -294.96	483,185.03 483,285.03	719,713.77 719,713.13	32° 19' 37.2945 N 32° 19' 38.2841 N	103° 45' 21.0562 103° 45' 21.0574

Planning Report - Geographic

EDM 5000.1 Multi User Db Database: Company:

Devon Energy

Project: Eddy County, NM (NAD-83) Site: Bellog 11-2 Fed State Com Well:

Bellog 11-2 Fed State Com 521H

ОН Wellbore: Plan #2 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well Belloq 11-2 Fed State Com 521H

3430' GE + 23.5' KB @ 3453.50usft 3430' GE + 23.5' KB @ 3453.50usft

Minimum Curvature

/leasured			Vertical		4	Мар	Мар		Tarana sin
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	· Latitude	Longitude
14,500.00	89.91	359.63	9,032.78	5,459.29	-295.60	483,385.02	719,712.49	32° 19' 39.2736 N	103° 45' 21.058
14,600.00	89.91	359.63	9,032.93	5,559.29	-296.24	483,485.02	719,711.85	32° 19' 40.2632 N	103° 45' 21.059
14,700.00	89.91	359.63	9,033.08	5,659.29	-296.88	483,585.02	719,711.20	32° 19' 41.2527 N	103° 45' 21.06
14,800.00	89.91	359.63	9,033.23	5,759.29	-297.52	483,685.02	719,710.56	32° 19' 42.2423 N	103° 45' 21.062
14,900.00	89.91	359.63	9,033.38	5,859.28	-298.16	483,785.02	719,709.92	32° 19′ 43.2318 N	103° 45' 21.06
15,000.00	89.91	359.63	9,033.54	5,959.28	-298.81	483,885.01	719,709.28	32° 19' 44.2214 N	103° 45' 21.06
15,100.00	89.91	359.63	9,033.69	6,059.28	-299.45	483,985.01	719,708.64	32° 19' 45.2109 N	103° 45′ 21.06
15,200.00	89.91	359.63	9,033.84	6,159.28	-300.09	484,085.01	719,708.00	32° 19′ 46.2005 N	103° 45′ 21.066
15,300.00	89.91	359.63	9,033.99	6,259.28	-300.73	484,185.01	719,707.36	32° 19' 47.1900 N	103° 45' 21.06
15,400.00	89.91	359.63	9,034.14	6,359.27	-301.37	484,285.00	719,706.72	32° 19′ 48.1796 N	103° 45' 21.06
15,500.00	89.91	359.63	9,034.29	6,459.27	-302.01	484,385.00	719,706.08	32° 19' 49.1691 N	103° 45' 21.07
15,600.00	89.91	359.63	9,034.45	6,559.27	-302.65	484,485.00	719,705.43	32° 19' 50.1587 N	103° 45' 21.07
15,700.00	89.91	359.63	9,034.60	6,659.27	-303.29	484,585.00	719,704.79	32° 19' 51.1482 N	103° 45' 21.072
15,800.00	89.91	359.63	9,034.75	6,759.26	-303.93	484,685.00	719,704.15	32° 19' 52.1378 N	103° 45' 21.07
15,900.00	89.91	359.63	9,034.90	6,859.26	-304.57	484,784.99	719,703.51	32° 19' 53.1273 N	103° 45' 21.07
16,000.00	89.91	359.63	9,035.05	6,959.26	-305.22	484,884.99	719,702.87	32° 19' 54.1169 N	103° 45' 21.07
16,100.00	89.91	359.63	9,035.20	7,059.26	-305.86	484,984.99	719,702.23	32° 19' 55.1065 N	103° 45' 21.07
16,200.00	89.91	359.63	9,035.35	7,159.26	-306.50	485,084.99	719,701.59	32° 19' 56:0960 N	103° 45' 21.07
16,300.00	89.91	359.63	9,035.51	7,259.25	-307.14	485,184.98	719,700.95	32° 19' 57.0856 N	103° 45' 21.08
16,400.00	89.91	359.63	9,035.66	7,359.25	-307.78	485,284.98	719,700.31	32° 19' 58.0751 N	103° 45' 21.08
16,500.00	89.91	359.63	9,035.81	7,459.25	-308.42	485,384.98	719,699.67	32° 19' 59.0647 N	103° 45' 21.08
16,600.00	89.91	359.63	9,035.96	7,559.25	-309.06	485,484.98	719,699.02	32° 20' 0.0542 N	103° 45' 21.08
16,700.00	89.91	359.63	9,036.11	7,659.25	-309.70	485,584.98	719,698.38	32° 20' 1.0438 N	103° 45' 21.08
16,800.00	89.91	359.63	9,036.26	7,759.24	-310.34	485,684.97	719,697.74	32° 20' 2.0333 N	103° 45' 21.08
16,900.00	89.91	359.63	9,036.41	7,859.24	-310.99	485,784.97	719,697.10	32° 20' 3.0229 N	103° 45' 21.08
17,000.00	89.91	359.63	9,036.57	7,959.24	-311.63	485,884.97	719,696.46	32° 20' 4.0124 N	103° 45' 21.08
17,100.00	89.91	359.63	9,036.72	8,059.24	-312.27	485,984.97	719,695.82	32° 20' 5.0020 N	103° 45' 21.08
17,100.00	89.91	359.63	9,036.87	8,159.23	-312.91	486,084.97	719,695.18	32° 20′ 5.9915 N	103° 45' 21.09
17,200.00	89.91	359.63	9,037.02	8,259.23	-313.55	486,184.96	719,694.54	32° 20' 6.9811 N	103° 45' 21.09
17,300.00	89.91	359.63	9,037.17	8,359.23	-314.19	486,284.96	719,693.90	32° 20' 7.9706 N	103° 45' 21.09
17,500.00	89.91	359.63	9,037.32	8,459.23	-314.83	486,384.96	719,693.25	32° 20' 8.9602 N	103° 45′ 21.09
17,600.00	89.91	359.63	9,037.47	8,559.23	-315.47	486,484.96	719,692.61	32° 20' 9.9497 N	103° 45' 21.09
17,700.00	89.91	359.63	9,037.63	8,659.22	-316.11	486,584.95	719,691.97	32° 20′ 10.9393 N	103° 45' 21.09
17,700.00	89.91	359.63	9,037.78	8,759.22	-316.75	486,684.95	719,691.33	32° 20' 11.9288 N	103° 45' 21.09
17,800.00	89.91	359.63	9,037.70	8,859.22	-317.40	486,784.95	719,690.69	32° 20' 12.9184 N	103° 45' 21.09
	89.91	359.63	9,038.08	8,959.22	-318.04	486,884.95	719,690.05	32° 20' 13.9079 N	103° 45' 21.10
18,000.00	89.91	359.63	9,038.23	9,059.22	-318.68	486,984.95	719,689.41	32° 20' 14.8975 N	103° 45' 21.10
18,100.00	89.91	359.63	9,038.38	9,059.22	-310.00 -319.32	487,084.94	719,688.77	32° 20' 15.8870 N	103° 45' 21.10
18,200.00 18,300.00	89.91	359.63 359.63	9,038.54	9,159.21	-319.32 -319.96	487,184.94	719,688.13	32° 20' 16.8766 N	103° 45' 21.10
						•		32° 20′ 17.8661 N	103° 45′ 21.10
18,400.00	89.91	359.63	9,038.69	9,359.21	-320.60	487,284.94	719,687.49		
18,500.00	89.91	359.63	9,038.84	9,459.21	-321.24	487,384.94	719,686.84	32° 20' 18.8557 N	103° 45' 21.10
18,600.00	89.91	359.63	9,038.99	9,559.20	-321.88	487,484.93	719,686.20	32° 20′ 19.8452 N	103° 45' 21.10
18,700.00	89.91	359.63	9,039.14	9,659.20	-322.52	487,584.93	719,685.56	32° 20' 20.8348 N	103° 45' 21.10
18,800.00	89.91	359.63	9,039.29	9,759.20	-323.16	487,684.93	719,684.92	32° 20' 21.8243 N	103° 45' 21.10
18,900.00	89.91	359.63	9,039.44	9,859.20	-323.81	487,784.93	719,684.28	32° 20' 22.8139 N	103° 45' 21.11
19,000.00	89.91	359.63	9,039.60	9,959.20	-324.45	487,884.93	719,683.64	32° 20′ 23.8034 N	103° 45' 21.11
19,100.00	89.91	359.63	9,039.75	10,059.19	-325.09	487,984.92	719,683.00	32° 20′ 24.7930 N	103° 45' 21.11
19,187.22	89.91	359.63	9,039.88	10,146.41	-325.65	488,072.14	719,682.44	32° 20' 25.6561 N	103° 45' 21.11
LTP (Bell	oq 521H) - 10	0' FNL, 400' F	WL S2						
19,200.00	89.91	359.63	9,039.90	10,159.19	-325.73	488,084.92	719,682.36	32° 20' 25.7825 N	103° 45' 21.11
19,267.22	89.91	359.63	9,040.00	10,226.41	-326.16	488,152.14	719,681.93	32° 20' 26.4477 N	103° 45' 21.11

Planning Report - Geographic

Database: EDM 5000.1 Multi User Db Local Co-ordinate Reference: Well Belloq 11-2 Fed State Com 521H Company: Devon Energy 3430' GE + 23.5' KB @ 3453.50usft TVD Reference: Eddy County, NM (NAD-83) Project: MD Reference: 3430' GE + 23.5' KB @ 3453.50usft Belloq 11-2 Fed State Com Site: North Reference: Survey Calculation Method: Well: Bellog 11-2 Fed State Com 521H Minimum Curvature Wellbore: OH, Plan #2 Design:

Design Targets									
Target Name - hit/miss target Di - Shape	p Angle (°)	Dip Dir.	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (Belloq 521H) - 300 - plan hits target center - Point	0.00	0.01	0.00	0.00	0.00	477,925.73	720,008.09	32° 18′ 45.2359 N	103° 45′ 17.9570 W
KOP (Belloq 521H) - 50' - plan hits target center - Point	0.00	0.00	8,452.04	-250.00	-259.00	477,675.73	719,749.09	32° 18' 42.7759 N	103° 45' 20.9906 W
FTP (Belloq 521H) - 100 - plan hits target center - Point	0.00	0.00	8,686.13	-200.00	-259.32	477,725.73	719,748.77	32° 18' 43.2707 N	103° 45′ 20.9912 W
LTP (Belloq 521H) - 100 - plan hits target center - Point	0.00	0.01	9,039.88	10,146.41	-325.65	488,072.14	719,682.44	32° 20' 25.6561 N	103° 45′ 21.1144 W
PBHL (Belloq 521H) - 20 - plan hits target center - Point	0.00	0.00	9,040.00	10,226.41	-326.16	488,152.14	719,681.93	32° 20' 26.4477 N	103° 45' 21.1153 W

Eddy County, NM (NAD-83) Belloq 11-2 Fed State Com Belloq 11-2 Fed State Com 521H

OH Plan #2

Anticollision Report

23 January, 2019

Anticollision Report

Well Bellog 11-2 Fed State Com 521H Company: Devon Energy Local Co-ordinate Reference: 3430' GE + 23.5' KB @ 3453.50usft Project: Eddy County; NM (NAD-83) TVD Reference: Bellog 11-2 Fed State Com MD Reference: 3430' GE + 23.5' KB @ 3453.50usft Reference Site: Site Error: 0.00 úsft-North Reference: Reference Well: Bellog 11-2 Fed State Com 521H **Survey Calculation Method:** Minimum Curvature Well Error: 0.00 usft Output errors are at 2.00 sigma Reference Wellbore ОН EDM 5000.1 Multi User Db Database: Plan #2 Offset TVD Reference: Reference Design: Offset Datum

Plan #2 Reference NO GLOBAL FILTER: Using user defined selection & filtering criteria Filter type: Interpolation Method: MD Interval 100.00usft Error Model: **ISCWSA** Depth Range: Unlimited Scan Method: Closest Approach 3D Maximum center-center distance of 2,000.00 usft Results Limited by: Error Surface: Elliptical Conic 2.00 Sigma Warning Levels Evaluated at: Casing Method: Not applied

Survey Tool Program Date 1/23/2019

From To (usft) Survey (Wellbore) Tool Name Description.

0.00 19,266.54 Plan #2 (OH) LEAM MWD+HDGM MWD+HDGM

	<u> </u>						
	Reference		Dista				
Site Name	Measured Depth	Measured	Between Centres	Between	Separation	Warning	
Offset Well - Wellbore - Design	(usft)	Depth . (usft)	(usft)	Ellipses (usft)	Factor	No. of the second	
Bellog 11-2 Fed State Com						and the factor of the same and	
Barclay 11H Federal 1 (Offset) - OH - OH					1 March 1 Mary 1	Out of range	
Barclay 11M Federal 13 (Offset) - OH - OH	2,000.00	2,058.87	328.69	283.44	7.264	CC	
Barclay 11M Federal 13 (Offset) - OH - OH	9,000.00	8,800.00	462.19	270.80	2.415	SF	
Barclay 11M Federal 13 (Offset) - OH - OH	9,300.00	8,800.00	386.29	242.74	2.691	ES	
Barclay State 1 (Offset) - OH - OH						Out of range	
Belloq 11 Fed 222H (Offset) - OH - Plan #1	2,851.41	2,898.28	30.38	17.90	2.435	CC, ES, SF	
Belloq 11-2 Fed State Com 223H (Offset) - OH - Plan #1						Out of range	
Belloq 11-2 Fed State Com 231H (Offset) - OH - Plan #1	8,954.11	8,927.53	63.92	25.64	1.670	CC, ES, SF	
Belloq 11-2 Fed State Com 234H (Offset) - OH - Plan #1						Out of range	
Belloq 11-2 Fed State Com 511H - OH - Plan #1	2,000.00	2,000.10	30.00	21.29	3.443	CC, ES	
Belloq 11-2 Fed State Com 511H - OH - Plan #1	19,267.22	19,117.10	668.95	341.25	2.041	SF	
Belloq 11-2 Fed State Com 512H - OH - Plan #1	2,000.00	2,026.50	1,249.72	1,240.95	142.457	CC, ES	
Belloq 11-2 Fed State Com 512H - OH - Plan #1	19,267.22	19,142.98	1,919.67	1,581.77	5.681	SF	
Belloq 11-2 Fed State Com 513H - OH - Plan #2						Out of range	
Belloq 11-2 Fed State Com 514H - OH - Plan #2						Out of range	
Belloq 11-2 Fed State Com 522H - OH - Plan #2	2,000.00	2,025.60	1,219.77	1,211.00	139.075	CC	
Belloq 11-2 Fed State Com 522H - OH - Plan #2	18,800.00	18,808.61	1,279.96	955.79	3.948	ES, SF	
Belloq 11-2 Fed State Com 523H - OH - Plan #1						Out of range	
Belloq 11-2 Fed State Com 524H - OH - Plan #2						Out of range	
Bellog 2 State							
2H - OH - OH	19,089.94	9,066.98	1,348.25	1,163.73	7.307	CC	
2H - OH - OH	19,100.00	9,067.06	1,348.29	1,163.63	7.301	ES	
2H - OH - OH	19,200.00	9,067.83	1,352.74	1,167.19	7.291	SF	
5H - OH - OH	18,869.82	9,065.53	1,265.65	1,083.05	6.932	CC	
5H - OH - OH	18,900.00	9,065.24	1,266.01	1,083.04	6.919	ES, SF	
6H - OH - OH	19,181.82	9,076.31	1,477.43	1,291.23	7.935	CC	
6H - OH - OH	19,200.00	9,076.34	1,477.54	1,291.09	7.925	ES	
6H - OH - OH	19,267.22	9,076.47	1,479.90	1,292.99	7.918	SF	

Anticollision Report

Devon Energy Company:

Project: Eddy County, NM (NAD-83) Reference Site: Belloq 11-2 Fed State Com

0.00 usft

Site Error: Reference Well:

Belloq 11-2 Fed State Com 521H

Well Error: Reference Wellbore 0.00 usft

ОН Reference Design: Plan #2 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at

Database:

Offset TVD Reference:

Well Belloq 11-2 Fed State Com 521H

3430' GE + 23.5' KB @ 3453.50usft 3430' GE + 23.5' KB @ 3453.50usft

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

urvey Prog		-INC-ONLY	4						. *				Offset Well Error:	. 0.00 us
Refer			et .	Semi Major					Dista		* .			
easured Depth	Vertical · Depth ·	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbor	re Centre +E/-W	Between	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)		(usft)	(usft)	(usft)	(usft)	(usft)	· · · · · · · · · · · · · · · · · · ·	,	
0.00	0.00	58.60	58.60	0.00	0.56	-1.22	328.61	-6.98	328.69					
100.00	100.00	158.60	158.60	0.09	1.52	-1.22	328.61	-6.98	328.69	327.08	1.61	204.699		
200.00	200.00	258.61	258.60	0.31	2.58	-1.22	328.61	-6.98	328.69	325.80	2.89	113.749		
300.00	300.00	358.61	358.60	0.54	4.71	-1.22	328.61	-6.98	328.69	323.44	5.24	62.696		
400.00	400.00	458.61	458.60	0.76	6.84	-1.22	328.61	-6.98	328.69	321.09	7.60	43.274		
500.00	500.00	558.61	558.60	0.99	8.96	-1.22	328.61	-6.98	328.69	318.74	9.95	33.039		
600.00	600.00	658.61	658.60	1.21	11.09	-1.22	328.61	-6.98	328.69	316.39	12.30	26.720		
700.00	700.00	758.61	758.60	1.43	13.22	-1.22	328.61	-6.98	328.69	314.03	14.65	22.429		
800.00	800.00	858.61	858.60	1.66	15.35	-1.22	328.61	-6.98	328.69	311.68	17.01	19.326		
900.00	900.00	958.61	958.60	1.88	17.48	-1.22	328.61	-6.98	328.69	309.33	19.36	16.978		
1,000.00	1,000.00	1,058.72	1,058.60	2.11	19.61	-1.22	328.61	-6.98	328.69	306.97	21.72	15.136		
1,100.00	1,100.00	1,158.72	1,158.60	2.33	21.74	-1.22	328.61	-6.98	328.69	304.62	24.07	13.656		
1,200.00	1,200.00	1,258.72	1,258.60	2.56	23.86	-1.22	328.61	-6.98	328.69	302.27	26.42	12.440		
1,300.00	1,300.00	1,358.72	1,358.60	2.78	25.99	-1.22	328.61	-6.98	328.69	299.91	28.77	11.423		
1,400.00	1,400.00	1,458.79	1,458.60	3.01	28.12	-1.22	328.61	-6.98	328.69	297.56	31.13	10.559		
1,500.00	1,500.00	1,558.79	1,558.60	3.23	30.25	-1.22	328.61	-6.98	328.69	295.20	33.48	9.817		
1,600.00	1,600.00	1,658.79	1,658.60	3.46	32.38	-1.22	328.61	-6.98	328.69	292.85	35.84	9.172		
1,700.00	1,700.00	1,758.79	1,758.60	3.68	34.51	-1.22	328.61	-6.98	328.69	290.50	38.19	8.607		
1,800.00	1,800.00	1,858.79	1,858.60	3.91	36.63	-1.22	328.61	-6.98	328.69	288.15	40.54	8.107		
1,900.00	1,900.00	1,958.87	1,958.60	4.13	38.76	-1.22	328.61	-6.98	328.69	285.79	42.90	7.662		
2,000.00	2,000.00	2,058.87	2,058.60	4.36	40.89	-1.22	328.61	-6.98	328.69	283.44	45.25	7.264 CC		
2,100.00	2,099.99	2,158.86	2,158.59	4.56	43.02	132.88	328.61	-6.98	329.28	281.70	47.58	6.921		
2,200.00	2,199.96	2,258.83	2,258.56	4.74	45.15	133.20	328.61	-6.98	331.07	281.18	49.89	6.637		
2,300.00	2,299.86	2,358.73	2,358.46	4.92	47.28	133.72	328.61	-6.98	334.07	281.87	52.20	6.400		
2,400.00	2,399.68	2,458.63	2,458.28	5.11	49.40	134.44	328.61	-6.98	338.28	283.77	54.51	6.206		
2,500.00	2,499.47	2,558.41	2,558.07	5.31	51.52	135.22	328.61	-6.98	342.89	286.06	56.83	6.034		
2,600.00	2,599.25	2,658.20	2,657.85	5.50	53.65	135.97	328.61	-6.98	347.56	288.41	59.15	5.876		-
2,700.00	2,699.04	2,757.99	2,757.64	5.71	55.77	136.71	328.61	-6.98	352.29	290.82	61.47	5.731		
2,800.00	2,798.82	2,857.82	2,857.42	5.91	57.90	137.43	328.61	-6.98	357.08	293.28	63.80	5.597		
2,900.00	2,898.61	2,957.61	2,957.21	6.12	60.02	138.13	328.61	-6.98	361.92	295.79	66.13	5.473		
3,000.00	2,998.40	3,057.43	3,057.00	6.34	62.15	138.81	328.61	-6.98	366.81	298.36	68.46	5.358		
3,100.00	3,098.18	3,157.22	3,156.78	6.55	64.27	139.47	328.61	-6.98	371.76	300.97	70.79	5.252		
3,200.00	3,197.97	3,257.01	3,256.57	6.77	66.39	140.12	328.61	-6.98	376.75	303.63	73.12	5.152		
3,300.00	3,297.76	3,356.79	3,356.36	6.99	68.52	140.74	328.61	-6.98	381.79	306.33	75.46	5.060		
3,400.00	3,397.54	3,456.63	3,456.14	7.21	70.64	141.36	328.61	-6.98	386.87	309.08	77.80	4.973		
3,500.00	3,497.33	3,556.42	3,555.93	7.44	72.77	141.95	328.61	-6.98	392.00	311.87	80.13	4.892		
3,600.00	3,597.12	3,656.20	3,655.72	7.66	74.89	142.53	328.61	-6.98	397.17	314.70	82.47	4.816		
3,700.00	3,696.90	3,756.04	3,755.50	7.89	77.35	143.10	328.61	-6.98	402.38	317.23	85.15	4.726		
3,800.00	3,796.69	3,855.82	3,855.29	8.12	79.83	143.65	328.61	-6.98	407.62	319.78	87.84	4.640		
3,900.00	3,896.48	3,955.61	3,955.08	8.35	82.31	144.18	328.61	-6.98	412.90	322.37	90.54	4.561		
4,000.00	3,996.26	4,055.40	4,054.86	8.58	84.79	144.71	328.61	-6.98	418.22	324.99	93.24	4.486		
4,100.00	4,096.05	4,155.18	4,154.65	8.81	87.27	145.22	328.61	-6.98	423.57	327.64	95.94	4.415		
4,200.00	4,195.84	4,155.16	4,154.65	9.05	89.75	145.22	328.61	-6.98	428.96	330.32	98.63	4.349		
4,300.00	4,295.62	4,354.98	4,354.22	9.28	92.24	146.20	328.61	-6.98	434.37	333.03	101.35	4.286		
4,400.00	4,395.41	4,454.76	4,454.01	9.51	94.73	146.67	328.61	-6.98	439.82	335.77	104.05	4.227		
4,500.00	4,495.19	4,554.62	4,553.79	9.75	96.94	147.13	328.61	-6.98	445.30	338.81	106.49	4.182		
4,600.00	4,594.98	4,654.40	4,653.58	9.99	99.06	147.58	328.61	-6.98	450.80	341.97	108.83	4.142		
4,700.00	4,594.98 4,694.77	4,654.40	4,653.58	10.22	101.18	147.58	328.61	-6.98	450.80 456.33	341.97 345.16	108.83	4.142 4.105		
4,800.00	4,794.55	4,853.98	4,853.15	10.22	103.30	148.45	328.61	-6.98	461.89	348.37	113.52	4.069		
4,900.00	4,894.34	4,953.83	4,952.94	10.70	105.43	148.87	328.61	-6.98	467.47	351.61	115.86	4.035		
5,000.00	4,994.13	5,053.62	5,052.73	10.94	107.55	149.28	328.61	-6.98	473.07	354.87	118.21	4.002		
5,100.00	5,093.91	5,153.40	5,152.51	11.18	109.67	149.68	328.61	-6.98	478.70	358.15	120.55	3.971		

Anticollision Report

Devon Energy Local Co-ordinate Reference: Well Belloq 11-2 Fed State Com 521H Company: 3430' GE + 23.5' KB @ 3453.50usft Project: Eddy County, NM (NAD-83) TVD Reference: Belloq 11-2 Fed State Com MD Reference: 3430' GE + 23.5' KB @ 3453.50usft Reference Site: Site Error: 0.00 usft North Reference: Grid Reference Well: Bellog 11-2 Fed State Com 521H 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: Plan #2 Offset TVD Reference: Offset Datum Reference Design:

	- , .	The same of the sa	1-2 Feu v	State Com -	Daiciay	I IIVI I EUCIA	l 13 (Offset) - ()n - On _				راسيست	Offset Site Error:	0.00 usft
urvey Prog	1 1	-INC-ONLY		1			, , , , , , , , , , , , , , , , , , ,		, ,				Offset Well Error:	0.00 usft
Refer fleasured		Offse		Semi Major		Linhe!	Officer Mollhor		Dista		Minimum		·	
Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	4.			+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)		(usft)	(°).	(usft)	(usft)		(usft)		4 - 10 - 14		
5,200.00	5,193.70	5,253.19	5,252.30	11.42	111.80	150.07	328.61	-6.98	484.36	361.46	122.90	3.941		
5,300.00	5,293.49	5,352.98	5,352.09	11.66	113.92	150.45	328.61	-6.98	490.03	364.79	125.24	3.913		
5,400.00	5,393.27	5,452.76	5,451.87	11.90	116.04	150.82	328.61	-6.98	495.73	368.14	127.59	3.885		
5,500.00	5,493.06	5,552.63	5,551.66	12.14	118.16	151.19	328.61	-6.98	501.44	371.51	129.94	3.859		
5,600.00 5,700.00	5,592.85	5,652.42	5,651.45	12.38	120.29	151.54	328.61	-6.98	507.18	374.90	132.28	3.834		
5,700.00	5,692.63	5,752.21	5,751.23	12.63	122.41	151.89	328.61	-6.98	512.93	378.30	134.63	3.810		
5,800.00	5,792.42	5,851.99	5,851.02	12.87	124.53	152.23	328.61	-6.98	518.70	381.73	136.97	3.787		
5,900.00	5,892.21	5,951.78	5,950.81	13.11	126.65	152.56	328.61	-6.98	524.49	385.17	139.32	3.765		
6,000.00	5,991.99	6,051.64	6,050.59	13.35	128.78	152.89	328.61	-6.98	530.30	388.63	141.67	3.743		
6,100.00	6,091.78	6,151.43	6,150.38	13.60	130.90	153.20	328.61	-6.98	536.13	392.11	144.02	3.723		
6,200.00	6,191.57	6,251.22	6,250.17	13.84	133.02	153.51	328.61	-6.98	541.97	395.60	146.36	3.703		
6 300 00	6 201 25	6 351 00	6 240 05	14.00	105.45	452.00	220.04	0.00	5.17.00	200.44	440.74			
6,300.00 6,400.00	6,291.35 6,391.14	6,351.00 6,450.85	6,349.95 6,449.74	14.08 14.33	135.15 137.27	153.82	328.61	-6.98	547.82	399.11	148.71	3.684		
6,500.00	6,490.92	6,550.64	6,549.52	14.33	137.27	154.12 154.41	328.61 328.61	-6.98 -6.98	553.69 559.58	402.64	151.06	3.665		
6,600.00	6,590.71	6,650.42	6,649.31	14.57	141.52	154.41	328.61	-6.98 -6.98	565.48	406.17 409.73	153.41 155.75	3.648 3.631		
6,700.00	6,690.50	6,750.21	6,749.10	15.06	143.64	154.70	328.61	-6.98	571.39	413.29	158.10	3.614		
2,. 30.00	2,200.00	2,.00.21	5,, 10.10	10.00	0.04	.54.51	320.01	-0.50	371.38	713.29	130,10	3.014		
6,800.00	6,790.28	6,850.00	6,848.88	15.31	145.76	155.25	328.61	-6.98	577.32	416.87	160.45	3.598		
6,900.00	6,890.07	6,949.86	6,948.67	15.55	147.89	155.52	328.61	-6.98	583.26	420.46	162.80	3.583		
7,000.00	6,989.86	7,049.64	7,048.46	15.80	150.01	155.78	328.61	-6.98	589.21	424.07	165.15	3.568		
7,100.00	7,089.64	7,149.43	7,148.24	16.04	152.13	156.04	328.61	-6.98	595.18	427.68	167.50	3.553		
7,200.00	7,189.43	7,249.21	7,248.03	16.29	154.26	156.29	328.61	-6.98	601.16	431.31	169.84	3.539		
7,300.00	7,289.22	7,349.00	7,347.82	16.53	156.38	150 54	220 64	6.00	607.14	424.05	172.10	2 526		
7,400.00	7,289.00	7,349.86	7,447.60	16.78	158.50	156.54 156.78	328.61 328.61	-6.98 -6.98	607.14 613.14	434.95 438.60	172.19 174.54	3.526 3.513		
7,500.00	7,488.79	7,548.65	7,547.39	17.03	160.63	157.02	328.61	-6.98	619.15	442.26	176.89	3.500		
7,600.00	7,588.62	7,648.48	7,647.22	17.25	162.75	157.25	328.61	-6.98	624.54	445.32	179.22	3.485		
7,700.00	7,688.53	7,748.44	7,747.13	17.44	164.88	157.41	328.61	-6.98	628.34	446.79	181.54	3.461		
			.,											
7,800.00	7,788.50	7,848.41	7,847.10	17.62	167.01	157.50	328.61	-6.98	630.52	446.67	183.86	3.429		
7,900.00	7,888.50	7,948.44	7,947.10	17.81	169.13	23.54	328.61	-6.98	631.12	444.93	186.18	3.390		
8,000.00	7,988.50	8,048.44	8,047.10	18.00	171.26	23.54	328.61	-6.98	631.12	442.61	188.51	3.348		
8,100.00	8,088.50	8,148.44	8,147.10	18.19	173.39	23.54	328.61	-6.98	631.12	440.29	190.83	3.307		
8,200.00	8,188.50	8,248.44	8,247.10	18.38	175.52	23.54	328.61	-6.98	631.12	437.96	193.16	3.267		
8,300.00	8,288.50	8,348.44	8,347.10	18.57	177.64	23.54	328.61	-6.98	631.12	435,64	195.48	3.229		
8,400.00	8,388.50	8,448.44	8,447.10	18.76	179.77	23.54	328.61	-6.98	631.12	433.31	197.81	3.191		
8,500.00	8,488.47	8,548.42	8,547.07	18.94	181.90	23.99	328.61	-6.98	630.06	429.92	200.13	3.148		
8,600.00	8,587.21	8,647.16	8,645.81	19.10	184.00	25.14	328.61	-6.98	616.36	413.94	202.42	3.045		
8,700.00	8,681.84	8,741.79	8,740.44	19.21	186.01	27.83	328.61	-6.98	587.46	382.85	204.61	2.871		
8,800.00	8,769.49	8,800.00	8,798.52	19.30	187.25	31.53	328.61	-6.98	545.56	339.88	205.68	2.652		
8,900.00	8,847.49	8,800.00	8,798.52	19.35	187.25	34.14	328.61	-6.98	502.21	300.85	201.37	2.494	_	
9,000.00	8,913.48	8,800.00	8,798.52	19.39	187.25	36.67	328.61	-6.98	462.19	270.80	191.39	2.415 SI	F	
9,100.00	8,965.45	8,800.00	8,798.52	19.43	187.25	38.91	328.61	-6.98	427.80	251.76	176.04	2.430		
9,200.00	9,001.82	8,800.00	8,798.52	19.63	187.25	40.65	328.61	-6.98	401.66	243.74	157.92	2.543		
9,300.00	9,021.48	8,800.00	8,798.52	20.05	187.25	41.67	328.61	-6.98	386.29	242.74	143.54	2.691 E	s	
9,352.24	9,025.77	8,800.00	8,798.52	20.32	187.25	41.77	328.61	-6.98	383.85	243.55	140.30	2.736	-	
9,400.00	9,025.05	8,800.00	8,798.52	20.57	187.25	41.89	328.61	-6.98	384.38	243.29	141.09	2.724		
9,500.00	9,025.21	8,800.00	8,798.52	21.20	187.25	41.89	328.61	-6.98	405.36	256.08	149.28	2.715		
9,600.00	9,025.36	8,800.00	8,798.52	21.93	187.25	41.89	328.61	-6.98	448.21	286.71	161.50	2.775		
9,700.00	9,025.51	8,800.00	8,798.52	22.75	187.25	41.89	328.61	-6.98	507.41	334.76	172.65	2.939		
9,800.00	9,025.66	8,800.00	8,798.52	23.66	187.25	41.89	328.61	-6.98	577.96	396.78	181.18	3.190		
9,900.00	9,025.81	8,800.00	8,798.52	24.63	187.25	41.89	328.61	-6.98	656.21	468.86	187.35	3.503	•	
10,000.00	9,025.96	8,800.00	8,798.52	25.68	187.25	41.89	328.61	-6.98	739.72	547.96	191.76	3.858		
10,100.00	9,026.11	8,800.00	8,798.52	26.78	187.25	41.89	328.61	-6.98	826.89	631.95	194.95	4.242		

Anticollision Report

Company: Devon Energy

Project: Eddy County, NM (NAD-83)
Reference Site: Bellog 11-2 Fed State Com

Site Error: Reference Well: 0.00 usft

Plan #2

Bellog 11-2 Fed State Com 521H

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

TVD Reference:
MD Reference:

North Reference: Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well Bellog 11-2 Fed State Com 521H

3430' GE + 23.5' KB @ 3453.50usft 3430' GE + 23.5' KB @ 3453.50usft

Grid

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

urvey Progr Refer		INC-ONLY Offse	et	Semi Major	Axis		44 4		Dista	ince		,	Offset Well Error: 0.	.00 us
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,300.00	9,026.42	8,800.00	8,798.52	29.14	187.25	41.89	328.61	-6.98	1,008.41	809.36	199.06	5.066		
10,400.00	9,026.57	8,800.00	8,798.52	30.38	187.25	41.89	328.61	-6.98	1,101.58	901.17	200.41	5.497		
10,500.00	9,026.72	8,800.00	8,798.52	31.66	187.25	41.89	328.61	-6.98	1,195.84	994.38	201.47	5.936		
10,600.00	9,026.87	8,800.00	8,798.52	32.97	187.25	41.89	328.61	-6.98	1,290.98	1,088.66	202.31	6.381		
10,700.00	9,027.02	8,800.00	8,798.52	34.31	187.25	41.89	328.61	-6.98	1,386.79	1,183.80	202.99	6.832		
10,800.00	9,027.17	8,800.00	8,798.52	35.67	187.25	41.89	328.61	-6.98	1,483.16	1,279.60	203.55	7.286		
10,900.00	9,027.33	8,800.00	8,798.52	37.06	187.25	41.89	328.61	-6.98	1,579.98	1,375.96	204.02	7.744		
11,000.00	9,027.48	8,800.00	8,798.52	38.46	187.25	41.89	328.61	-6.98	1,677.17	1,472.75	204.42	8.205		
11,100.00	9,027.63	8,800.00	8,798.52	39.89	187.25	41.89	328.61	-6.98	1,774.68	1,569.92	204.76	8.667		
11,200.00	9,027.78	8,800.00	8,798.52	41.33	187.25	41.89	328.61	-6.98	1,872.45	1,667.39	205.05	9.131		
11,300.00	9,027.93	8,800.00	8,798.52	42.78	187.25	41.89	328.61	-6.98	1,970.44	1,765.13	205.31	9.597		

Anticollision Report

Company: Devon Energy Local Co-ordinate Reference: Well Belloq 11-2 Fed State Com 521H Eddy County, NM (NAD-83) TVD Reference: 3430' GE + 23.5' KB @ 3453.50usft Project: Reference Site: Bellog 11-2 Fed State Com MD Reference: 3430' GE + 23.5' KB @ 3453.50usft Site Error: 0.00 usft-North Reference: Bellog 11-2 Fed State Com 521H Reference Well: 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 OН Database: Plan #2 Offset Datum Reference Design: Offset TVD Reference:

		ALL ADAM		State Com -			مىدانىيەرىنىنىدىدارىلاردارىدىد « مۇسىسەدىيەر ئىسىيادىر. « م						A second second	
	ram: 0-LE rence	EAM MWD+HC Offs		Semi Major	Avie					ince -	185	* * * * * * * * * * * * * * * * * * *	Offset Well Error:	0.00 us
asured	Vertical	Measured	Vertical	Reference	**	Highside	Offset Wellbore	Contro	Between	Between	Minimum	Separation	k 3	
epth	Depth	Depth	Depth	t in the second	4,1	Toolface	+N/-S	+E/-W. /	Centres	Ellipses	Separation		Warning	
usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	85 4 2 5	3	
0.00	0.00	38.50	38.50	0.00	0.03	-90.15	-0.38	-149.95	149.95					
100.00	100.00	138.50	138.50	0.09	0.16	-90.15	-0.38	-149.95	149.95	149.70	0.25	601.027		
200.00	200.00	238.50	238.50	0.31	0.39	-90.15	-0.38	-149.95	149.95	149.25	0.70	214.515		
300.00 400.00	300.00	338.50	338.50	0.54	0.61	-90.15	-0.38	-149.95	149.95	148.80	1.15	130.556		
500.00	400.00 500.00	438.50 538.50	438.50 538.50	0.76 0.99	0.84 1.06	-90.15 -90.15	-0.38 -0.38	-149.95 -149.95	149.95 149.95	148.35 147.90	1.60 2.05	93.831		
300.00	300.00	330.30	330.30	0.99	1.00	-90.15	-0.36	-149.93	149.95	147.90	2.05	73.232		
600.00	600.00	638.50	638.50	1.21	1.29	-90.15	-0.38	-149.95	149.95	147.45	2.50	60.049		
700.00	700.00	738.50	738.50	1.43	1.51	-90.15	-0.38	-149.95	149.95	147.00	2.95	50.888		
800.00	800.00	838.50	838.50	1.66	1.74	-90.15	-0.38	-149.95	149.95	146.55	3.40	44.152		
900.00	900.00	938.50	938.50	1.88	1.96	-90.15	-0.38	-149.95	149.95	146.10	3.85	38.991		
1,000.00	1,000.00	1,038.50	1,038.50	2.11	2.19	-90.15	-0.38	-149.95	149.95	145.66	4.30	34.911		
1,100.00	1,100.00	1,138.50	1,138.50	2.33	2.41	-90.15	-0.38	-149.95	149.95	145.21	4.74	31.603		
1,200.00	1,200.00	1,238.50	1,238.50	2.56	2.64	-90.15	-0.38	-149.95	149.95	144.76	5.19	28.868		
1,300.00	1,300.00	1,338.50	1,338.50	2.78	2.86	-90.15	-0.38	-149.95	149.95	144.31	5.64	26.569		
1,400.00	1,400.00	1,438.50	1,438.50	3.01	3.09	-90.15	-0.38	-149.95	149.95	143.86	6.09	24.609		
1,500.00	1,500.00	1,538.50	1,538.50	3.23	3.31	-90.15	-0.38	-149.95	149.95	143.41	6.54	22.918		
1 600 00	1 600 00	1 620 52	1 600 50	0.40	251	00.45	2.25	4 10 0-						
1,600.00 1,700.00	1,600.00 1,700.00	1,638.50 1,738.50	1,638.50 1,738.50	3.46	3.54	-90.15 -90.15	-0.38	-149.95	149.95	142.96	6.99	21.445		
1,800.00	1,800.00	1,838.50	1,738.50	3.68 3.91	3.76 3.98	-90.15 -90.15	-0.38 -0.38	-149.95 -149.95	149.95	142.51	7.44	20.149		
1,900.00	1,900.00	1,938.50	1,938.50	4.13	4.21	-90.15 -90.15	-0.38	-149.95	149.95 149.95	142.06 141.61	7.89 8.34	19.001 17.977		
2,000.00	2,000.00	2,040.62	2,040.62	4.36	4.43	-90.15	-0.38	-149.66	149.68	140.89	8.79	17.030		
-,000,00	2,000.00	2,0 10.02	2,010.02	7.50	1.10	55.10	0.00	140.00	145.00	140.03	0.79	17.030		
2,100.00	2,099.99	2,145.98	2,145.92	4.56	4.65	44.12	-0.38	-146.23	145.79	136.60	9.20	15.851		
2,200.00	2,199.96	2,250.76	2,250.44	4.74	4.87	44.99	-0.38	-138.98	137.01	127.44	9.57	14.320		
2,300.00	2,299.86	2,354.49	2,353.59	4.92	5.09	46.67	-0.38	-128.05	123.44	113.51	9.93	12.430		
2,400.00	2,399.68	2,456.77	2,454.84	5.11	5.32	49.62	-0.38	-113.61	105.35	95.06	10.29	10.241		
2,500.00	2,499.47	2,555.81	2,552.43	5.31	5.56	54.13	-0.38	-96.74	84.44	73.77	10.66	7.919		
2,600.00	2,599.25	2,653.27	2,648.40	5.50	5.81	61.49	-0.38	-79.81	64.03	52.96	11.07	5.782		
2,700.00	2,699.04	2,750.72	2,744.38	5.71	6.07	75.10	-0.38	-62.89	45.55	34.01	11.54	3.948		
2,800.00	2,798.82	2,848.18	2,840.35	5.91	6.34	102.25	-0.38	-45.97	32.49	20.35	12.14	2.676		
2,851.41	2,850.12	2,898.28	2,889.69	6.02	6.48	122.54	-0.38	-37.27	30.38	17.90	12.48	2.435 CC	. ES. SF	
2,900.00	2,898.61	2,945.63	2,936.33	6.12	6.62	141.81	-0.38	-29.04	32.27	19.56	12.72	2.538	, ,	
3,000.00	2,998.40	3,043.09	3,032.30	6.34	6.90	169.44	-0.38	-12.12	45.08	32.05	13.03	3.460		
3,100.00	3,098.18	3,140.54	3,128.27	6.55	7.20	-176.68	-0.38	4.80	63.47	50.11	13.36	4.751		
3,200.00 3,300.00	3,197.97 3,297.76	3,237.99	3,224.25	6.77	7.49	-169.20	-0.38	21.72	83.85	70.11	13.74	6.104		
3,400.00	3,397.54	3,335.45 3,432.90	3,320.22 3,416.20	6.99 7.21	7.79 8.10	-164.68 -161.68	-0.38 -0.38	38.65 55.57	105.06 126.69	90.92 112.13	14.14 14.56	7.430 8.702		
.,	0,007.04	0,402.00	J,- 10.20	7.21	3,10	- 101.00	-0.30	55.57	120.09	112.13	14.00	0.702		
,500.00	3,497.33	3,530.36	3,512.17	7.44	8.41	-159.56	-0.38	72.49	148.55	133.56	14.99	9.912		
3,600.00	3,597.12	3,627.81	3,608.14	7.66	8.72	-157.98	-0.38	89.42	170.56	155.14	15.42	11.060		
,700.00	3,696.90	3,725.27	3,704.12	7.89	9.04	-156.76	-0.38	106.34	192.66	176.80	15.86	12.147		
,800.00	3,796.69	3,822.72	3,800.09	8.12	9.35	-155.80	-0.38	123.26	214.83	198.52	16.30	13.176		
,900.00	3,896.48	3,920.18	3,896.07	8.35	9.68	-155.01	-0.38	140.18	237.04	220.29	16.75	14.150		
,00.000,	3,996.26	4,017.63	3,992.04	8.58	10.00	-154.36	-0.38	157,11	259.29	242.09	17.20	15.073		
,100.00	4,096.05	4,017.03	4,088.01	8.81	10.32	-153.81	-0.38	174.03	281.57	263.92	17.25	15.073		
,200.00	4,195.84	4,212.54	4,183.99	9.05	10.65	-153.34	-0.38	190.95	303.87	285.76	18.11	16.779		
,300.00	4,295.62	4,309.99	4,279.96	9.28	10.98	-152.94	-0.38	207.87	326.18	307.62	18.57	17.568		
,400.00	4,395.41	4,407.45	4,375.93	9.51	11.31	-152.59	-0.38	224.80	348.51	329.49	19.03	18.319		
		·						-		_	_			
,500.00	4,495.19	4,504.90	4,471.91	9.75	11.64	-152.28	-0.38	241.72	370.85	351.37	19.49	19.032		
,600.00	4,594.98	4,602.36	4,567.88	9.99	11.98	-152.00	-0.38	258.64	393.20	373.25	19.95	19.712		
,700.00	4,694.77	4,699.81	4,663.86	10.22	12.31	-151.76	-0.38	275.57	415.56	395.14	20.41	20.360		
,800.00	4,794.55	4,797.27	4,759.83	10.46	12.65	-151.54	-0.38	292.49	437.92	417.04	20.88	20.978		
,900.00	4,894.34	4,894.72	4,855.80	10.70	12.98	-151.34	-0.38	309.41	460.29	438.94	21.34	21.568		
00.000	4,994.13	4,992.17	4,951.78	10.94	13.32	-151.16	-0.38	326.33	482.66	460.85	21.81	22.132		

Anticollision Report

Company: Devon Energy

Project: Reference Site: Eddy County, NM (NAD-83) Belloq 11-2 Fed State Com

Site Error:

Well Error:

0.00 usft

Reference Well:

Reference Wellbore

Reference Design:

Belloq 11-2 Fed State Com 521H 0.00 usft

OH Plan #2 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at

Database:

Offset TVD Reference:

Well Bellog 11-2 Fed State Com 521H

3430' GE + 23.5' KB @ 3453.50usft 3430' GE + 23.5' KB @ 3453.50usft

Grid

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

	enem () i i													s 0.00
rvey Prog Refer		EAM MWD+HD Offs		Semi Major	Axis		. 4		Dista	псе			Offset Well Error:	° 0.00 usi
easured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbo	re Centre	Between	Between	Minimum	Separation	Warning	1
Depth (usft)	Depth		- Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W	Centres (usft)	Ellipses (usft)		Factor	or and the second	2.5
								(usft)						
5,100.00	5,093.91	5,089.63	5,047.75	11.18	13.66	-151.00	-0.38	343.26 360.18	505.04 527.42	482.76 504.67	22.28 22.75	22.672 23.188		
5,200.00	5,193.70	5,187.08	5,143.73	11.42	14.00	-150.85 -150.71	-0.38 -0.38	377.10	549.80	526.58	23.21	23.683		
5,300.00 5,400.00	5,293.49 5,393.27	5,284.54 5,381.99	5,239.70 5,335.67	11.66 11.90	14.34 14.68	-150.71	-0.38	394.03	572.19	548.50	23.69	24.157		
5,500.00	5,493.06	5,479.45	5,431.65	12.14	15.02	-150.46	-0.38	410.95	594.58	570.42	24.16	24.613	*	
5,600.00	5,592.85	5,576.90	5,527.62	12.38	15.36	-150.35	-0.38	427.87	616.97	592.34	24.63	25.050		
0,000.00	0,002.00	0,070.00	0,021.02	12.00	10.00	100.00					*			
5,700.00	5,692.63	5,674.36	5,623.60	12.63	15.70	-150.25	-0.38	444.79	639.36	614.26	25.10	25.470		
5,800.00	5,792.42	5,771.81	5,719.57	12.87	16.04	-150.16	-0.38	461.72	661.75	636.18	25.58	25.873		
5,900.00	5,892.21	5,869.26	5,815.54	13.11	16.39	-150.07	-0.38	478.64	684.15	658.10	26.05	26.262		
6,000.00	5,991.99	5,987.66	5,932.36	13.35	16.76	-150.00	-0.38	497.88	705.56	678.92	26.64	26.487		
6,100.00	6,091.78	6,117.56	6,061.29	13.60	17.06	-150.03	-0.38	513.59	722.90	695.69	27.21	26.566		
6,200.00	6,191.57	6,249.20	6,192.54	13.84	17.32	-150.17	-0.38	523.53	735.87	708.14	27.73	26.538		
6,300.00	6,291.35	6,382.06	6,325.34	14.08	17.54	-150.43	-0.38	527.44	744.39	716.20	28.19	26.405		
6,400.00	6,391.14	6,486.36	6,429.64	14.33	17.71	-150.69	-0.38	527.50	750.13	721.51	28.61	26.215		
6,500.00	6,490.92	6,586.15	6,529.42	14.57	17.88	-150.93	-0.38	527.50	755.83	726.79	29.05	26.023		
6,600.00	6,590.71	6,685.93	6,629.21	14.82	18.05	-151.17	-0.38	527.50	761.55	732.07	29.48	25.835		
		0 705 70	0.700.00	45.00	40.00	454.44	0.30	507.50	767 20	737.37	29.91	25.653		
6,700.00	6,690.50	6,785.72	6,729.00	15.06	18.22 18.39	-151.41 151.64	-0.38 -0.38	527.50 527.50	767.28 773.02	742.68	30.34	25.476		
6,800.00	6,790.28 6,890.07	6,885.51 6,985.29	6,828.78 6,928.57	15.31 15.55	18.56	-151.64 -151.87	-0.38	527.50	778.78	748.00	30.78	25.304		
6,900.00 7,000.00	6,989.86	7,085.08	7,028.36	15.80	18.74	-152.09	-0.38	527.50	784.55	753.34	31.21	25.137		
7,100.00	7,089.64	7,184.87	7,128.14	16.04	18.91	-152.31	-0.38	527.50	790.33	758.68	31.65	24.974		
7,100.00	7,000.04	7,701.07	7,120.17	10.01		102.0	0.00							
7,200.00	7,189.43	7,284.65	7,227.93	16.29	19.09	-152.53	-0.38	527.50	796.12	764.04	32.08	24.815		
7,300.00	7,289.22	7,384.44	7,327.72	16.53	19.27	-152.75	-0.38	527.50	801.92	769.41	32.52	24.661		
7,400.00	7,389.00	7,484.23	7,427.50	16.78	19.45	-152.96	-0.38	527.50	807.74	774.79	32.95	24.511		
7,500.00	7,488.79	7,584.01	7,527.29	17.03	19.63	-153.17	-0.38	527.50	813.56	780.17	33.39	24.365		
7,600.00	7,588.62	7,683.84	7,627.12	17.25	19.81	-153.37	-0.38	527.50	818.79	784.98	33.81	24.218		
7,700.00	7,688.53	7,783.75	7,727.03	17.44	19.99	-153.52	-0.38	527.50	822.47	788.26	34.20	24.046		
7,800.00	7,788.50	7,883.72	7,827.00	17.62	20.17	-153.60	-0.38	527.50	824.59	789.99	34.60	23.834		
7,900.00	7,888.50	7,983.72	7,927.00	17.81	20.36	72.39	-0.38	527.50	825.16	790.16	35.00	23.576		
8,000.00	7,988.50	8,083.72	8,027.00	18.00	20.54	72.39	-0.38	527.50	825.16	789.76	35.40	23.311		
8,100.00	8,088.50	8,183.72	8,127.00	18.19	20.72	72.39	-0.38	527.50	825.16	789.36	35.80	23.051		
		0.000.70	0.007.00	40.00	00.04	70.00	0.00	507.50	005.40	700.06	36.20	22.796		
8.200.00	8,188.50	8,283.72	8,227.00	18.38	20.91	72.39	-0.38	527.50 527.50	825.16 825.16	788.96 788.56	36.60	22.796		
8,300.00 8,400.00	8,288.50 8,388.50	8,383.72 8,483.72	8,327.00 8,427.00	18.57 18.76	21.10 21.28	72.39 72.39	-0.38 -0.38	527.50	825.16	788.16	37.00	22.300		
8,500.00	8,488.47	8,583.70	8,526.97	18.94	21.47	72.87	-0.38	527.50	824.82	787.42	37.40	22.052		
8,600.00	8,587.21	8,682.44	8,625.71	19.10	21.66	74.27	-0.38	527.50	820.51	782.76	37.76	21.732		
_,550.00	5,501.21	J,JOE T	-,				2.30		3=2.31					
8,700.00	8,681.84	8,777.07	8,720.34	19.21	21.84	77.14	-0.38	527.50	812.20	774.15	38.05	21.344		
8,800.00	8,769.49	8,864.71	8,807.99	19.30	22.01	81.08	-0.38	527.50	801.97	763.66	38.31	20.934		
8,900.00	8,847.49	8,942.72	8,885.99	19.35	22.15	85.47	-0.38	527.50	792.79	754.23	38.56	20.562		
9,000.00	8,913.48	9,008.71	8,951.98	19.39	22.28	89.52	-0.38	527.50	788.16	749.33	38.83	20.296		
9,013.85	8,921.55	9,016.78	8,960.05	19.40	22.30	90.00	-0.38	527.50	788.08	749.20	38.88	20.269		
9,100.00	8,965.45	9,060.67	9,003.95	19.43	22.38	92.39	-0.38	527.50	791.55	752.38	39.17	20.206		
9,200.00	9,001.82	9,097.04	9,003.95	19.43	22.36	93.42	-0.38	527.50	805.60	766.01	39.17	20.200		
9,300.00	9,021.48	9,116.70	9,059.98	20.05	22.49	92.13	-0.38	527.50	831.44	791.39	40.05	20.762		
9,400.00	9,025.05	9,120.28	9,063.55	20.57	22.49	90.04	-0.38	527.50	868.44	827.94	40.50	21.441		
9,500.00	9,025.21	9,120.43	9,063.71	21.20	22.49	90.05	-0.38	527.50	914.96	874.00	40.96	22.339		
9,600.00	9,025.36	9,120.58	9,063.86	21.93	22.49	90.06	-0.38	527.50	969.60	928.21	41.39	23.424		
9,700.00	9,025.51	9,120.73	9,064.01	22.75	22.49	90.07	-0.38	527.50	1,031.06	989.27	41.79	24.673		
9,800.00	9,025.66	9,120.88	9,064.16	23.66	22.50	90.08	-0.38	527.50	1,098.21	1,056.07	42.14	26.062		
9,900.00	9,025.81	9,121.03	9,064.31	24.63	22.50	90.10	-0.38	527.50	1,170.06	1,127.61	42.44	27.567		
10,000.00	9,025.96	9,121.19	9,064.46	25.68	22.50	90.11	-0.38	527.50	1,245.79	1,203.09	42.71	29.171		
10,100.00	9,026.11	9,121.34	9,064.61	26.78	22.50	90.12	-0.38	527.50	1,324.75	1,281.82	42.93	30.857	•	

Anticollision Report

Company: Devon Energy Local Co-ordinate Reference: Well Bellog 11-2 Fed State Com 521H. Project: Eddy County, NM (NAD-83) TVD Reference: 3430' GE + 23.5' KB @ 3453.50usft Bellog 11-2 Fed State Com .3430' GE + 23.5' KB @ 3453.50usft Reference Site: MD Reference: 0.00 usft Site Error: North Reference: Grid' Reference Well: Bellog 11-2 Fed State Com 521H **Survey Calculation Method:** Minimum Curvature 0.00 usft 2.00 sigma Well Error: Output errors are at Reference Wellbore ОН EDM 5000.1 Multi User Db Database: Plan #2 Offset Datum Reference Design: Offset TVD Reference:

ffset De	_				Belloq 1	1 Fed 222H	(Offset) - OH -	Plan #1						ite Error:	0.00 ι
urvey Prog		H+GWM MA		~~	. • •	* * *	Your more and the		3	in the second		A STATE OF	Offset W	ell Error:	0.00 (
Refer		Offs	v 12	Semi Major				√	Dista	3 77	2	211			
leasured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference		Highside Toolface	Offset Wellbore		Between	Between Ellipses	Minimum . Separation	Separation Factor	200	Warning	
(usft) *	(usft)	(usft)		(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)	ractor	1 V V		
<u> </u>			····							<u> </u>		* * * * * * * * * * * * * * * * * * * 	<u></u>		
10,200.00	9,026.27	9,121.49	9,064.77	27.94	22.50	90.13	-0.38	527.50	1,406.39	1,363.26	43.13	32.611			
10,300.00	9,026.42	9,121.64	9,064.92	29.14	22.50	90.14	-0.38	527.50	1,490.27	1,446.97	43.30	34.421			
10,400.00	9,026.57	9,121.79	9,065.07	30.38	22.50	90.15	-0.38	527.50	1,576.03	1,532.59	43.44	36.279			
10,500.00	9,026.72	9,121.94	9,065.22	31.66	22.50	90.16	-0.38	527.50	1,663.38	1,619.81	43.57	38.176			
10,600.00		9,122.09	9,065.37	32.97	22.50	90.17	-0.38	527.50	1,752.09	1,708.40	43.69	40.105			
10,700.00	9,027.02	9,122.25	9,065.52	34.31	22.50	90.18	-0.38	527.50	1,841.95	1,798.16	43.79	42.063			
10,800.00	9,027.17	12,013.75	10,049.73	35.67	42.23	122.08	1,756.66	1,298.24	1,853.02	1,790.78	62.24	29.774			
10,900.00	9,027.33	12,113.75	10,050.21	37.06	43.21	122.08	1,856.65	1,298.12	1,853.62	1,789.07	64.56	28.713			
11,000.00	9,027.48	12,213.75	10,050.68	38.46	44.24	122.08	1,956.65	1,298.00	1,854.23	1,787.31	66.92	27.708			
11,100.00	9,027.63	12,313.75	10,051,15	39.89	45.30	122.08	2,056.65	1,297.87	1,854.84	1,785.52	69.32	26.756			
11,200.00	9,027.78	12,413.75	10,051.62	41.33	46.41	122.08	2,156.64	1,297.75	1,855.45	1,783.69	71.76	25.856			
11,300.00	9,027.93	12,513.74	10,052.09	42.78	47.55	122.08	2,256.64	1,297.63	1,856.06	1,781.83	74.23	25.003			
11,400.00	9,028.08	12,613.74	10,052.56	44.25	48.73	122.08	2,356.64	1,297.51	1,856.67	1,779.94	76.73	24.197			
11,500.00	9,028.23	12,713.74	10,053.03	45.72	49.93	122.08	2,456.64	1,297.38	1,857.28	1,778.02	79.26	23.433			
11,600.00	9,028.39	12,813.74	10,053.50	47.21	51.16	122.08	2,556.63	1,297.26	1,857.89	1,776.08	81.81	22.710			
11,700.00	9,028.54	12,913.74	10,053.98	48.71	52.42	122.08	2,656.63	1,297.14	1,858.50	1,774.12	84.38	22.026			
11,800.00	9,028.69	13,013.73	10,054.45	50.22	53.70	122.08	2,756.63	1,297.02	1,859.11	1,772.14	86.97	21.377			
11,900.00	9,028.84	13,113.73	10,054.92	51.73	55.01	122.08	2,856.62	1,296.90	1,859.72	1,770.14	89.58	20.761			
2,000.00	9,028.99	13,213.73	10,055.39	53.26	56.33	122.08	2,956.62	1,296.77	1,860.33	1,768.12	92.20	20.176			
12,100.00	9,029.14	13,313.73	10,055.86	54.79	57.67	122.08	3,056.62	1,296.65	1,860.94	1,766.09	94.84	19.621			
12,200.00	9,029.30	13,413.73	10,056.33	56.32	59.03	122.08	3,156.61	1,296.53	1,861.55	1,764.05	97.50	19.093			
12,300.00	0.000.45	40.540.70	40.050.00	57.00	00.10					. 70. 00					
	9,029.45	13,513.73	10,056.80	57.86	60.40	122.08	3,256.61	1,296.41	1,862.16	1,761.99	100.17	18.591			
12,400.00	9,029.60	13,613.72	10,057.27	59.41	61.79	122.08	3,356.61	1,296.28	1,862.76	1,759.92	102.84	18.112			
12,500.00 12,600.00	9,029.75 9,029.90	13,713.72	10,057.74	60.96	63.19	122.08	3,456.61	1,296.16	1,863.37	1,757.84	105.53	17.657			
		13,813.72	10,058.22	62.52	64.61	122.08	3,556.60	1,296.04	1,863.98	1,755.75	108.23	17.222			
12,700.00	9,030.05	13,913.72	10,058.69	64.08	66.03	122.08	3,656.60	1,295.92	1,864.59	1,753.65	110.94	16.807			
12,800.00	9,030.20	14,013.72	10,059.16	65.64	67.47	122.08	3,756.60	1,295.79	1,865.20	1,751.54	113.66	16.410			
12,900.00	9,030.36	14,113.71	10,059.63	67.21	68.91	122.08	3,856.59	1,295.67	1,865.81	1,749.42	116.39	16.031			
3,000.00	9,030.51	14,213.71	10,060.10	68.78	70.37	122.08	3,956.59	1,295.55	1,866.42	1,747.30	119.12	15.668			
13,100.00	9,030.66	14,313.71	10,060.57	70.35	71.83	122.08	4,056.59	1,295.43	1,867.03	1,745.17	121.86	15.321			
13,200.00	9,030.81	14,413.71	10,061.04	71.93	73.31	122.07	4,156.58	1,295.31	1,867.64	1,743.03	124.61	14.988			
13,300.00	9,030.96	14,513.71	10,061.51	73.51	74.79	122.07	4,256.58	1,295.18	1,868.25	1,740.89	127.36	14.669			
13,400.00	9,031.11	14,613.70	10,061.99	75.09	76.27	122.07	4,356.58	1,295.06	1,868.86	1,738.74	130.12	14.363			
13,500.00	9,031.26	14,713.70	10,062.46	76.68	77.77	122.07	4,456.57	1,294.94	1,869.47	1,736.59	132.88	14.069			
13,600.00	9,031.42	14,813.70	10,062.93	78.27	79.27	122.07	4,556.57	1,294.82	1,870.08	1,734.43	135.65	13.786			
3,700.00	9,031.57	14,913.70	10,063.40	79.85	80.77	122.07	4.656.57	1,294.69	1,870.69	1,732.26	138.42	13.514			
13,800.00	9,031.72	15,013.70	10,063.87	81.45	82.28	122.07	4,756.57	1,294.57	1,871.30	1,730.09	141.20	13.253			
3,900.00	9,031.87	15,113.70	10,064.34	83.04	83.80	122.07	4,856.56	1,294.45	1,871.90	1,727.92	143.98	13.001			
14,000.00	9,032.02	15,213.69	10,064.81	84.63	85.32	122.07	4,956.56	1,294.33	1,872.51	1,725.74	146.77	12.758			
14,100.00	9,032.17	15,219.52	10,064.84	86.23	85.41	122.07	4,962.39	1,294.32	1,875.49	1,726.70	148.79	12.605			
4,200.00	9,032.32	15,219.52	10,064.84	87.83	85.41	122.07	4,962.39	1,294.32	1,883.77	1,733.37	150.39	12.526			
14 200 00	0.020.40	45 240 52	10.004.04	80.40	05.44	400.07	4.000.00	4.004.00	4 007 00	4 745 00	454.00	40.54 :			
4,300.00	9,032.48	15,219.52	10,064.84	89.43	85.41	122.07	4,962.39	1,294.32	1,897.28	1,745.68	151.61	12.514			
4,400.00	9,032.63	15,219.52	10,064.84	91.03	85.41	122.07	4,962.39	1,294.32	1,915.93	1,763.49	152.45	12.568			
4,500.00	9,032.78	15,219.52	10,064.84	92.63	85.41	122.07	4,962.39	1,294.32	1,939.57	1,786.64	152.92	12.683			
4,600.00	9,032.93	15,219.52	10,064.84	94.23	85.41	122.07	4,962.39	1,294.32	1,968.00	1,814.95	153.05	12.858			

Anticollision Report

Company: Devon Energy Local Co-ordinate Reference: Well Bellog 11-2 Fed State Com 521H Project: Eddy County, NM (NAD-83) 3430' GE + 23.5' KB @ 3453.50usft TVD Reference: Reference Site: Belloq 11-2 Fed State Com 3430' GE + 23.5' KB @ 3453.50usft MD Reference: Site Error: 0.00 usft Grid North Reference: Reference Well: Belloq 11-2 Fed State Com 521H Survey Calculation Method: Minimum Curvature Well Error: 0.00 usft Output errors are at 2.00 sigmà Reference Wellbore ОН EDM 5000.1 Multi User Db

Database:

Offset TVD Reference:

Offset Datum

urvey Prog	•	AM MWD+HD			200		and the second	· ·		4			Offset Well Error:	0.00 usft
Refe		Offs	- C	Semi Major				31	Dist					
Depth	Vertical Depth	Measured Depth	Vertical Depth		* * .	Highside Toolface	Offset Wellbor +N/-S	+E/-W	Between Centres	Between Ellipses	Separation		Warning	
(usft)	(usft)		(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
0.00	0.00	37.50	37.50	0.00	0.03	-90.13	-0.41	-179.90	179.90					
100.00	100.00	137.50	137.50	0.09	0.16	-90.13	-0.41	-179.90	179.90	179.65	0.25	724.334		
200.00	200.00	237.50	237.50	0.31	0.39	-90.13	-0.41	-179.90	179.90	179.20	0.70	257.774		
300.00 400.00	300.00 400.00	337.50 437.50	337.50 437.50	0.54 0.76	0.61 0.84	-90.13 -90.13	-0.41 -0.41	-179.90 -179.90	179.90 179.90	178.75 178.30	1.15 1.60	156.785 112.652		
500.00	500.00	537.50	537.50	0.70	1.06	-90.13 -90.13	-0.41	-179.90	179.90	177.85	2.05	87.907		
600.00	600.00	637.50	637.50	1.21	1.29	-90.13	-0.41	-179.90	179.90	177.40	2.50	72.075		
700.00	700.00	737.50	737.50	1.43	1.51	-90.13	-0.41	-179.90	179.90	176.95	2.95	61.075		
800.00	800.00	837.50	837.50	1.66	1.74	-90.13	-0.41	-179.90	179.90	176.51	3.40	52.988		
900.00	900.00	937.50	937.50	1.88	1.96	-90.13	-0.41	-179.90	179.90	176.06	3.84	46.793		
1,000.00	1,000.00	1,037.50	1,037.50	2.11	2.19	-90.13	-0.41	-179.90	179.90	175.61	4.29	41.894		
1,100.00	1,100.00	1,137.50	1,137.50	2.33	2.41	-90.13	-0.41	-179.90	179.90	175.16	4.74	37.924		
1,200.00	1,200.00	1,237.50	1,237.50	2.56	2.63	-90.13	-0.41	-179.90	179.90	174.71	5.19	34.641		
1,300.00	1,300.00	1,337.50	1,337.50	2.78	2.86	-90.13	-0.41	-179.90	179.90	174.26	5.64	31.882		
1,400.00	1,400.00	1,437.50	1,437.50	3.01	3.08	-90.13	-0.41	-179.90	179.90	173.81	6.09	29.529		
1,500.00	1,500.00	1,537.50	1,537.50	3.23	3.31	-90.13	-0.41	-179.90	179.90	173.36	6.54	27.500		
1 600 00	1 600 00	1 627 50	1 627 60	2.40	2 5 2	00.43	0.44	170.00	170.00	170.04	0.00	25 720		
1,600.00	1,600.00 1,700.00	1,637.50 1,737.50	1,637.50 1,737.50	3.46 3.68	3.53 3.76	-90.13 -90.13	-0.41 -0.41	-179.90 -179.90	179.90 179.90	172.91 172.46	6.99 7.44	25.732 24.177		
1,800.00	1,800.00	1,837.50	1,837.50	3.00	3.76	-90.13 -90.13	-0.41 -0.41	-179.90	179.90	172.46	7.44	22.800		
1,900.00	1,900.00	1,937.50	1,937.50	4.13	4.21	-90.13	-0.41	-179.90	179.90	171.56	8.34	21.571		
2.000.00	2,000.00	2,037.50	2,037.50	4.36	4.43	-90.13	-0.41	-179.90	179.90	171.11	8.79	20.468		
_,	_,000.00	2,001.00	2,001.00	1.00		00.10	2.11	175.00	***************************************		0.70			
2,100.00	2,099.99	2,137.49	2,137.49	4.56	4.66	44.05	-0.41	-179.90	179.27	170.06	9.21	19.456		
2,200.00	2,199.96	2,237.46	2,237.46	4.74	4.88	44.65	-0.41	-179.90	177.40	167.78	9.62	18.446		
2,300.00	2,299.86	2,337.36	2,337.36	4.92	5.11	45.68	-0.41	-179.90	174.32	164.30	10.02	17.389		
2,400.00	2,399.68	2,437.18	2,437.18	5.11	5.33	47.16	-0.41	-179.90	170.15	159.71	10.44	16.304		
2,500.00	2,499.47	2,536.97	2,536.97	5.31	5.56	48.82	-0.41	-179.90	165.77	154.92	10.85	15.276		
2,600.00	2,599.25	2,636.75	2,636.75	5.50	5.78	50.56	-0.41	-179.90	161.54	150.27	11.27	14.331		
2,700.00	2,699.04	2,736.54	2,736.54	5.71	6.00	52.39	-0.41	-179.90	157.47	145.77	11.70	13.463		
2,800.00	2,798.82	2,836.32	2,836.32	5.91	6.23	54.32	-0,41	-179.90	153.56	141.44	12.12	12.666		
2,900.00	2,898.61	2,936.11	2,936.11	6.12	6.45	56.34	-0.41	-179.90	149.84	137.29	12.56	11.934		
3,000.00	2,998.40	3,034.45	3,034.44	6.34	6.67	58.39	-0.48	-180.09	146.50	133.51	12.98	11.285		
2.005.27	2 002 50	2 110 20	2 116 20	0.50	600	E0 74	4.00	100.40	145.40	420.44	40.00	10.017		
3,085.37 3,100.00	3,083.59 3,098.18	3,116.32 3,130.37	3,116.29 3,130.32	6.52 6.55	6.83 6.86	59.71 59.88	-1.22 -1.42	-182.12 -182.69	145.46 145.49	132.14 132.11	13.32 13.38	10.917 10.873		
3,200.00	3,197.97	3,130.37	3,130.32	6.77	7.05	60.66	-1.42 -3.45	-188.26	145.49	133.40	13.36	10.673		
3,300.00	3,297.76	3,327.43	3,326.96	6.99	7.24	61.25	-5.84	-194.81	149.57	135.40	14.18	10.549		
3,400.00	3,397.54	3,427.39	3,426.68	7.21	7.44	61.81	-8.22	-201.36	151.99	137.40	14.59	10.415		
3,500.00	3,497.33	3,527.35	3,526.39	7.44	7.64	62.36	-10.61	-207.92	154.43	139.41	15.01	10.287		
3,600.00	3,597.12	3,627.31	3,626.11	7.66	7.85	62.89	-12.99	-214.47	156.87	141.44	15.44	10.163		
3,700.00	3,696.90	3,727.27	3,725.82	7.89	8.05	63.41	-15.38	-221.02	159.33	143.47	15.86	10.044		
3,800.00	3,796.69	3,827.23	3,825.54	8.12	8.26	63.91	-17.76	-227.57	161.81	145.51	16.29	9.930		
3,900.00	3,896.48	3,927.19	3,925.26	8.35	8.48	64.39	-20.14	-234.12	164.29	147.56	16.73	9.820		
4,000.00	3,996.26	4,027.15	4,024.97	8.58	8.69	64.86	-22.53	-240.68	166.79	149.62	17.17	9.715		
4,100.00	4,096.05	4,127.11	4,124.69	8.81	8.91	65.32	-24.91	-247.23	169.29	151.68	17.61	9.614		
4,200.00	4,195.84	4,227.07	4,224.41	9.05	9.12	65.76	-27.30	-253.78	171.81	153.76	18.05	9.517		
4,300.00	4,295.62	4,327.03	4,324.12	9.28	9.35	66.19	-29.68	-260.33	174.34	155.84	18.50	9.424		
4,400.00	4,395.41	4,426.99	4,423.84	9.51	9.57	66.60	-32.07	-266.89	176.87	157.92	18.95	9.334		
4,500.00	4,495.19	4,526.95	4,523.55	9.75	9.79	67.01	-34.45	-273.44	179.42	160.02	19.40	9.248		
4,600.00	4,594.98	4,626.91	4,623.27	9.99	10.01	67.40	-36.84	-279.99	181.97	162.12	19.85	9.165		
4,700.00	4,694.77	4,726.87	4,722.99	10.22	10.24	67.79	-39.22	-286.54	184.53	164.22	20.31	9.085		
4,800.00	4,794.55	4,826.83	4,822.70	10.46	10.47	68.16	-41.61	-293.10	187.10	166.34	20.77	9.009		
4,900.00	4,894.34	4,926.79	4,922.42	10.70	10.70	68.52	-43.99	-299.65	189.68	168.45	21.23	8.935		
5,000.00	4,994.13	5,026.75	5,022.14	10.94	10.93	68.87	-46.38	-306.20	192.27	170.58	21.69	8.864		

Reference Design:

Plan #2

Anticollision Report

Devon Energy Company: Local Co-ordinate Reference: Well Bellog 11-2 Fed State Com 521H Project: Eddy County, NM (NAD-83) TVD Reference: 3430' GE + 23.5' KB @ 3453.50usft 3430' GE + 23.5' KB @ 3453.50usft Reference Site: Bellog 11-2 Fed State Com MD Reference: Site Error: 0.00 usft North Reference: Bellog 11-2 Fed State Com 521H Minimum Curvature Reference Well: Survey Calculation Method: Well Error: 0.00 usft Output errors are at 2.00 sigma ΟĤ Database: EDM 5000.1 Multi User Db Reference Wellbore Plan #2 Offset TVD Reference: Offset Datum Reference Design:

Offset De				State Com -	Belloq 1	11-2 Fed Stat	e Com 231H (Offset) - OI	H - Plan #1				Offset Site Error:	0.00 usft
Survey Prog		AM MWD+HD	- 1	4						-			Offset Well Error:	0.00 usft
Refer		Offse		Semi Major			A STATE OF THE STATE OF	and the second of	Dista		2 %	8. *	* * * * * * * * * * * * * * * * * * * *	
Measured Depth	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)	(°)	+N/-S (usft)	(ûsft)	(usft)		(usft)		en et weg.	
5,100.00	5,093.91	5,126.71	5,121.85	11.18	11.16	69.22	-48.76	-312.75	194.86	172.71	22.15	8.796		<u> </u>
5,200.00		5,227.97	5,222.87	11.42	11.39	69.58	-51.13	-319.27	197.38		22.62	8.725		
5,300.00	5,293.49	5,332.94	5,327.75	11.66	11.61	70.53	-52.64	-323.42	198.07	174.97	23.09	8.577		
5,400.00	5,393.27	5,435.97	5,430.77	11.90	11.81	72.21	-52.92	-324.18	196.50	172.95	23.55	8.345		
5,500.00		5,535.76	5,530.56	12.14	12.01	74.04	-52.92	-324.18	194.60	170.59	24.01	8.105		
5,600.00	5,592.85	5,635.55	5,630.35	12.38	12.22	75.90	-52.92	-324.18	192.90	168.42	24.48	7.880		
5,700.00	5,692.63	5,735.33	5,730.13	12.63	12.44	77.79	-52.92	-324.18	191.41	166.46	24.95	7.672		
5,800.00		5,835.12	5,829.92	12.87	12.65	79.71	-52.92	-324.18	190.14	164.72	25.42	7.480		
5,900.00		5,934.90	5,929.71	13.11	12.86	81.66	-52.92	-324.18	189.08	163.19	25.89	7.303		
6,000.00		6,034.69	6,029.49	13.35	13.08	83.62	-52.92	-324.18	188.24	161.88	26.36	7.141		
6,100.00	6,091.78	6,134.48	6,129.28	13.60	13.29	85.60	-52.92	-324.18	187.62	160.79	26.83	6.993		
6,200.00		6,234.26	6,229.07	13.84	13.51	87.59	-52.92	-324.18	187.23		27.30	6.859		
6,300.00		6,334.05 6,355.01	6,328.85	14.08	13.72	89.58	-52.92 52.92	-324.18	187.07	159.31	27.76	6.738		
6,321.00 6,400.00		6,355.01 6,433.84	6,349.81 6,428.64	14.14 14.33	13.77 13.94	90.00 91.58	-52.92 -52.92	-324.18 -324.18	187.07 187.14	159.20	27.86	6.714 6.630		
6,500.00		6,533.62	6,528.42	14.57	14.15	91.56	-52.92 -52.92	-324.18 -324.18	187.14	158.91 158.74	28.23 28.69	6.533		
-,-55.50	-,	-,	5,525.72			30.01	02.02	JE4. 10	101,43	755.74	20.09	0.555		
6,600.00		6,633.41	6,628.21	14.82	14.37	95.55	-52.92	-324.18	187.95	158.80	29.15	6.447		
6,700.00		6,733.20	6,728.00	15.06	14.59	97.52	-52.92	-324.18	188.70	159.09	29.61	6.372		
6,800.00		6,832.98	6,827.78	15.31	14.80	99.47	-52.92	-324.18	189.66	159.60	30.07	6.308		
6,900.00		6,932.77	6,927.57	15.55	15.02	101.41	-52.92	-324.18	190.85	160.33	30.52	6.253		
7,000.00	6,989.86	7,032.56	7,027.36	15.80	15.24	103.31	-52.92	-324.18	192.25	161.27	30.98	6.206		
7,100.00	7,089.64	7,132.34	7,127.14	16.04	15.45	105.18	-52.92	-324.18	193.86	162.43	31.43	6.169		
7,200.00		7,232.13	7,226.93	16.29	15.67	107.03	-52.92	-324.18	195.68	163.80	31.88	6.139		
7,300.00		7,331.92	7,326.72	16.53	15.89	108.83	-52.92	-324.18	197.69	165.37	32.32	6.116		
7,400.00	7,389.00	7,431.70	7,426.50	16.78	16.11	110.60	-52.92	-324.18	199.90	167.13	32.77	6.100		
7,500.00	7,488.79	7,531.49	7,526.29	17.03	16.33	112.33	-52.92	-324.18	202.30	169.08	33.21	6.091		
7,600.00	7,588.62	7,631.32	7,626.12	17.25	16.54	113.86	-52.92	224.10	204.50	170.06	22.62	6.002		
7,700.00		7,731.23	7,726.03	17.44	16.76	114.92	-52.92	-324.18 -324.18	204.59 206.29	170.96 172.26	33.63 34.03	6.083 6.062		
7,800.00		7,831.20	7,826.00	17.62	16.98	115.52	-52.92	-324.18	207.30	172.87	34.43	6.021		
7,900.00		7,931.20	7,926.00	17.81	17.20	-18.30	-52.92	-324.18	207.58	172.74	34.84	5.958		
8,000.00		8,031.20	8,026.00	18.00	17.42	-18.30	-52.92	-324.18	207.58	172.33	35.25	5.889		
0.400.00										_				
8,100.00	8,088.50	8,131.20	8,126.00	18.19	17.64	-18.30	-52.92	-324.18	207.58	171.92	35.66	5.822		
8,200.00 8,300.00	8,188.50 8,288.50	8,231.20 8,331.20	8,226.00 8,326.00	18.38 18.57	17.86 18.08	-18.30 -18.30	-52.92 -52.92	-324.18 -324.18	207.58	171.51	36.07	5.755		
8,400.00	8,388.50	8,331.20	8,326.00	18.76	18.30	-18.30 -18.30	-52.92 -52.92	-324.18 -324.18	207.58 207.58	171.10 170.69	36.48 36.89	5.691 5.627		
8,500.00	8,488.47	8,531.17	8,525.97	18.94	18.52	-18.07	-52.92 -52.92	-324.18	207.58	169.17	37.30	5.535		
		-,	-,				52.52	224,10	200.70	.00.17	57.50	5.005		
8,600.00	8,587.21	8,629.91	8,624.71	19.10	18.73	-19.94	-52.92	-324.18	192.26	154.55	37.71	5.099		
8,700.00	8,681.84	8,724.54	8,719.34	19.21	18.94	-25.04	-52.92	-324.18	162.49	124.40	38.09	4.266		
8,800.00	8,769.49	8,812.19	8,806.99	19.30	19.14	-37.10	-52.92	-324.18	119.96	81.55	38.41	3.123		
8,900.00	8,847.49	8,890.19	8,884.99	19.35	19.31	-66.10	-52.92	-324.18	74.95	36.46	38.49	1.947		
8,954.11	8,884.83	8,927.53	8,922.33	19.37	19.39	-90.00	-52.92	-324.18	63.92	25.64	38.28	1.670 C	C, ES, SF	
9,000.00	8,913.48	8,956.18	8,950.98	19.39	19,45	-108.38	-52.92	-324.18	73.27	34.99	38.29	1.914		
9,100.00	8,965.45	9,008.15	9,002.95	19.43	19.57	-130.07	-52.92	-324.18	136.95	98.19	38.76	3.533		
9,200.00	9,001.82	9,044.52	9,039.32	19.63	19.65	-133.33	-52.92	-324.18	223.47	184.44	39.03	5.726		
9,300.00		9,064.18	9,058.98	20.05	19.69	-118.38	-52.92	-324.18	318.53	279.37	39.16	8.134		
9,400.00	9,025.05	9,067.75	9,062.55	20.57	19.70	-90.56	-52.92	-324.18	416.85	377.64	39.21	10.631		
9,500.00	9,025.21	9,067.90	9,062.71	21.20	19.70	-90.70	-52.92	-324.18	515.90	476.65	39.24	13.147		
9,600.00	9,025.36	9,068.06	9,062.86	21.93	19.70	-90.83	-52.92	-324.18	615.25	575.98	39.27	15.669		
9,700.00	9,025.51	9,068.21	9,063.01	22.75	19.70	-90.97	-52.92	-324.18	714.79	675.50	39.29	18.193		
9,800.00	9,025.66	9,068.36	9,063.16	23.66	19.70	-91.10	-52.92 53.93	-324.18	814.43	775.12	39.31	20.719		
9,900.00	9,025.81	9,068.51	9,063.31	24.63	19.70	-91.24	-52.92	-324.18	914.16	874.83	39.33	23.243		
10,000.00	9,025.96	9,068.66	9,063.46	25.68	19.70	-91.37	-52.92	-324.18	1,013.94	974.59	39.35	25.766		

Anticollision Report

Company: Devon Energy
Project: Eddy County, NM (NAD-8

Eddy County, NM (NAD-83) Bellog 11-2 Fed State Com

Site Error: 0.00 usft

Reference Well: Bel
Well Error: 0.0

Reference Site:

Belloq 11-2 Fed State Com 521H

Well Error: 0.00 usft
Reference Wellbore OH
Reference Design: Plan #2

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well Belloq 11-2 Fed State Com 521H

3430' GE + 23.5' KB @ 3453.50usft 3430' GE + 23.5' KB @ 3453.50usft

Grid

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

urvey Prog Refer		EAM MWD+HD Offs	, ,	Semi Major	Avie	* 4	4.		Dista	nce	ه د وه و.		Offset	Well Error:	0:00 u	isft
Refer leasured	ence Vertical	Measured	et Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	F	Warning		
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		Warning		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°) *	(usft)	(usft)	(usft)	(usft)	(usft)			14, 33	·· •	
10,100.00	9,026.11	9,068.81	9,063.61	26.78	19.70	-91.51	-52.92	-324.18	1,113.76	1,074.38	39.37	28.286				
10,200.00	9,026.27	9,068.96	9,063.77	27.94	19.70	-91.65	-52.92	-324.18	1,213.61	1,174.21	39.40	30.804				
10,300.00 10,400.00	9,026.42	11,441.46	10,366.66	29.14	30.27 31.39	-177.56 -177.59	1,261.43	-324.18 -324.18	1,303.93 1,303.60	1,273.80 1,272.50	30.13 31.09	43.272 41.926				
10,500.00	9,026.57 9,026.72	11,541.46 11,641.46	10,366.51 10,366.35	30.38 31.66	32.56	-177.62	1,361.43 1,461.43	-324.18	1,303.80	1,272.50	32.09	40.612				
10,600.00	9,026.72	11,741.46	10,366.19	32.97	33.76	-177.64	1,561.42	-324.18	1,303.20	1,269.80	33.12	39.336				
10,700.00	9,027.02	11,841.45	10,366.04	34.31	35.00	-177.67	1,661.42	-324.18	1,302.59	1,268.40	34.19	38.103				
10,800.00	9,027.17	11,941.45	10,365.88	35.67	36.27	-177.70	1,761.42	-324.18	1,302.26	1,266.98	35.28	36.913				
10,900.00	9,027.33	12,041.45	10,365.72	37.06	37.57	-177.73	1,861.41	-324.18	1,301.92	1,265.53	36.40	35.770				
11,000.00	9,027.48	12,141.45	10,365.56	38.46	38.90	-177.75	1,961.41	-324.18	1,301.59	1,264.05	37.54	34.672				
11,100.00	9,027.63	12,241.44	10,365.41	39.89	40.25	-177.78	2,061.41	-324.18	1,301.26	1,262.55	38.70	33.621				
11,200.00	9,027.78	12,341.44	10,365.25	41.33	41.61	-177.81	2,161.41	-324.18	1,300.92	1,261.03	39.89	32.615				
11,300.00	9,027.93	12,441.44	10,365.09	42.78	43.00	-177.84	2,261.40	-324.18	1,300.59	1,259.50	41.09	31.652				
11,400.00	9,028.08	12,541.44	10,364.94	44.25	44.41	-177.86	2,361.40	-324.18	1,300.26	1,257.95	42.31	30.733				
11,500.00	9,028.23	12,641.43	10,364.78	45.72	45.83	-177.89	2,461.40	-324.18	1,299.93	1,256.38	43.54	29.854				
11,600.00	9,028.39	12,741.43	10,364.62	47.21	47.26	-177.92	2,561.40	-324.18	1,299.59	1,254.80	44.79	29.015				
11,700.00	9,028.54	12,841.43	10,364.46	48.71	48.71	-177.95	2,661.39	-324.18	1,299.26	1,253.21	46.05	28.214				
11,800.00	9,028.69	12,941.43	10,364.40	50.22	50.17	-177.98	2,761.39	-324.18	1,298.93	1,253.21	47.32	27.448				
11,900.00	9,028.84	13,041.42	10,364.15	51.73	51.64	-178.00	2,861.39	-324.18	1,298.60	1,249.99	48.61	26.717				
12,000.00	9,028.99	13,141.42	10,363.99	53.26	53.12	-178.03	2,961.39	-324.18	1,298.27	1,248.37	49.90	26.018				
12,100.00	9,029.14	13,241.42		54.79	54.61	-178.06	3,061.38	-324.18	1,297.94	1,246.74	51.20	25.349				
12,200.00	9,029.30	13,341.42	10,363.68	56.32	56.10	-178.09	3,161.38	-324.18	1,297.61	1,245.10	52.51	24.710				
12,300.00	9,029.45	13,441.41	10,363.52	57.86	57.61	-178.11	3,261.38	-324.18	1,297.28	1,243.45	53.83	24.098				
12,400.00	9,029.60	13,541.41	10,363.37	59.41	59.12	-178.14	3,361.37	-324.18	1,296.95	1,241.79	55.16	23.513				
12,500.00	9,029.75	13,641.41	10,363.21	60.96	60.64	-178.17	3,461.37	-324.18	1,296.62	1,240.13	56.49	22.952				
12,600.00	9,029.90	13,741.40	10,363.05	62.52	62.16	-178.20	3,561.37	-324.18	1,296.29	1,238.46	57.83	22.415				
12,700.00	9,030.05	13,841.40	10,362.89	64.08	63.69	-178.23	3,661.37	-324.18	1,295.96	1,236.79	59.18	21.899				
12,800.00	9,030.20	13,941.40	10,362.74	65.64	65.23	-178.25	3,761.36	-324.18	1,295.64	1,235.11	60.53	21.405				
12,900.00	9,030.36	14,041.40	10,362.58	67.21	66.77	-178.28	3,861.36	-324.18	1,295.31	1,233.42	61.89	20.930				
13,000.00	9,030.51	14,141.39	10,362.42	68.78	68.31	-178.31	3,961.36	-324.18	1,294.98	1,231.73	63.25	20.475				
13,100.00	9,030.66	14,241.39	10,362.27	70.35	69.86	-178.34	4,061.36	-324.18	1,294.65	1,230.04	64.61	20.037				
13,200.00	9,030.81	14,341.39	10,362.11	71.93	71.41	-178.37	4,161.35	-324.18	1,294.33	1,228.34	65.98	19.616				
13,300.00	9,030.96	14,441.39	10,361.95	73.51	72.97	-178.39	4,261.35	-324.18	1,294.00	1,226.64	67.36	19,211				
13,400.00	9,031.11	14,541.38	10,361.79	75.09	74.53	-178.42	4,361.35	-324.18	1,293.67	1,224.94	68.74	18.821				
13,500.00	9,031.26	14,641.38	10,361.64	76.68	76.09	-178.45	4,461.35	-324.18	1,293.35	1,223.23	70.12	18.446				
13,600.00	9,031.42	14,741.38	10,361.48	78.27	77.66	-178.48	4,561.34	-324.18	1,293.02	1,221.52	71.50	18.084				
13,700.00	9,031.57	14,841.38	10,361.32	79.85	79.23	-178.51	4,661.34	-324.18	1,292.70	1,219.81	72.89	17.735				
13,800.00	9,031.72	14,941.37	10,361.17	81.45	80.80	-178.53	4,761.34	-324.18	1,292.37	1,218.09	74.28	17.399				
13,900.00	9,031.87	15,041.37		83.04	82.37	-178.56	4,861.34	-324.18	1,292.05	1,216.37	75.67	17.074				
14,000.00	9,032.02	15,141.37	10,360.85	84.63	83.95	-178.59	4,961.33	-324.18 324.18	1,291.72	1,214.65	77.07	16.760				
14,100.00	9,032.17	15,241.37	10,360.69	86.23	85.53	-178.62	5,061.33	-324.18	1,291.40	1,212.93	78.47	16.457				
4,200.00	9,032.32	15,341.36	10,360.54	87.83	87.11	-178.65	5,161.33	-324.19	1,291.08	1,211.21	79.87	16.165				
14,300.00	9,032.48	15,441.36	10,360.38	89.43	88.69	-178.67	5,261.32	-324.19	1,290.75	1,209.48	81.27	15.882				
14,400.00	9,032.63	15,541.36	10,360.22	91.03	90.28	-178.70	5,361.32	-324.19	1,290.43	1,207.75	82.68	15.608				
4,500.00	9,032.78	15,641.36	10,360.07	92.63	91.87	-178.73	5,461.32	-324.19	1,290.11	1,206.02	84.09	15.343				
14,600.00	9,032.93	15,741.35	10,359.91	94.23	93.46	-178.76	5,561.32	-324.19	1,289.78	1,204.29	85.50	15.086				
4 700 00	0.000.00	45.011.05	10.050.55		07.55					40		4				
4,700.00	9,033.08	15,841.35	10,359.75	95.84	95.05	-178.79	5,661.31	-324.19	1,289.46	1,202.55	86.91	14.837				
4,800.00	9,033.23	15,941.35	10,359.60	97.45	96.64	-178.82	5,761.31	-324.19	1,289.14	1,200.82	88.32	14.596				
14,900.00	9,033.38	16,041.35	10,359.44	99.05	98.23	-178.84 178.87	5,861.31	-324.19 324.19	1,288.82	1,199.08	89.73	14.363				
15,000.00 15,100.00	9,033.54 9,033.69	16,141.34 16,241.34	10,359.28 10,359.12	100.66 102.27	99.83 101.42	-178.87 -178.90	5,961.31 6,061.30	-324.19 -324.19	1,288.50	1,197.35	91.15 92.57	14.136 13.916				
10,100.00	2,033.08	10,241.34	10,008.12	102.27	101.42	-170.90	0,001.30	-324.19	1,288.18	1,195.61	92.57	13.916				
5,200.00	9,033.84	16,341.34	10.358 97	103.88	103.02	-178.93	6,161.30	-324.19	1,287.85	1,193.87	93.99	13.702				

Anticollision Report

Company: Devon Energy Local Co-ordinate Reference: Well Bellog 11-2 Fed State Com 521H Eddy County, NM (NAD-83) 3430' GE + 23.5' KB @ 3453.50usft Project: TVD Reference: Belloq 11-2 Fed State Com 3430' GE + 23.5' KB @ 3453.50usft Reference Site: MD Reference: Site Error: 0.00 usft North Reference: Grid . Belloq 11-2 Fed State Com 521H Reference Well: Survey Calculation Method: Minimum Curvature 0.00 usft Output errors are at 2.00 sigma Well Error: EDM 5000.1 Multi User Db Reference Wellbore ÔН Database: Plan #2 Offset TVD Reference: Offset Datum Reference Design:

fset De	_	AM MWD+HD			201104	1-2 Fed State	COMPONIA	<u> </u>			-	ليحصينين	ہ ہے ہے کہ سے ہیں۔	- 44
Refer		Offs		Semi Major	Avio:	y St. Jer F	1 1 4 4 4		Dista		ر المعامل الأواجع الأواجع. المدارعة المعامل المعامل		Offset Well Error:	, 0.00 u
asured	Vertical	Measured	1.5	Reference	Offset	Highside "	Offset Wellbor	o Contro	Between	Between	Minimum	Connection		and the second
epth	Depth	Depth	Depth	Reference	Oliset	Toolface	+N/-S	+E/-W	Centres		Minimum Separation	Separation Factor	Warning	100
usft)	(usft)	-	(usft)	(usft)	(usft)	(°).	(usft)	(usft)	(usft)	(usft)				
200.00	0.000.00	40 444 04	40.050.04	405.40					<u> </u>					
5,300.00	9,033.99	16,441.34	10,358.81	105.49	104.62	-178.96	6,261.30	-324.19	1,287.53	1,192.13	95.41	13.495		
5,400.00	9,034.14	16,541.33	10,358.65	107.10	106.22	-178.98	6,361.30	-324.19	1,287.21	1,190.38	96.83	13.294		
5,500.00	9,034.29	16,641.33	10,358.50	108.72	107.82	-179.01	6,461.29	-324.19	1,286.89	1,188.64	98.25	13.098		
5,600.00	9,034.45	16,741.33	10,358.34	110.33	109.42	-179.04	6,561.29	-324.19	1,286.58	1,186.90	99.68	12.907		
5,700.00	9,034.60	16,841.33	10,358.18	111.94	111.03	-179.07	6,661.29	-324.19	1,286.26	1,185.15	101.10	12.722		
5,800.00	9,034.75	16,941.32	10,358.02	113.56	112.63	-179.10	6,761.28	-324.19	1,285.94	1,183.41	102.53	12.542		
5,900.00	9,034.90	17,041.32	10,357.87	115.18	114.24	-179.13	6,861.28	-324.19	1,285.62	1,181.66	103.96	12.367		
6,000.00	9,035.05	17,141.32	10,357.71	116.79	115.84	-179.15	6,961.28	-324.19	1,285.30	1,179.91	105.39	12.196		
6,100.00	9,035.20	17,241.32	10,357.55	118.41	117.45	-179.18	7,061.28	-324.19	1,284.98	1,178.17	106.82	12.030		
6,200.00	9,035.35	17,341.31	10,357.40	120.03	119.06	-179.21	7,161.27	-324.19	1,284.67	1,176.42	108.25	11.868		
6,300.00	9,035.51	17,441.31	10,357.24	121.64	120.67	-179.24	7,261.27	-324.19	1,284.35	1,174.67	109.68	11.710		
6,400.00	9,035.66	17,541.31	10,357.08	123.26	122.28	-179.27	7 264 27	224.40	1 201 02	4 470 00	444.44	44.550		
5,500.00	9,035.81	17,641.31	10,357.08				7,361.27	-324.19	1,284.03	1,172.92	111.11	11.556		
				124.88	123.89	-179.30	7,461.27	-324.19	1,283.71	1,171.17	112.55	11.406		
5,600.00	9,035.96	17,741.30	10,356.77	126.50	125.50	-179.33	7,561.26	-324.19	1,283.40	1,169.42	113.98	11.260		
3,700.00	9,036.11 9,036.26	17,841.30 17,941.30	10,356.61 10,356.45	128.12	127.11	-179.35	7,661.26	-324.19	1,283.08	1,167.67	115.42	11.117		
3,800.00	9,036.26	17,941.30	10,356.45	129.74	128.72	-179.38	7,761.26	-324.19	1,282.77	1,165.91	116.85	10.978		
,900.00	9,036.41	18,041.30	10,356.30	131.37	130.33	-179.41	7,861.26	-324.19	1,282.45	1,164.16	118.29	10.842		
,000.00	9,036.57	18,141.29	10,356.14	132.99	131.95	-179.44	7,961.25	-324.19	1,282.14	1,162.41	119.73	10.709		
,100.00	9,036.72	18,241.29	10,355.98	134.61	133.56	-179.47	8,061.25	-324.19	1,281.82	1,160.66	121.17	10.579		
,200.00	9,036.87	18,341.29	10,355.83	136.23	135.18	-179.50	8,161.25	-324.19	1,281.51	1,158.90	122.60	10.452		
,300.00	9,037.02	18,441.29	10,355.67	137.86	136.79	-179.52	8,261.24	-324,19	1,281.19	1,157.15	124.04	10.329		
,400.00	9,037.17	18,541.28	10,355.51	139.48	138.41	-179.55	8,361.24	-324.19	1,280.88	1,155.39	125.48	10.207		
7,500.00	9,037.32	18,641.28	10,355.35	141.10	140.02	-179.58	8,461.24	-324.19	1,280.57	1,153.64	126.93	10.089		
7,600.00	9,037.47	18,741.28	10,355.20	142.73	141.64	-179.61	8,561.24	-324.19	1,280.25	1,151.89	128.37	9.973		
7,700.00	9,037.63	18,841.28	10,355.04	144.35	143.26	-179.64	8,661.23	-324.19	1,279.94	1,150.13	129.81	9.860		
7,800.00	9,037.78	18,941.27	10,354.88	145.98	144.88	-179.67	8,761.23	-324.19	1,279.63	1,148.37	131.25	9.749		
	0,007.70	10,011.21	10,001.00	140.50	144.00	-170.07	0,707.23	-524.15	1,275.05	1,140.07	151.25	3.743		
,900.00	9,037.93	19,041.27	10,354.73	147.60	146.49	-179.70	8,861.23	-324.19	1,279.32	1,146.62	132.70	9.641		
3,000.00	9,038.08	19,141.27	10,354.57	149.23	148.11	-179.72	8,961.23	-324.19	1,279.00	1,144.86	134.14	9.535		
3,100.00	9,038.23	19,241.27	10,354.41	150.85	149.73	-179.75	9,061.22	-324.19	1,278.69	1,143.11	135.59	9.431		
3,200.00	9,038.38	19,341.26	10,354.25	152.48	151.35	-179.78	9,161.22	-324.19	1,278.38	1,141.35	137.03	9.329		
3,300.00	9,038.54	19,441.26	10,354.10	154.11	152.97	-179.81	9,261.22	-324.19	1,278.07	1,139.59	138.48	9.229		
,400.00	9,038.69	19,541.26	10,353.94	155.73	154.59	-179.84	9,361.22	-324.19	1,277.76	1,137.84	139.92	9.132		
,500.00	9,038.84	19,641.26	10,353.78	157.36	156.21	-179.87	9,461.21	-324.19	1,277.45	1,136.08	141.37	9.036		
3,600.00	9,038.99	19,741.25	10,353.63	158.99	157.83	-179.90	9,561.21	-324.19	1,277.14	1,134.32	142.82	8.942		
3,700.00	9,039.14	19,841.25	10,353.47	160.61	159.45	-179.93	9,661.21	-324.19	1,276.83	1,132.56	144.27	8.850		
,800.00	9,039.29	19,941.25	10,353.31	162.24	161.07	-179.95	9,761.21	-324.19	1,276.52	1,130.81	145.72	8.760		
900.00	9,039.44	20 041 25	10 353 15	162 97	162.70	170.09	0.961.20	224.40	1 276 24	4 400 05	147 17	0.670		
,900.00		20,041.25	10,353.15	163.87	162.70	-179.98	9,861.20	-324.19	1,276.21	1,129.05	147.17	8.672		
9,000.00	9,039.60	20,141.24	10,353.00	165.50	164.32	179.99	9,961.20	-324.19	1,275.90	1,127.29	148.62	8.585		
9,100.00	9,039.75	20,241.24	10,352.84	167.13	165.94	179.96	10,061.20	-324.19	1,275.60	1,125.53	150.07	8.500		
9,200.00	9,039.90	20,341.24	10,352.68	168.76	167.56	179.93	10,161.19	-324.19	1,275.29	1,123.77	151.52	8.417		
,267.22	9,040.00	20,407.05	10,352.58	169.60	168.63	179.91	10,227.01	-324.19	1,275.08	1,122.85	152.23	8.376		

Anticollision Report

Company: Devon Energy

Project: Eddy County, NM (NAD-83) Belloq 11-2 Fed State Com Reference Site:

Site Error:

0.00 usft

Belloq 11-2 Fed State Com 521H Reference Well: 0.00 usft Well Error:

Reference Wellbore ОН Reference Design: Plan #2 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at

Database:

Offset TVD Reference:

Well Bellog 11-2 Fed State Com 521H

3430' GE + 23.5' KB @ 3453.50usft 3430' GE + 23.5' KB @ 3453.50usft

Grid

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

urvey Prog	ram: 0-L	EAM MWD+HD	GM .			·				ه د د سائر	s :		Offset Well Error: 0.	.00 us
	rence	Offs		Semi Major	Axis	200	•	A 7 4	Dista	ince				
leasured	Vertical	Measured	Vertical		Offset.	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	(1.061)	(11 261)	Toolface	+N/-S	+E/-W	Centres	Ellipses (usft)	Separation (usft)	Factor		
(usft)	(usft)		(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usit)	(usit)			
0.00	0.00	0.10	0.10	0.00	0.00	89.85	0.08	30.00	30.00	20.02	0.47	474.040		
100.00	100.00	100.10	100.10	0.09	0.09	89.85	0.08	30.00 30.00	30.00 30.00	29.83 29.38	0.17 0.62	174.246 48.255		
200.00 300.00	200.00 300.00	200.10 300.10	200.10 300.10	0.31 0.54	0.31 0.54	89.85 89.85	80.0 80.0	30.00	30.00	28.93	1.07	28.005		
400.00	400.00	400.10	400.10	0.76	0.76	89.85	0.08	30.00	30.00	28.48	1.52	19.727		
500.00	500.00	500.10	500.10	0.99	0.99	89.85	0.08	30.00	30.00	28.03	1.97	15.226		

600.00	600.00	600.10	600.10	1.21	1.21	89.85	0.08	30.00	30.00	27.58	2.42	12.398		
700.00	700.00	700.10	700.10	1.43	1.43	89.85	0.08	30.00	30.00	27.13	2.87	10.455		
800.00	800.00	800.10	800.10	1.66	1.66	89.85	0.08	30.00	30.00	26.68	3.32	9.039		
900.00	900.00	900.10	900.10	1.88	1.88	89.85	0.08	30.00	30.00	26.23	3.77	7.961		
1,000.00	1,000.00	1,000.10	1,000.10	2.11	2.11	89.85	0.08	30.00	30.00	25.78	4.22	7.112		
1,100.00	1,100.00	1,100.10	1,100.10	2.33	2.33	89.85	0.08	30.00	30.00	25.33	4.67	6.427		
1,200.00	1,200.00	1,200.10	1,200.10	2.56	2.56	89.85	0.08	30.00	30.00	24.88	. 5.12	5.863		
1,300.00	1,300.00	1,300.10	1,300.10	2.78	2.78	89.85	0.08	30.00	30.00	24.43	5.57	5.389		
1,400.00	1,400.00	1,400.10	1,400.10	3.01	3.01	89.85	0.08	30.00	30.00	23.98	6.02	4.987		
1,500.00	1,500.00	1,500.10	1,500.10	3.23	3.23	89.85	0.08	30.00	30.00	23.53	6.47	4.640		
1,600.00	1,600.00	1,600.10	1,600.10	3.46	3.46	89.85	0.08	30.00	30.00	23.08	6.92	4.338		
1,700.00	1,700.00	1,700.10	1,700.10	3.68	3.68	89.85	0.08	30.00	30.00	22.64	7.36	4.074		
1,800.00	1,800.00	1,800.10	1,800.10	3.91	3.91	89.85	0.08	30.00	30.00	22.19	7.81	3.839		
1,900.00	1,900.00	1,900.10	1,900.10	4.13	4.13	89.85	0.08	. 30.00	30.00	21.74	8.26	3.630		
2,000.00	2,000.00	2,000.10	2,000.10	4.36	4.36	89.85	0.08	30.00	30.00	21.29	8.71	3.443 CC, E	S	
2,100.00	2,099.99	2,100.09	2,100.09	4.56	4.58	-137.29	0.08	30.00	30.64	21.50	9.14	3.353		
2,200.00	2,199.96	2,200.06	2,200.06	4.74	4.81	-140.40	0.08	30.00	32.61	23.07	9.54	3.417		
2,300.00	2,299.86	2,299.96	2,299.96	4.92	5.03	-144.80	0.08	30.00	36.08	26.13	9.95	3.626		
2,400.00	2,399.68	2,399.78	2,399.78	5.11	5.26	-149.64	0.08	30.00	41.17	30.81	. 10.36	3.974		
2,500.00	2,499.47	2,499.57	2,499.57	5.31	5.48	-153.67	0.08	30.00	46.92	36.15	10.77	4.355		
2,600.00	2,599.25	2,598.84	2,598.83	5.50	5.68	-156.03	-0.41	30.69	53.34	42.17	11.17	4.777		
2,700.00	2,699.04	2,698.00	2,697.96	5.71	5.86	-156.52	-1.90	32.79	60.77	49.23	11.54	5.266		
2,800.00	2,798.82	2,797.01	2,796.88	5.91	6.05	-155.71	-4.39	36.27	69.18	57.26	11.92	5.805		
2,900.00	2,898.61	2,895.80	2,895.49	6.12	6.23	-154.06	-7.85	41.13	78.61	66.31	12.30	6.390	•	
3,000.00	2,998.40	2,994.38	2,993.77	6.34	6.43	-151.90	-12.28	47.36	89.14	76.46	12.69	7.026		
3,100.00	3,098.18	3,093.71	3,092.73	6.55	6.63	-149.86	-17.18	54.24	100.26	87.18	13.09	7.661		
3,200.00	3,197.97	3,193.03	3,191.70	6.77	6.83	-148.22	-22.08	61.12	111.48	97.99	13.49	8.262		
3,300.00	3,297.76	3,292.35	3,290.66	6.99	7.04	-146.89	-26.98	67.99	122.77	108.87	13.90	8.830		
3,400.00	3,397.54	3,391.68	3,389.62	7.21	7.25	-145.78	-31.88	74.87	134.12	119.80	14.32	9.366		
3,500.00	3,497.33	3,491.00	3,488.59	7.44	7.47	-144.84	-36.78	81.75	145.51	130.77	14.74	9.872		
3 600 00	2 507 40	2 500 20	2 507 55	7.00	7.00	144.04	44.00	00.00	450.00	444 77	45.40	10.240		
3,600.00	3,597.12 3,696.90	3,590.32 3,689.65	3,587.55 3,686.52	7.66 7.89	7.68 7.90	-144.04 -143.35	-41.68 -46.58	88.63 95.51	156.93 168.38	141.77 152.79	15.16 15.59	10.349 10.799		
3,800.00	3,796.69	3,589.65	3,585.52	7.89 8.12	7.90 8.13	-143.35 -142.75	-46.58 -51.48	95.51 102.38	168.38 179.85	152.79	16.02	10.799		
3.900.00		3,888.29	3,884.44	8.35	8.35	-142.73	-56.37	102.36	191.33	174.88	16.46	11.627		
4,000.00	3,996.26	3,987.62	3,983.41	8.58	8.58	-141.75	-50.37 -61.27	116.14	202.83	185.94	16.89	12.007		
	-,	-,	-,	2.20	5.53				222.50					
4,100.00	4,096.05	4,086.94	4,082.37	8.81	8.81	-141.33	-66.17	123.02	214.35	197.01	17.33	12.367		
4,200.00	4,195.84	4,186.26	4,181.33	9.05	9.04	-140.95	-71.07	129.90	225.87	208.10	17.77	12.708		
4,300.00	4,295.62	4,285.59	4,280.30	9.28	9.28	-140.61	-75.97	136.77	237.40	219.18	18.22	13.032		
4,400.00	4,395.41	4,384.91	4,379.26	9.51	9.51	-140.30	-80.87	143.65	248.94	230.28	18.66	13.339		
4,500.00	4,495.19	4,484.23	4,478.23	9.75	9.75	-140.02	-85.77	150.53	260.48	241.37	19.11	13.630		
4,600.00	4,594.98	4,583.56	4,577.19	9.99	9.99	-139.76	-90.67	157.41	272.04	252.48	19.56	13.908		
4,700.00	4,694.77	4,682.88	4,676.15	10.22	10.23	-139.52	-95.57	164.29	283.59	263.58	20.01	14.172		
4,800.00	4,794.55	4,782.20	4,775.12	10.46	10.47	-139.31	-100.46	171.17	295.15	274.69	20.46	14.423		
4,900.00	4,894.34	4,881.53	4,874.08	10.70	10.71	-139.10	-105.36	178.04	306.72	285.80	20.92	14.663		
5,000.00	4,994.13	4,980.85	4,973.05	10.94	10.95	-138.92	-110.26	184.92	318.29	296.91	21.37	14.892		
					,									
5,100.00	5,093.91	5,080.17	5,072.01	11.18	11.19	-138.74	-115.16	191.80	329.86	308.03	21.83	15.110		

Anticollision Report

Devon Energy Company: Local Co-ordinate Reference: Well Bellog 11-2 Fed State Com 521H Project: Eddy County, NM (NAD-83) TVD Reference: 3430' GE + 23.5' KB @ 3453.50usft Reference Site: Belloq 11-2 Fed State Com MD Reference: 3430' GE + 23.5' KB @ 3453.50usft Site Error: 0.00 usft North Reference: Bellog 11-2 Fed State Com 521H Reference Well: 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 OH. Database: Plan #2 Offset Datum Offset TVD Reference: Reference Design:

Offset De		Belloq EAM MWD+HD		state Com -	Bellog 1	1-2 Fed St	ate Com 511H -	OH - Plan		-		السبب	Offset Site Error:	0.00 uşft
Survey Prog Refer		EAM MWD+HD Offs		Semi Major	Axis				Dista	ance	ala di Silanda Alamanda		Offset Well Error:	0.00 usft
Measured	Vertical	Measured	Vertical	Reference			Offset Wellbo		Between		Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)			Toolface	+N/-S (usft)		Centres (usft)		Separation (usft)			
5,200.00	5,193.70	5,179.50	5,170.97	11.42	11.44	-138.58	-120.06	198.68				15.319		· · · · · · · · · · · · · · · · · · ·
5,300.00	5,193.70	5,179.50	5,170.97	11.42	11.68	-138.43	-124.96	205.56	341.43 353.01	319.14 330.26	22.29 22.75	15.519		
5,400.00	5,393.27	5,378.15	5,368.90	11.90	11.93	-138.29	-129.86	212.43	364.59	341.38	23.21	15.711		
5,500.00	5,493.06	5,477.47	5,467.87	12.14	12.18	-138.15	-134.76	219.31	376.17	352.50	23.67	15.894		
5,600.00	5,592.85	5,576.79	5,566.83	12.38	12.42	-138.03	-139.66	226.19	387.75	363.62	24.13	16.070		
5,700.00	5,692.63	5,676.12	5,665.79	12.63	12.67	-137.91	-144.56	233.07	399.33	374.74	24.59	16.239		
5,800.00	5,792.42	5,775.44	5,764.76	12.87	12.92	-137.80	-149.45	239.95	410.92	385.86	25.06	16.401		
5,900.00	5,892.21	5,874.76	5,863.72	13.11	13.17	-137.69	-154.35	246.82	422.51	396.99	25.52	16.556		
6,000.00	5,991.99	5,974.09	5,962.68	13.35	13.42	-137.59	-159.25	253.70	434.10	408.11	25.98	16.706		
6,100.00	6,091.78	6,073.41	6,061.65	13.60	13.67	-137.50	-164.15	260.58	445.69	419.24	26.45	. 16.850		
6,200.00	6,191.57	6,172.73	6,160.61	13.84	13.92	-137.41	-169.05	267.46	457.28	430.36	26.92	16.989		
6,300.00	6,291.35	6,272.06	6,259.58	14.08	14.17	-137.32	-173.95	274.34	468.87	441.49	27.38	17.122		
6,400.00	6,391.14	6,371.38	6,358.54	14.33	14.43	-137.24	-178.85	281.22	480.46	452.61	27.85	17.251		
6,500.00	6,490.92	6,470.70	6,457.50	14.57	14.68	-137,17	-183.75	288.09	492.06	463.74	28.32	17.375		
6,600.00	6,590.71	6,570.03	6,556.47	14.82	14.93	-137.09	-188.65	294.97	503.65	474.86	28.79	17.495		
6,700.00	6,690.50	6,669.35	6,655.43	15.06	15.18	-137.02	-193.54	301.85	515.25	485.99	29.26	17.611		
6,800.00	6,790.28	6,768.67	6,754.40	15.31	15.44	-136.95	-198.44	308.73	526.84	497.12	29.73	17.723		
6,900.00	6,890.07	6,868.00	6,853.36	15.55	15.69	-136.89	-203.34	315.61	538.44	508.24	30.20	17.831		
7,000.00	6,989.86	6,967.32	6,952.32	15.80	15.95	-136.83	-208.24	322.48	550.04	519.37	30.67	17.935	,	
7,100.00	7,089.64	7,066.64	7,051.29	16.04	16.20	-136.77	-213.14	329.36	561.64	530.50	31.14	18.036		
7,200.00	7,189.43	7,165.97	7,150.25	16.29	16.46	-136.71	-218.04	336.24	573.23	541.62	31.61	18.134		
7,300.00	7,289.22	7,265.29	7,249.21	16.53	16.71	-136.66	-222.94	343.12	584.83	552.75	32.08	18.229		
7,400.00	7,389.00	7,364.61	7,348.18	16.78	16.97	-136.60	-227.84	350.00	596.43	563.88	32.56	18.321		
7,500.00	7,488.79	7,463.94	7,447.14	17.03	17.22	-136.55	-232.74	356.87	608.03	575.01	33.03	18.410		
7,600.00	7,588.62	7,563.31	7,546.16	17.25	17.48	-136.53	-237.64	363.76	619.14	585.66	33.48	18.493		
7,700.00	7,688.53	7,672.02	7,654.54	17.44	17.71	-136.43	-242.46	370.52	628.31	594.39	33.91	18.526	•	
7,800.00	7,788.50	7,781.59	7,763.94	17.62	17.93	-136.30	-246,11	375.65	634.67	600.34	34.33	18.487		
7,900.00	7,888.50	7,891.43	7,873.69	17.81	18.14	89.87	-248.55	379.07	638.25	603.50	34.75	18.368		
8,000.00	7,988.50	8,001.39	7,983.63	18.00	18.34	89.98	-249.77	380.79	639.81	604.66	35.15	18.203		
8,100.00	8,088.50	8,106.36	8,088.60	18.19	18.54	89.99	-249.92	381.00	640.00	604.46	35.54	18.005		
8,200.00	8,188.50	8,206.36	8,188.60	18.38	18.73	89.99	-249.92	381.00	640.00	604.07	35.93	17.811		
8,300.00	8,288.50	8,306.36	8,288.60	18.57	18.92	89.99	-249.92	381.00	640.00	603.68	36.32	17.620		
8,370.42	8,358.91	8,376.94	8,359.03	18.70	19.05	89.64	-245.99	380.97	639.99	603.40	36.59	17,492		
8,400.00	8,388.50	8,406.13	8,387.91	18.76	19.09	89.27	-241.84	380.95	640.00	603.31	36.69	17.442		
8,500.00	8,488.47	8,500.00	8,478.76	18.94	19.22	87.61	-218.64	380.80	640.59	603.58	37.01	17.308		
8,600.00	8,587.21	8,590.91	8,562.00	19.10	19.30	85.35	-182.34	380.57	642.24	604.99	37.24	17.245		
8,700.00	8,681.84	8,678.00	8,635.41	19.21	19.35	83.26	-135.63	380.27	644.68	607.29	37.39	17.243		
8,800.00	8,769.49	8,762.58	8,699.14	19.30	19.39	81.37	-80.14	379.91	647.62	610.15	37.48	17.243		
8,900.00	8,847.49	8,845.15	8,752.82	19.35	19.41	79.72	-17.50	379.51	650.75	613.19	37.56	17.327		
9,000.00	8,913.48	8,926.13	8,796.20	19.39	19.42	78.34	50.81	379.07	653.74	616.05	37.69	17.343		
9,100.00	8,965.45	9,005.92	8,829.10	19.43	19.43	77.25	123.42	378.60	656.33	618.38	37.95	17.295		
9,200.00	9,001.82	9,084.86	8,851.43	19.63	19.58	76.49	199.07	378.12	658.28	619.90	38.38	17.150		
9,300.00	9,021.48	9,163.27	8,863.11	20.05	19.94	76.05	276.54	377.62	659.44	620.41	39.03	16.896		
9,400.00	9,025.05	9,249.97	8,864.92	20.57	20.41	75.94	363.19	377.06	659.74	619.79	39.94	16.518		
9,500.00	9,025.21	9,349.97	8,864.72	21.20	21.05	75.91	463.19	376.42	659.82	618.69	41.13	16.042		
9,600.00	9,025.36	9,449.97	8,864.51	21.93	21.78	75.88	563.18	375.78	659.90	617.38	42.53	15.518		
0 700 00	0.035.54	0.540.07	9 964 24	22.75	22.50	75 05	662.40	275 44	650.00	615.00	44 14	14.062		
9,700.00 9,800.00	9,025.51 9,025.66	9,549.97 9,649.97	8,864.31 8,864.11	22.75 23.66	22.60 23.51	75.85 75.82	663.18 763.18	375.14 374.49	659.99 660.08	615.88 614.21	44.11 45.86	14.963 14.393		
9,900.00	9,025.81	9,749.96	8,863.91	24.63	24.49	75.79	863.18	374.49	660.16	612.40	47.76	13.822		
10,000.00	9,025.96	9,849.96	8,863.71	25.68	25.54	75.76	963.17	373.21	660.25	610.45	49.80	13.259		
10,100.00	9,026.11	9,949.96	8,863.50	26.78	26.64	75.74	1,063.17	372.57	660.33	608.39	51.95	12.712		
		40.0:==:												
10,200.00	9,026.27	10,049.96	8,863.30	27.94	27.80	75.71	1,163.17	371.92	660.42	606.22	54.20	12.185		

Anticollision Report

Devon Energy Company:

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

Site Error:

0.00 usft

Reference Well:

Well Error: Reference Wellbore Reference Design:

0.00 usft

Belloq 11-2 Fed State Com

Belloq 11-2 Fed State Com 521H

ОН Plan #2 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method: Output errors are at

Database:

Offset TVD Reference:

Well Belloq 11-2 Fed State Com 521H

3430' GE + 23.5' KB @ 3453.50usft. 3430' GE + 23.5' KB @ 3453.50usft

Grid.

Minimum Curvature .

2.00 sigma

EDM 5000.1 Multi User Db

·	sign	Bellog												0.00
Survey Prog Refe		EAM MWD+HE Offs		Semi Major	Axis				Dista	ince			Offset Well Error:	0.00 usft
Measured	Vertical	Measured	Vertical	Reference		Highside	Offset Wellbor	re Centre	Between	Between	Minimum	Separation	Warning	
Depth -	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface	+N/-S	+E/-W	Centres	Ellipses (usft)	Separation (usft)	Factor		
(usft)						· , (°)	(usft)	(usft)				<u> </u>	1 10 TV 10	
10,300.00	9,026.42	10,149.96	8,863.10	29.14	29.00	75.68	1,263.16	371.28	660.50	603.96	56.54	11.681		
10,400.00	9,026.57	10,249.96	8,862.90	30.38	30.24	75.65	1,363.16	370.64	660.59	601.62	58.97	11.202		
10,500.00	9,026.72	10,349.96	8,862.70	31.66	31.52	75.62	1,463.16	370.00	660.68	599.22	61.46	10.749		
10,600.00	9,026.87	10,449.96	8,862.50	32.97	32.83	75.59	1,563.16	369.36	660.76	596.75	64.02	10.322		
10,700.00	9,027.02	10,549.96	8,862.29	34.31	34.17	75.56	1,663.15	368.71	660.85	594.22	66.63	9.919		
10,800.00	9,027.17	10,649.96	8,862.09	35.67	35.53	75.53	1,763.15	368.07	660.94	591.65	69.28	9.539		
10,900.00	9,027.33	10,749.96	8,861.89	37.06	36.92	75.50	1,863.15	367.43	661.03	589.04	71.99	9.183		
11,000.00	9,027.48	10,849.96	8,861.69	38.46	38.32	75.47	1,963.14	366.79	661.11	586.39	74.72	8.847		
11,100.00	9,027.63	10,949.96	8,861.49	39.89	39.75	75.44	2,063.14	366.15	661.20	583.70	77.50	8.532		
11,200.00	9,027.78	11,049.96	8,861.28	41.33	41.19	75.41	2,163.14	365.50	661.29	580.99	80.30	8.235		
11,300.00	9,027.93	11,149.96	8,861.08	42.78	42.64	75.38	2,263.14	364.86	661.38	578.25	83.13	7.956		
11,400.00	9,028.08	11,249.96	8,860.88	44.25	44.11	75.35	2,363.13	364.22	661.46	575.48	85.99	7.693		
11,500.00	9,028.23	11,349.95	8,860.68	45.72	45.58	75.32	2,463,13	363.58	661.55	572.69	88.86	7.445		
11,600.00	9,028.39	11,449.95	8,860.48	47.21	47.07	75.29	2,563.13	362.93	661.64	569.88	91.76	7.211		
11,700.00	9,028.54	11,549.95	8,860.27	48.71	48.57	75.26	2,663.12	362.29	661.73	567.06	94.67	6.990		
11,800.00	9,028.69	11,649.95	8,860.07	50.22	50.08	75.23	2,763.12	361.65	661.82	564.21	97.60	6.781		
11,900.00	9,028.84	11,749.95	8,859.87	51.73	51.60	75.20	2,863.12	361.01	661.91	561.36	100.55	6.583		
12,000.00	9,028.99	11,849.95	8,859.67	53.26	53.12	75.20	2,963.12	360.37	662.00	558.49	103.51	6.396		
12,000.00	9,020.99	11,949.95	8,859.47	54.79	54.65	75.17	3,063.11	359.72	662.09	555.61	106.48	6.218		
12,100.00	9,029.14	12,049.95	8,859.27	56.32	56.18	75.14	3,163.11	359.08	662.18	552.71	109.46	6.049		
12,300.00	9,029.45	12,149.95	8,859.06	57.86	57.72	75.08	3,263.11	358.44	662.27	549.81	112.46	5.889		
12,500.00	3,023.43	12,140.00	0,055.00	37.00	37.72	75.55	5,200.11	000.44	OOL.L.	0.0.01	112.10	0.000		
12,400.00	9,029.60	12,249.95	8,858.86	59.41	59.27	75.05	3,363.10	357.80	662.36	546.90	115.46	5.737		
12,500.00	9,029.75	12,349.95	8,858.66	60.96	60.82	75.02	3,463.10	357.15	662.45	543.98	118.47	5.592		
12,600.00	9,029.90	12,449.95	8,858.46	62.52	62.38	74.99	3,563.10	356.51	662.54	541.05	121.49	5.453		
12,700.00	9,030.05	12,549.95	8,858.26	64.08	63.94	74.96	3,663.09	355.87	662.63	538.11	124.51	5.322		
12,800.00	9,030.20	12,649.95	8,858.05	65.64	65.50	74.94	3,763.09	355.23	662.72	535.17	127.55	5.196		
							0.000.00	354.59	662.81	532.22	130.59	5.076		
12,900.00	9,030.36	12,749.95	8,857.85	67.21	67.07	74.91	3,863.09		662.90	529.27	133.63	4.961		
13,000.00	9,030.51 9,030.66	12,849.95 12,949.94	8,857.65 8,857.45	68.78 70.35	68.64 70.22	74.88 74.85	3,963.09 4,063.08	353.94 353.30	662.90	526.31	136.68	4.851		
13,100.00 13,200.00	9,030.86	13,049.94	8,857.25	70.33	71.79	74.82	4,163.08	352.66	663.08	523.35	139.74	4.745		
13,300.00	9,030.96	13,149.94	8,857.05	73.51	73.37	74.79	4,263.08	352.02	663.17	520.38	142.80	4.644		,
15,000.00	0,000.00	10,140.04	0,037.00	75.51	70.07	74.70	1,200.00	552.52	000.11	020:00				
13,400.00	9,031.11	13,249.94	8,856.84	75.09	74.96	74.76	4,363.07	351.37	663.26	517.41	145.86	4.547		
13,500.00	9,031.26	13,349.94	8,856.64	76.68	76.54	74.73	4,463.07	350.73	663.36	514.43	148.93	4.454		
13,600.00	9,031.42	13,449.94	8,856.44	78.27	78.13	74.70	4,563.07	350.09	663.45	511.45	152.00	4.365		
13,700.00	9,031.57	13,549.94	8,856.24	79.85	79.72	74.67	4,663.07	349.45	663.54	508.47	155.07	4.279		
13,800.00	9,031.72	13,649.94	8,856.04	81.45	81.31	74.64	4,763.06	348.81	663.63	505.48	158.15	4.196		
40.000.00	0.004.0=	40 740 0 :	0.055.55		00.00	74.04	4 800 00	040.44	000 70	E00 10	404.00	4 447		
13,900.00	9,031.87	13,749.94	8,855.83	83.04	82.90	74.61	4,863.06	348.16	663.73	502.49	161.23	4.117		
14,000.00	9,032.02	13,849.94	8,855.63	84.63	84.50	74.58	4,963.06	347.52	663.82	499.50	164.31	4.040		
14,100.00	9,032.17	13,949.94	8,855.43	86.23	86.09	74.55	5,063.05	346.88	663.91	496.51	167.40	3.966		
14,200.00	9,032.32	14,049.94	8,855.23	87.83	87.69	74.52	5,163.05	346.24	664.00	493.52	170.49	3.895		
14,300.00	9,032.48	14,149.94	8,855.03	89.43	89.29	74.49	5,263.05	345.59	664.10	490.52	173.58	3.826		
14,400.00	9,032.63	14,249.94	8,854.82	91.03	90.89	74.46	5,363.05	344.95	664.19	487.52	176.67	3.760		
14,500.00	9,032.78	14,349.94	8,854.62	92.63	92.50	74.43	5,463.04	344.31	664.29	484.52	179.76	3.695		
14,600.00	9,032.78	14,449.94	8,854.42	94.23	94.10	74.43	5,563.04	343.67	664.38	481.52	182.86	3.633		
14,700.00	9,033.08	14,549.93	8,854.22	95.84	95.70	74.38	5,663.04	343.03	664.47	478.52	185.96	3.573		
14,700.00	9,033.08	14,649.93	8,854.02	97.45	97.31	74.35	5,763.03	342.38	664.57	475.51	189.06	3.515		
,=50.50	5,555.25	,5-10.00	5,557.02	01.40	57.51	. 4.00	5,700.00	3-12.00	30 1.07	., ., .,	. 55.56	3.0.0		
14,900.00	9,033.38	14,749.93	8,853.82	99.05	98.92	74.32	5,863.03	341.74	664.66	472.51	192.16	3.459		
15,000.00	9,033.54	14,849.93	8,853.61	100.66	100.53	74.29	5,963.03	341.10	664.76	469.50	195.26	3.405		
15,100.00	9,033.69	14,949.93	8,853.41	102.27	102.13	74.26	6,063.03	340.46	664.85	466.49	198.36	3.352		
15,200.00	9,033.84	15,049.93	8,853.21	103.88	103.75	74.23	6,163.02	339.82	664.95	463.48	201.46	3.301		
15,300.00	9,033.99	15,149.93	8,853.01	105.49	105.36	74.20	6,263.02	339.17	665.04	460.47	204.57	3.251		
15,400.00	9,034.14	15,249.93	8,852.81	107.10	106.97	74.17	6,363.02	338.53	665.14	457.46	207.67	3.203		

Anticollision Report

Well Belloq 11-2 Fed State Com 521H Devon Energy Company: Local Co-ordinate Reference: 3430' GE + 23.5' KB @ 3453.50usft Project: Eddy County, NM (NAD-83) TVD Reference: Bellog 11-2 Fed State Com 3430' GE + 23.5' KB @ 3453.50usft Reference Site: MD Reference: 0.00 usft North Reference: Site Error: Grid Belloq 11-2 Fed State Com 521H Minimum Curvature Reference Well: Survey Calculation Method: 2.00 sigma 0.00 usft Output errors are at Well Error: Reference Wellbore ОН EDM 5000.1 Multi User Db -Database: Reference Design: Plan #2 Offset TVD Reference: Offset Datum

Offset De				State Com -	Bellog 1	1-2 Fed State	e Com 511H -	OH - Plan #	‡ 1				Offset Site Error:	0.00 usft
	ram: 0-LE				1.55	19. LAND	1		4				Offset Well Error:	0.00 usft
Refere	ence	Offs		Semi Major	Axis					ance *		10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	r ar	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Between	Minimum	Separation	Warning	
Depth	Depth		Depth	(Carto)	(See	Toolface				Ellipses	Separation			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	e 195 1		<u> </u>
15,500.00	9,034.29	15,349.93	8,852.60	108.72	108.58	74.14	6,463.01	337.89	665.23	454.45	210.78	3.156		
15,600.00	9,034.45	15,449.93	8,852.40	110.33	110.19	74.11	6,563.01	337.25	665.33	451.44	213.89	3.111		
15,700.00	9,034.60	15,549.93	8,852.20	111.94	111.81	74.08	6,663.01	336.60	665.42	448.43	216.99	3.067		
15,800.00	9,034.75	15,649.93	8,852.00	113.56	113.42	74.05	6,763.01	335.96	665.52	445.42	220.10	3.024		
15,900.00	9,034.90	15,749.93	8,851.80	115.18	115.04	74.02	6,863.00	335.32	665.61	442.40	223.21	2.982		
16,000.00	9,035.05	15,849.93	8,851.59	116.79	116.66	73.99	6,963.00	334.68	665.71	439.39	226.32	2.941		
16,100.00	9,035.20	15,949.93	8,851.39	118.41	118.27	73.97	7,063.00	334.04	665.81	436.38	229.43	2.902		
16,200.00	9,035.35	16,049.93	8,851.19	120.03	119.89	73.94	7,162.99	333.39	665.90		232.54	2.864		
16,300.00	9,035.51	16,149.92	8,850.99	121.64	121.51	73.91	7,262.99	332.75	666.00		235.65	2.826		
16,400.00	9,035.66	16,249.92	8,850.79	123.26	123.13	73.88	7,362.99	332.11	666.10		238.76	2.790		
16,500.00	9,035.81	16,349.92	8,850.59	124.88	124.75	73.85	7,462.99	331.47	666.19		241.87	2.754		
16,600.00	9,035.96	16,449.92	8,850.38	126.50	126.37	72.02	7 560 00	220.00	000.00	404.01	04465	A 70-		
16,700.00	9,035.96	16,549.92	8,850.18	128.12	125.37	73.82 73.79	7,562.98	330.82	666.29		244.98	2.720		
16,800.00	9,036.26	16,649.92	8,849.98	120.12	127.99	73.79 73.76	7,662.98 7,762.98	330.18	666.39		248.10	2.686		
16,900.00	9,036.41	16,749.92	8,849.78	131.37	131.23	73.76	7,762.96	329.54 328.90	666.49 666.58		251.21	2.653		
17,000.00	9,036.57	16,849.92	8,849.58	132.99	132.85	73.73	7,962.97	328.26	666.68		254.32	2.621		
17,000.00	3,030.37	10,049.92	0,049.00	132.55	132.03	73.70	7,902.97	320.20	000.00	409.25	257.43	2.590		
17,100.00	9,036.72	16,949.92	8,849.37	134.61	134.48	73.67	8,062.97	327.61	666.78	406.24	260.54	2.559		
17,200.00	9,036.87	17,049.92	8,849.17	136.23	136.10	73.64	8,162.96	326.97	666.88	403.22	263.66	2.529		
17,300.00	9,037.02	17,149.92	8,848.97	137.86	137.72	73.61	8,262.96	326.33	666.98	400.21	266.77	2.500		
17,400.00	9,037.17	17,249.92	8,848.77	139.48	139.34	73.59	8,362.96	325.69	667.08	397.20	269.88	2.472		
17,500.00	9,037.32	17,349.92	8,848.57	141.10	140.97	73.56	8,462.96	325.04	667.17	394.18	272.99	2.444		
17,600.00	9,037.47	17,449.92	8,848.36	142.73	142.59	73.53	8,562.95	324.40	667.27	391.17	276.10	2.417		
17,700.00	9,037.63	17,549.92	8,848.16	144.35	144.22	73.50	8,662.95	323.76	667.37		279.22	2.390		
17,800.00	9,037.78	17,649.92	8,847.96	145.98	145.84	73.47	8,762.95	323.12	667.47		282.33	2.364		
17,900.00	9,037.93	17,749.91	8,847.76	147.60	147.47	73.44	8,862.94	322,48	667.57		285.44	2.339		
18,000.00	9,038.08	17,849.91	8,847.56	149.23	149.09	73.41	8,962.94	321.83	667.67		288.55	2.314		
			30.20			,								
18,100.00	9,038.23	17,949.91	8,847.36	150.85	150.72	73.38	9,062.94	321.19	667.77		291.66	2.290		
18,200.00	9,038.38	18,049.91	8,847.15	152.48	152.35	73.35	9,162.94	320,55	667.87		294.77	2.266		
18,300.00	9,038.54	18,149.91	8,846.95	154.11	153.97	73.32	9,262.93	319.91	667.97		297.88	2.242		
18,400.00	9,038.69	18,249.91	8,846.75	155.73	155.60	73.29	9,362.93	319.26	668.07	367.08	300.99	2.220		
18,500.00	9,038.84	18,349.91	8,846.55	157.36	157.23	73.27	9,462.93	318.62	668.17	364.07	304.10	2.197		
18,600.00	9,038.99	18,449.91	8,846.35	158.99	158.85	73.24	9,562.92	317.98	668.27	361.06	307.21	2.175		
18,700.00	9,039.14	18,549.91	8,846.14	160.61	160.48	73.21	9,662.92	317.34	668.37	358.05	310.32	2.154		
18,800.00	9,039.29	18,649.91	8,845.94	162.24	162.11	73.18	9,762.92	316.70	668.47	355.05	313.43	2.133		
18,900.00	9,039.44	18,749.91	8,845.74	163.87	163.74	73.15	9,862.92	316.05	668.58	352.04	316.54	2.112		
19,000.00	9,039.60	18,849.91	8,845.54	165.50	165.37	73.12	9,962.91	315.41	668.68	349.03	319.65	2.092		
19,100.00	9,039.75	18,949.91	8,845.34	167.13	166.99	73.09	10,062.91	314.77	668.78	346.03	322.75	2.072		
19,200.00	9,039.90	19,049.91	8,845.13	168.76	168.62	73.09	10,062.91	314.77	668.88		325.86	2.072		
19,267.22	9,040.00	19,117.10	8,845.00	169.60	169.72	73.06	10,162.91	314.13	668.95		325.86	2.053	26	
10,201.22	0,0 1 0,00	19,117,10	0,040.00	108.00	108.72	13.04	10,230.10	313.70	000.95	341.25	321.10	2.041 \$	ər:	

Anticollision Report

Сотрапу: Devon Energy

Eddy County, NM (NAD-83) Project: Belloq 11-2 Fed State Com Reference Site:

Site Error: Reference Well: 0:00 usft

Well Error: Reference Wellbore Reference Design:

Bellog 11-2 Fed State Com 521H

0.00 usft ОН Plan #2

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well Belloq 11-2 Fed State Com 521H

3430' GE + 23.5' KB @ 3453.50usft 3430' GE + 23.5' KB @ 3453.50usft

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

Survey Prog		EAM MWD+HC	IGM .	2 1 2	7	P				, at 1 a	ige - 1	100 100 100 100 100 100 100 100 100 100	Offset Well E	rror: 0.00
' '	rence	· Offs	et	- Semi Major	Axis		· .		Dista		·	·		
/leasured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor		Between	Between	Minimum	Separation	Wa	rning -
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
0.00		26.50	26.50	0.00	0.02	89.85	3.18	1,249.72	1,249.72				<u> </u>	* <u>i.i</u>
100.00		126.50	126.50	0.00	0.02	89.85	3.18	1,249.72	1,249.72	1,249.49	0.23	5,398.161		
200.00		226.50	226.50	0.31	0.13	89.85	3.18	1,249.72	1,249.72	1,249.04	0.68	1,835.019		
300.00		326.50	326.50	0.54	0.60	89.85	3.18	1,249.72	1,249.72	1,248.59	1.13	1,105.390		
400.00		426.50	426.50	0.76	0.82	89.85	3.18	1,249.72	1,249.72	1,248.14	1.58	790.912		
500.00		526.50	526.50	0.99	1.04	89.85	3.18	1,249.72	1,249.72	1,247.69	2.03	615.738		
600.00		626.50	626.50	1.21	1.27	89.85	3.18	1,249.72	1,249.72	1,247.24	2.48	504.090		
700.00		726.50	726.50	1.43	1.49	89.85	3.18	1,249.72	1,249.72	1,246.80	2.93	426.716		
800.00		826.50	826.50	1.66	1.72	89.85	3.18	1,249.72	1,249.72	1,246.35	3.38	369.934		
900.00		926.50	926.50	1.88	1.94	89.85	3.18	1,249.72	1,249.72	1,245.90	3.83	326.489		
1,000.00	1,000.00	1,026.50	1,026.50	2.11	2.17	89.85	3.18	1,249.72	1,249.72	1,245.45	4.28	292.176		
1,100.00	1,100.00	1,126.50	1,126.50	2.33	2.39	89.85	3.18	1,249.72	1,249.72	1,245.00	4.73	264.389		
1,200.00	1,200.00	1,226.50	1,226.50	2.56	2.62	89.85	3.18	1,249.72	1,249.72	1,244.55	5.18	241.429		
1,300.00		1,326.50	1,326.50	2.78	2.84	89.85	3.18	1,249.72	1,249.72	1,244.10	5.63	222.138		
1,400.00		1,426.50	1,426.50	3.01	3.07	89.85	3.18	1,249.72	1,249.72	1,243.65	6.08	205.701		
1,500.00	1,500.00	1,526.50	1,526.50	3.23	3.29	89.85	3.18	1,249.72	1,249.72	1,243.20	6.52	191.530		
										40-22-		470 :05		
1,600.00		1,626.50	1,626.50	3.46	3.52	89.85	3.18	1,249.72	1,249.72	1,242.75	6.97	179.185		
1,700.00		1,726.50	1,726.50	3.68	3.74	89.85	3.18	1,249.72	1,249.72	1,242.30	7.42	168.335		
1,800.00		1,826.50	1,826.50	3.91	3.97	89.85	3.18	1,249.72	1,249.72	1,241.85	7.87	158.724		
1,900.00		1,926.50	1,926.50	4.13 4.36	4.19 4.42	89.85 89.85	3.18 3.18	1,249.72 1,249.72	1,249.72 1,249.72	1,241.40 1,240.95	8.32 8.77	150.152 142.457 CC	FS	
2,000.00	2,000.00	2,026.50	2,026.50	4.30	4.42	69.65	3, 18	1,249.72	1,249.72	1,240.93	0.11	142,437 CC	, _0	
2,100.00	2,099.99	2,126.49	2,126.49	4.56	4.64	-136.18	3.18	1,249.72	1,250.35	1,241.16	9.20	135.946		
2,200.00		2,226.46	2,226.46	4.74	4.87	-136.25	3.18	1,249.72	1,252.24	1,242.64	9.60	130.433		
2,300.00	2,299.86	2,326.36	2,326.36	4.92	5.09	-136.37	3.18	1,249.72	1,255.40	1,245.39	10.01	125.441		
2,400.00	2,399.68	2,426.18	2,426.18	5.11	5.31	-136.54	3.18	1,249.72	1,259.79	1,249.37	10.42	120.908		
2,500.00	2,499.47	2,521.90	2,521.90	5.31	5.52	-136.73	3.16	1,249.76	1,264.58	1,253.76	10.82	116.871		
											2			
2,600.00		2,600.00	2,599.99	5.50	5.68	-136.87	2.72	1,250.46	1,270.30	1,259.13	11.17	113.714		
2,700.00		2,690.06	2,690.03	5.71	5.85	-136.99	1.51	1,252.39	1,277.23	1,265.70	11.53	110.763		
2,800.00		2,773.98	2,773.88	5.91	6.01	-137.08	-0.28	1,255.28	1,285.40	1,273.52	11.88	108.174		
2,900.00 3,000.00		2,857.74	2,857.51	6.12 6.34	6.17 6.33	-137.13 -137.15	-2.73 -5.81	1,259.19 1,264.14	1,294.80 1,305.41	1,282.56 1,292.82	12.24 12.59	105.813 103.662		
3,000.00	2,990.40	2,941.31	2,940.88	0.34	6.33	-137.15	-5.61	1,204.14	1,303.41	1,292.02	12.35	103.002		
3,100.00	3,098.18	3,024.65	3,023.92	6.55	6.49	-137.15	-9.52	1,270.09	1,317.23	1,304.28	12.95	101.711		
3,200.00	3,197.97	3,120.89	3,119.73	6.77	6.69	-137.12	-14.30	1,277.76	1,329.86	1,316.52	13.35	99.634		
3,300.00	3,297.76	3,220.09	3,218.49	6.99	6.90	-137.09	-19.24	1,285.68	1,342.51	1,328.76	13.76	97.587		
3,400.00	3,397.54	3,319.28	3,317.24	7.21	7.11	-137.06	-24.18	1,293.60	1,355.16	1,340.99	14.17	95.625		
3,500.00	3,497.33	3,418.47	3,416.00	7.44	7.33	-137.03	-29.12	1,301.52	1,367.82	1,353.23	14.59	93.747		
2 000 55	0.507.45	0.517.00	0.544.75	7.00	7.55	407.00	2.2	4 000 4-	4 000 /-	4 005 45	45.00	04.040		
3,600.00		3,517.67	3,514.75	7.66	7.55	-137.00	-34.06	1,309.45	1,380.47	1,365.45	15.01	91.949		
3,700.00		3,616.86	3,613.50	7.89	7.77	-136.97	-38.99	1,317.37	1,393.12	1,377.68	15.44	90.227		
3,800.00		3,716.06	3,712.26	8.12	8.00	-136.94 -136.92	-43.93	1,325.29 1,333.21	1,405.77	1,389.90	15.87	88.579		
		3,815.25	3,811.01	8.35	8.23		-48.87		1,418.42	1,402.12	16.30	87.001		
4,000.00	3,996.26	3,914.45	3,909.77	8.58	8.46	-136.89	-53.81	1,341.13	1,431.08	1,414.34	16.74	85.490		
4,100.00	4,096.05	4,013.64	4,008.52	8.81	8.69	-136.86	-58.75	1,349.06	1,443.73	1,426.55	17.18	84.043		
4,200.00		4,112.83	4,107.27	9.05	8.93	-136.84	-63.69	1,356.98	1,456.38	1,438.76	17.62	82.656		
4,300.00		4,212.03	4,206.03	9.28	9.16	-136.81	-68.63	1,364.90	1,469.04	1,450.97	18.06	81.327		
4,400.00	4,395.41	4,311.22	4,304.78	9.51	9.40	-136.79	-73.57	1,372.82	1,481.69	1,463.18	18.51	80.052		
4,500.00		4,410.42	4,403.53	9.75	9.65	-136.76	-78.51	1,380.74	1,494.35	1,475.39	18.96	78.829		
4,600.00		4,509.61	4,502.29	9.99	9.89	-136.74	-83.44	1,388.67	1,507.00	1,487.59	19.41	77.654		
4,700.00		4,608.80	4,601.04	10.22	10.13	-136.72	-88.38	1,396.59	1,519.65	1,499.80	19.86	76.527		
4,800.00		4,708.00	4,699.80	10.46	10.38	-136.69	-93.32	1,404.51	1,532.31	1,512.00	20.31	75.443		
4,900.00		4,807.19	4,798.55	10.70	10.63	-136.67	-98.26	1,412.43	1,544.96	1,524.20	20.77	74.402		
5,000.00	4,994.13	4,906.39	4,897.30	10.94	10.87	-136.65	-103.20	1,420.35	1,557.62	1,536.40	21.22	73.400		
5,100.00	5,093.91	5,005.58	4,996.06	11.18	11.12	-136.63	-108.14	1,428.28	1,570.28	1,548.60	21.68	72.436		

Anticollision Report

Company: Devon Energy
Project: Eddy County, I
Reference Site: Belloq 11-2 Fe

Eddy County, NM (NAD,83)
Bellog 11-2 Fed State Com

Site Error: 0.00 usft

Bellog 11-2 Fed State Com 521H

Well Error: Reference Wellbore

Reference Well:

Bellog 11-2 Fed State Co 0.00 usft

Reference Wellbore OH Reference Design: Plan #2 Local Co-ordinate Reference:

TVD Reference:

MD Reference:

Survey Calculation Method:

Output errors are at

Database:

Offset TVD Reference:

Well-Belloq 11-2 Fed State Com 521H

3430' GE + 23.5' KB @ 3453.50usft 3430' GE + 23.5' KB @ 3453.50usft

Grid

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

Offset De				tate Com -	Belloq 1	1-2 Fed Sta	ate Com 512H	- OH - Plan					Offset Site Error:	0.00 usft
Survey Prog		AM MWD+HD				ತ್ತಕ ಎ.ಕ. ಕ ಚಿತ್ರಕ ಕ							Offset Well Error:	0.00 usft
Refer Measured	rence Vertical	Offs Measured	et Vertical	Semi Major Reference		Liebaida	the second of the second			Between *	Minimum	Concession		•
Depth	Depth	Depth	Depth	Reference	Offset	Highside Toolface	Offset Wellbo	+E/-W	Between Centres	Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			•
5,200.00	5,193.70	5,104.77	5,094.81	11.42	11.37	-136.60	-113.08	1,436.20	1,582.93	1,560.80	22.14	71.508		-
5,300.00	5,293.49	5,203.97	5,193.57	11.66	11.62	-136.58	-118.02	1,444.12	1,595.59	1,572.99	22.60	70.614		
5,400.00	5,393.27	5,303.16	5,292.32	11.90	11.88	-136.56	-122.96	1,452.04	1,608.24	1,585.19	23.06	69.752		
5,500.00	5,493.06	5,402.36	5,391.07	12.14	12.13	-136.54	-127.89	1,459.96	1,620.90		23.52	68.921		
5,600.00 5,700.00	5,592.85 5,692.63	5,501.55 5,600.75	5,489.83 5,588.58	12.38 12.63	12.38 12.64	-136.52	-132.83	1,467.89	1,633.56	1,609.58	23.98	68.119		
3,700.00	3,092.03	5,000.75	3,300.30	12.03	12.04	-136.50	-137.77	1,475.81	1,646.21	1,621.77	24.44	67.345		
5,800.00	5,792.42	5,699.94	5,687.33	12.87	12.89	-136.48	-142.71	1,483.73	1,658.87	1,633.96	24.91	66.598		
5,900.00	5,892.21	5,799.13	5,786.09	13.11	13.15	-136.46	-147.65	1,491.65	1,671.53	1,646.16	25.37	65.875		
6,000.00	5,991.99	5,898.33	5,884.84	13.35	13.41	-136.44	-152.59	1,499.57	1,684.19	1,658.35	25.84	65.177		
6,100.00	6,091.78	5,997.52	5,983.60	13.60	13.66	-136.42	-157.53	1,507.50	1,696.84	1,670.54	26.31	64.502		
6,200.00	6,191.57	6,096.72	6,082.35	13.84	13.92	-136.40	-162.47	1,515.42	1,709.50	1,682.73	26.77	63.849		
6,300.00	6,291.35	6,195.91	6,181.10	14.08	14.18	-136.39	-167.41	1,523.34	1,722.16	1,694.92	27.24	63.216		
6,400.00	6,391.14	6,295.10	6,279.86	14.33	14.44	-136.37	-172.34	1,531.26	1,734.82	1,707.11	27.71	62.603		
6,500.00	6,490.92	6,394.30	6,378.61	14.57	14.70	-136.35	-177.28	1,539.18	1,747.48	1,719.30	28.18	62.010		
6,600.00	6,590.71	6,493.49	6,477.37	14.82	14.96	-136.33	-182.22	1,547.11	1,760.14	1,731.49	28.65	61.435		
6,700.00	6,690.50	6,592.69	6,576.12	15.06	15.22	-136.31	-187.16	1,555.03	1,772.80	1,743.67	29.12	60.877		
6,800.00	6,790.28	6,691.88	6,674.87	45.24	15.48	126.20	400.40	1.500.05	4 705 45	4 700 00	20.50	60.000		
6,900.00	6,890.07	6,791.88	6,773.63	15.31 15.55	15.48	-136.30 -136.28	-192.10 -197.04	1,562.95 1,570.87	1,785.45 1,798.11	1,755.86	29.59	60.336		
7,000.00	6,989.86	6,890.27	6,872.38	15.80	16.00	-136.26	-201.98	1,578.79	1,810.77	1,768.05 1,780.24	30.06 30.54	59.811 59.301		
7,100.00	7,089.64	6,989.46	6,971.13	16.04	16.26	-136.25	-206.92	1,586.72	1,823.43	1,792.42	31.01	58.806		
7,200.00	7,189.43	7,088.66	7,069.89	16.29	16.52	-136.23	-211.86	1,594.64	1,836.09	1,804.61	31.48	58.324		
									,					
7,300.00	7,289.22	7,187.85	7,168.64	16.53	16.78	-136.22	-216.79	1,602.56	1,848.75	1,816.80	31.95	57.857		
7,400.00	7,389.00	7,287.05	7,267.40	16.78	17.04	-136.20	-221.73	1,610.48	1,861.41	1,828.98	32.43	57.402		
7,500.00	7,488.79	7,386.24	7,366.15	17.03	17.31	-136.18	-226.67	1,618.40	1,874.07	1,841.17	32.90	56.960		
7,600.00	7,588.62	7,485.49	7,464.96	17.25	17.57	-136.23	-231.61	1,626.33	1,886.24	1,852.88	33.36	56.549		
7,700.00	7,688.53	7,609.86	7,588.84	17.44	17.87	-136.23	-237.44	1,635.68	1,896.74	1,862.90	33.85	56.041		
7,800.00	7,788.50	7,748.51	7,727.17	17.62	18.15	-136.20	-242.32	1,643.50	1,904.08	1,869.75	34.33	55.465		
7,900.00	7,888.50	7,887.62	7,866.16	17.81	18.42	89.86	-245.44	1,648.50	1,908.13	1,873.33	34.81	54.821		
8,000.00	7,988.50	8,026.95	8,005.46	18.00	18.67	89.90	-246.77	1,650.64	1,909.66	1,874.40	35.26	54.155		
8,100.00	8,088.50	8,136.48	8,115.00	18.19	18.88	89.90	-246.82	1,650.72	1,909.72	1,874.06	35.67	53.543		
8,200.00	8,188.50	8,236.48	8,215.00	18.38	19.07	89.90	-246.82	1,650.72	1,909.72	1,873.67	36.06	52.966		
8,300.00	8,288.50	8,336.53	8,315.05	18.57	19.26	89.90	-246.81	1,650.72	1,909.72	1,873.28	36.45	52.399		
8,398.66	8,387.16	8,435.68	8,413.66	18.75	19.42	89.63	-237.74	1,650.66	1,909.70	1,872.89	36.81	51.884		
8,400.00	8,388.50	8,437.00	8,414.96	18.76	19.42	89.63	-237.50	1,650.66	1,909.70	1,872.89	36.81	51.877		
8,500.00	8,488.47	8,531.84	8,506.41	18.94	19.54	89.27	-212.84	1,650.50	1,909.87	1,872.74	37.13	51.440		
8,600.00	8,587.21	8,621.98	8,588.47	19.10	19.62	88.48	-175.73	1,650.26	1,910.42	1,873.05	37.37	51.119		
0.700.00	0.004.04	0.700.00	0.004.40	40.04	40.07									
8,700.00	8,681.84	8,708.90	8,661.13	19.21	19.67	87.74	-128.19	1,649.96	1,911.27	1,873.71	37.56	50.885		
8,800.00 8,900.00	8,769.49 8,847.49	8,793.19 8,875.37	8,723.96 8,776.66	19.30	19.71 19.72	87.07	-72.12	1,649.60 1,649.19	1,912.33	1,874.60	37.73	50.683		
9,000.00	8,913.48	8,955.90	8,819.04	19.35 19.39	19.72	86.46 85.95	-9.15 59.24	1,648.75	1,913.47 1,914.58	1,875.54 1,876.38	37.93 38.21	50.445 50.112		
9,100.00	8,965.45	9,035.17	8,851.00	19.43	19.75	85.54	131.71	1,648.29	1,915.57	1,876.96	38.60	49.620		
		-,-==						.,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	., 5.50	22.30			
9,200.00	9,001.82	9,113.53	8,872.48	19.63	19.86	85.24	207.01	1,647.81	1,916.33	1,877.18	39.15	48.943		
9,300.00	9,021.48	9,191.31	8,883.44	20.05	20.15	85.07	283.94	1,647.31	1,916.81	1,876.94	39.87	48.075		
9,400.00	9,025.05	9,278.81	8,884.93	20.57	20.61	85.01	371.41	1,646.75	1,916.95	1,876.14	40.81	46.972		
9,500.00	9,025.21	9,378.81	8,884.78	21.20	21.25	85.00	471.41	1,646.11	1,916.98	1,874.95	42.03	45.611		
9,600.00	9,025.36	9,478.81	8,884.63	21.93	21.98	85.00	571.41	1,645.47	1,917.00	1,873.55	43.46	44.114		
9,700.00	9,025.51	9,578.81	8,884.48	22.75	22.80	84.99	671.41	1,644.82	1,917.03	1,871.95	45.07	42.531		
9,800.00	9,025.66	9,678.81	8,884.32	23.66	23.70	84.98	771.40	1,644.18	1,917.05	1,870.19	46.87	40.906		
9,900.00	9,025.81	9,778.81	8,884.17	24.63	24.68	84.97	871.40	1,643.54	1,917.08	1,868.27	48.81	39.276		
10,000.00	9,025.96	9,878.81	8,884.02	25.68	25.72	84.96	971.40	1,642.90	1,917.10	1,866.21	50.89	37.671		
10,100.00	9,026.11	9,978.81	8,883.87	26.78	26.83	84.95	1,071.40	1,642.26	1,917.13	1,864.04	53.09	36.110		
10,200.00	9,026.27	10,078.81	8,883.72	27.94	27.98	84.94	1,171.39	1,641.61	1,917.15	1,861.76	55.40	34.607		

Anticollision Report

Company: Devon Energy

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

Belloq 11-2 Fed State Com

Site Error:

0.00 usft

Reference Well: Bellog 11-2 Fed State Com 521H

Well Error: Reference Wellbore 0.00 usft

ОН Plan #2 Reference Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well Bellog 11-2 Fed State Com 521H

3430' GE + 23.5' KB @ 3453.50usft 3430' GE + 23.5' KB @ 3453.50usft

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

										2.5			Official Mail Engage	0.00
urvey Progr Refere		DH+DWM MAE Offs		Semi Major	Axis	4	e de la companya de La companya de la co		Diet	ance		4. 4.	Offset Well Error:	0.00 us
neasured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor		Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth -	Depth			Toolface	+N/-S	+E/-W	Centres -	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°).	(usft)	(usft)	(usft)	(usft)	(usft)			
10,300.00	9,026.42	10,178.81	8,883.57	29.14	29.18	84.93	1,271.39	1,640.97	1,917.18	1,859.38	57.80	33.171		
10,400.00	9,026.57	10,278.81	8,883.42	30.38	30.42	84.92	1,371.39	1,640.33	1,917.20	1,856.93	60.28	31.806		
10,500.00	9,026.72	10,378.81	8,883.27	31.66	31.69	84.91	1,471.39	1,639.69	1,917.23	1,854.40	62.83	30.514		
10,600.00	9,026.87	10,478.81	8,883.11	32.97	33.00	84.91	1,571.38	1,639.04	1,917.26	1,851.81	65.45	29.295		
10,700.00	9,027.02	10,578.81	8,882.96	34.31	34.33	84.90	1,671.38	1,638.40	1,917.28	1,849.16	68.12	28.146		
10,800.00	9,027.17	10,678.81	8,882.81	35.67	35.69	84.89	1,771.38	1,637.76	1,917.31	1,846.46	70.84	27.064		
10,900.00	9,027.33	10,778.81	8,882.66	37.06	37.07	84.88	1,871.37	1,637.12	1,917.33	1,843.72	73.61	26.047		
11,000.00	9,027.48	10,878.81	8,882.51	38.46	38.47	84.87	1,971.37	1,636.48	1,917.36	1,840.94	76.42	25.090		
11,100.00	9,027.63	10,978.81	8,882.36	39.89	39.89	84.86	2,071.37	1,635.83	1,917.39	1,838.13	79.26	24.191		
11,200.00	9,027.78	11,078.81	8,882.21	41.33	41.33	84.85	2,171.37	1,635.19	1,917.41	1,835.28	82.13	23.345		
11,300.00	9,027.93	11,178.81	8,882.05	42.78	42.78	84.84	2,271.36	1,634.55	1,917.44	1,832.40	85.04	22.548		
		44.070.04	0.004.00	44.05	44.05	0.4.00	0.074.00	4 622 04	4 047 46	1 000 50	97.00	24 700		
11,400.00	9,028.08	11,278.81	8,881.90	44.25	44.25	84.83	2,371.36	1,633.91	1,917.46 1,917.49	1,829.50 1,826.57	87.96 90.92	21.798 21.091		
11,500.00	9,028.23	11,378.81	8,881.75	45.72 47.21	45.72 47.21	84.82	2,471.36 2,571.36	1,633.27		1,825.57	93.89	20.423		
11,600.00	9,028.39	11,478.80 11,578.80	8,881.60 8,881.45	47.21 48.71	47.21 48.70	84.82 84.81	2,571.36 2,671.35	1,632.62 1,631.98	1,917.52 1,917.54	1,820.66	96.88	19.793		
11,700.00 11,800.00	9,028.54 9,028.69	11,578.80	8,881.45 8,881.30	48.71 50.22	48.70 50.21	84.80	2,671.35	1,631.98	1,917.54	1,817.68	99.89	19.793		
11,000.00	3,020.09	11,070.00	0,001.00	30.22	30.21	U-9.0U	2,771.00	1,001.04	1,517.07	.,511.00	00.00	,5.101		
11,900.00	9,028.84	11,778.80	8,881.15	51.73	51.72	84.79	2,871.35	1,630.70	1,917.60	1,814.68	102.91	18.633		
12,000.00	9,028.99	11,878.80	8,880.99	53.26	53.24	84.78	2,971.35	1,630.05	1,917.62	1,811.67	105.95	18.099		
12,100.00	9,029.14	11,978.80	8,880.84	54.79	54.77	84.77	3,071.34	1,629.41	1,917.65	1,808.65	109.00	17.593		
12,200.00	9,029.30	12,078.80	8,880.69	56.32	56.30	84.76	3,171.34	1,628.77	1,917.68	1,805.61	112.07	17.112		
12,300.00	9,029.45	12,178.80	8,880.54	57.86	57.84	84.75	3,271.34	1,628.13	1,917.70	1,802.56	115.14	16.655		
				==					4 047 70	4 700 50	440.00	40.004		
12,400.00	9,029.60	12,278.80	8,880.39	59.41	59.39	84.74	3,371.34	1,627.49	1,917.73	1,799.50	118.23	16.221		
12,500.00	9,029.75	12,378.80	8,880.24	60.96	60.94	84.73	3,471.33	1,626.84	1,917.76 1,917.78	1,796.43 1,793.36	121.32 124.43	15.807 15.413		
12,600.00 12,700.00	9,029.90 9,030.05	12,478.80 12,578.80	8,880.09 8,879.94	62.52 64.08	62.49 64.05	84.72 84.72	3,571.33 3,671.33	1,626.20 1,625.56	1,917.78	1,790.27	127.54	15.037		
12,700.00	9,030.03	12,678.80	8,879.78	65.64	65.61	84.71	3,771.32	1,624.92	1,917.84	1,787.18	130.66	14.679		
12,000.00	3,030.20	12,010.00	0,075.70	00.04	00.01	04.71	0,771.02	1,024,02	1,517.04	1,707.10	100.00	11.570		
12,900.00	9,030.36	12,778.80	8,879.63	67.21	67.18	84.70	3,871.32	1,624.28	1,917.86	1,784.08	133.78	14.336		
13,000.00	9,030.51	12,878.80	8,879.48	68.78	68.75	84.69	3,971.32	1,623.63	1,917.89	1,780.97	136.92	14.008		
13,100.00	9,030.66	12,978.80	8,879.33	70.35	70.32	84.68	4,071.32	1,622.99	1,917.92	1,777.86	140.05	13.694		
13,200.00	9,030.81	13,078.80	8,879.18	71.93	71.90	84.67	4,171.31	1,622.35	1,917.94	1,774.75	. 143.20	13.394		
13,300.00	9,030.96	13,178.80	8,879.03	73.51	73.48	84.66	4,271.31	1,621.71	1,917.97	1,771.62	146.35	13.106		
13,400.00	9,031.11	13,278.80	8,878.88	75.09	75.06	84.65	4,371.31	1,621.07	1,918.00	1,768.50	149.50	12.829		
13,500.00	9,031.11	13,378.80	8,878.72	76.68	76.64	84.64	4,471.31	1,620.42	1,918.02	1,765.36	152.66	12.564		
13,600.00	9,031.42	13,478.80	8,878.57	78.27	78.23	84.63	4,571.30	1,619.78	1,918.05	1,762.23	155.83	12.309		
13,700.00	9,031.57	13,578.80	8,878.42	79.85	79.82	84.63	4,671.30	1,619.14	1,918.08	1,752.23	158.99	12.064		
13,800.00	9,031.72	13,678.79	8,878.27	81.45	81.41	84.62	4,771.30	1,618.50	1,918.11	1,755.94	162.17	11.828		
	· · · ·													
13,900.00	9,031.87	13,778.79	8,878.12	83.04	83.00	84.61	4,871.30	1,617.85	1,918.13	1,752.79	165.34	11.601		
14,000.00	9,032.02	13,878.79	8,877.97	84.63	84.59	84.60	4,971.29	1,617.21	1,918.16	1,749.64	168.52	11.382		
4,100.00	9,032.17	13,978.79	8,877.82	86.23	86.19	84.59	5,071.29	1,616.57	1,918.19	1,746.49	171.70	11,172		
14,200.00	9,032.32	14,078.79	8,877.67	87.83	87.79	84.58	5,171.29	1,615.93	1,918.22	1,743.33	174.89	10.968		
14,300.00	9,032.48	14,178.79	8,877.51	89.43	89.38	84.57	5,271.29	1,615.29	1,918.24	1,740.17	178.07	10.772		
14 400 00	Ø U33 E3	14 279 70	8 877 26	01.02	an ae	84 55	5 271 20	1 614 64	1 019 27	1 737 04	181.26	10.583		
14,400.00 14,500.00	9,032.63 9,032.78	14,278.79 14,378.79	8,877.36	91.03	90.98 92.59	84.56	5,371.28	1,614.64	1,918.27 1,918.30	1,737.01		10.583		
14,600.00	9,032.78	14,378.79	8,877.21 8,877.06	92.63		84.55 84.54	5,471.28 5,571.28	1,614.00	•	1,733.84 1,730.67	184.46 187.65	10.400		
4,700.00	9,032.93	14,478.79	8,876.91	94.23 95.84	94.19 95.79	84.54 84.54	5,571.28 5,671.27	1,613.36 1,612.72	1,918.33 1,918.35	1,730.67	190.85	10.223		
14,800.00	9,033.23	14,578.79	8,876.76	95.64 97.45	95.79	84.53	5,771.27	1,612.72	1,918.38	1,724.33	194.05	9.886		
.~,000.00	a,uaa.23	17,010.19	0,010.10	87.45	31.40	04.00	J,//1.2/	1,012.08	1,310.36	1,124.33	194.00	3.000		
14,900.00	9,033.38	14,778.79	8,876.61	99.05	99.01	84.52	5,871.27	1,611.43	1,918.41	1,721.16	197.25	9.726		
15,000.00	9,033.54	14,878.79	8,876.45	100.66	100.61	84.51	5,971.27	1,610.79	1,918.44	1,717.98	200.46	9.570		
15,100.00	9,033.69	14,978.79	8,876.30	102.27	102.22	84.50	6,071.26	1,610.15	1,918.47	1,714.80	203.66	9.420		
15,200.00	9,033.84	15,078.79	8,876.15	103.88	103.83	84.49	6,171.26	1,609.51	1,918.49	1,711.62	206.87	9.274		
15,300.00	9,033.99	15,178.79	8,876.00	105.49	105.44	84.48	6,271.26	1,608.87	1,918.52	1,708.44	210.08	9.132	•	

Anticollision Report

Devon Energy Local Co-ordinate Reference: Well Belloq 11-2 Fed State Com 521H Company: Project: Eddy County, NM (NAD-83) TVD Reference: 3430' GE + 23.5' KB @ 3453.50usft -3430' GE + 23.5' KB @ 3453.50usft Reference Site: Bellog 11-2 Fed State Com MD Reference: 0.00 usft North Reference: Site Error: Reference Well: Belloq 11-2 Fed State Com 521H 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: Plan #2 Offset TVD Reference: Offset Datum Reference Design:

Offset De	_	**************************************			ئوس ومحملستانوسي	1-2 Fed St	ate Com 512H -	OH - Plan	#1				Offset	Site Error:	0.00 usft
Survey Prog	5 .	AM MWD+HD		a - 1 - 1 - 1 - 1		r 4		e de areas		A STABLES		1 3	Offset	Well Error:	0.00 usf
Refer		Offse		Semi Major			· A profile		Dista			1	ing the second	9	V 1 2
Measured Depth	Vertical Depth	Measured, Depth ~-	Vertical Depth	Referênce	Offset	Highside Toolface	Offset Wellbon	e Centre +E/-W	Between: Centres	Between Ellipses	Minimum Separation	Separation Factor		Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	1 1 6 6		100	- i
15,500.00	9,034.29	15,378.79	8,875.70	108.72	108.67	84.46	6,471.25	1,607.58	1,918.58	1,702.08	216.50	8.862			
15,600.00	9,034.45	15,478.79	8,875.55	110.33	110.28	84.45	6,571.25	1,606.94	1,918.61	1,698.89	219.72	8.732			
15,700.00	9,034.60	15,578.79	8,875.39	111.94	111.89	84.45	6,671.25	1,606.30	1,918.63	1,695.70	222.93	8.606			
15,800.00	9,034.75	15,678.79	8,875.24	113.56	113.51	84.44	6,771.25	1,605.65	1,918.66	1,692.51	226.15	8.484			
15,900.00	9,034.90	15,778.79	8,875.09	115.18	115.12	84.43	6,871.24	1,605.01	1,918.69	1,689.32	229.37	8.365			
16,000.00	9,035.05	15,878.78	8,874.94	116.79	116.74	84.42	6,971.24	1,604.37	1,918.72	1,686.13	232.59	8.249			
16,100.00	9,035.20	15,978.78	8,874.79	118.41	118.35	84.41	7,071.24	1,603.73	1,918.75	1,682.94	235.81	8.137			
16,200.00	9,035.35	16,078.78	8,874.64	120.03	119.97	84.40	7,171.24	1,603.09	1,918.78	1,679.75	239.03	8.027			
16,300.00	9,035.51	16,178.78	8,874.49	121.64	121.59	84.39	7,271.23	1,602.44	1,918.80	1,676.55	242.25	7.921			
16,400.00	9,035.66	16,278.78	8,874.34	123.26	123.21	84.38	7,371.23	1,601.80	1,918.83	1,673.36	245.47	7.817			
16,500.00	9,035.81	16,378.78	8,874.18	124.88	124.83	84.37	7,471.23	1,601.16	1,918.86	1,670.16	248.70	7.716			
16,600.00	9,035.96	16,478.78	8,874.03	126.50	126.45	84.36	7,571.22	1,600.52	1,918.89	1,666.97	251.92	7.617			
16,700.00	9,036.11	16,578.78	8,873.88	128.12	128.07	84.36	7,671.22	1,599.88	1,918.92	1,663.77	251.92	7.521			
16,800.00	9,036.26	16,678.78	8,873.73	129.74	129.69	84.35	7,771.22	1,599.00	1,918.95	1,660.57	258.38	7.521			
16,900.00	9,036.41	16,778.78	8,873.58	131.37	131.31	84.34	7,871.22	1,598.59	1,918.98	1,657.37	261.61	7.427			
17,000.00	9,036.57	16,878.78	8,873.43	132.99	132.93	84.33	7,971.21	1,597.95	1,919.01	1,654.17	264.84	7.246			
17,000.00	0,000.07	10,010.70	0,010.40	102.00	102.00	04.50	7,371.21	1,557.55	1,313.01	1,004.17	204.04	1.240			
17,100.00	9,036.72	16,978.78	8,873.28	134.61	134.55	84.32	8,071.21	1,597.31	1,919.03	1,650.97	268.07	7.159			
17,200.00	9,036.87	17,078.78	8,873.12	136.23	136.17	84.31	8,171.21	1,596.66	1,919.06	1,647.77	271.30	7.074			
17,300.00	9,037.02	17,178.78	8,872.97	137.86	137.80	84.30	8,271.21	1,596.02	1,919.09	1,644.57	274.53	6.991			
17,400.00	9,037.17	17,278.78	8,872.82	139.48	139.42	84.29	8,371.20	1,595.38	1,919.12	1,641.36	277.76	6.909			
17,500.00	9,037.32	17,378.78	8,872.67	141.10	141.04	84.28	8,471.20	1,594.74	1,919.15	1,638.16	280.99	6.830			
17,600.00	9,037.47	17,478.78	8,872.52	142.73	142.67	84.27	8,571.20	1,594.10	1,919.18	1,634.96	284.22	6.752			
17,700.00	9,037.63	17,578.78	8,872.37	144.35	144.29	84.27	8.671.20	1,593.45	1,919.21	1,631.75	287.46	6.676			
17,800.00	9,037.78	17,678.78	8,872.22	145.98	145.92	84.26	8,771.19	1,592.81	1,919.24	1,628.55	290.69	6.602			
17,900.00	9,037.93	17,778.78	8,872.06	147.60	147.54	84.25	8,871.19	1,592.17	1,919.27	1,625.34	293.93	6.530			
18,000.00	9,038.08	17,878.78	8,871.91	149.23	149.17	84.24	8,971.19	1,591.53	1,919.30	1,622.13	297.16	6.459			
40.400.00	0.000.00	47.070.70	0.074.70	450.05	450.70		0.074.40	. 500.00	4 646 66			,			
18,100.00	9,038.23 9,038.38	17,978.78	8,871.76	150.85	150.79	84.23	9,071.19	1,590.89	1,919.33	1,618.93	300.40	6.389			
18,200.00 18,300.00	9,038.54	18,078.77 18,178.77	8,871.61 8,871.46	152.48	152.42 154.04	84.22 84.21	9,171.18	1,590.24	1,919.36	1,615.72	303.63	6.321			
				154.11			9,271.18	1,589.60	1,919.38	1,612.51	306.87	6.255			
18,400.00 18,500.00	9,038.69 9,038.84	18,278.77 18,378.77	8,871.31 8,871.16	155.73 157.36	155.67 157.30	84.20 84.19	9,371.18 9,471.17	1,588.96 1,588.32	1,919.41 1,919.44	1,609.31 1,606.10	310.11 313.35	6.189 6.126			
10,500.00	5,030.04	10,370.77	0,071.10	157.30	157.50	04.13	9,471.17	1,300.32	1,919.44	1,000.10	313.33	0.120			
18,600.00	9,038.99	18,478.77	8,871.01	158.99	158.92	84.18	9,571.17	1,587.68	1,919.47	1,602.89	316.58	6.063			
18,700.00	9,039.14	18,578.77	8,870.85	160.61	160.55	84.18	9,671.17	1,587.03	1,919.50	1,599.68	319.82	6.002			
18,800.00	9,039.29	18,678.77	8,870.70	162.24	162.18	84.17	9,771.17	1,586.39	1,919.53	1,596.47	323.06	5.942			
18,900.00	9,039.44	18,778.77	8,870.55	163.87	163.81	84.16	9,871.16	1,585.75	1,919.56	1,593.26	326.30	5.883			
19,000.00	9,039.60	18,878.77	8,870.40	165.50	165.44	84.15	9,971.16	1,585.11	1,919.59	1,590.05	329.54	5.825			
19,100.00	9,039.75	18,978.77	8,870.25	167.13	167.06	84.14	10,071.16	1,584.46	1,919.62	1,586.84	332.78	5.768			
19,200.00	9,039.90	19,078.77	8,870.10	168.76	168.69	84.13	10,171.16	1,583.82	1,919.65	1,583.63	336.02	5.713			
19,200.00	9,039.90	19,078.77	8,870.10	168.76	168.69	84.13	10,171.16	1,583.82	1,919.65	1,583.63	336.02	5.713			
19,267.22	9,040.00	19,142.98	8,870.00	169.60	169.74	84.12	10,235.36	1,583.41	1,919.67	1,585.77	337.90	5.681 S	SF.		

Anticollision Report

Company: Devon Energy

Project: Eddy County, NM (NAD-83)
Reference Site: Belloq 11-2 Fed State Com

Site Error:

0.00 usft

Reference Well: Belloq 11-2 Fed State Com 521H

Well Error: Reference Wellbore Reference Design: 0.00 usft OH Plan #2 Local Co-ordinate Reference:

TVD Reference:

North Reference:

Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well Belloq 11-2 Fed State Com 521H

3430' GE + 23.5' KB @ 3453.50usft 3430' GE + 23.5' KB @ 3453.50usft

Grid

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

urvey Prog		AM MWD+HD	GIVI					4					Offset Well Error:	 0:00 u
Refer				Semi Major	Axis				Dista	ince .	7.			
leasured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore	e Centre +E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	t gette
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	·	· · · · · · · · · · · · · · · · · · ·	
0.00	0.00	25.60	25.60	0.00	0.02	89.86	3.08	1,219.77	1,219.77					
100.00	100.00	125.60	125.60	0.09	0.14	89.86	3.08	1,219.77	1,219.77	1,219.54	0.23	5,315.235		
200.00	200.00	225.60	225.60	0.31	0.37	89.86	3.08	1,219.77	1,219.77	1,219.09	0.68	1,796.378		
300.00	300.00	325.60	325.60	0.54	0.59	89.86	3.08	1,219.77	1,219.77	1,218.65	1.13	1,080.832		
400.00	400.00	425.60	425.60	0.76	0.82	89.86	3.08	1,219.77	1,219.77	1,218.20	1.58	772.947		
500.00	500.00	525.60	525.60	0.99	1.04	89.86	3.08	1,219.77	1,219.77	1,217.75	2.03	601.581		
600.00	600.00	625.60	625.60	1.21	1.27	89.86	3.08	1,219.77	1,219.77	1,217.30	2.48	492.411		
700.00	700.00	725.60	725.60	1.43	1.49	89.86	3.08	1,219.77	1,219.77	1,216.85	2.93	416.778		
800.00	800.00	825.60	825.60	1.66	1.72	89.86	3.08	1,219.77	1,219.77	1,216.40	3.38	361.285		
900.00	900.00	925.60	925.60	1.88	1.94	89.86 .	3.08	1,219.77	1,219.77	1,215.95	3.83	318.833		
1,000.00	1,000.00	1,025.60	1,025.60	2.11	2.17	89.86	3.08	1,219.77	1,219.77	1,215.50	4.28	285.309		
											. =-			
1,100.00	1,100.00	1,125.60	1,125.60	2.33	2.39	89.86	3.08	1,219.77	1,219.77	1,215.05	4.72	258.164		
1,200.00	1,200.00	1,225.60	1,225.60	2.56	2.62	89.86	3.08	1,219.77	1,219.77	1,214.60	5.17	235.735		
1,300.00	1,300.00	1,325.60	1,325.60	2.78	2.84	89.86	3.08	1,219.77	1,219.77	1,214.15	5.62	216.892		
1,400.00	1,400.00	1,425.60	1,425.60	3.01	3.07	89.86	3.08	1,219.77	1,219.77	1,213.70	6.07	200.839		
1,500.00	1,500.00	1,525.60	1,525.60	3.23	3.29	89.86	3.08	1,219.77	1,219.77	1,213.25	6.52	186.998		
1 600 00	1 600 00	1 625 60	1,625.60	3.46	3.52	89.86	3.08	1,219.77	1,219.77	1,212.80	6.97	174.942		
1,600.00	1,600.00	1,625.60			3.74		3.08	1,219.77	1,219.77		7.42	164.346		
1,700.00	1,700.00	1,725.60	1,725.60	3.68 3.91	3.74	89.86	3.08	1,219.77	1,219.77	1,211.90	7.42	154.960		
1,800.00	1,800.00	1,825.60	1,825.60			89.86	3.08	1,219.77	1,219.77	1,211.45	8.32	146.589		
1,900.00	1,900.00	1,925.60	1,925.60	4.13	4.19	89.86	3.08	1,219.77	1,219.77	1,211.43	8.77	139.075 CC		
2,000.00	2,000.00	2,025.60	2,025.60	4.36	4.41	89.86	3.06	1,219.77	1,219.77	1,211.00	0.77	139.073 CC		
2,100.00	2,099.99	2,125.59	2,125.59	4.56	4.64	-136.18	3.08	1,219.77	1,220.40	1,211.21	9.20	132.719		
2,200.00	2,199.96	2,225.56	2,225.56	4.74	4.86	-136.25	3.08	1,219.77	1,222.29	1,212.70	9.60	127.340		
2,300.00	2,299.86	2,325.46	2,325.46	4.92	5.09	-136.37	3.08	1,219.77	1,225.45	1,215.44	10.01	122.473		
2,400.00	2,399.68	2,425.28	2,425.28	5.11	5.31	-136.55	3.08	1,219.77	1,229.84	1,219.42	10.42	118.057		
2,500.00	2,499.47	2,529.02	2,529.02	5.31	5.54	-136.76	3.02	1,219.72	1,234.55	1,223.72	10.83	113.957		
2,500.00	2,400.47	2,520.52	L,OLO.OL	0.01	0.04	.00.75	5.52	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,20	.,				
2,600.00	2,599.25	2,644.69	2,644.67	5.50	5.76	-136.94	1.65	1,218.64	1,238.36	1,227.12	11.25	110.116		
2,700.00	2,699.04	2,760.54	2,760.45	5.71	5.96	-137.03	-1.56	1,216.09	1,240.90	1,229.25	11.65	106.550		
2,800.00	2,798.82	2,875.24	2,874.97	5.91	6.17	-137.04	-6.54	1,212.15	1,242.16	1,230.11	12.05	103.079		
2,900.00	2,898.61	2,975.24	2,974.76	6.12	6.36	-137.01	-11.57	1,208.17	1,242.87	1,230.43	12.44	99.907		
3,000.00	2,998.40	3,075.23	3,074.55	6.34	6.55	-136.99	-16.59	1,204.19	1,243.58	1,230.74	12.84	96.883		
3,100.00	3,098.18	3,175.23	3,174.35	6.55	6.75	-136.97	-21.62	1,200.21	1,244.29	1,231.06	13.24	93.999		
3,200.00	3,197.97	3,275.23	3,274.14	6.77	6.95	-136.94	-26.64	1,196.23	1,245.01	1,231.36	13.64	91.248		
3,300.00	3,297.76	3,375.22	3,373.93	6.99	7.15	-136.92	-31.66	1,192.25	1,245.72	1,231.66	14.06	88.627		
3,400.00	3,397.54	3,475.22	3,473.72	7.21	7.35	-136.90	-36.69	1,188.27	1,246.43	1,231.96	14.47	86.128		
3,500.00	3,497.33	3,575.21	3,573.51	7.44	7.56	-136.88	-41.71	1,184.30	1,247.14	1,232.25	14.89	83.746		
0.000.00	0.507.45	0.075.0	0.070.00	7.00		400.05	10.70	4 400 00	1047.00	4 200 5 :	45.00	04 474		
3,600.00	3,597.12	3,675.21	3,673.30	7.66	7.77	-136.85	-46.73	1,180.32	1,247.86	1,232.54	15.32	81.474		
3,700.00	3,696.90	3,775.21	3,773.09	7.89	7.98	-136.83	-51.76	1,176.34	1,248.57	1,232.83	15.74	79.308		
3,800.00	3,796.69	3,875.20	3,872.88	8.12	8.20	-136.81	-56.78	1,172.36	1,249.28	1,233.11	16.17	77.241		
3,900.00	3,896.48	3,975.20	3,972.67	8.35	8.41	-136.78	-61.81	1,168.38	1,250.00	1,233.39	16.61	75.268		
4,000.00	3,996.26	4,075.20	4,072.46	8.58	8.63	-136.76	-66.83	1,164.40	1,250.71	1,233.67	17.04	73.384		
4 100 00	4,096.05	A 175 10	4 172 2F	0.04	0.05	136 74	71 OF	1 160 42	1 251 42	1 222 04	17 40	71 592		
4,100.00		4,175.19	4,172.25	8.81	8.85	-136.74	-71.85	1,160.42	1,251.43	1,233.94	17.48	71.583		
4,200.00	4,195.84	4,275.19	4,272.04	9.05	9.07	-136.72	-76.88	1,156.44	1,252.14	1,234.22	17.92	69.862		
4,300.00	4,295.62	4,375.18	4,371.83	9.28	9.30	-136.69	-81.90	1,152.47	1,252.85	1,234.49	18.37	68.215		
4,400.00	4,395.41	4,475.18	4,471.62	9.51	9.52	-136.67	-86.92	1,148.49	1,253.57	1,234.76	18.81	66.638		
4,500.00	4,495.19	4,575.18	4,571.41	9.75	9.75	-136.65	-91.95	1,144.51	1,254.28	1,235.03	19.26	65.128		
4 600 00	4 504 00	4 675 47	4 674 00	0.00	0.07	120.00	00.07	1 140 50	1 055 00	1 225 22	10.74	62 604		
4,600.00	4,594.98	4,675.17	4,671.20	9.99	9.97	-136.63	-96.97	1,140.53	1,255.00	1,235.29	19.71	63.681		
4,700.00	4,694.77	4,775.17	4,771.00	10.22	10.20	-136.60	-102.00	1,136.55	1,255.72	1,235.56	20.16	62.293		
4,800.00	4,794.55	4,875.17	4,870.79	10.46	10.43	-136.58	-107.02	1,132.57	1,256.43	1,235.82	20.61	60.962		
4,900.00	4,894.34	4,975.16	4,970.58	10.70	10.66	-136.56	-112.04	1,128.59	1,257.15	1,236.08	21.06	59.683		
5,000.00	4,994.13	5,075.16	5,070.37	10.94	10.89	-136.54	-117.07	1,124.61	1,257.86	1,236.34	21.52	58.455		

Anticollision Report

Well Bellog 11-2 Fed State Com 521H Cômpanỳ: Devon Energy Local Co-ordinate Reference: Eddy County, NM (NAD-83) 3430' GE + 23.5' KB @ 3453.50usft Project: TVD Reference: Bellog 11-2 Fed State Com MD Reference: 3430' GE + 23.5' KB @ 3453.50usft Reference Site: Site Error: 0.00 usft North Reference: Reference Well: Belloq 11-2 Fed State Com 521H Survey Calculation Method: Minimum Curvature Well Error: 0.00 usft Output errors are at 2.00 sigma Reference Wellbore ОН EDM 5000.1 Multi User Db Database: Plan #2 Offset Datum Reference Design: Offset TVD Reference:

Offset De				state Com -	Belloq I	1-2 red Sta	ate Com 522H - (JH - Plan	#4			لبببا	Offset Site Error:	0.00 usft
Survey Progr Refer		DH+DWM MA		Camil Majas	.	ilmorrania Garante			. Diete				Offset Well Error:	0.00 usft
Measured	Vertical	Offs Measured	et	Semi Major Reference		~ Highside	Offset Wellbore	Centre	Between	nce Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	intar Politica		Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	warning	4/ 34
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		<u> Herri (a. 1941)</u>	
5,200.00	5,193.70	5,275.15	5,269.95	11.42	11.35	-136.49	-127.11	1,116.66	1,259.30	1,236.86	22.43	56.139		
5,300.00	5,293.49	5,375.15	5,369.74	11.66	11.59	-136.47	-132.14	1,112.68	1,260.01	1,237.12	22.89	55.046		
5,400.00	5,393.27	5,475.14	5,469.53	11.90	11.82	-136.45	-137.16	1,108.70	1,260.73	1,237.38	23.35	53.993		
5,500.00	5,493.06	5,575.14	5,569.32	12.14	12.06	-136.42	-142.19	1,104.72	1,261.45	1,237.63	23.81	52.979		
5,600.00 5,700.00	5,592.85 5,692.63	5,675.13 5,775.13	5,669.11 5,768.90	12.38 12.63	12.29	-136.40	-147.21	1,100.74	1,262.16	1,237.89	24.27	52.001		
3,700.00	3,032.03	5,775.15	3,700.90	12.03	12.53	-136.38	-152.23	1,096.76	1,262.88	1,238.15	24.73	51.058		
5,800.00	5,792.42	5,875.13	5,868.69	12.87	12.76	-136.36	-157.26	1,092.78	1,263.60	1,238.40	25.20	50.148		
5,900.00	5,892.21	5,975.12	5,968.48	13.11	13.00	-136.33	-162.28	1,088.80	1,264.31	1,238.65	25.66	49.269		
6,000.00	5,991.99	6,075.12	6,068.27	13.35	13.24	-136.31	-167.30	1,084.83	1,265.03	1,238.91	26.13	48.420		
6,100.00	6,091.78	6,175.12	6,168.06	13.60	13.47	-136.29	-172.33	1,080.85	1,265.75	1,239.16	26.59	47.600		
6,200.00	6,191.57	6,275.11	6,267.86	13.84	13.71	-136.27	-177.35	1,076.87	1,266.47	1,239.41	27.06	46.806		
6,300.00	6,291.35	6,375.11	6,367.65	14.08	13.95	-136.24	-182.38	1,072.89	1,267.19	1,239.66	27.52	46.038		
6,400.00	6,391.14	6,475.10	6,467.44	14.33	14.19	-136.24	-187.40	1,068.91	1,267.19		27.52	45.295		
6,500.00	6,490.92	6,575.10	6,567.23	14.57	14.43	-136.22	-192.42	1,064.93	1,268.63	1,239.91 1,240.16	28.46	45.295		
6,600.00	6,590.71	6,675.10	6,667.02	14.82	14.43	-136.20	-192.42 -197.45	1,064.93	1,268.63	1,240.16	28.93	43.878		
6,700.00	6,690.50	6,775.09	6,766.81	15.06	14.91	-136.16	-202.47	1,056.97	1,270.06	1,240.42	29.40			
.,	_,	-,	-,1	.5.50		.00.70	202	.,500.01	.,, 5.50	.,70.01	20.40	.0.202		
6,800.00	6,790.28	6,875.09	6,866.60	15.31	15.15	-136.13	-207.49	1,053.00	1,270.78	1,240.92	29.87	42.547		
6,900.00	6,890.07	6,975.09	6,966.39	15.55	15.39	-136.11	-212.52	1,049.02	1,271.50	1,241.16	30.34	41.911		
7,000.00	6,989.86	7,075.08	7,066.18	15.80	15.63	-136.09	-217.54	1,045.04	1,272.22	1,241.41	30.81	41.295		
7,100.00	7,089.64	7,175.08	7,165.97	16.04	15.87	-136.07	-222.57	1,041.06	1,272.94	1,241.66	31.28	40.696		
7,200.00	7,189.43	7,275.07	7,265.76	16.29	16.11	-136.05	-227.59	1,037.08	1,273.66	1,241.91	31.75	40.114		
7,300.00	7,289.22	7,375.07	7,365.55	16.53	16.35	-136.02	-232.61	1,033.10	1,274.38	1,242.16	32.22	39.549		
7,400.00	7,389.00	7,475.07	7,465.34	16.78	16.60	-136.00	-237.64	1,029.12	1,274.30	1,242.10	32.70	38.999		
7,500.00	7,488.79	7,563.04	7,553.17	17.03	16.78	-136.01	-241.54	1,026.03	1,276.29	1,243.18	33.11	38.544		
7,600.00	7,588.62	7,650.86	7,640.92	17.25	16.95	-136.05	-244.38	1,023.78	1,277.93	1,244.44	33.50	38.148		
7,700.00	7,688.53	7,738.66	7,728.69	17.44	17.12	-136.09	-246.17	1,022.37	1,279.28	1,245.43	33.85	37.788		
									.,	.,				
7,800.00	7,788.50	7,826.45	7,816.48	17.62	17.29	-136.13	-246.90	1,021.79	1,280.33	1,246.13	34.20	37.433		
7,900.00	7,888.50	7,924.08	7,914.10	17.81	17.48	89.86	-246.92	1,021.77	1,280.77	1,246.18	34.59	37.028		
8,000.00	7,988.50	8,024.08	8,014.10	18.00	17.67	89.86	-246.92	1,021.77	1,280.77	1,245.80	34.97	36.620		
8,100.00	8,088.50	8,124.08	8,114.10	18.19	17.86	89.86	-246.92	1,021.77	1,280.77	1,245.41	35.36	36.220		
8,200.00	8,188.50	8,224.08	8,214.10	18.38	18.06	89.86	-246.92	1,021.77	1,280.77	1,245.02	35.75	35.827		
8,300.00	8,288.50	8,324.08	8,314.10	18.57	18.25	89.86	-246.92	1,021.77	1,280.77	1,244.64	36.14	35.441		
8,400.00	8,388.50	8,424.08	8,414.10	18.76	18.45	89.86	-246.92	1,021.77	1,280.77	1,244.24	36.53	35.061		
8,500.00	8,488.47	8,524.45	8,514.43	18.94	18.64	90.21	-245.35	1,021.76	1,280.77	1,243.86	36.91	34.697		
8,600.00	8,587.21	8,625.20	8,613.74	19.10	18.80	90.16	-229.12	1,021.65	1,280.77	1,243.54	37.22	34.408		
8,700.00	8,681.84	8,725.74	8,708.48	19.21	18.92	90.11	-195.86	1,021.44	1,280.76	1,243.31	37.45	34.196		
8,800.00	8,769.49	8,826.06	8,795.78	19.30	19.01	90.05	-146.70	1,021.12	1,280.75	1,243.11	37.64	34.023		
8,900.00	8,847.49	8,926.15	8,873.01	19.35	19.07	89.99	-83.24	1,020.71	1,280.75	1,242.90	37.85	33.839		
9,000.00	8,913.48	9,026.00	8,937.90	19.39	19.14	89.93	-7.51	1,020.21	1,280.74	1,242.61	38.13	33.589		
9,100.00	8,965.45	9,125.63	8,988.58	19.43	19.24	89.88	78.11	1,019.66	1,280.74	1,242.19	38.55	33.223		
9,200.00	9,001.82	9,225.04	9,023.63	19.63	19.53	89.82	171.01	1,019.05	1,280.73	1,241.58	39.15	32.714		
9,300.00	9,021.48	9,324.26	9,042.09	20.05	19.95	89.78	268.37	1,018.42	1,280.73	1,240.77	39.95	32.057		
9,400.00	9,025.05	9,423.73	9,045.07	20.57	20.47	89.75	367.74	1,017.77	1,280.72	1,239.76	40.96	31.266		
9,500.00	9.025.21	9,523.73	9,045.22	21.20	21.10	89.75	467.74	1,017.12	1,280.71	1,238.52	42.19	30.357		
9,600.00	9,025.36	9,623.73	9,045.38	21.93	21.83	89.75	567.73	1,016.47	1,280.70	1,237.08	43.63	29.356		
9,700.00	9,025.51	9,723.73	9,045.54	22.75	22.66	89.75	667.73	1,015.82	1,280.69	1,235.43	45.26	28.297		
-				-	_	-		_	-					
9,800.00	9,025.66	9,823.73	9,045.70	23.66	23.57	89.75	767.73	1,015.17	1,280.68	1,233.62	47.06	27.213		
9,900.00	9,025.81	9,923.73	9,045.86	24.63	24.55	89.75	867.73	1,014.52	1,280.68	1,231.66	49.02	26.126		
10,000.00	9,025.96	10,023.73	9,046.02	25.68	25.60	89.75	967.72	1,013.87	1,280.67	1,229.55	51.11	25.056		
10,100.00	9,026.11	10,123.73	9,046.18	26.78	26.71	89.75	1,067.72	1,013.22	1,280.66	1,227.33	53.32	24.016		
10,200.00	9,026.27	10,223.73	9,046.34	27.94	27.87	89.75	1,167.72	1,012.57	1,280.65	1,225.01	55.64	23.016		
10 200 00	0.006.40	10 202 72	0.040.50	20.41	20.00	00.75	1 207 70	1.044.00	1 200 01	1 222 52	50.05	22.000		
10,300.00	9,026.42	10,323.73	9,046.50	29.14	29.08	89.75	1,267.72	1,011.92	1,280.64	1,222.59	58.05	22.060		

Anticollision Report

Devon Energy Company:

Eddy County, NM (NAD-83) Project: Bellog 11-2 Fed State Com . . . Reference Site:

Site Error: Reference Well: 0.00 usft

Bellog 11-2 Fed State Com 521H

Well Error: Reference Wellbore 0.00 usft

ОН Plan #2 Reference Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well Bellog 11-2 Fed State Com 521H

3430' GE + 23.5' KB @ 3453.50usft 3430' GE + 23.5' KB @ 3453.50usft

Grid

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

urvey Prog	ram, v-Li	EAM MWD+HD	GM	•									Offset Well Error:	0.00 us
Refer	ence	Offse	et ,	Semi Major	Axis		•		Dista	ance				
easured -	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbo	re Centre	Between	Between	Minimum	Separation	Warning	1.1
Depth	Depth-	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	. (usft) ,	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		and was the	• , •
10,400.00	9,026.57	10,423.73	9,046.66	30.38	30.33	89.75	1,367.72	1,011.27	1,280.63	1,220.08	60.55	21.152		
10,500.00	9,026.72	10,523.73	9,046.82	31.66	31.61	89.75	1,467.71	1,010.62	1,280.62	1,217.51	63.11	20.292		
10,600.00	9,026.87	10,623.73	9,046.97	32.97	32.93	89.75	1,567.71	1,009.97	1,280.61	1,214.87	65.74	19.480		
10,700.00	9,027.02	10,723.73	9,047.13	34.31	34.27	89.75	1,667.71	1,009.32	1,280.60	1,212.18	68.42	18.716		
10,800.00	9,027.17	10,823.73	9,047.29	35.67	35.64	89.75	1,767.71	1,008.67	1,280.59		. 71.16	17.997		
10,900.00	9,027.33	10,923.73	9,047.45	37.06	37.03	89.76	1,867.70	1,008.02	1,280.59	1,206.65	73.94	17.320		
44 000 00	0.007.40	11,023.73	0.047.64	20.46	38.44	89.76	1,967.70	1,007.37	1,280.58	1,203.82	76.75	16.684		
11,000.00 11,100.00	9,027.48 9,027.63	11,023.73	9,047.61 9,047.77	38.46 39.89	39.86	89.76	2,067.70	1,007.37	1,280.57	1,200.96	79.61	16.086		
11,200.00	9,027.03	11,123.73	9,047.77	41.33	41.31	89.76	2,167.70	1,006.07	1,280.56		82.49	15.523		
11,300.00	9,027.78	11,323.73	9,048.09	42.78	42.76	89.76	2,267.69	1,005.42	1,280.55		85.41	14.993		
11,400.00	9,027.93	11,423.73	9,048.09	44.25	44.23	89.76	2,367.69	1,004.77	1,280.54	1,192.19	88.35	14.494		
11,400.00	9,020.00	11,425.75	3,040.23	44.25	44.25	03.70	2,007.00	1,004.77	1,200.01	1,102.10	00.00			
11,500.00	9,028.23	11,523.73	9,048.41	45.72	45.72	89.76	2,467.69	1,004.12	1,280.53	1,189.22	91.31	14.024		
11,600.00	9,028.39	11,623.73	9,048.57	47.21	47.21	89.76	2,567.69	1,003.47	1,280.52	1,186.23	94.29	13.580		
11,700.00	9,028.54	11,723.73	9,048.73	48.71	48.71	89.76	2,667.69	1,002.82	1,280.51	1,183.22	97.30	13.161		
11,800.00	9,028.69	11,823.73	9,048.88	50.22	50.22	89.76	2,767.68	1,002.17	1,280.50	1,180.19	100.32	12.765		
11,900.00	9,028.84	11,923.73	9,049.04	51.73	51.74	89.76	2,867.68	1,001.52	1,280.50	1,177.14	103.35	12.390		
												46		
12,000.00	9,028.99	12,023.73	9,049.20	53.26	53.26	89.76	2,967.68	1,000.87	1,280.49		106.40	12.034		
12,100.00	9,029.14	12,123.73	9,049.36	54.79	54.79	89.76	3,067.68	1,000.22	1,280.48		109.47	11.697		
12,200.00	9,029.30	12,223.73	9,049.52	56.32	56.33	89.76	3,167.67	999.57	1,280.47	1,167.93	112.54	11.378		
12,300.00	9,029.45	12,323.73	9,049.68	57.86	57.87	89.76	3,267.67	998.92	1,280.46		115.63	11.074		
12,400.00	9,029.60	12,423.73	9,049.84	59.41	59.42	89.76	3,367.67	998.27	1,280.45	1,161.72	118.73	10.785		
12,500.00	9,029.75	12,523.73	9,050.00	60.96	60.98	89.76	3,467.67	997.62	1,280.44	1,158.61	121.83	10.510		
12,600.00	9,029.75	12,623.73	9,050.16	62.52	62.53	89.76	3,567.67	996.97	1,280.43		124.95	10.248		
12,700.00	9.030.05	12,723.73	9,050.32	64.08	64.10	89.76	3,667.66	996.32	1,280.42		128.07	9.998		
12,800.00	9,030.00	12,823.73	9,050.48	65.64	65.66	89.76	3,767.66	995.67	1,280.41	1,149.21	131.20	9.759		
12,900.00	9,030.26	12,923.73	9,050.40	67.21	67.23	89.76	3,867.66	995.02	1,280.40		134.34	9.531		
12,500.00	9,030.30	12,525.75	3,030.04	07.21	07.23	09.70	3,007.00	333.02	1,200.40	1,140.00	104.04	0.007		
13,000.00	9,030.51	13,023.73	9,050.79	68.78	68.80	89.76	3,967.66	994.37	1,280.40	1,142.91	137.49	9.313		
13,100.00	9,030.66	13,123.73	9,050.95	70.35	70.38	89.76	4,067.65	993.72	1,280.39	1,139.75	140.64	9.104		
13,200.00	9,030.81	13,223.73	9,051.11	71.93	71.96	89.76	4,167.65	993.07	1,280.38	1,136.58	143.80	8.904		
13,300.00	9,030.96	13,323.73	9,051.27	73.51	73.54	89.76	4,267.65	992.42	1,280.37	1,133.41	146.96	8.712		
13,400.00	9,031.11	13,423.73	9,051.43	75.09	75.12	89.76	4,367.65	991.77	1,280.36	1,130.23	150.13	8.529		
					~~ ~.		4 407 05	224.42	4 000 05	4 407 05	450.00	0.252		
13,500.00	9,031.26	13,523.73	9,051.59	76.68	76.71	89.76	4,467.65	991.12	1,280.35		153.30	8.352		
13,600.00	9,031.42	13,623.73	9,051.75	78.27	78.29	89.76	4,567.64	990.47	1,280.34	1,123.87	156.48	8.182		
13,700.00	9,031.57	13,723.73	9,051.91	79.85	79.89	89.76	4,667.64	989.82	1,280.33		159.66	8.019		
13,800.00	9,031.72	13,823.73	9,052.07	81.45	81.48	89.76	4,767.64	989.17	1,280.32		162.84	7.862 7.711		
13,900.00	9,031.87	13,923.73	9,052.23	83.04	83.07	89.77	4,867.64	988.52	1,280.31	1,114.29	166.03	7.711		
14,000.00	9,032.02	14,023.73	9,052.39	84.63	84.67	89.77	4,967.63	987.87	1,280.31	1,111.08	169.22	7.566		
14,100.00	9,032.17	14,123.73	9,052.54	86.23	86.26	89.77	5,067.63	987.22	1,280.30		172.42	7.426		
14,200.00	9,032.32	14,223.73	9,052.70	87.83	87.86	89.77	5,167.63	986.57	1,280.29		175.61	7.290		
14,300.00	9,032.48	14,323.73	9,052.76	89.43	89.46	89.77	5,267.63	985.92	1,280.28		178.82	7.160		
14,400.00	9,032.63	14,423.73	9,053.02	91.03	91.07	89.77	5,367.63	985.27	1,280.27		182.02	7.034		
,	5,50E.00	, .20.10	0,000.02	01.00	31,01	55.77	3,007.03	300,27	.,200.27	.,500.20	.02.02			
14,500.00	9,032.78	14,523.73	9,053.18	92.63	92.67	89.77	5,467.62	984.62	1,280.26	1,095.03	185.23	6.912		
14,600.00	9,032.93	14,623.73	9,053.34	94.23	94.27	89.77	5,567.62	983.97	1,280.25	1,091.82	188.44	6.794		
14,700.00	9,033.08	14,723.73	9,053.50	95.84	95.88	89.77	5,667.62	983.32	1,280.24	1,088.60	191.65	6.680		
14,800.00	9,033.23	14,823.73	9,053.66	97.45	97.49	89.77	5,767.62	982.67	1,280.23		194.86	6.570		
14,900.00	9,033.38	14,923.73	9,053.82	99.05	99.09	89.77	5,867.61	982.02	1,280.22		198.08	6.463		
15,000.00	9,033.54	15,023.73	9,053.98	100.66	100.70	89.77	5,967.61	981.37	1,280.22	1,078.92	201.30	6.360		
15,100.00	9,033.69	15,123.73	9,054.14	102.27	102.31	89.77	6,067.61	980.72	1,280.21	1,075.69	204.52	6.260		
15,200.00	9,033.84	15,223.73	9,054.30	103.88	103.92	89.77	6,167.61	980.07	1,280.20	1,072.46	207.74	6.163	4	
15,300.00	9,033.99	15,323.73	9,054.45	105.49	105.54	89.77	6,267.61	979.42	1,280.19	1,069.23	210.96	6.068		
15,400.00	9,034.14	15,423.73	9,054.61	107.10	107.15	89.77	6,367.60	978.77	1,280.18	1,065.99	214.19	5.977		

Anticollision Report

Company: Devon Energy

Project: Eddy County, NM (NAD-83)
Reference Site: Bellog 11-2 Fed State Com

Site Error: Reference Well: 0.00 usft

Bellog 11-2 Fed State Com 521H

Well Error: Reference Wellbore 0.00 usft

Reference Wellbore OH
Reference Design: Plan #2

Local Co-ordinate Reference:

TVD Reference:

North Reference:

Survey Calculation Method:

Output errors are at

Database:

Offset TVD Reference:

Well Belloq 11-2 Fed State Com 521H

3430' GE + 23.5' KB @ 3453.50usft 3430' GE + 23.5' KB @ 3453.50usft

Grid

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

		AM MWD+HD	GM				A Property of the	* * * * *	4 4 4 4	·			Offset Well Error:	0.00 น
Refere		•	ter	Semi Majo					Dista	ance	5 8 mg - 2 8	1		
easured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between, Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	• • •
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
15,600.00	9,034.45	15,623.73	9,054.93	110.33	110.38	89.77	6,567.60	977.47	1,280.16	1,059.52	220.64	5.802		
15,700.00	9,034.60	15,723.73	9,055.09	111.94	111.99	89.77	6,667.60	976.82	1,280.15	1,056.28	223.87	5.718		
15,800.00	9,034.75	15,823.73	9,055.25	113.56	113.61	89.77	6,767.59	976.17	1,280.14	1,053.04	227.10	5.637		
15,900.00	9,034.90	15,923.73	9,055.41	115.18	115.22	89.77	6,867.59	975.52	1,280.13	1,049.80	230.34	5.558		
16,000.00	9,035.05	16,023.73	9,055.57	116.79	116.84	89.77	6,967.59	974.87	1,280.13	1,046.55	233.57	5.481		
16,100.00	9,035.20	16,123.73	9,055.73	118.41	118.46	89.77	7,067.59	974.22	1,280.12	1,043.31	236.81	5.406		
16,200.00	9,035.35	16,223.73	9,055.89	120.03	120.08	89.77	7,167.59	973.57	1,280.11	1,040.06	240.04	5.333		
16,300.00	9,035.51	16,323.73	9,056.05	121.64	121.69	89.77	7,267.58	972.92	1,280.10	1,036.82	243.28	5.262		
16,400.00	9,035.66	16,423.73	9,056.20	123.26	123.31	89.77	7,367.58	972.27	1,280.09	1,033.57	246.52	5.193		
16,500.00	9,035.81	16,523.73	9,056.36	124.88	124.93	89.77	7,467.58	971.62	1,280.08	1,030.32	249.76	5.125		
16,600.00	9,035.96	16,623.73	9,056.52	126.50	126.55	89.77	7,567.58	970.97	1,280.07	1,027.07	253.00	5.060		
16,700.00	9,036.11	16,723.73	9,056.68	128.12	128.17	89.77	7,667.57	970.32	1,280.06	1,023.82	256.24	4.996		
16,800.00	9,036.26	16,823.73	9.056.84	129.74	129.80	89.78	7,767.57	969.67	1,280.05	1,020.57	259.48	4.933		
16,900.00	9,036.41	16,923.73	9,057.00	131.37	131.42	89.78	7,867.57	969.02	1,280.04	1,017.32	262.73	4.872		
17,000.00	9,036.57	17,023.73	9.057.16	132.99	133.04	89.78	7,967.57	968.37	1,280.04	1,014.06	265.97	4.813		
17,100.00	9,036.72	17,123.73	9,057.32	134.61	134.66	89.78	8,067.57	967.72	1,280.03	1,010.81	269.22	4.755		
17,200.00	9,036.87	17,223.73	9,057.48	136.23	136.29	89.78	8,167.56	967.07	1,280.02	1,007.55	272.47	4.698		
17,300.00	9,037.02	17,323.73	9,057.64	137.86	137.91	89.78	8,267.56	966.42	1,280.02	1,007.33	275,71	4.643		
17,400.00	9,037.17	17,423.73	9,057.80	139.48	139.53	89.78	8,367.56	965.77	1,280.00	1,004.04	278.96	4.588		
17,500.00	9.037.32	17,523.73	9,057.96	141.10	141.16	89.78	8,467.56	965.12	1,279.99	997.78	282.21	4.536		
17,600.00	9,037.47	17,623.73	9,058.11	142.73	142.78	89.78	8,567.55	964.47	1,279.98	994.52	285.46	4.484		
47 700 00	0.007.00	47 700 70	0.050.07	444.05		00.70	0.007.55	200 00	4 870 87	004.00	000 74			
17,700.00	9,037.63	17,723.73	9,058.27	144.35	144.41	89.78	8,667.55	963.82	1,279.97	991.26	288.71	4.433		
17,800.00	9,037.78	17,823.73	9,058.43	145.98	146.03	89.78	8,767.55	963.17	1,279.96	988.00	291.96	4.384		
17,900.00	9,037.93	17,923.73	9,058.59	147.60	147.66	89.78	8,867.55	962.52	1,279.95	984.74	295.21	4.336		
18,000.00 18,100.00	9,038.08 9,038.23	18,023.73 18,123.73	9,058.75 9,058.91	149.23 150.85	149.28 150.91	89.78 89.78	8,967.55 9,067.54	961.87 961.22	1,279.95 1,279.94	981.48 978.22	298.46 301.71	4.288 4.242		
18,200.00	9,038.38	18,223.73	9,059.07	152.48	152.54	89.78	9,167.54	960.57	1,279.93	974. 9 6	304.97	4.197		
18,300.00	9,038.54	18,323.73	9,059.23	154.11	154.16	89.78	9,267.54	959.92	1,279.92	971.70	308.22	4.153		
18,400.00	9,038.69	18,423.73	9,059.39	155.73	155.79	89.78	9,367.54	959.27	1,279.91	968.43	311.48	4.109		
18,500.00	9,038.84	18,523.73	9,059.55	157.36	157.42	89.78	9,467.53	958.62	1,279.90	965.17	314.73	4.067		
18,600.00	9,038.99	18,623.73	9,059.71	158.99	159.05	89.78	9,567.53	957.97	1,279.89	961.91	317.99	4.025		
18,700.00	9,039.14	18,723.73	9,059.87	160.61	160.67	89.78	9,667.53	957.32	1,279.88	958.64	321.24	3.984		
18,785.16	9,039.27	18,808.61	9,060.00	162.00	162.06	89.78	9,752.41	956.77	1,279.87	955.87	324.01	3.950		
18,800.00	9,039.29	18,808.61	9,060.00	162.24	162.06	89.78	9,752.41	956.77	1,279.96	955.79	324.17	3.948 ES	, SF	
18,900.00	9,039.44	18,808.61	9,060.00	163.87	162.06	89.78	9,752.41	956.77	1,285.03	960.87	324.16	3.964		
19,000.00	9,039.60	18,808.61	9,060.00	165.50	162.06	89.78	9,752.41	956.77	1,297.81	975.53	322.28	4.027		
19,100.00	9,039.75	18,808.61	9,060.00	167.13	162.06	89.78	9,752.41	956.77	1,318.07	999.41	318.66	4.136		
19,200.00	9,039.90	18,808.61	9,060.00	168.76	162.06	89.78	9,752.41	956.77	1,345.48	1,031.95	313.53	4.291		
19,267.22	9,040.00	18,808.61	9,060.00	169.60	162.06	89.78	9,752.41	956.77	1,367.70	1,058.51	309.19	4.423		

Anticollision Report

Company:

Devon Energy

Project:

Eddy County, NM (NAD-83) Bellog 11-2 Fed State Com

Reference Site:

Site Error: Reference Well: 0.00 usft Belloq 11-2 Fed State Com 521H

0.00 usft

Well Error: Reference Wellbore Reference Design:

ОН Plan #2 Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well Belloq 11-2 Fed State Com 521H

3430' GE + 23.5' KB @ 3453.50usft

3430' GE + 23.5' KB @ 3453.50usft

Grid

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

Offset De urvey Prog	-	Belloq 2		H - OH - OI MWD+HDGM,		ect	-			3.44			Offset Site Error: Offset Well Error:	0.00 us
Refer	ence	. Offse	et	Semi Major	Axis		* *		Dista	nce		1 2 4 5	. *	
leasured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	* *
17,700.00	9,037.63	9,053.58	9,051.48	144.35	17.57	90.43	10,057.66	1,023.23	1,936.39	1,814.77	121.61	15.922		
17,800.00	9,037.78	9,054.74	9,052.64	145.98	17.58	90.48	10,057.66	1,023.21	1,865.91	1,739.56	126.35	14.768		
17,900.00	9,037.93	9,055.86	9,053.76	147.60	17.58	90.52	10,057.67	1,023.19	1,798.24	1,666.94	131.30	13.696		
18,000.00	9,038.08	9,056.95	9,054.85	149.23	17.58	90.57	10,057.68	1,023.17	1,733.69	1,597.26	136.43	12.707		
18,100.00	9,038.23	9,058.01	9,055.91	150.85	17.58	90.62	10,057.69	1,023.15	1,672.63	1,530.91	141.73	11.802		
18,200.00	9,038.38	9,059.03	9,056.93	152.48	17.58	90.66	10,057.69	1,023.14	1,615.47	1,468.34	147.13	10.980		
18,300.00	9,038.54	9,060.03	9,057.93	154.11	17.59	90.70	10,057.70	1,023.12	1,562.61	1,410.04	152.57	10.242		
18,400.00	9,038.69	9,061.00	9,058.89	155.73	17.59	90.74	10,057.71	1,023.10	1,514.52	1,356.55	157.97	9.587		
18,500.00	9,038.84	9,061.94	9,059.83	157.36	17.59	90.78	10,057.71	1,023.09	1,471.66	1,308.44	163.22	9.016		
18,600.00	9,038.99	9,062.85	9,060.75	158.99	17.59	90.82	10,057.72	1,023.07	1,434.51	1,266.30	168.21	8.528		
18,700.00	9,039.14	9,063.74	9,061.63	160.61	17.59	90.86	10,057.72	1,023.05	1,403.51	1,230.70	172.81	8.122		
18,800.00	9,039.29	9,064.60	9,062.50	162.24	17.60	90.90	10,057.73	1,023.04	1,379.08	1,202.21	176.87	7.797		
18,900.00	9,039.44	9,065.44	9,063.34	163.87	17.60	90.93	10,057.73	1,023.03	1,361.57	1,181.30	180.27	7.553		
19,000.00	9,039.60	9,066.26	9,064.16	165.50	17.60	90.97	10,057.74	1,023.01	1,351.25	1,168.36	182.89	7.388		
19,089.94	9,039.73	9,066.98	9,064.87	166.96	17.60	91.00	10,057.74	1,023.00	1,348.25	1,163.73	184.53	7.307 CC		
19,100.00	9,039.75	9,067.06	9,064.95	167.13	17.60	91.00	10,057.74	1,023.00	1,348.29	1,163.63	184.67	7.301 ES		
19,200.00	9,039.90	9,067.83	9,065.73	168.76	17.60	91.03	10,057.75	1,022.98	1,352.74	1,167.19	185.54	7.291 SF		
19,267.22	9,040.00	9,068.34	9,066.24	169.60	17.60	91.05	10,057.75	1,022.97	1,359.86	1,174.47	185.39	7.335		

Anticollision Report

Devon Energy Well Belloq 11-2 Fed State Com 521H Company: Local Co-ordinate Reference: Eddy County, NM (NAD-83) TVD Reference: 3430' GE + 23.5" KB @ 3453.50usft Project: Reference Site: Bellog 11-2 Fed State Com 3430' GE + 23.5' KB @ 3453.50usft MD Reference: Site Error: North Reference: Reference Well: Bellog 11-2 Fed State Com 521H Survey Calculation Method: Minimum Curvature Well Error: 0.00 usft Output errors are at 2.00 sigma Reference Wellbore ОН EDM 5000.1 Multi User Db Database: Plan.#2 Reference Design: Offset TVD Reference: Offset Datum

Offset De Survey Prog	ram: 115-	MWD-ISCWS	A, 9477-LEA	5H - OH - OI M MWD+HDGM	14380-Pro	ect				a	<u> </u>			00 usf 00 usf
Refer		Offs	-	Semi Major				* # H	Dista					
Measured		Measured	Vertical	Reference	Offset	Highside	4		Between	Between	Minimum	Separation	Warning	1.
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
13,800.00	9,031.72	14,380.00	10,152.89	81.45	75.08	125.93	5,313.99	1,248.82	1,982.88			15.065		
13,900.00	9,031.87	14,380.00	10,152.89	83.04	75.08	125.93	5,313.99	1,248.82	1,957.68	1,851.26 1,823.70	131.62 133.98	14.612		
14,000.00	9,032.02	14,380.00	10,152.89	84.63	75.08	125.93	5,313.99	1,248.82	1,937.32	1,801.23	136.10	14.235		
14,100.00	9,032.17	14,380.00	10,152.89	86.23	75.08	125.93	5,313.99	1,248.82	1,921.96	1,784.02	137.94	13.933		
14,200.00	9,032.32	14,380.00	10,152.89	87.83	75.08	125.93	5,313.99	1,248.82	1,911.71	1,772.23	139.48	13.706		
14,300.00	9,032.48	14,319.26	10,151.41	89.43	74.99	125.95	5,374.61	1,245.32	1,905.66	1,764.93	140.73	13.541		
14,400.00	9,032.63	14,229.52	10,149.79	91.03	73.68	125.98	5,464.19	1,240.14	1,900.36	1,759.44	140.92	13.486		
14,500.00	9,032.78	14,127.16	10,149.32 10,150.47	92.63	72.18	126.08	5,566.31	1,233.32	1,895.12	1,754.24	140.88	13.452		
14,600.00 14,700.00	9,032.93 9,033.08	14,027.81 13,917.92	10,150.47	94.23 95.84	70.73 69.08	126.22	5,665.38	1,225.87	1,890.16	1,749.35	140.81	13.423		
14,800.00	9,033.23	13,825.36	10,156.43	97.45	67.67	126.47 126.69	5,774.70 5,866.80	1,215.12 1,206.45	1,884.17 1,879.04	1,743.71 1,738.70	140.46 140.34	13.414 13.389		
11,000.00	0,000.20	10,020.00	70,700.40	31.45	01.01	120.03	3,000.00	1,200.43	1,079.04	1,730.70	140.34	13.309		
14,900.00	9,033.38	13,679.20	10,158.81	99.05	65.42	126.99	6,012.22	1,192.06	1,872.56	1,733.19	139.37	13.436		
15,000.00	9,033.54	13,565.52	10,158.04	100.66	63.68	127.17	6,125.30	1,180.38	1,864.35	1,725.35	139.00	13.413		
15,100.00	9,033.69	13,472.33	10,156.70	102.27	62.28	127.30	6,218.02	1,171.13	1,855.98	1,716.96	139.02	13.350		
15,200.00	9,033.84	13,390.00	10,155.57	103.88	61.07	127.40	6,300.00	1,163.67	1,848.35	1,709.09	139.26	13.273		
15,300.00	9,033.99	13,321.80	10,155.03	105.49	60.06	127.47	6,367.99	1,158.31	1,842.04	1,702.34	139.69	13,186		
15,400.00	9,034.14	13,230.55	10,154.79	107.10	58.70	127.57	6,459.04	1,152.27	1,837.02	1 607 22	120.70	10 144		
15,500.00	9,034.14	13,138.24	10,154.79	107.10	57.36	127.63	6,459.04 6,551.18		•	1,697.23	139.79	13.141		
15,600.00	9,034.45	13,061.35	10,153.61	110.33	56.26	127.66	6,627.98	1,146.82 1,143.36	1,832.11	1,692.18	139.93	13.093		
15,700.00	9,034.60	12,961.46	10,152.29	111.94	54.82	127.71	6,727.80	1,139.57	1,828.03 1,825.25	1,687.72 1,684.86	140.31 140.40	13.028 13.001		
15,800.00	9,034.75	12,823.22	10,151.85	113.56	52.82	127.71	6,865.78	1,139.37	1,820.63	1,680.72	139.91	13.001		
.0,000.00	0,004.70	12,020.22	10,101.00	115.50	32.02	127.03	0,000.70	1,101.22	1,020.03	1,000.72	135.51	13.013		
15,900.00	9,034.90	12,698.91	10,151.32	115.18	51.05	127.99	6,989.68	1,121.23	1,814.41	1,674.88	139.54	13.003		
16,000.00	9,035.05	12,597.98	10,151.45	116.79	49.61	128.17	7,090.16	1,111.73	1,807.48	1,668.03	139.45	12.962		
16,100.00	9,035.20	12,505.85	10,151.57	118.41	48.31	128.32	7,181.93	1,103.47	1,800.91	1,661.39	139.53	12.907		
16,200.00	9,035.35	12,413.12	10,152.37	120.03	47.02	128.49	7,274.25	1,094.92	1,794.62	1,655.04	139.58	12.857		
16,300.00	9,035.51	12,317.93	10,153.84	121.64	45.67	128.68	7,369.06	1,086.42	1,788.99	1,649.44	139.55	12.819		
16,400.00	9,035.66	12,154.25	10,152.54	123.26	43.31	128.93	7,531.99	1,071.32	1,781.84	1,643.37	138.46	12.869	•	
16,500.00	9,035.81	12,064.00	10,147.46	124.88	42.05	128.93	7,621.82	1,064.29	1,772.66	1,633.86	138.80	12.771		
16,600.00	9,035.96	11,970.00	10,141.64	126.50	40.80	128.89	7,715.45	1,058.23	1,764.15	1,624.98	139.17.	12.676		
16,700.00	9,036.11	11,875.00	10,136.09	128.12	39.57	128.85	7,810.10	1,052.36	1,756.06	1,616.50	139.56	12.583		
16,800.00	9,036.26	11,798.49	10,133.00	129.74	38.61	128.87	7,886.36	1,047.03	1,748.51	1,608.37	140.14	12.477		
16,900.00	9,036.41	11,703.88	10,131.39	131.37	37.40	128.96	7,980.68	1,039.84	1,741.92	1,601.55	140.38	12.409		
17,000.00	9,036.57	11,611.28	10,130.09	132.99	36.23	129.06	8,073.00	1,032.78	1,735.52	1,594.88	140.63	12.341		
17,100.00	9,036.72	11,529.55	10,129.18	134.61	35.21	129.14	8,154.53	1,027.09	1,729.83	1,588.77	141.06	12.263		
17,200.00 17,300.00	9,036.87 9,037.02	11,448.31 11,354.63	10,128.93 10,128.42	136.23	34.18	129.22	8,235.62	1,022.13	1,725.29	1,583.83	141.46	12.196		
17,300.00	5,031.02	11,554.65	10, 120.42	137.86	33.00	129.29	8,329.19	1,017.65	1,721.63	1,579.87	141.75	12.145		
17,400.00	9,037.17	11,265.86	10,127.63	139.48	31.92	129.34	8,417.86	1,013.66	1,718.02	1,575.86	142.16	12.085		
17,500.00	9,037.32	11,175.57	10,127.30	141.10	30.88	129.37	8,508.11	1,010.82	1,715.70	1,573.10	142.60	12.031		
17,600.00	9,037.47	11,063.44	10,126.90	142.73	29.63	129.45	8,620.13	1,005.88	1,712.42	1,569.59	142.83	11.989		
17,700.00	9,037.63	10,960.64	10,127.77	144.35	28.51	129.56	8,722.79	1,000.64	1,709.43	1,566.33	143.10	11.945		
17,800.00	9,037.78	9,076.43	9,070.80	145.98	19.27	91.34	9,837.00	941.70	1,657.19	1,523.57	133.62	12.402		
17,900.00	9 037 02	9,075.36	9,069.74	147.60	10.26	01 20	0.937.04	041.70	1 504 47	1 455 44	120.02	11 460		
18,000.00	9,037.93 9,038.08	9,075.36	9,069.74		19.26	91.29	9,837.01	941.72	1,594.47	1,455.44	139.03	11.469		
18,100.00	9,038.08	9,074.30	9,068.68	149.23	19.26	91.24 91.19	9,837.02 9,837.03	941.74	1,535.71	1,391.13	144.58	10.622 9.863		
18,100.00	9,038.23	9,073.25	9,067.63	150.85 152.48	19.26 19.26			941.75	1,481.36	1,331.17	150.19 155.79	9.863 9.192		
18,300.00	9,038.54	9,072.22	9,065.57	152.48	19.25	91.15 91.10	9,837.04 9,837.05	941.77 941.79	1,431.95 1,388.00	1,276.16 1,226.75	161.25	9.192 8.608		
. 5,550.00	9,000.04	0,071.18	9,000.07	134,11	15.23	31.10	3,037.05	341.19	1,300.00	1,220.15	101.25	0.000		
18,400.00	9,038.69	9,070.17	9,064.55	155.73	19.25	91.05	9,837.06	941.80	1,350.03	1,183.59	166.44	8.111		
18,500.00	9,038.84	9,069.17	9,063.55	157.36	19.25	91.01	9,837.07	941.82	1,318.57	1,147.36	171.20	7.702		
18,600.00	9,038.99	9,068.17	9,062.55	158.99	19.25	90.96	9,837.08	941.83	1,294.09	1,118.71	175.38	7.379		
18,700.00	9,039.14	9,067.18	9,061.56	160.61	19.25	90.92	9,837.09	941.85	1,276.99	1,098.18	178.81	7.142		
18,800.00	9,039.29	9,066.21	9,060.59	162.24	19.24	90.87	9,837.10	941.86	1,267.57	1,086.20	181.37	6.989		
							*:						_	
18,869.82	9,039.40	9,065.53	9,059.91	163.38	19.24	90.84	9,837.10	941.87	1,265.65	1,083.05	182.59	6.932 C	C	

Anticollision Report

Company: Devon Energy Well Belloq 11-2 Fed State Com 521H Local Co-ordinate Reference: 3430' GE + 23.5' KB @ 3453.50usft Project: Eddy County, NM (NAD-83) TVD Reference: Belloq 11-2 Fed State Com 3430' GE + 23.5' KB @ 3453.50usft Reference Site: MD Reference: Site Error: 0.00 usft North Reference: Grid Belloq 11-2 Fed State Com 521H Minimum Curvature Reference Well: **Survey Calculation Method:** 2.00 sigma Well Error: 0.00 usft Output errors are at EDM 5000.1 Multi User Db Reference Wellbore ОН Database: Reference Design: Plan #2 Offset TVD Reference: Offset Datum

een Minimun ses Separatio	tion Factor	Offset Well Error: Warning	0.00 usft
ses Separation	tion Factor	Warning	
ses Separation	tion Factor	Warning	
ft) (usft)	,		
83.04 182	32.97 6.919	ES, SF	
88.75 183	33.57 6.931		
03.21 183	33.19 7.022		
26.10 181	31.91 7.191		
100	30.40 7.354		
1	103.21 18 126.10 18	103.21 183.19 7.022 126.10 181.91 7.191	103.21 183.19 7.022 126.10 181.91 7.191

Anticollision Report

Local Co-ordinate Reference: Well Bellog 11-2 Fed State Com 521H Company: Devon Energy Eddy County, NM (NAD-83) TVD Reference: 3430' GE + 23.5' KB @ 3453.50usft Project: Reference Site: Bellog 11-2 Fed State Com MD Reference: 3430' GE + 23.5' KB @ 3453.50usft Site Error: 0.00 usft North Reference: Minimum Curvature Reference Well: Belloq 11-2 Fed State Com 521H Survey Calculation Method: 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 #2 Offset TVD Reference: Reference Design:

Offset De	sian		State - (6H - OH - OI	1			ь .					Offset Site Error:	0.00 usf
urvey Progr	-			MWD+HDGM;		ct				7 7 7 7			Offset Well Error:	0.00 usf
Refere	ence	Offse	t	Semi Major	Axis		وراي أيادو الم	494 1	Dista	nce			* * * * * * * * * * * * * * * * * * * *	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore	Centre	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (üsft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		**
17,900.00	9,037.93	9,073.57	9,066.93	147.60	17.83	90.99	10,150.43	1,151.57	1,955.98	1,823.77	132.21	14.794		
18,000.00	9,038.08	9,073.80	9,067.16	149.23	17.84	91.00	10,150.43	1,151.56	1,891.95	1,754.93	137.03	13.807		
18,100.00	9,038.23	9,074.03	9,067.39	150.85°	17.84	91.01	10,150.43	1,151.56	1,831.15	1,689.18	141.97	12.898		
18,200.00	9,038.38	9,074.26	9,067.62	152.48	17.84	91.01	10,150.43	1,151.56	1,773.91	1,626.89	147.02	12.066		
18,300.00	9,038.54	9,074.48	9,067.84	154.11	17.84	91.02	10,150.43	1,151.55	1,720.58	1,568.47	152.11	11.312		
18,400.00	9,038.69	9,074.70	9,068.06	155.73	17.84	91.03	10,150.43	1,151.55	1,671.54	1,514.35	157.18	10.634		
18,500.00	9,038.84	9,074.91	9,068.28	157.36	17.84	91.04	10,150.44	1,151.54	1,627.17	1,465.00	162.17	10.034		
18,600.00	9,038.99	9,075.13	9,068.49	158.99	17.84	91.05	10,150.44	1,151.54	1,587.86	1,420.89	166.97	9.510		
18,700.00	9,039.14	9,075.34	9,068.70	160.61	17.84	91.06	10,150.44	1,151.54	1,554.01	1,382.51	171.50	9.061		
18,800.00	9,039.29	9,075.54	9,068.91	162.24	17.84	91.06	10,150.44	1,151.53	1,525.97	1,350.33	175.64	8.688		
18,900.00	9,039.44	9,075.75	9,069.11	163.87	17.84	91.07	10,150.44	1,151.53	1,504.07	1,324.77	179.29	8.389		
19,000.00	9,039.60	9,075.95	9,069.31	165.50	17.84	91.08	10,150.44	1,151.52	1,488.57	1,306.21	182.36	8.163		
19,100.00	9,039.75	9,076.15	9,069.51	167.13	17.84	91.09	10,150.44	1,151.52	1,479.69	1,294.92	184.77	8.008		
19,181.82	9,039.87	9,076.31	9,069.67	168.46	17.84	91.09	10,150.44	1,151.52	1,477.43	1,291.23	186.20	7.935 C	С	
19,200.00	9,039.90	9,076.34	9,069.70	168.76	17.84	91.09	10,150.44	1,151.52	1,477.54	1,291.09	186.45	7.925 E	S	
19.267.22	9.040.00	9,076.47	9,069.83	169.60	17.84	91.10	10,150,44	1,151.51	1,479.90	1,292.99	186.91	7.918 S	F	

Anticollision Report

Company:

Devon Energy

Project: Reference Site: Eddy County, NM (NAD-83) Bellog 11-2 Fed State Com

Site Error:

0.00 usft

Reference Well:

Bellog 11-2 Fed State Com 521H

Well Error: Reference Wellbore Reference Design: 0.00 usft

Plan #2

nergy Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at Analysis

Offset TVD Reference:

Well Bellog 11-2 Fed State Com 521H

3430' GE + 23.5' KB @ 3453.50usft 3430' GE + 23.5' KB @ 3453.50usft

Grid

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

Offset Datum

Reference Depths are relative to 3430' GE + 23.5' KB @ 3453.50usft

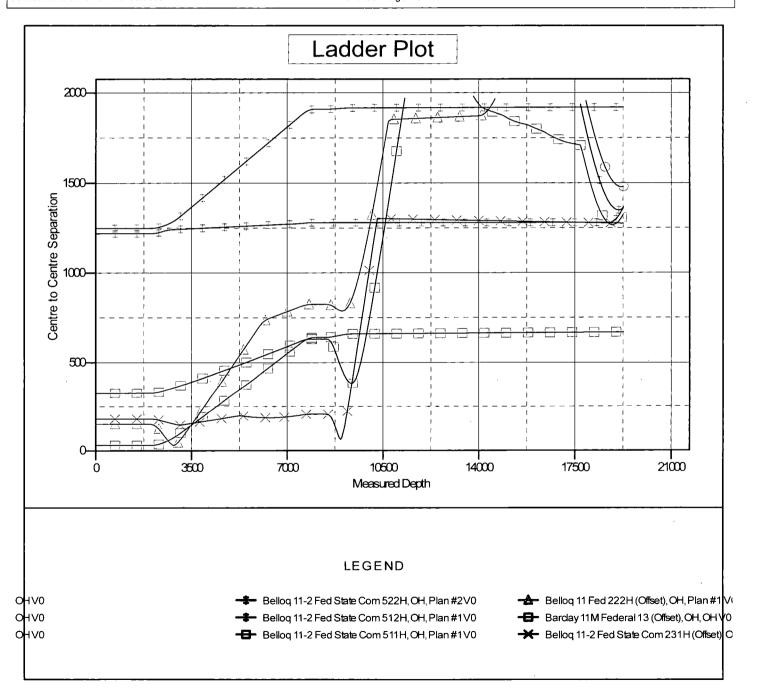
Offset Depths are relative to Offset Datum

Central Meridian is 104° 19' 60.0000 W

Coordinates are relative to: Belloq 11-2 Fed State Com 521H

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

Grid Convergence at Surface is: 0.31°



Anticollision Report

Company: Devon Energy

Project: Reference Site: Eddy County, NM (NAD-83) Bellog 11-2 Fed State Com

Site Error: Reference Well:

Well Error: Reference Wellbore Reference Design:

Bellog 11-2 Fed State Com 521H

0.00 usft -OH Plan #2

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well Belloq 11-2 Fed State Com 521H

3430' GE + 23.5' KB @ 3453.50usft 3430' GE + 23.5' KB @ 3453.50usft

Grid

Minimum Curvature

2.00 sigma

EDM 5000.1 Multi User Db

Offset Datum

Reference Depths are relative to 3430' GE + 23.5' KB @ 3453.50usft

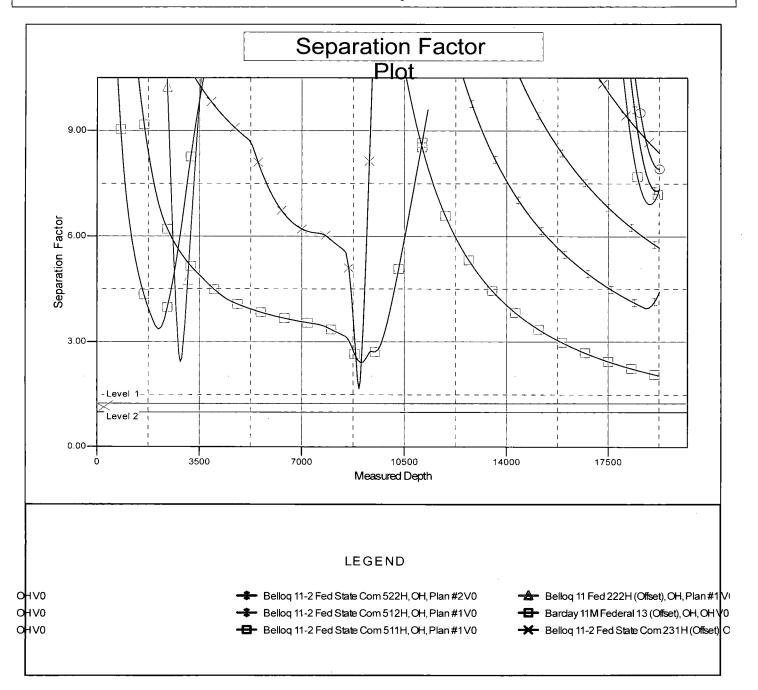
Offset Depths are relative to Offset Datum

Central Meridian is 104° 19' 60.0000 W

Coordinates are relative to: Belloq 11-2 Fed State Com 521H

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

Grid Convergence at Surface is: 0.31°



1. Geologic Formations

TVD of target	9040	Pilot hole depth	N/A
MD at TD:	19267	Deepest expected fresh water:	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Rustler	739		
Base of Salt	4470		
Delaware	4507		
Leonard	8454		
1BSS	9462		
2BSS	9867		
		_	

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

2. Casing Program

Hole Size	Casing	Interval	Csg. Size	Weight	Grade	Conn.	
Hole Size	From	To	Csg. Size	(PPF)	Grade		
17.5"	0	764	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	
В	LM Minimu	m Safety Fact	tor	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

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

3. Cementing Program (3-String Primary Design)

Casing	# Sks	тос	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	798	Surf	13.2	1.33	Lead: Class C Cement + additives
	1115	Surf	9	1.94	Lead: Class C Cement + additives
Int	197	500' above shoe	13.2	1.33	Tail: Class H / C + additives
	560	Surf	9	1.94	Stage 1 Lead: Class C Cement + additives
Int 1 Two Stage (optional)	196	500' above shoe	13.2	1.33	Stage 1 Tail: Class H / C + additives
w/ DV @ ~4500	580	Surf	9	1.94	Stage 2 Lead: Class C Cement + additives
	196	500' above DV	13.2	1.33	Stage 2 Tail: Class H / C + additives
	As Needed	Surf	13.2	1.33	Squeeze Lead: Class C Cement + additives
Int 1 Intermediate Squeeze	1115	Surf	9	1.94	Lead: Class C Cement + additives
Squeeze	197	500' above shoe	13.2	1.33	Tail: Class H / C + additives
Droductic -	735	Surf	9	3.27	Lead: Class H / C + additives
Production	2257	КОР	13.2	1.33	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%

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Т	Sype	1	Tested to:
			An	nular	X	50% of rated working pressure
Int 1	13-5/8"	5M	Blin	d Ram		
Int 1	13-3/8	5M	Pip	e Ram		5M
			Double Ram		X	3101
			Other*	Other*		
			Annular		X	50% of rated working pressure
			Blind Ram Pipe Ram Double Ram			
Production	13-5/8"	5M				
					X	5M
			Other *			
			Ar	ınular		
			Blin	d Ram		
			Pip	e Ram		
				ole Ram		
			Other *			

5. Mud Program

Interval	Туре	Weight (ppg)	Vis	Water Loss
Surface	FW	8.5 – 9.0	28-34	N/C
Intermediate	Brine	10 – 10.5	28-34	N/C
Production	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
What will be used to monitor the loss of gain of haid:	1 V 1/1 ason V isaai Wollitoilig

6. Logging and Testing Procedures

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

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

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4231 psi
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.

******	be provided to the BENT.
N	H2S is present
Y	H2S Plan attached

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.

Attachments	
x Directional	Plan
Other, desc	ribe

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

Devon proposes using a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.

- Wellhead will be installed by wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial BOP test.
- Wellhead company will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 5M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time.
- If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted.
- Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.
- Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2.

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

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

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 5,000 psi WP.

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



U. S. Steel Tubular Products 9.625" 40.00lbs/ft (0.395" Wall) J55

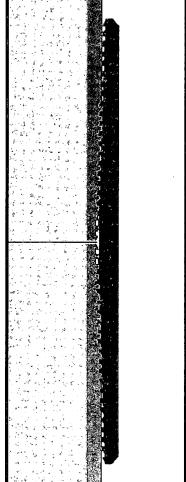
MECHANICAL PROPERTIES	Pipe	ВТС	LTC .	STC	
Minimum Yield Strength	55,000				psi
Maximum Yield Strength	80,000				psi
Minimum Tensile Strength	75,000				psi
DIMENSIONS	Pipe	втс	LTC	STC	
Outside Diameter	9.625	10.625	10.625	10.625	in.
Wall Thickness	0.395				in.
Inside Diameter	8.835	8.835	8.835	8.835	in.
Standard Drift	8.679	8.679	8.679	8.679	in.
Alternate Drift	8.750	8.750	8.750	8.750	in.
Nominal Linear Weight, T&C	40.00				lbs/ft
Plain End Weight	38.97				lbs/ft
PERFORMANCE	Pipe	втс	LTC	STC	
Minimum Collapse Pressure	2,570	2,570	2,570	2,570	psi
Minimum Internal Yield Pressure	3,950	3,950	3,950	3,950	psi
Minimum Pipe Body Yield Strength	630				1,000 lbs
Joint Strength		714	520	452	1,000 lbs
Reference Length		11,898	8,665	7,529	ft
MAKE-UP DATA	Pipe	втс	LTC *	STC	
Make-Up Loss		4.81	4.75	3.38	in.
Minimum Make-Up Torque			3,900	3,390	ft-lbs
Maximum Make-Up Torque			6,500	5,650	ft-lbs

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U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380 1-877-893-9461 connections@uss.com www.usstubular.com

	Technical S	pecifications	
Connection Type:	Size(O.D.):	Weight (Wall):	Grade:
DWC/C Casing standard	5-1/2 in	17.00 lb/ft (0.304 in)	P-110RY
P-110RY	Material Grade		
110,000	Minimum Yield Strength (psi)		USA
125,000	Minimum Ultimate Strength (psi)		
•	J (1 ,		VAM-USA 4424 W. Sam Houston Pkwy. Suite 150
	Pipe Dimensions		Houston, TX 77041
5.500	Nominal Pipe Body O.D. (in)		Phone: 713-479-3200 Fax: 713-479-3234
4.892	Nominal Pipe Body I.D.(in)		E-mail: <u>VAMUSAsales@vam-usa.com</u>
0.304	Nominal Wall Thickness (in)		
17.00	Nominal Weight (lbs/ft)		
16.89	Plain End Weight (lbs/ft)		
4 962	Nominal Pine Body Area (sq.in)		



Nominal Pipe Body Area (sq in) 4.962 **Pipe Body Performance Properties** 546,000 Minimum Pipe Body Yield Strength (lbs) 7,480 Minimum Collapse Pressure (psi) 10,640 Minimum Internal Yield Pressure (psi) 9,700 Hydrostatic Test Pressure (psi) **Connection Dimensions** 6.050 Connection O.D. (in) 4.892 Connection I.D. (in) 4.767 Connection Drift Diameter (in) 4.13 Make-up Loss (in) 4.962 Critical Area (sq in) 100.0 Joint Efficiency (%) **Connection Performance Properties** 546,000 Joint Strength (lbs) 22,940 Reference String Length (ft) 1.4 Design Factor 568,000 API Joint Strength (lbs) 546.000 Compression Rating (lbs) 7,480 API Collapse Pressure Rating (psi) 10,640 API Internal Pressure Resistance (psi) 91.7 Maximum Uniaxial Bend Rating [degrees/100 ft] **Appoximated Field End Torque Values** 12,000 Minimum Final Torque (ft-lbs) 13.800 Maximum Final Torque (ft-lbs) 15,500 Connection Yield Torque (ft-lbs)

For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

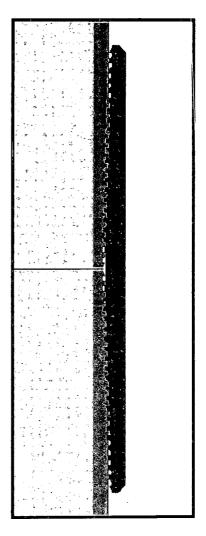
Connection specifications within the control of VAM-USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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DWC Connection Data Notes:

- 1. DWC connections are available with a seal ring (SR) option.
- All standard DWC/C connections are interchangeable for a give pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
- 3. Connection performance properties are based on nominal pipe body and connection dimensions.
- DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
- 5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
- 6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
- 7. Bending efficiency is equal to the compression efficiency.
- 8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
- 9. Connection yield torque is not to be exceeded.
- 10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
- DWC connections will accommodate API standard drift diameters.





Connection specifications within the control of VAM-USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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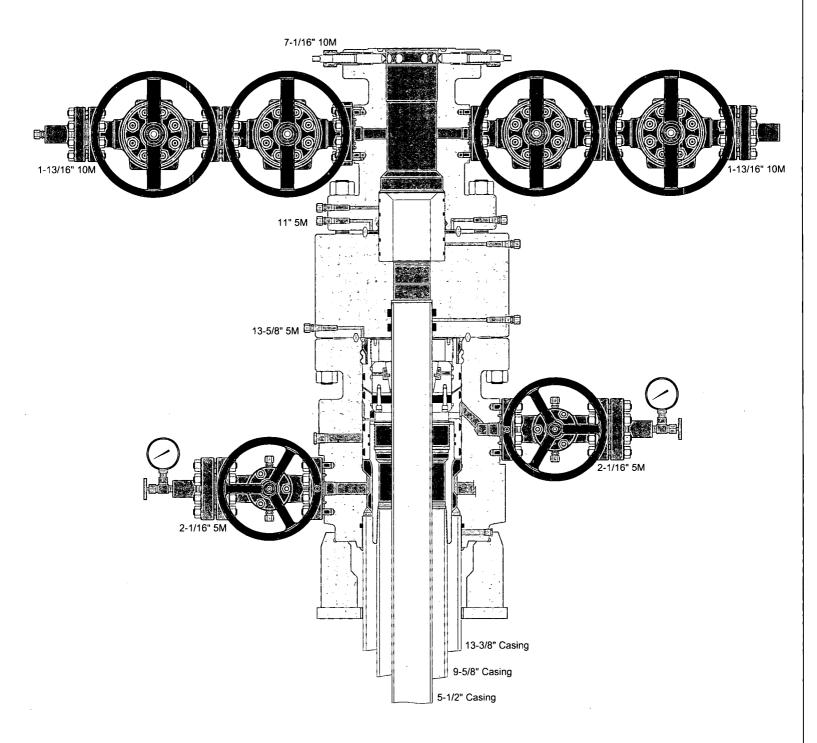
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- If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted.
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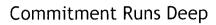
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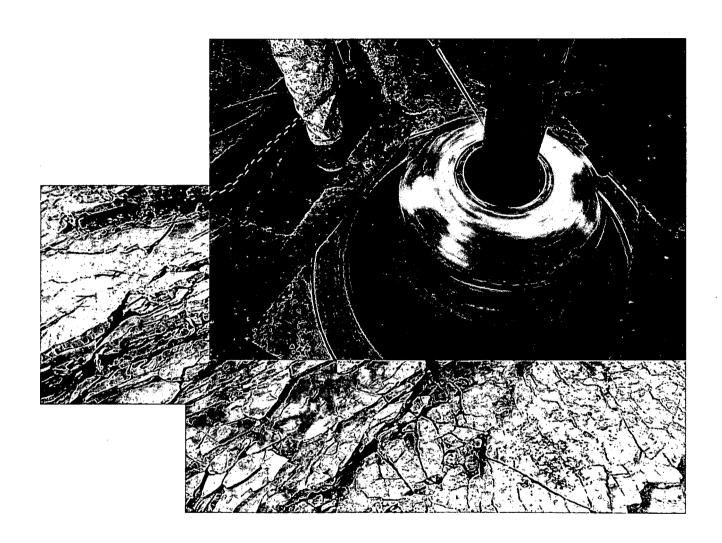
The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, 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.









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.

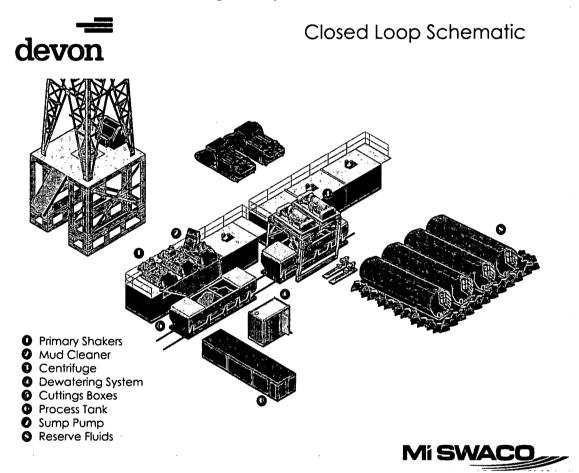
Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

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.



U. S. Steel Tubular Products 13.375" 48.00lbs/ft (0.330" Wall) H40

MECHANICAL PROPERTIES	Pipe	BTC	LTC	STC	
Minimum Yield Strength	- 40,000				psi
Maximum Yield Strength	80,000				psi
Minimum Tensile Strength	60,000				psi
DIMENSIONS	Pipe	втс	LTC	STC	
Outside Diameter	13.375			14.375	in.
Wall Thickness	0.330				in.
Inside Diameter	12.715			12.715	in.
Standard Drift	12.559	12.559		12.559	in.
Alternate Drift					in.
Nominal Linear Weight, T&C	48.00				lbs/ft
Plain End Weight	46.02				lbs/ft
PERFORMANCE	Pipe	ВТС	LTC	STC	
Minimum Collapse Pressure	740	740		740	psi
Minimum Internal Yield Pressure	1,730	1,730		1,730	psi
Minimum Pipe Body Yield Strength	541				1,000 lbs
Joint Strength				322	1,000 lbs
Reference Length				4,473	ft
Reference Length	 Pipe	BTC	LTC	4,473 STC	To the second se
	Pipe	BTC	LTC		in.
MAKE-UP DATA	Pipe	BTC	LTC	STC	

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U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380

1-877-893-9461 connections@uss.com www.usstubular.com

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 Beattie Corp. Website: www.contitechbeattie.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 Beattie Corp

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



R16 212

PHOENIX

OUALITY DOCUMENT

PHOENIX RUBBER
INDUSTRIAL LTD.

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

QUAL INSPECTION	ITY CONTR		TE	CERT. N	10:	552	
PURCHASER: Phoenix Beattie Co.				P.O. N°	1519F	A-871	
PHOENIX RUBBER order No.	170466	HOSE TYPE:	3" ID	Cho	oke and Kill I	Hose	
HOSE SERIAL Nº	34128	NOMINAL / AC	TUAL LENGTH:		11,43 m	 	
W.P. 68,96 MPa 1	0000 psi	T.P. 103,4	MPa 1500	00 psi	Duration:	60	min.
Pressure test with water at ambient temperature		•					
	See atta	achment. (1	page)				Action of
↑ 10 mm = 10 Min. → 10 mm = 25 MPa	•						
	1	COUPLIN	IGS				1. 0.02
Туре		Serial N°		Quality		Heat N°	
3" coupling with	72	20 719	A	ISI 4130		C7626	
4 1/16" Flange end			A	ISI 4130		47357	
				:			
All metal parts are flawless			API Spec 16 Temperatur		3"		
WE CERTIFY THAT THE ABOVE PRESSURE TESTED AS ABOVE			D IN ACCORDA	NCE WITH	THE TERMS O	F THE ORDE	R AND
Date: 29. April. 2002.	Inspector		Quality Cont	HOE	ENIX RUBE dustrial Ltd. Inspection a		

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VERIFIED TRUE CO. PHOENIX RUBBER & C.



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

SUPO Data Report

APD ID: 10400038616

Submission Date: 01/31/2019

Highlighted data reflects the most recent changes

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BELLOQ 11-2 FED STATE COM

Well Number: 521H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

EX_RD_20190130063635.pdf

Existing Road Purpose: ACCESS

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:

BELLOQ_11_2_FED_STATE_COM_521H_OneMileBuffer_WA017267310_20190130063654.pdf

Well Name: BELLOQ 11-2 FED STATE COM Well Number: 521H

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 Belloq 11 CTB 1. Please refer to CTB plat.

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: OTHER

Describe type: null

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): 230000

Source volume (acre-feet): 29.645412

Source volume (gal): 9660000

Water source and transportation map:

BELLOQ_11_2_FED_STATE_COM_521H__511H_water_x_map_20190129141245.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: BELLOQ 11-2 FED STATE COM

Well Number: 521H

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:

BELLOQ_11__Caliche_Map_20190129141306.pdf

Section 7 - Methods for Handling Waste

Waste type: PRODUCED WATER

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

Amount of waste: 1000 barrels

Waste disposal frequency : Daily

Safe containment description: N/A

Safe containment attachment:

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

Disposal type description:

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

system and or third party pipeline take away.

Waste type: COMPLETIONS/STIMULATION

Waste content description: Flow back water during completion operations.

Amount of waste: 3000

000 barrels

Waste disposal frequency: One Time Only

Safe containment description: N/A

Well Name: BELLOQ 11-2 FED STATE COM Well Number: 521H

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: 1978 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: BELLOQ 11-2 FED STATE COM

Well Number: 521H

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:

521H_RIG_LAYOUT_20190130063805.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: BELLOQ 11 PAD

Multiple Well Pad Number: 2

Recontouring attachment:

RECLAMATION_20190130063821.pdf

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: BELLOQ 11-2 FED STATE COM Well Number: 521H

Well pad proposed disturbance

(acres): 4.961

Road proposed disturbance (acres):

0.8

Powerline proposed disturbance

(acres): 0

Pipeline proposed disturbance

(acres): 0.794

Other proposed disturbance (acres): 0

Total proposed disturbance: 6.555

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

2.575

Road interim reclamation (acres): 0

Pipeline interim reclamation (acres): 0 Pipeline long term disturbance

Other interim reclamation (acres): 0

Total interim reclamation: 2.575

(acres): 2.386

Road long term disturbance (acres): 0

Powerline interim reclamation (acres): Powerline long term disturbance

(acres): 0

(acres): 0.794

Other long term disturbance (acres): 0

Total long term disturbance: 3.18

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, vucca, 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: BELLOQ 11-2 FED STATE COM

Well Number: 521H

Seed Management

Seed Table

Seed type:

Seed source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary

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: BELLOQ 11-2 FED STATE COM

Well Number: 521H

USFS Ranger District:

Section 11 - Surface Ownership

Surface Owner: BUREAU OF LAND MANAGEMENT

Disturbance type: PIPELINE

Describe:

USFS Region:

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:
Other Local Office:

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:		

Well Number: 521H

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BELLOQ 11-2 FED STATE COM

COE Local Office:
DOD Local Office:
NPS Local Office:
State Local Office:

Military Local Office:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BELLOQ 11-2 FED STATE COM

Well Number: 521H

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:

Use a previously conducted onsite? YES

Previous Onsite information: MAY 2017/ BELLOQ 222H

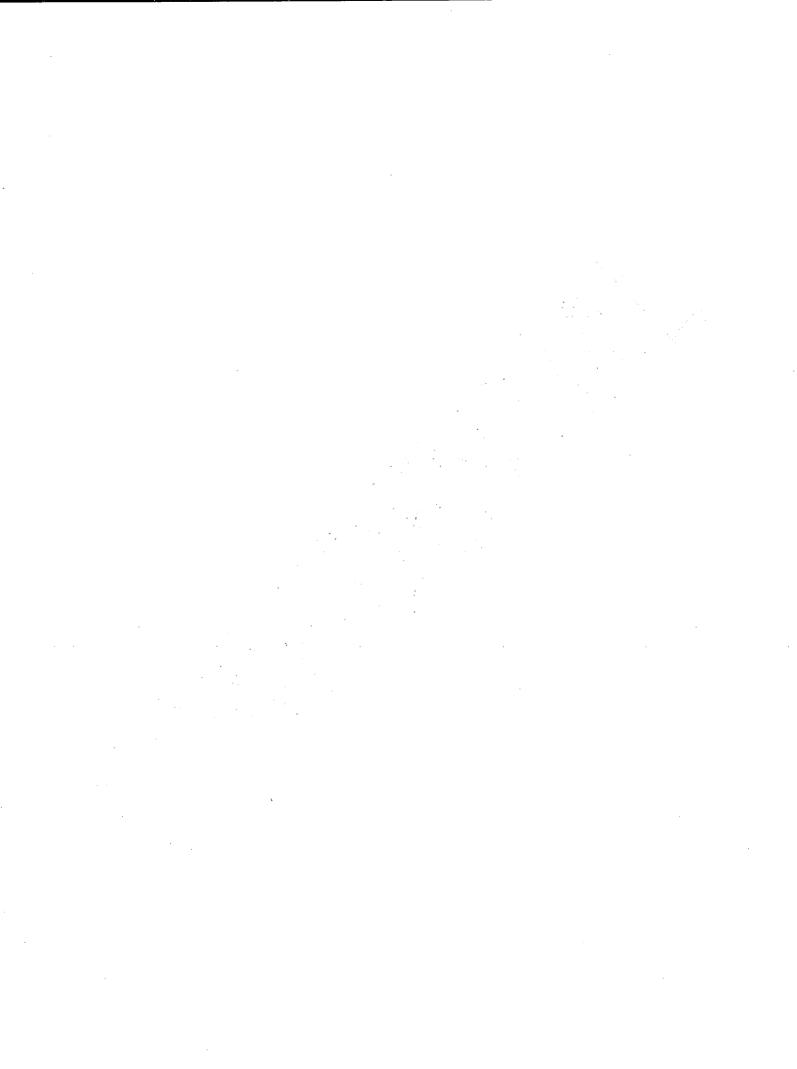
Other SUPO Attachment

Belloq_11_WP_2_to_Belloq_11_CTB_1_20190129141738.pdf

AA000145290_BELLOQ_11_CTB_1_PAD_P_20190129141737.pdf

EL8029_BELLOQ_11_WELL_PAD_2_ELECTRIC_LINE_P_R1_20190129141741.pdf

521H_523H_513H_522H_Pay.gov___Receipt_20190130115543.pdf



SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO AERIAL ACCESS ROUTE MAP



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH NOV. 2017

DEVON ENERGY PRODUCTION COMPANY, L.P. BELLOQ 11-2 FED STATE COM 521H

LOCATED 300 FT. FROM THE SOUTH LINE AND 660 FT. FROM THE WEST LINE OF SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

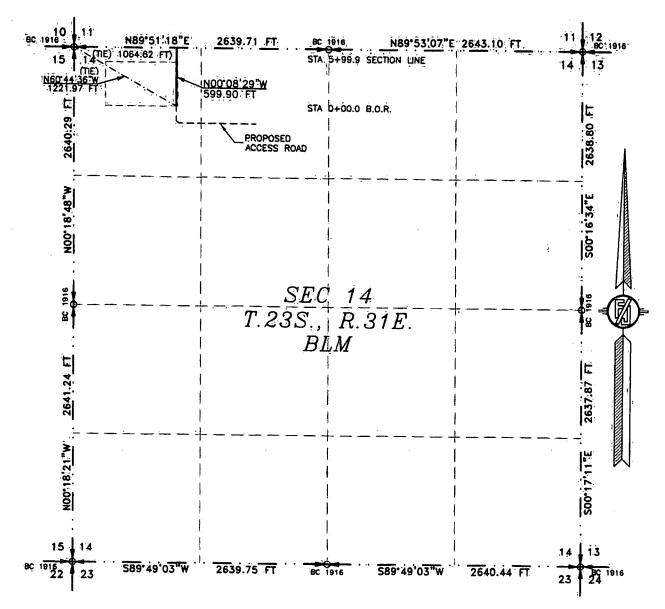
DECEMBER 20, 2018

SURVEY NO. 6708

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

ACCESS ROAD FOR BELLOQ 11-2 FED STATE COM 281H, 521H, 511H, & BELLOQ 11 FED 222H

DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 14, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO DECEMBER 13, 2018



SEE NEXT SHEET (2-4) FOR DESCRIPTION



GENERAL NOTES

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

SHEET: 1-4

MADRON SURVEYING.

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 127	۵'n
HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SUPPLY	ĵ.
IMAI, IMIS SURVEY-IS IRUE AND CORRECT TO THE BEST OF MY KNOW FORE AND	
BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAI SURVEYING IN THE STATE OF NEW MEXICO.	ΝÑ
SURVEYING IN THE STATE OF NEW MEXICO.	140

WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW-MEXIGO OF DECEMBER 2018 MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220

Phone (575) 234-3341

SURVEY NO. 6178B

INC (575) 24-55- CARLSBAD, NEW MEXICO

ACCESS ROAD FOR BELLOQ 11-2 FED STATE COM 231H, 521H, 511H, & BELLOQ 11 FED 222H

DEVON ENERGY PRODUCTION COMPANY, L.P., CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 14, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO DECEMBER 13, 2018

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 14, 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 NW/4 OF SAID SECTION 14, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 14, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., BEARS, N60'44'36"W, A DISTANCE OF 1221.97 FEET;

THENCE NOO'08'29"W A DISTANCE OF 599.90 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 14, TOWNSHIP 23 SQUTH, RANGE 31 EAST, N.M.P.M. BEARS \$89'51'18"W, A DISTANCE OF 1064.62 FEET;

SAID STRIP OF LAND BEING 599.90 FEET OR 36.36 RODS IN LENGTH, CONTAINING 0.413 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NW/4 599.90 FT 36.36 RODS 0.413 ACRES

SURVEYOR CERTIFICATE

NUMBON / JARANIANO EXT. 112797

INC. 301 SOUTH GAME CARLSBAD,

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. 12787, 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 WHEREOFI THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS DAY OF DECEMBER 2018

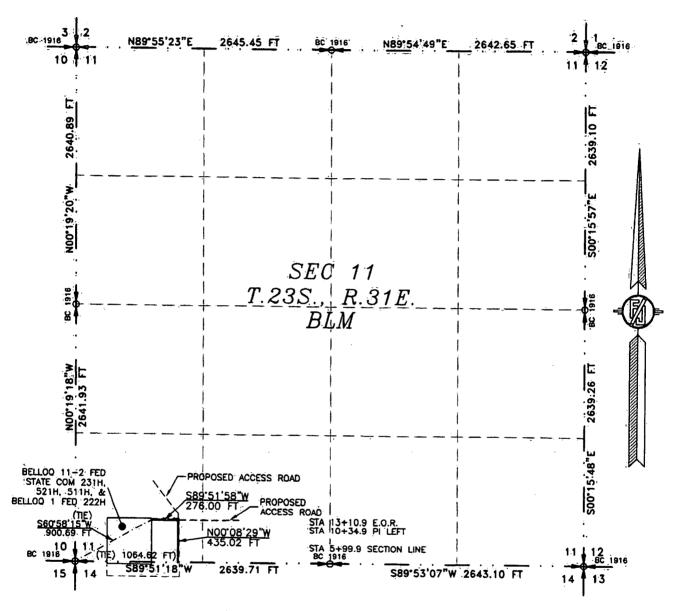
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341

SURVEY NO. 6178B

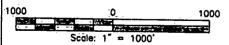
NEW MEXICO

ACCESS ROAD FOR BELLOQ 11-2 FED STATE COM, 231H, 521H, 511H, & BELLOQ 11 FED 222H

DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO DECEMBER 13, 2018



SEE NEXT SHEET (4-4) FOR DESCRIPTION



GENERAL NOTES

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

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

SHEET: 3-4

MADRON SURVEYING,

SURVEYOR CERTIFICATE

1, FILIMON F. JARANILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797. HEREBY CERTIFY—THAT I HAVE CONDUCTED AND AN 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 OR NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

MEYCO, THIS DAY OF DECEMBER 2018

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

SURVEY NO. 6178B

INC 301 SOUTH CANAD CARLSBAD *NEW MEXICO*

ACCESS ROAD FOR BELLOQ 11-2 FED STATE COM 281H, 521H, 511H, & BELLOQ 11 FED 222H

DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO **DECEMBER 13, 2018**

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 11, 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 SW/4 SW/4 OF SAID SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE SOUTHWEST CORNER OF SAID SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS \$89'51'18"W, A DISTANCE OF 1064.62 FEET; THENCE NO0:08'29"W A DISTANCE OF 435.02 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S89'51'58"W A DISTANCE OF 276.00 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE

SOUTHWEST CORNER OF SAID SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31, EAST, N.M.P.M. BEARS \$60.58'15"W, A DISTANCE OF 900.69 FEET; SAID STRIP OF LAND BEING 711.02 FEET OR 43.09 RODS IN LENGTH, CONTAINING 0.490 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SW/4 711.02 L.F. 43.09 RODS 0:490 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: 4-4

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 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.

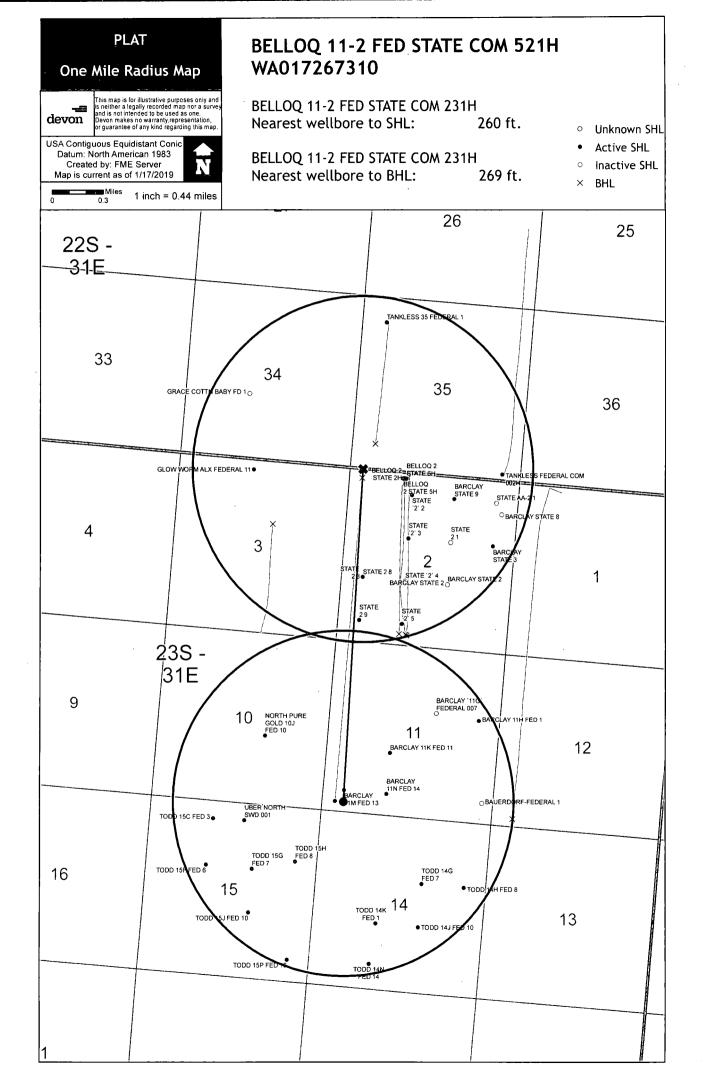
IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD.

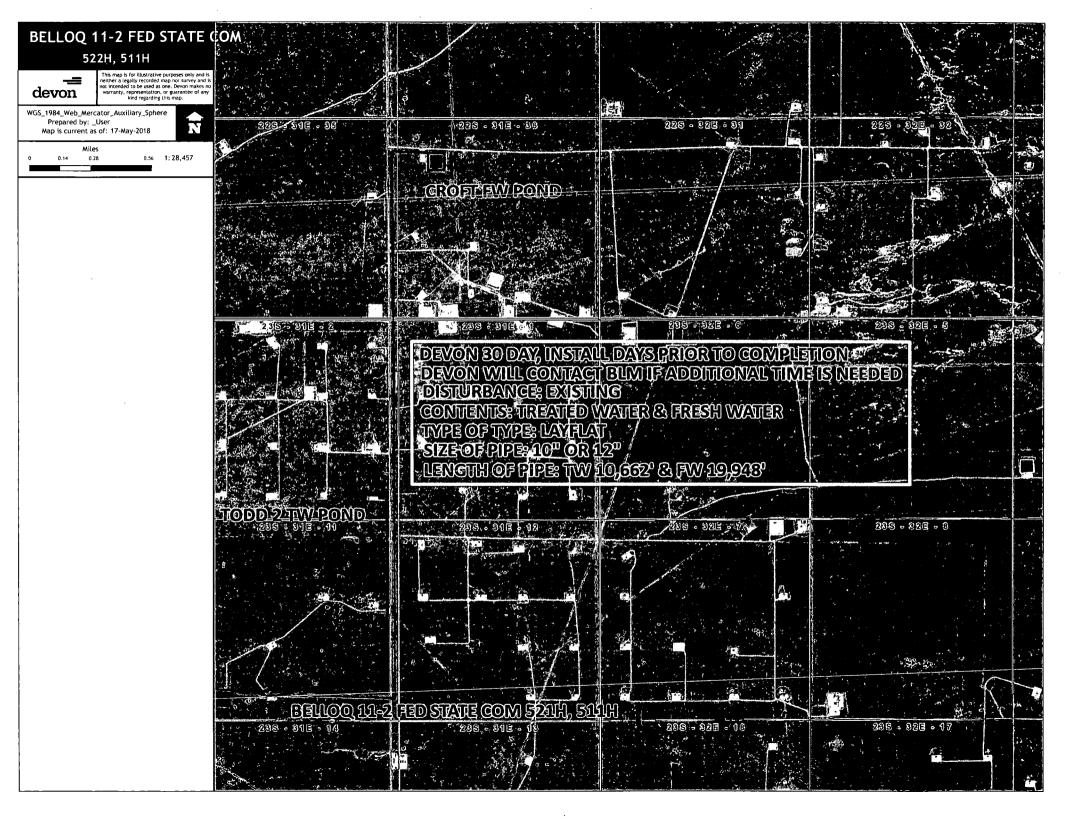
DAY OF DECEMBER 2018

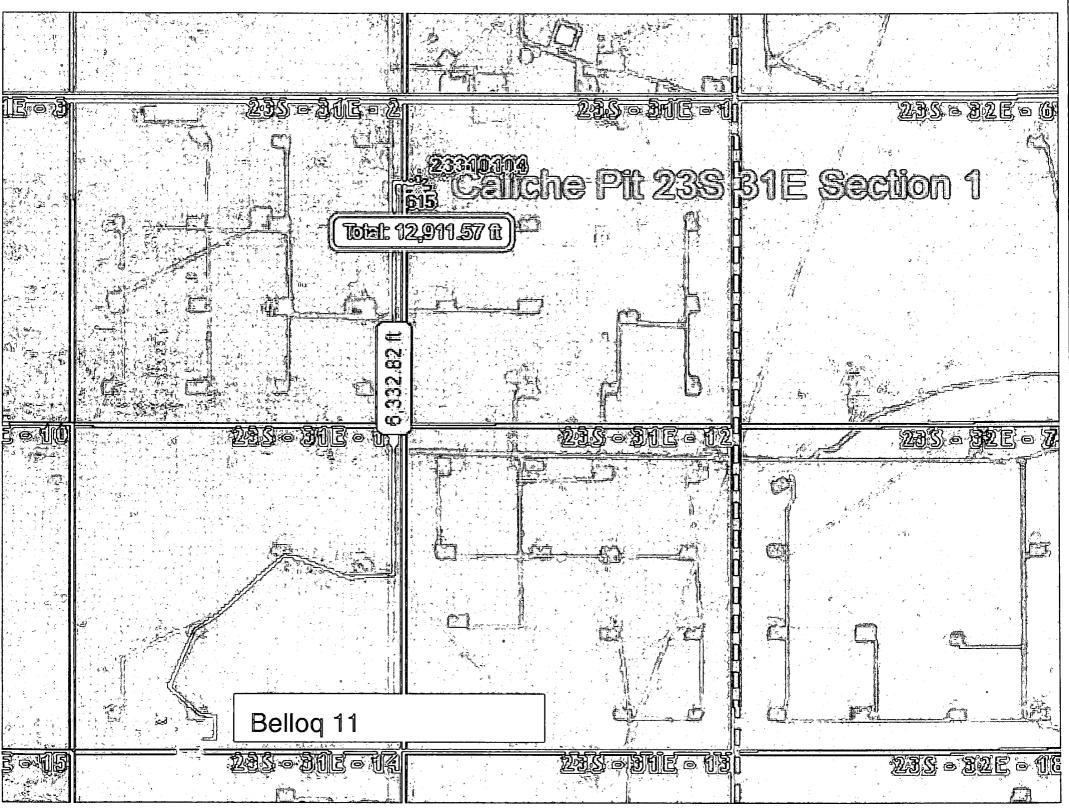
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 38220 Phone (575) 234-3341

SURVEY NO. 6178E

JARAMILLA INC 301 SCOTH CANAL (375) 234-3341 CA'RLSBAD. NEW MEXICO

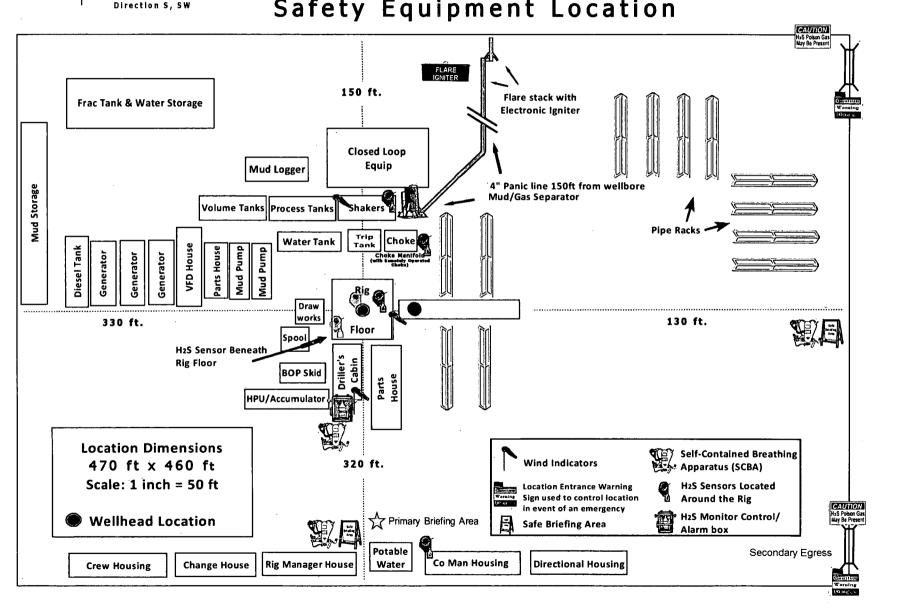


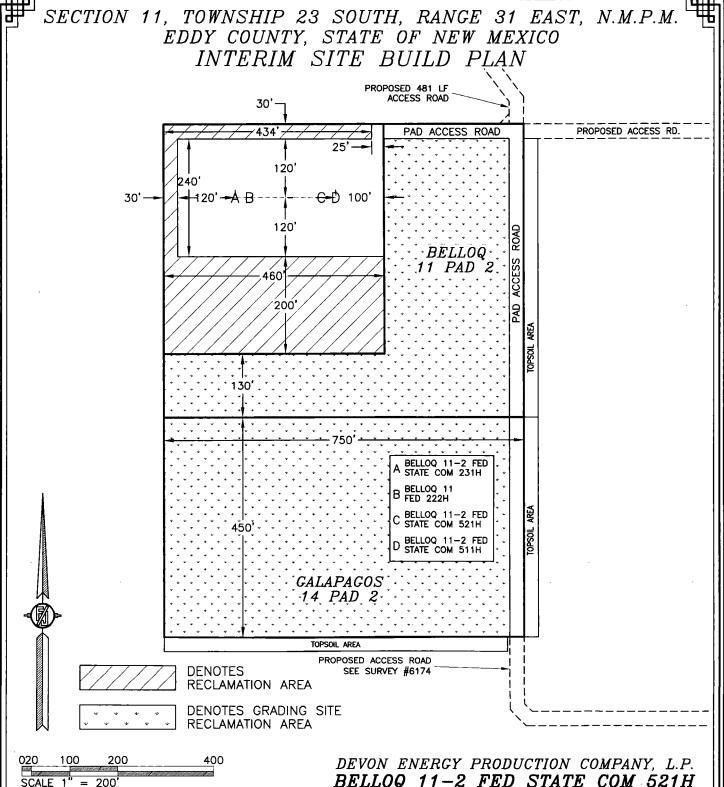






Devon Energy - Well Pad Rig Location Layout Safety Equipment Location





2.575± ACRES INTERIM PAD RECLAMATION AREA 12.216± ACRES GRADING SITE RECLAMATION AREA 3.289± ACRES NON-RECLAIMED AREA 18.080± ACRES BELLOQ & GALAPAGOS WELL PAD DEVON ENERGY PRODUCTION COMPANY, L.P.

BELLOQ 11-2 FED STATE COM 521H

LOCATED 300 FT. FROM THE SOUTH LINE

AND 660 FT. FROM THE WEST LINE OF

SECTION 11, TOWNSHIP 23 SOUTH,

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

EDDY COUNTY, STATE OF NEW MEXICO

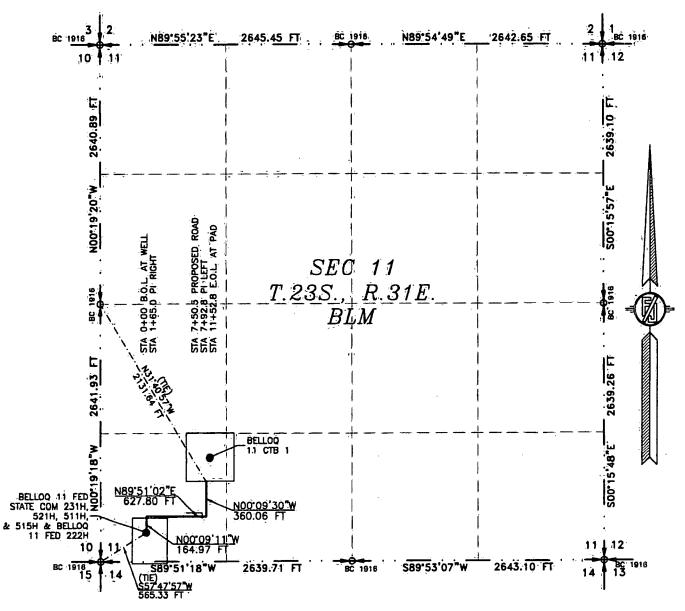
DECEMBER 20, 2018

SURVEY NO. 6708

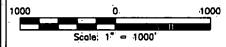
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

J. FIVE-8" POLY FLOWLINES AND ONE-8" POLY FLEX GAS LIFT LINE BURIED IN THE SAME DITCH. FROM BELLOQ 11 FED STATE COM 231H, 521H, 511H, & 515H & BELLOQ 11 FED 222H TO BELLOQ 11 CTB: 1

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF A PIPELINE CROSSING
SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AUGUST 6, 2018



SEE NEXT SHEET (2-4) FOR DESCRIPTION



GENERAL NOTES

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

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

SHEET: 1-4

MADRON SURVEYING,

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.

SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS: EXECUTED AT CARLSBAD,

NEW MEXICO, THIS DAY OF AUGUST 2018

DAY-OF AUGUST 2018

ADRON SURVEYING, INC.

301 SOUTH CANAL

CARSBAD, NEW MEXICO 88220

CARLSBAD. NEW MEXICO 88220 Phone (575) 234-3341 SURVEY NO. 5316B

INC. 301 SOUTH CARLES BAD, NEW MEXICO

FIVE -8" POLY FLOWLINES AND ONE-8" POLY FLEX GAS LIFT LINE BURIED IN THE SAME DITCH FROM BELLOQ 11 FED STATE COM 231H, 521H, 511H, & 515H & BELLOQ 11 FED 222H TO BELLOQ 11 CTB 1

> DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF A PIPELINE CROSSING SECTION 11, TOWNSHIP 23 SOUTH; RANGE 31 EAST; N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO AUGUST 6, 2018

> > DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 11, 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 SW/4 SW/4 OF SAID SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE SOUTHWEST CORNER OF SAID SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS \$57,47,57,W. A DISTANCE OF 565.33 FEET;

THENCE NOO 09 11 W A DISTANCE OF 164.97 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N89'51'02"E A DISTANCE OF 627'80 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE NOO'09'30"W A DISTANCE OF 360:06 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE WEST QUARTER CORNER OF SAID SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N31 40 57 W. A. DISTANCE OF 2131.64 FEET;

SAID STRIP OF LAND BEING 1152:83 FEET OR 69:87 RODS IN LENGTH, CONTAINING 0:794 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SW/4 1152.83 L.F. 69.87 RODS 0.794 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 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 AUGUST 2018 MADRÓN SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341

CARLSBAD.

SURVEY NO. 5316B *NEW MEXICO*

FIVE-8" POLY FLOWLINES AND ONE-8" POLY FLEX GAS LIFT LINE BURIED IN THE SAME DITCH
FROM BELLOQ 11 FED STATE COM 231H, 521H, 511H, & 515H & BELLOQ 11 FED 222H TO BELLOQ 11 CTB 1

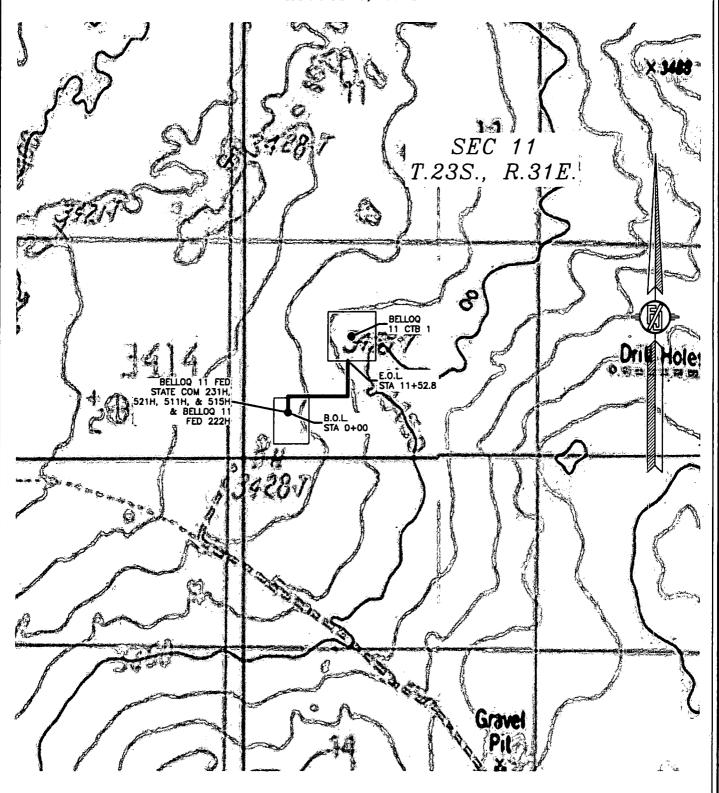
DEVON ENERGY PRODUCTION COMPANY, L.P.

CENTERLINE SURVEY OF A PIPELINE CROSSING

SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO

AUGUST 6. 2018



SHEET: 3-4

SURVEY NO. 5316B

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

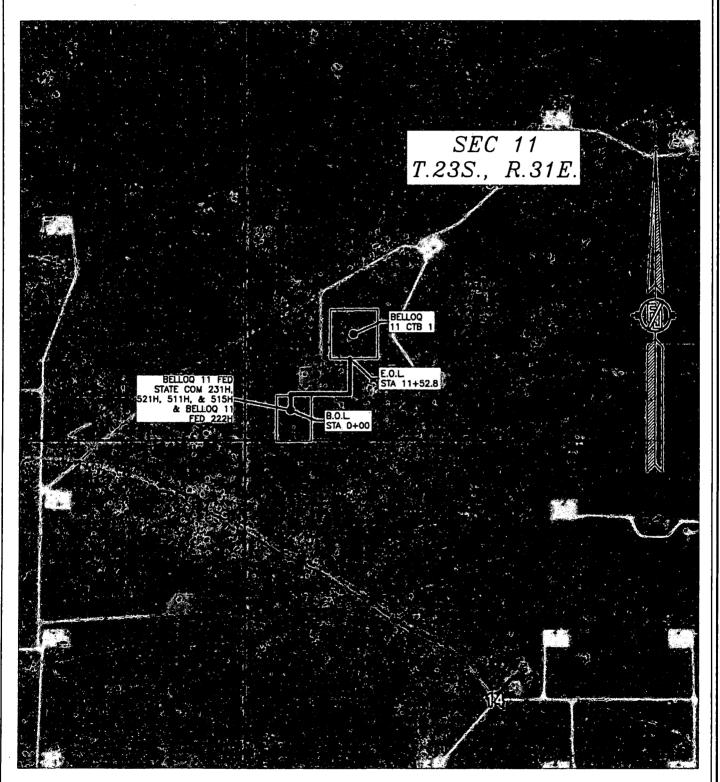
FIVE-8" POLY FLOWLINES AND ONE-8" POLY FLEX GAS LIFT LINE BURIED IN THE SAME DITCH
FROM BELLOQ 11 FED STATE COM 231H, 521H, 511H, & 515H & BELLOQ 11 FED 222H TO BELLOQ 11 CTB 1

DEVON ENERGY PRODUCTION COMPANY, L.P.

CENTERLINE SURVEY OF A PIPELINE CROSSING
SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO

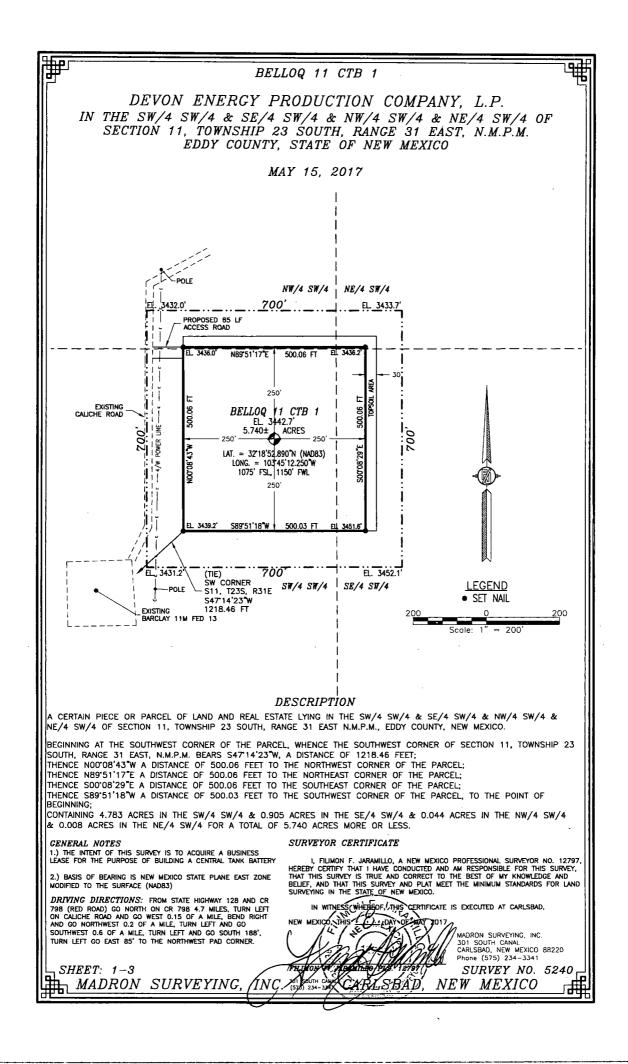
AUGUST 6, 2018

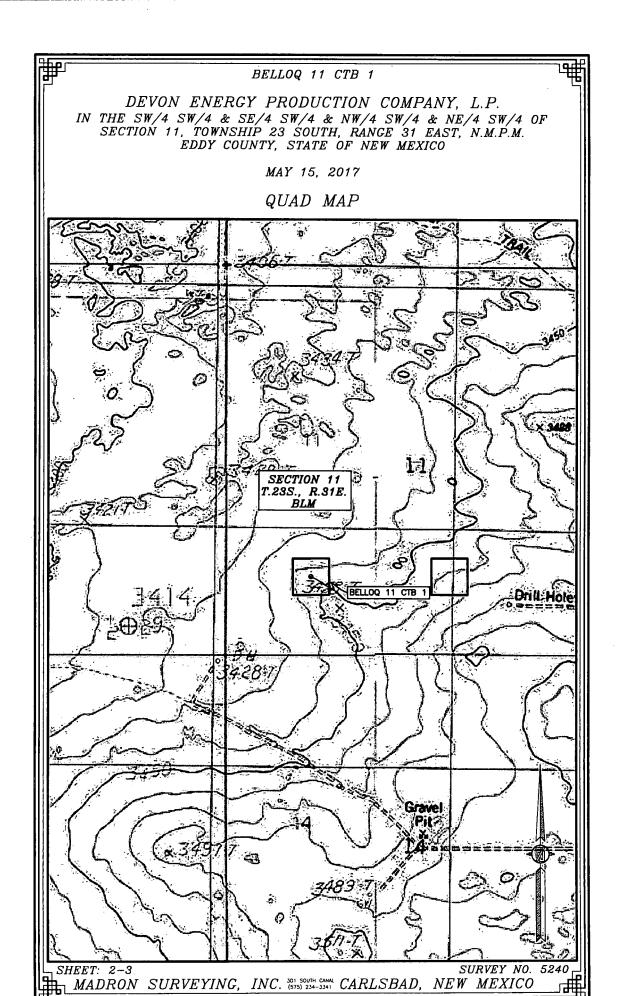


SHEET: 4-4

SURVEY NO. 5316B

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



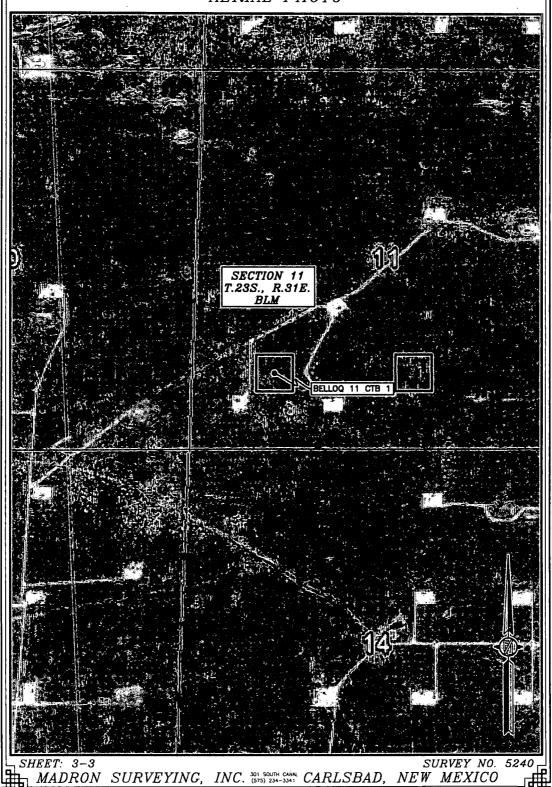


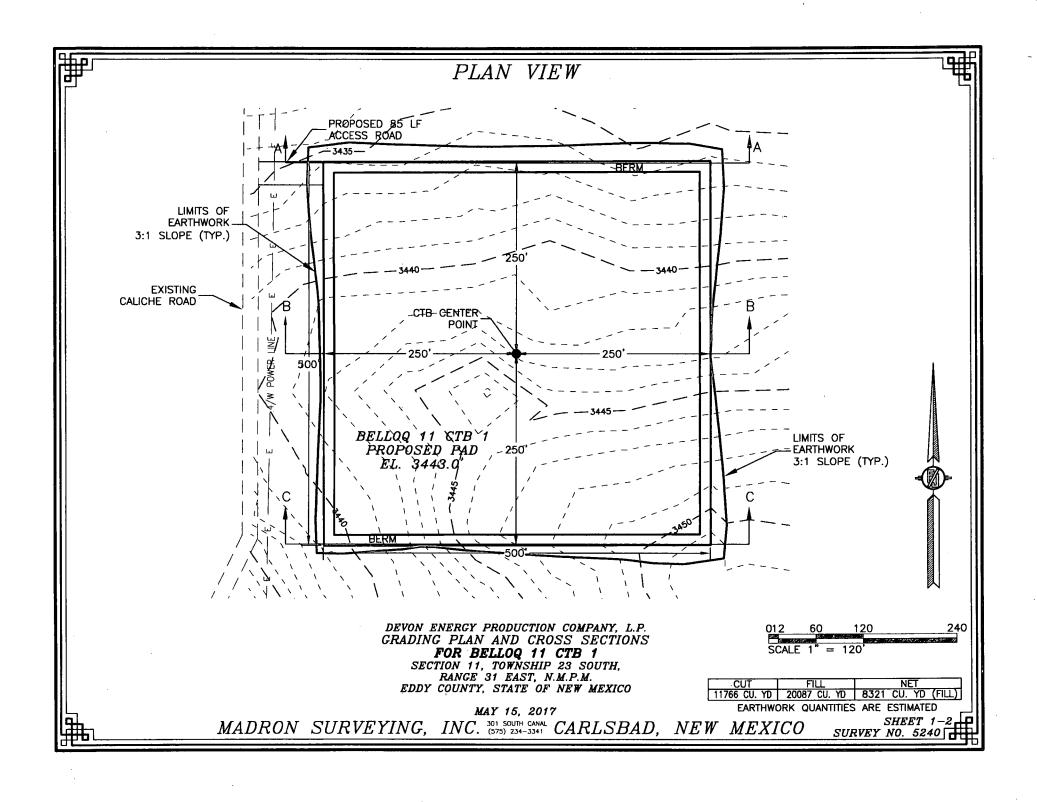
BELLOQ 11 CTB 1

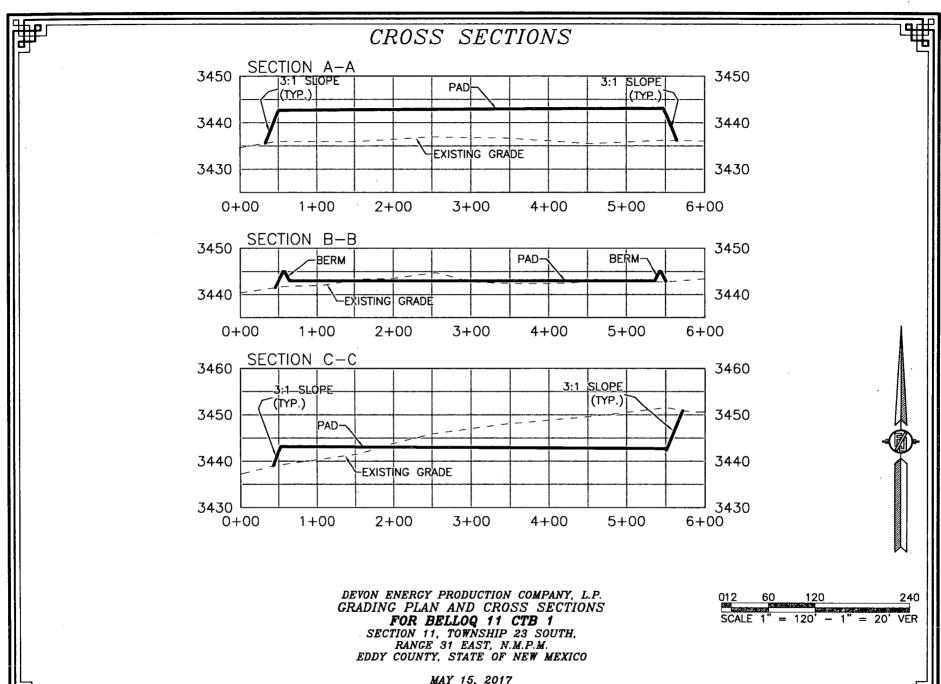
DEVON ENERGY PRODUCTION COMPANY, L.P.
IN THE SW/4 SW/4 & SE/4 SW/4 & NW/4 SW/4 & NE/4 SW/4 OF
SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MAY 15, 2017

AERIAL PHOTO





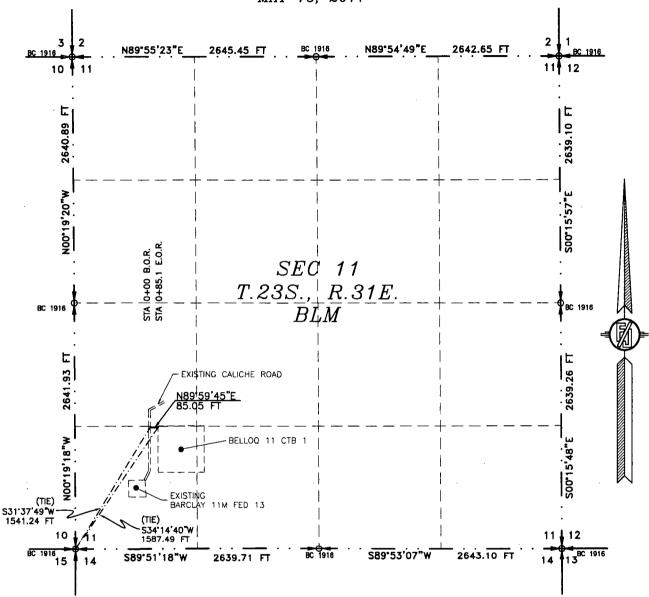


MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

SHEET 2-2 SURVEY NO. 5240

ACCESS ROAD PLAT ACCESS ROAD TO THE BELLOQ 11 CTB 1

DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO MAY 15, 2017



SEE NEXT SHEET (2-2) FOR DESCRIPTION



GENERAL NOTES

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

SHEET: 1-2

MADRON SURVEYING.

SURVEYOR CERTIFICATE

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

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO;

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

SURVEY NO. 5240

SBADNEW MEXICO

ACCESS ROAD PLAT ACCESS ROAD TO THE BELLOQ 11 CTB 1

DEVON ENERGY PRODUCTION COMPANY. L.P. CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO MAY 15, 2017

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 11, 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 SW/4 SW/4 OF SAID SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE SOUTHWEST CORNER OF SAID SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS S31'37'49"W, A DISTANCE OF 1541.24 FFET:

THENCE N89'59'45"E A DISTANCE OF 85.05 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHWEST CORNER OF SAID SECTION 11, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS S34'14'40"W, A DISTANCE OF 1587.49 FEET;

SAID STRIP OF LAND BEING 85.05 FEET OR 5.15 RODS IN LENGTH, CONTAINING 0.059 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SW/4 85.05 L.F. 5.15 RODS 0.059 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, I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY INTO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY IND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS, WHEREOF ATHIS, CERTIFICATE IS EXECUTED AT CARLSBAD.

201 NEW MEXICO

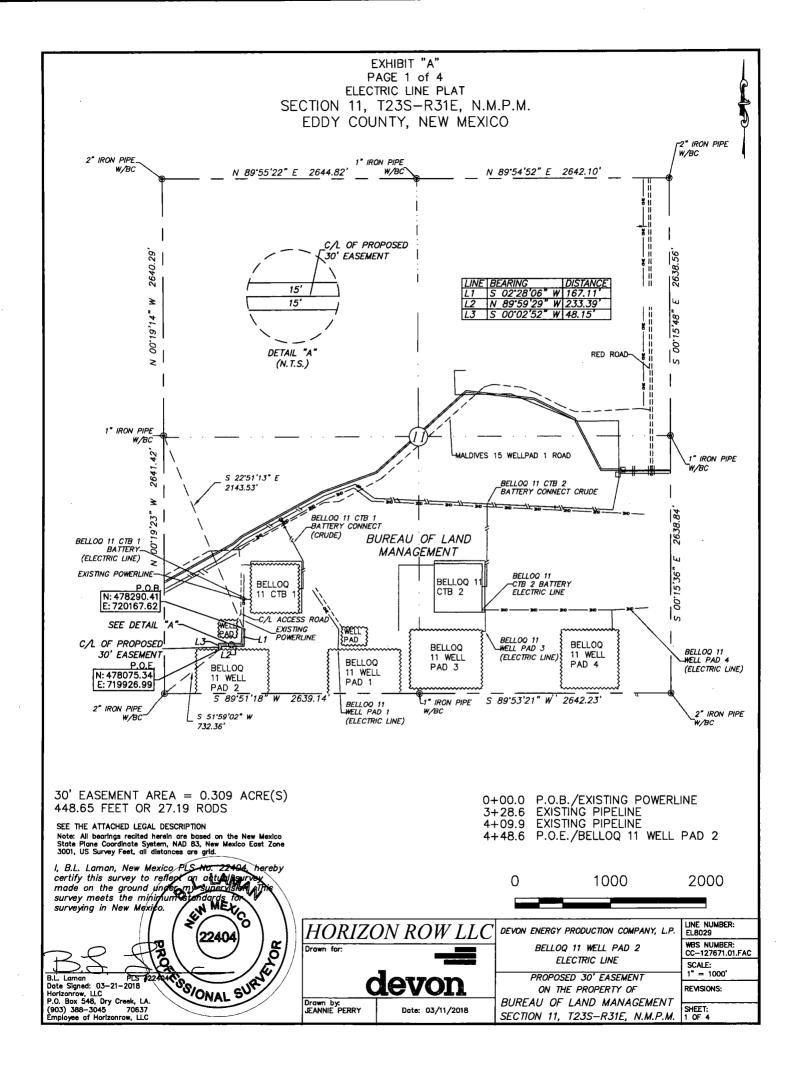
MÁDRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341

SURVEY NO. 5240

NEW MEXICO

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INC



SECTION 11, T23S-R31E, N.M.P.M., EDDY COUNTY, NEW MEXICO

ELECTRIC LINE PLAT

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of Section 11, Township 23 South, Range 31 East, N.M.P.M., Eddy County, New Mexico, and being out of a parcel of land owned by the Bureau of Land Management. Said centerline of easement being more particularly described as follows:

Commencing from a 1" iron pipe w/ BC found for the west quarter corner of Section 11, T23S-R31E, N.M.P.M., Eddy County, New Mexico;

Thence S 22°51'13" E, a distance of 2143.53' to the **Point of Beginning** of this easement, having coordinates of Northing=478290.41 feet, Easting=720167.62 feet, and continuing the following courses;

Thence S 02°28'06" W, a distance of 167.11' to an angle point;

Thence N 89°59'29" W, a distance of 233.39' to an angle point;

Thence S 00°02'52" W, a distance of 48.15' to the **Point of Ending**, having coordinates of Northing=478075.34 feet, Easting=719926.99 feet, from said point a 2" iron pipe w/ BC found for the southwest corner of Section 11, T23S-R31E, N.M.P.M., Eddy County, New Mexico bears S 51°59'02" W a distance of 732.36', covering a total of **448.65' or 27.19 rods** and having an area of **0.309 acres**.

NOTES:

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

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

B.L. Laman

PLS 22404

Date Signed: 03/21/2018 Horizon Row, LLC

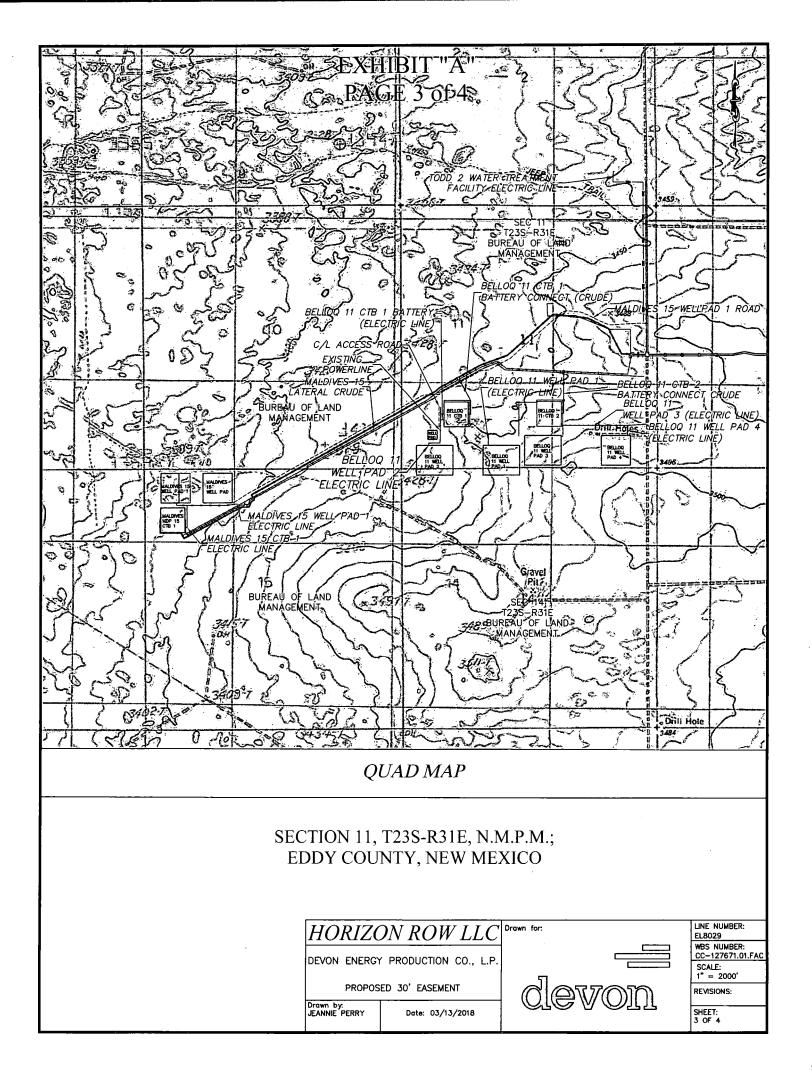
P.O. Box 548, Dry Creek, LA

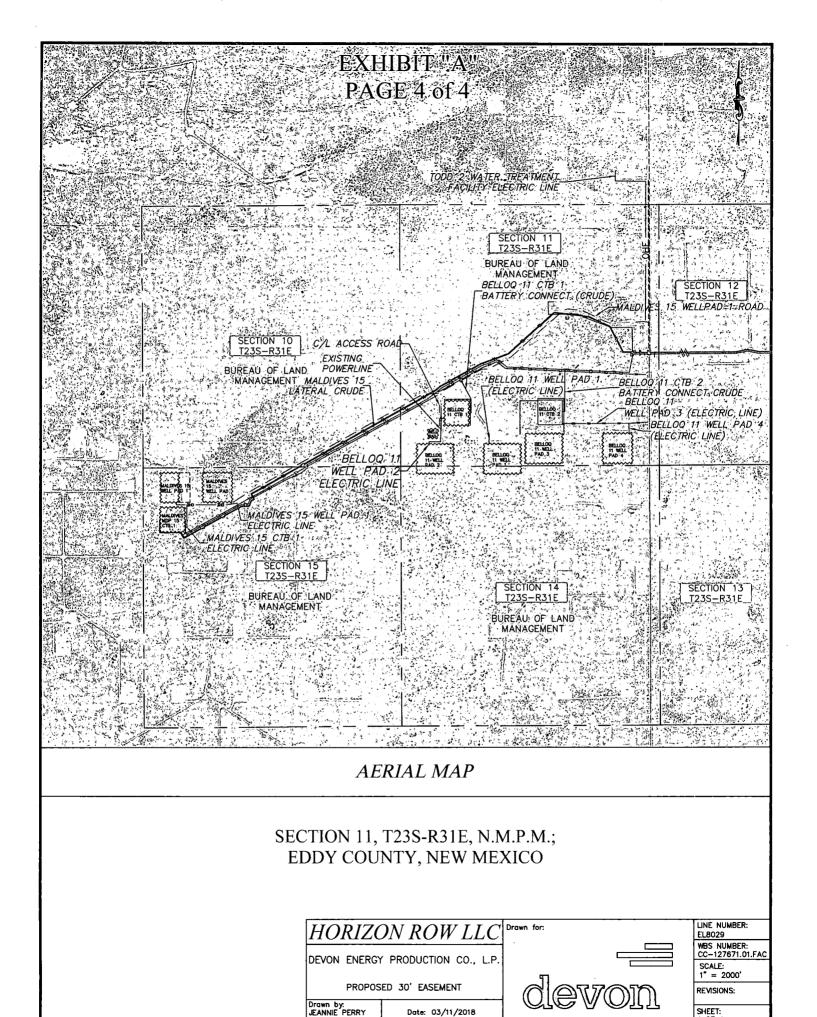
(903) 388-3045

70637

Employee of Horizon Row, LLC

NS/ONAL S







Receipt

Tracking Information

Pay.gov Tracking ID: 26F3G8H6

Agency Tracking ID: 75668973274

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: \$40,200.00

Transaction Date: 01/30/2019 11:23:59 AM EST

Payment Date: 01/31/2019

Company: Devon Energy Production Company, L.P.

APD IDs: 10400038616, 10400038618, 10400038619, 10400038571

Lease Numbers: NMNM0404441, NMNM0404441, NMNM0404441, NMNM0404441

Well Numbers: 521H, 523H, 513H, 522H

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



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

PWD Data Report

APD ID: 10400038616

Submission Date: 01/31/2019

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BELLOQ 11-2 FED STATE COM

Well Number: 521H

Well Type: OIL WELL

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:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BELLOQ 11-2 FED STATE COM Well Number: 521H

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: BELLOQ 11-2 FED STATE COM Well Number: 521H

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:

Assigned injection well API number?

Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BELLOQ 11-2 FED STATE COM Well Number: 521H

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

10/09/2019

APD ID: 10400038616 **Submission Date:** 01/31/2019

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BELLOQ 11-2 FED STATE COM

Well Number: 521H

Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Bond Information

Federal/Indian APD: FED

BLM Bond number: CO1104

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: