Form 3160-3 (June 2015) UNITED STATE DEPARTMENT OF THE I BUREAU OF LAND MAN APPLICATION FOR PERMIT TO D	NTERIC			FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018 5. Lease Serial No. NMNM016348 6. If Indian, Allotee or Tribe Name			
1b. Type of Well: Image: Control of Well Image: Control of Well: Image: Control of Well	EENTER Other ingle Zone	Multiple Zone		7. If Unit or CA Agr 8. Lease Name and LUSITANO 27-34 525H 31.95	Well No. FED CQ		
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY LP		6137.	. N	9. API-Well No. (30-015	. 45	635	
3a. Address 333 West Sheridan Avenue Oklahoma City OK 73102	3b. Phon (800)58	e No. <i>(include area cod</i> 3-3866	le)	JO. Field and Pool, of JENNINGS, WEST	•	•	
 4. Location of Well (Report location clearly and in accordance At surface NWNE / 385 FNL / 1874 FEL / LAT 32.107 At proposed prod. zone SWSE / 20 FSL / 1430 FEL / LA 	4968 / LO	NG -103.7634021	052	11. Sec., T. R. M. or SEC 27 / T25S / R			
14. Distance in miles and direction from nearest town or post off	fice*			12. County or Parish EDDY	1	13. State NM	
 15. Distance from proposed* location to nearest property or lease line, fl. (Also to nearest drig, unit line, if any) 	16. No o 840	f acres in lease	17. Spaci 320	ng Unit dedicated to the	nis well	I	
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 		osed Depth	20./BLM	/BIA Bond No. in file 01104			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3333 feet	01/04/20	oximate date work will 20	start*	23. Estimated durati 30 days	on		
The following, completed in accordance with the requirements of (as applicable) 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office	of Onshore	Oil and Gas Order No. 4. Bond to cover th Item 20 above). he 5. Operator certific	ne operatior cation.	Hydraulic Fracturing r is unless covered by ar mation and/or plans as	n existing	bond on file (see	
25. Signature (Electronic Submission)		me (Printed/Typed) da Good / Ph: (405)5		Date 10/16/2018			
Title (Regulatory Compliance Professional							
Approved by (Signature) (Electronic Submission)		me (Printed/Typed) dy Layton / Ph: (575)	234-5959		Date 01/11/2	2019	
Title Assistant Field Manager Lands & Minerals	CA	fice RLSBAD			L		
Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval; if any, are attached.	nt holds leg	gal or equitable title to the	hose rights	in the subject lease w	hich wou	ld entitle the	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



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INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

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

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

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

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

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

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

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

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

Additional Operator Remarks

Location of Well

SHL: NWNE / 385 FNL / 1874 FEL / TWSP: 25S / RANGE: 31E / SECTION: 27 / LAT: 32.1074968 / LONG: -103.7634021 (TVD: Offeet, MD: Offeet)
 PPP: NWNE / 100 FNL / 1430 FEL / TWSP: 25S / RANGE: 31E / SECTION: 27 / LAT: 32.1082735 / LONG: -103.76192020 (TVD: 8466 feet, MD: 8504 feet
 BHL: SWSE / 20 FSL / 1430 FEL / TWSP: 25S / RANGE: 31E / SECTION: 34 / LAT: 32.079509 / LONG: -103.762052 ((TVD: 8805 feet, MD: 19104 feet))

BLM Point of Contact

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

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.

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy
LEASE NO.:	NM016348
WELL NAME & NO.:	Lusitano 27-34 FED COM 525H
SURFACE HOLE FOOTAGE:	385' FNL & 1874' FEL
BOTTOM HOLE FOOTAGE	20' FSL & 1430' FEL
LOCATION:	Section 27, T. 25 S., R 31 E., NMPM
COUNTY:	Eddy County, New Mexico

Potash		C Secretary	
Cave/Karst Potential	C Low		High
Variance		• Flex Hose	• Other
Wellhead	C Conventional	Multibowl	
Other	□4 String Area	Capitan Reef	□WIPP

A. Hydrogen Sulfide

 Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

- 1. The **13 3/8** inch surface casing shall be set at approximately **931** feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u> <u>hours</u> 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, which shall be set at 4,270 feet, is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Excess cement calculates to 10% - additional cement may be required. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.
 - In <u>Medium/High Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the 5 1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. Excess cement calculates to negative 12% - additional cement will be required to reach 200 ft into previous casing.

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:

- i. 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.
- ii. 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:

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 **3,000 (3M)** psi.

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- 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.

JJP 1102019

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GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Chaves and Roosevelt Counties
 Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
 During office hours call (575) 627-0272.
 After office hours call (575)

Eddy County

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

- Lea County
 Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on

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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 Rustley top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 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.
- <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24</u> hours. WOC time will be recorded in the driller's log.
- <u>Wait on cement (WOC) for Water Basin:</u> 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 <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

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

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- a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time.
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test

does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:	DEVON ENERGY PRODUCTION COMPANY LP
LEASE NO.:	NMNM125635
WELL NAME & NO.:	LUSITANO 27-34 FED COM 525H
SURFACE HOLE FOOTAGE:	385'/N & 1874'/E
BOTTOM HOLE FOOTAGE	20'/S & 1430'/E
LOCATION:	SECTION 27, T25S, R31E, NMPM
COUNTY:	EDDY

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
Below Ground-level Abandoned Well Marker
Cave/Karst
Range
Watershed
Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
🛛 Production (Post Drilling)
Well Structures & Facilities
Pipelines
Electric Lines
Interim Reclamation
Final Abandonment & Reclamation

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I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

IV. NOXIOUS WEEDS

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

V. SPECIAL REQUIREMENT(S) Build as you go no grading all pad just build the subpad.

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

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

Below ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at below 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.

This authorization is subject to your Certificate of Participation and/or Certificate of Inclusion under the New Mexico Candidate Conservation Agreement. Because it involves surface disturbing activities covered under your Certificate, your Habitat Conservation Fund Account with the Center of Excellence for Hazardous Materials Management (CEHMM) will be debited according to Exhibit B Part 2 of the Certificate of Participation.

Temporary Fence Crossing 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 fences.

Cattle Guard Requirement

Where entry is granted across a fence line for an access road, 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 with an appropriately sized cattle guard sufficient to carry out the project. Any new or existing cattle guards on the access 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. Once the road is abandoned, the fence would 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 fences.

Livestock Watering Requirement

The operator must contact the allotment holder prior to construction to identify the location of the water pipelines. The operator must take measures to protect the pipelines from compression or other damages. If the water pipelines are damaged or compromised in any way near the

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proposed project as a result of oil and gas activity, the operator is responsible for repairing the water pipelines 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 mprovements 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.

As stated above, the applicant through the CCA program contributes funds that are used for nabitat restoration projects identified by USFWS and BLM. Although the CCA program may not fully mitigate for impacts to habitat at the project site, it complies with the BLM mitigation rule.

In May 2008, the Pecos District Special Status Species Resource Management Plan Amendment (RMPA) was approved and is being implemented. In addition to the standard practices that minimize impacts, as listed above, the following COA will apply:

Chapter 2Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken, to minimize noise associated impacts which could disrupt breeding and nesting activities. Chapter 3Upon abandonment, a low profile abandoned well marker will be installed to prevent raptor perching.

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 power line structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. The holder without liability or expense shall make such modifications and/or additions to the United States.

The presence of short-eared owls is a surprising and scientifically interesting incident. The preparation and construction of CDU 34-34 pad and CTB #1 and CDU 27-27 pad and CTB #1 should be delayed until after September to allow confirmation and documentation of the nesting status.

<u>Construction Mitigation</u>

n order to mitigate the impacts from construction activities on cave and karst resources, the following Conditions of Approval will apply to this APD:

In the event that any underground voids are encountered during construction activities, construction activities will be halted and the BLM will be notified immediately. No Blasting to prevent geologic structure instabilities. Pad Berming to minimize effects of any spilled contaminates.

Drilling Mitigation

Federal regulations and standard Conditions of Approval applied to all APDs require that adequate measures are taken to prevent contamination to the environment. Due to the extreme

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sensitivity of the cave and karst resources in this project area, the following additional Conditions of Approval will be added to this APD.

To prevent cave and karst resource contamination the following will be required.

- Closed Mud System Using Steel Tanks with All Fluids and Cuttings Hauled Off.
- Rotary drilling with fresh water where cave or karst features are expected to prevent contamination of freshwater aquifers.
- Directional Drilling allowed after at least 100 feet below the cave occurrence zone to prevent additional impacts resulting from directional drilling.
- Lost Circulation zones logged and reported in the drilling report so BLM can assess the situation and work with the operator on corrective actions.
- Additional drilling, casing, and cementing procedures to protect cave zones and fresh water aquifers. See Drilling COAs.

Production Mitigation

n order to mitigate the impacts from production activities and due to the nature of karst terrain, he following Conditions of Approval will apply to this APD:

Tank battery liners and berms to minimize the impact resulting from leaks.

Leak detection system to provide an early alert to operators when a leak has occurred. Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of line failures used in production or drilling.

<u>Residual and Cumulative Mitigation</u>

Annual pressure monitoring will be performed by the operator. If the test results indicate a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

Plugging and Abandonment Mitigation

<u>Abandonment Cementing</u>: Upon well abandonment in high cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

- The entire well pads and CTB pads will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad and CTB pad. Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pads shall be allowed to enter the well pad. The berm shall be maintained through the life of the well and CTB and after interim reclamation has been completed.
- Any water erosion that may occur due to the construction of the well pads and CTB pads during the life of the wells and CTB's will be corrected within two weeks and proper measures will be taken to prevent future erosion.

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CONSTRUCTION

Chapter 4NOTIFICATION

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.

Chapter 5TOPSOIL

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.

Chapter 6CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

Chapter 7FEDERAL 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.

Chapter 8WELL 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.

Chapter 9EXCLOSURE FENCING (CELLARS & PITS)

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Exclosure Fencing

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

Chapter 10 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.

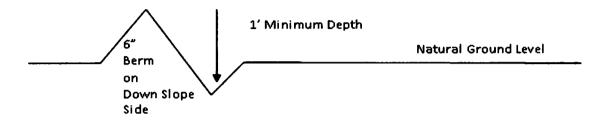
Drainage

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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: $\underline{400'}_{4\%}$ + 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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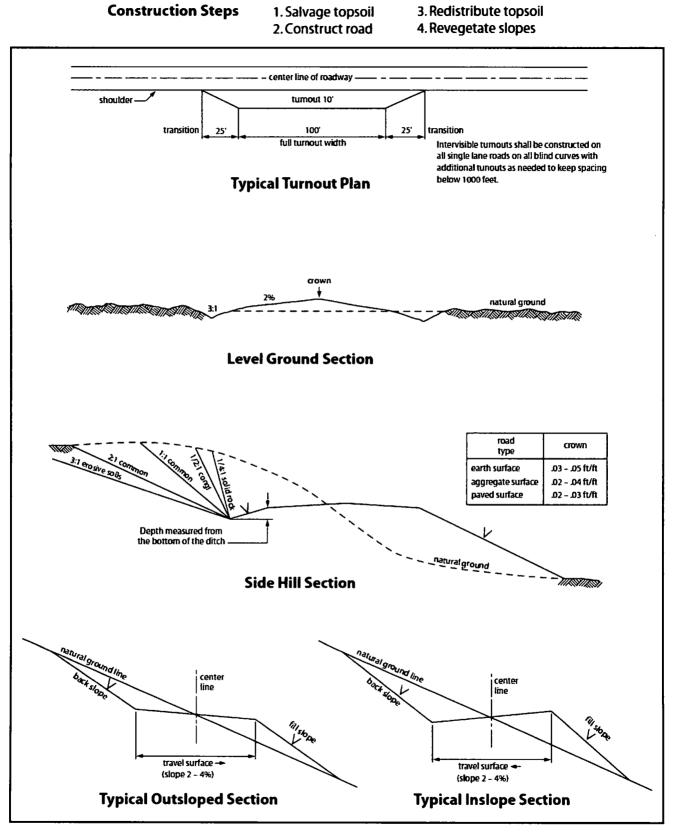


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VI. PRODUCTION (POST DRILLING)

• 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 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, <u>Shale Green</u> from the BLM Standard Environmental Color Chart (CC-001: June 2008).

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, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, <u>et seq</u>.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting

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

5. All construction and maintenance activity will be confined to the authorized right-of-way.

6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this right-of-way will be $\underline{30}$ feet:

Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed $\underline{20}$ feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)

Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed <u>30</u> feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)

The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

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

10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to

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match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.

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

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

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

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

14. The pipeline will be identified by signs at the point of origin and completion of the right-ofway 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.

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

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of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

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

- 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.
- 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.

This authorization is subject to your Certificate of Participation and/or Certificate of Inclusion under the New Mexico Candidate Conservation Agreement. Because it involves surface disturbing activities covered under your Certificate, your Habitat Conservation Fund Account with the Center of Excellence for Hazardous Materials Management (CEHMM) will be debited according to Exhibit B Part 2 of the Certificate of Participation.

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

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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.

Special Stipulations:

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

<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, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must

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

This authorization is subject to your Certificate of Participation and/or Certificate of Inclusion under the New Mexico Candidate Conservation Agreement. Because it involves surface disturbing activities covered under your Certificate, your Habitat Conservation Fund Account with the Center of Excellence for Hazardous Materials Management (CEHMM) will be debited according to Exhibit B Part 2 of the Certificate of Participation.

VII. 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).

VIII. FINAL ABANDONMENT & RECLAMATION

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

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

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

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

Below Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at below ground level on a plate containing the pertinent information for the plugged well. A GPS point will be given to the BLM.

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Seed Mixture for LPC Sand/Shinnery Sites

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

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

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

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

*Pounds of pure live seed:

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

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



Operator Certification

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

NAME: Linda Good Signed on: 10/16/2018 Title: Regulatory Compliance Professional Street Address: 333 West Sheridan Avenue City: Oklahoma City State: OK Zip: 73102 Phone: (405)552-6558 Email address: Linda.Good@dvn.com **Field Representative** Representative Name: Ray Vaz

Street Address: 333 West Sheridan Ave. City: Oklahoma City State: OK Phone: (405)552-4902

Email address: ray.vaz@dvn.com

Zip: 73102

VAFMSS

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

Application Data Report

		CARLES FOR THE	NA AL			
APD ID: 10400035224	Submissi	on Date: 10/16/2018	Highlighted data			
Operator Name: DEVON ENERGY PRODU	JCTION COMPANY LP		reflects the most recent changes			
Well Name: LUSITANO 27-34 FED COM	Well Num	ber: 525H	Show Final Text			
Well Type: OIL WELL	Well Worl	(Type: Drill				
	··· •					
Section 1 - General						
APD ID: 10400035224	Tie to previous NOS?	Submi	ssion Date: 10/16/2018			
BLM Office: CARLSBAD	User: Linda Good		tory Compliance			
Federal/Indian APD: FED	Professional Is the first lease penetrated for production Federal or Indian? FED					
Lease number: NMNM016348	Lease Acres: 840					
Surface access agreement in place?	Allotted?	Reservation:				
Agreement in place? NO	Federal or Indian agree	ment:				
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	PRODUCT	ON CON	/PANY LF
•	~						

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? EXISTING	Mater Development Plan nam	Mater Development Plan name: Cotton Draw 1 MDP							
Well in Master SUPO? NO	Master SUPO name:								
Well in Master Drilling Plan? NO	Master Drilling Plan name:								
Well Name: LUSITANO 27-34 FED COM	Well Number: 525H	Well API Number:							
Field/Pool or Exploratory? Field and Pool	Field Name: JENNINGS, WES	T Pool Name: BONE SPRING							
Is the proposed well in an area containing other r	nineral resources? NATURAL GAS	OIL							

Describe oth	ner minerals:				
Is the propo	sed well in a Helium produc	tion area? N	Use Existing Well Pad?	NO	New surface disturbance?
Type of Well	Pad: MULTIPLE WELL		Multiple Well Pad Name		Number: 4
Well Class:	HORIZONTAL		LUSITANO 27 WELLPA Number of Legs: 1	D	
Well Work T	ype: Drill				
Well Type: C	DIL WELL				
Describe We	ell Type:				
Well sub-Ty	pe: INFILL				
Describe su	b-type:				
Distance to	town: C	Distance to ne	arest well: 945 FT	Distanc	e to lease line: 385 FT
Reservoir w	ell spacing assigned acres I	Measurement:	320 Acres		
Well plat:	Lusitano_27_34_Fed_Com_	525H_C_102_	signed_20181015122628	.pdf	
	Lusitano_27_34_Fed_Com_	525H_Addition	al_points_201810151226	40.pdf	
Well work st	art Date: 01/04/2020		Duration: 30 DAYS		

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number: 6435A

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	DM	TVD
SHL Leg #1	385	FNL	187 4	FEL	25S	31E	27		32.10749 68	- 103.7634 021	EDD Y	NEW MEXI CO		F		333 3	0	0
KOP Leg #1	50	FNL	143 0	FEL	25S	31E	27	Aliquot NWNE	32.10841 1	- 103.7619 205	EDD Y	NEW MEXI CO		F	NMNM 016348	- 489 9	826 3	823 2
PPP Leg #1	100	FNL	143 0	FEL	25S	31E	27		32.10827 35	- 103.7619 212	EDD Y	NEW MEXI CO			NMNM 016348	- 513 3	850 4	846 6

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

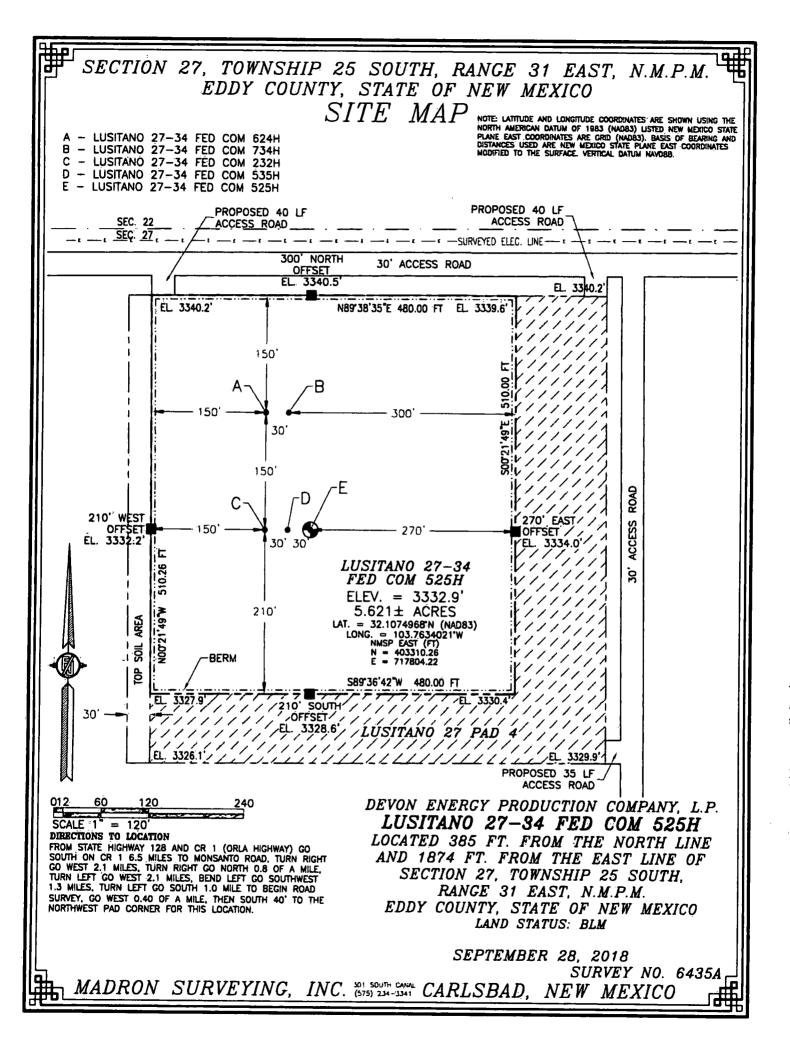
Well Name: LUSITANO 27-34 FED COM

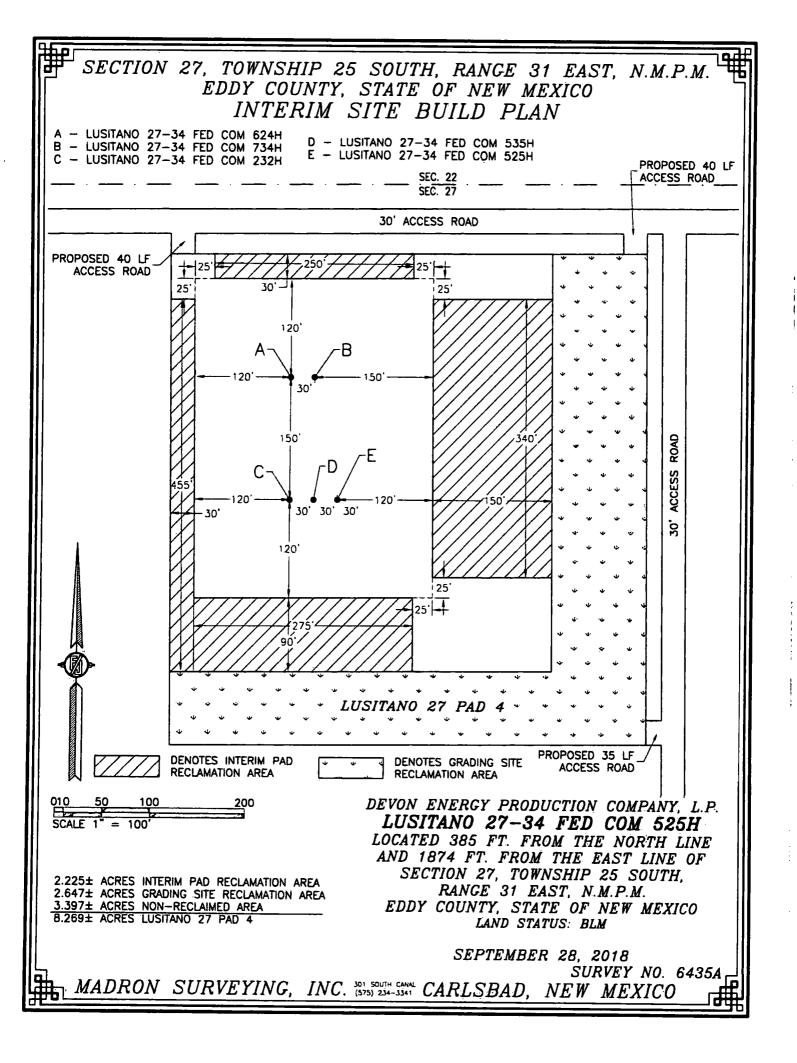
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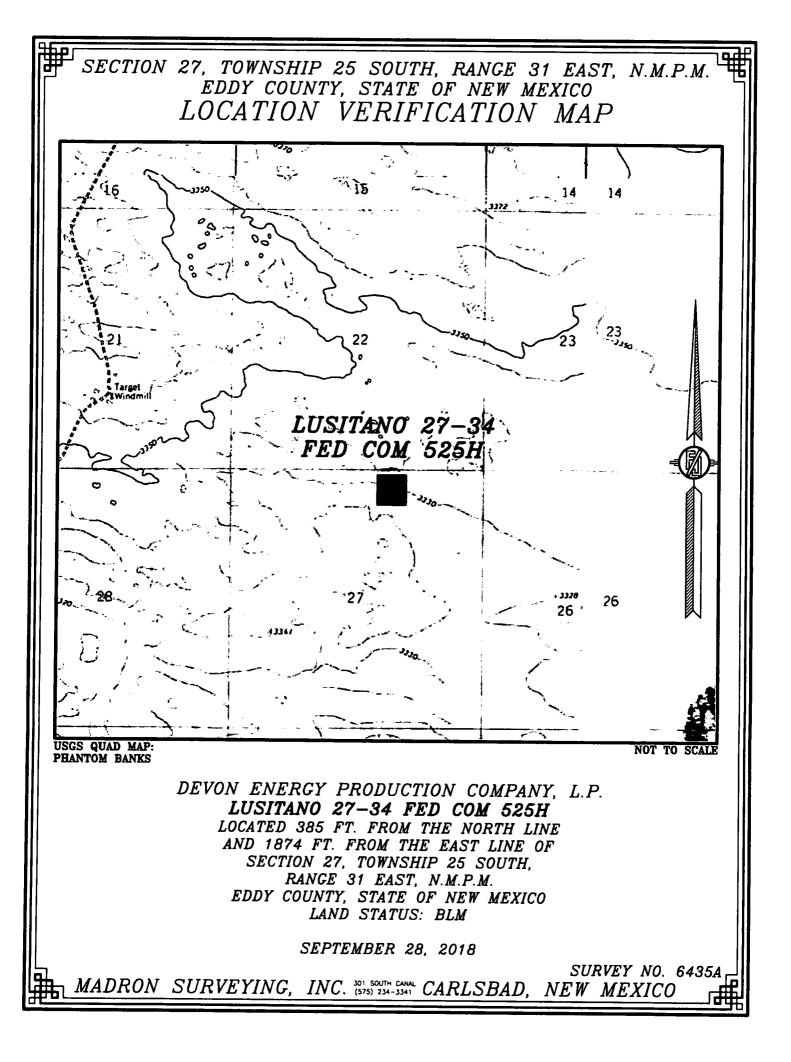
Well Number: 525H

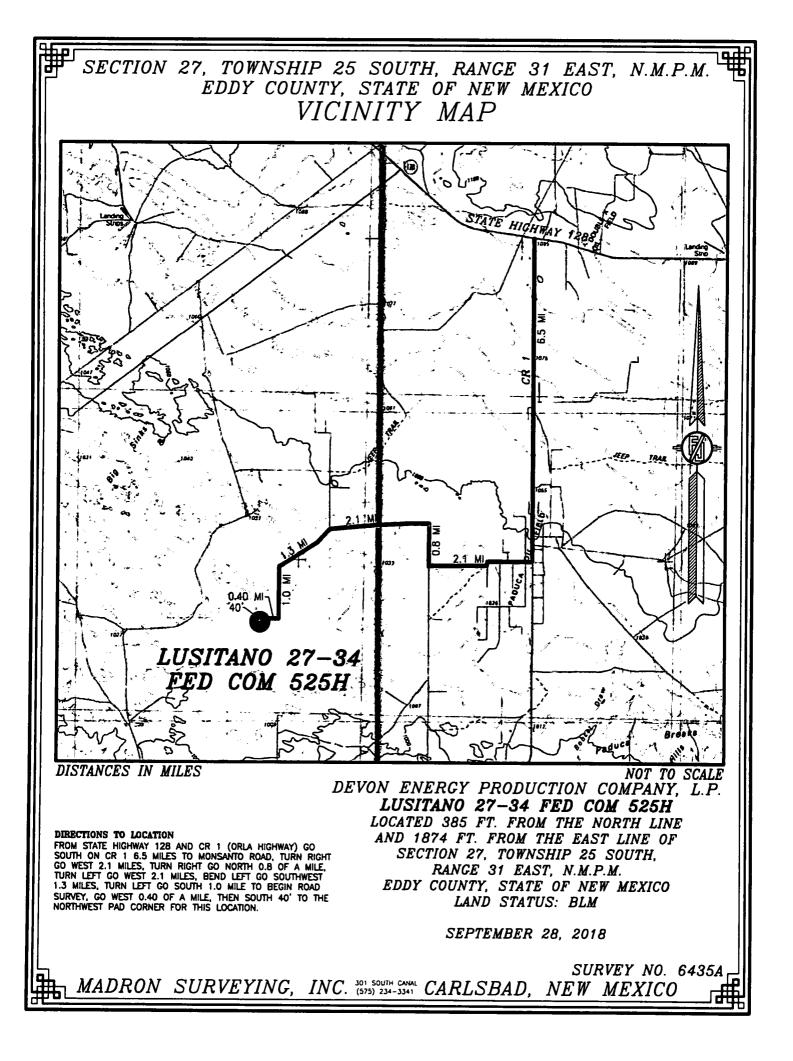
	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
EXIT	20	FSL	143	FEL	25S	31E	34	Aliquot	32.07950		EDD	1	NEW	F	NMNM	-	191	880
Leg			0				•	SWSE	9	103.7620	Y	MEXI			125635	547	04	5
#1										52		со	со			2		
BHL	20	FSL	143	FEL	25S	31E	34	Aliquot	32.07950	-	EDD	NEW	NEW	F	NMNM	-	191	880
Leg			0					SWSE	9	103.7620	Y	MEXI	MEXI		125635	547	04	5
#1										52		co	co			2		

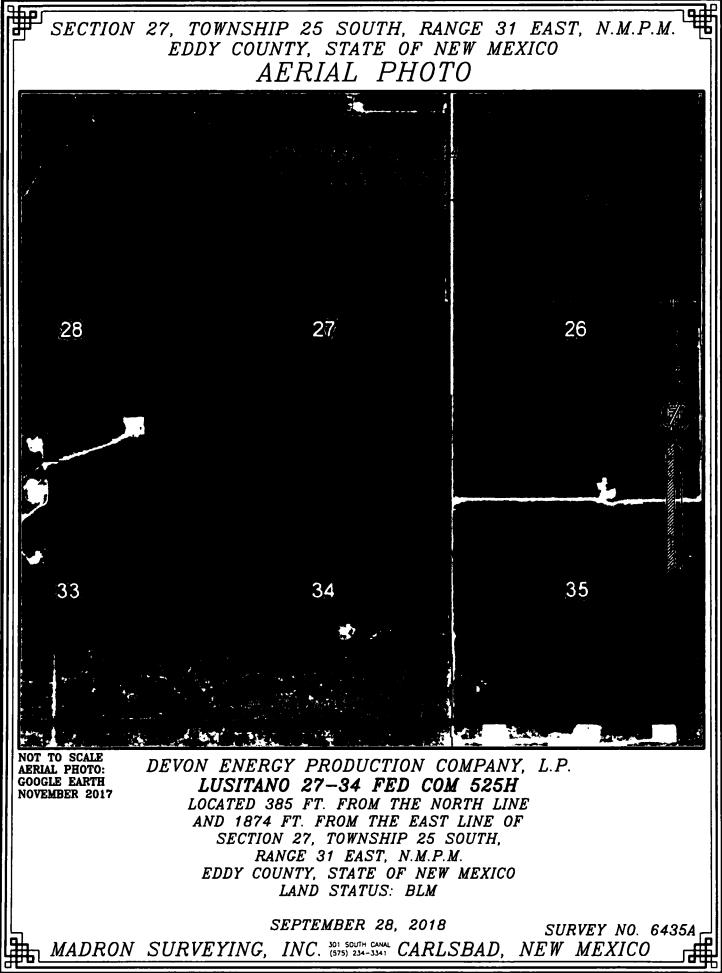
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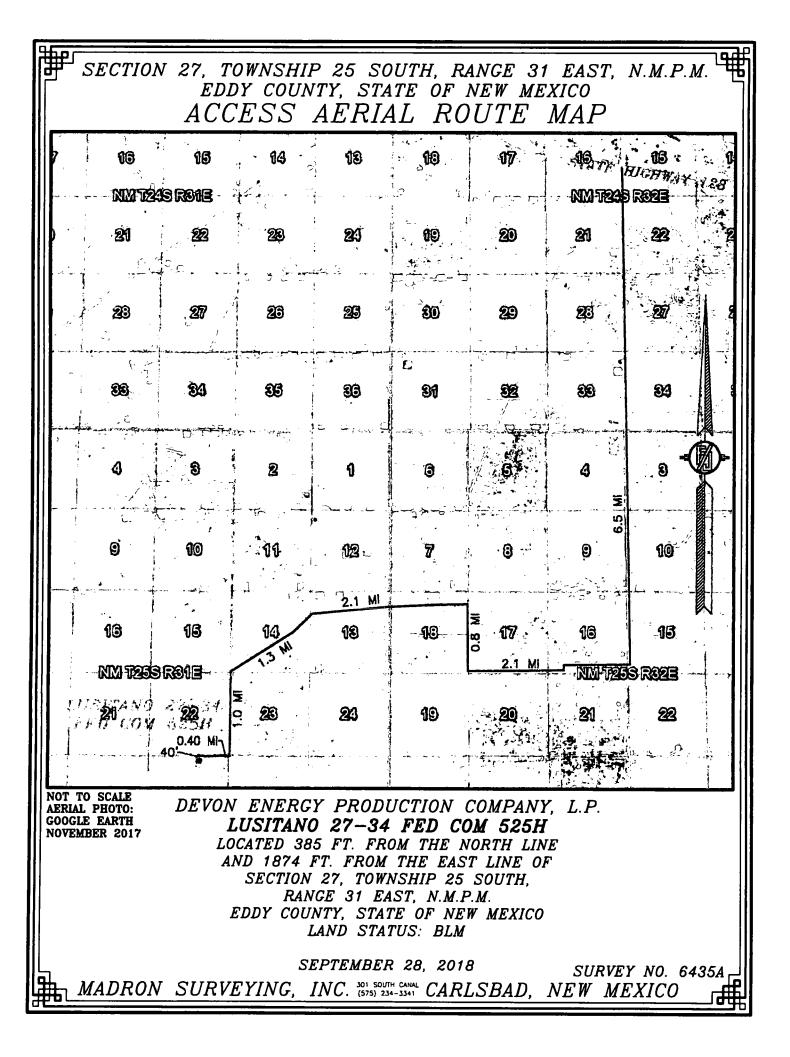


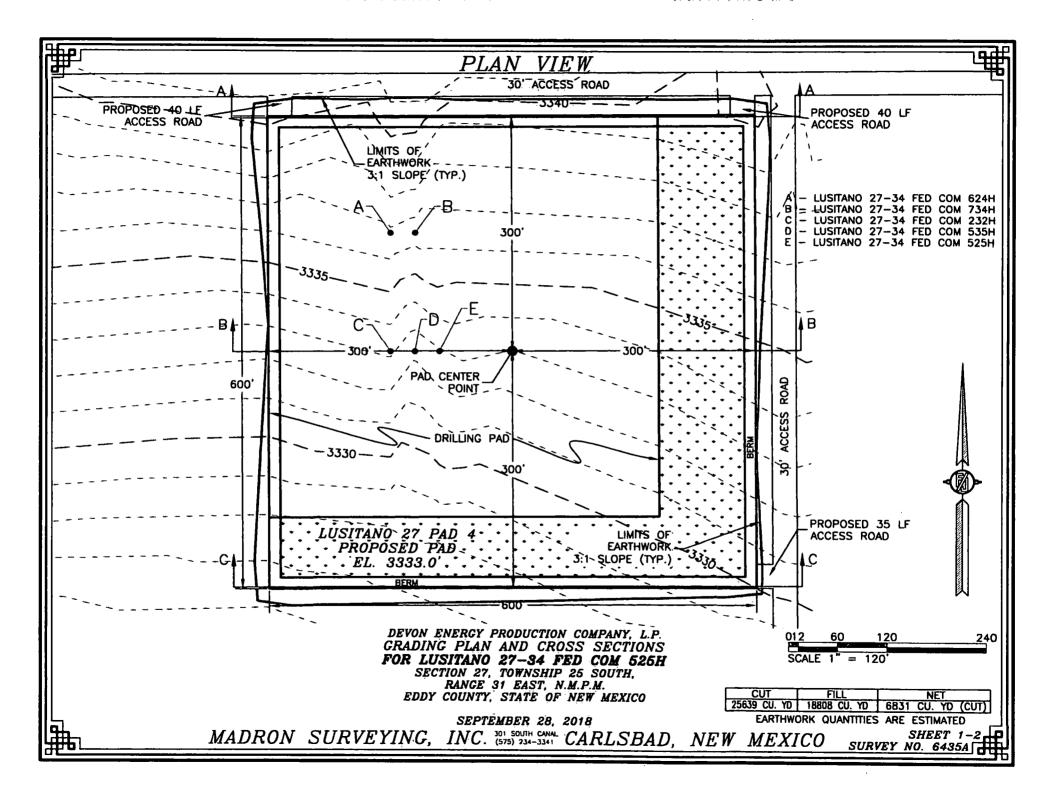


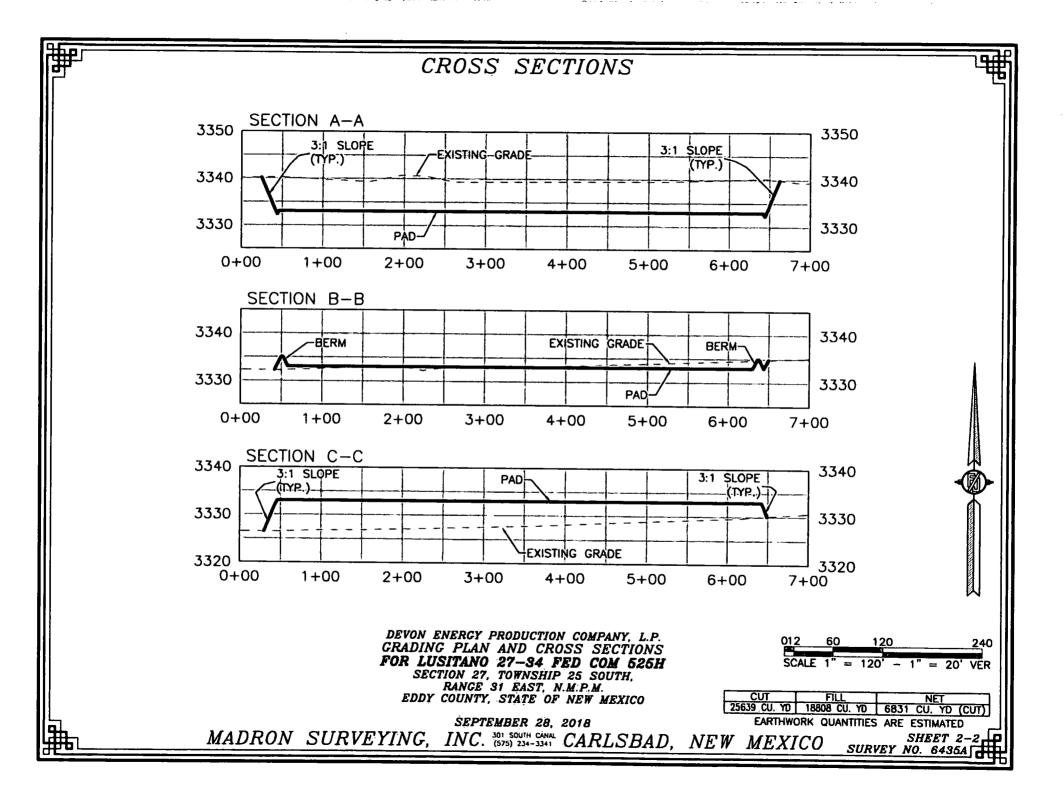


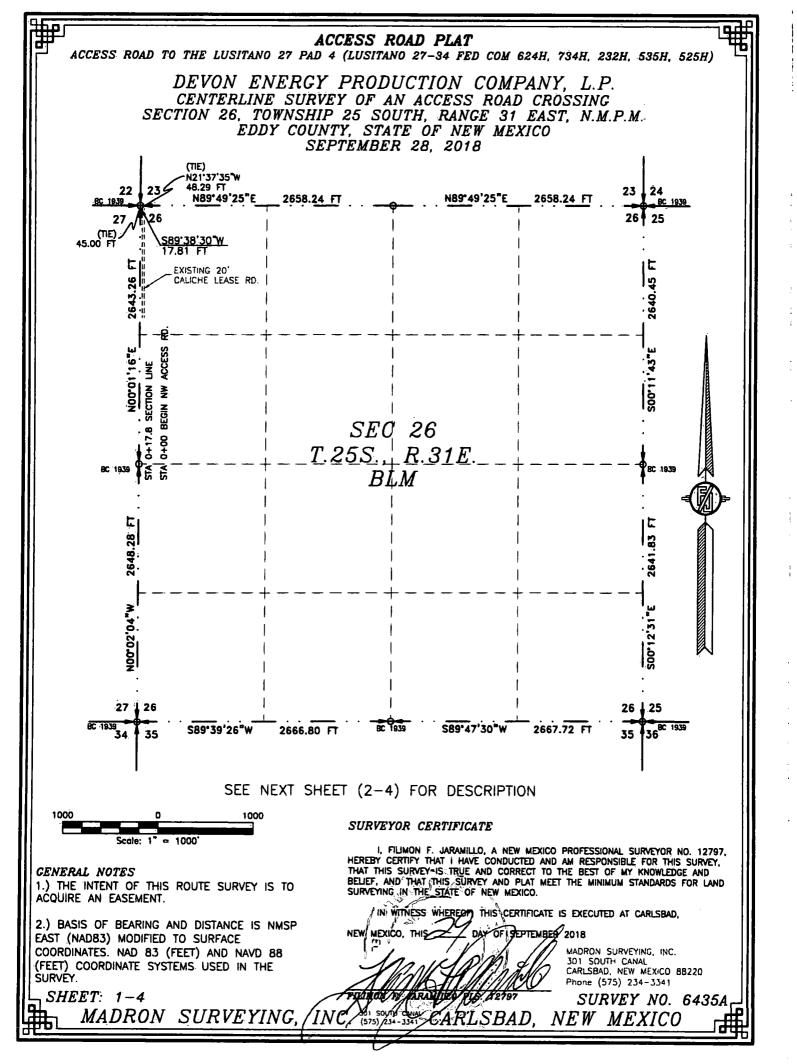












	CESS ROAD PLAT (LUSITANO 27-34 FED COM 624H, 734H, 232H, 535H, 525H)	Ħ
CENTERLINE SURVE SECTION 26, TOWNSHIP EDDY COUNT	PRODUCTION COMPANY, L.P. Y OF AN ACCESS ROAD CROSSING 25 SOUTH, RANGE 31 EAST, N.M.P.M. Y, STATE OF NEW MEXICO TEMBER 28, 2018	
A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AN SURVEY:	DESCRIPTION LAND MANAGEMENT LAND IN SECTION 26, TOWNSHIP 25 SOUTH, RANGE 31 ND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE	
NORTHWEST ACCESS ROAD BEGINNING AT A POINT WITHIN THE NW/4 NW/4 OF SAID NORTHWEST CORNER OF SAID SECTION 26, TOWNSHIP 25 48.29 FEET;	SECTION 26, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N21'37'35'W, A DISTANCE OF	
THENCE S89'38'30"W A DISTANCE OF 17.81 FEET THE TE	ERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF , N.M.P.M. BEARS NOO'01'16'E, A DISTANCE OF 45.00 FEET;	
SAID STRIP OF LAND BEING 17.81 FEET OR 1.08 RODS I BY FORTIES AS FOLLOWS:	IN LENGTH, CONTAINING 0.012 ACRES MORE OR LESS AND BEING ALLOCATED	
NW/4 NW/4 17.81 LF. 1.08 RODS 0.012 ACRES		
	SURVEYOR CERTIFICATE	
<i>GENERAL NOTES</i> 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.	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 BELLEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.	
2.) BASIS OF BEARING AND DISTANCE IS NMSP		

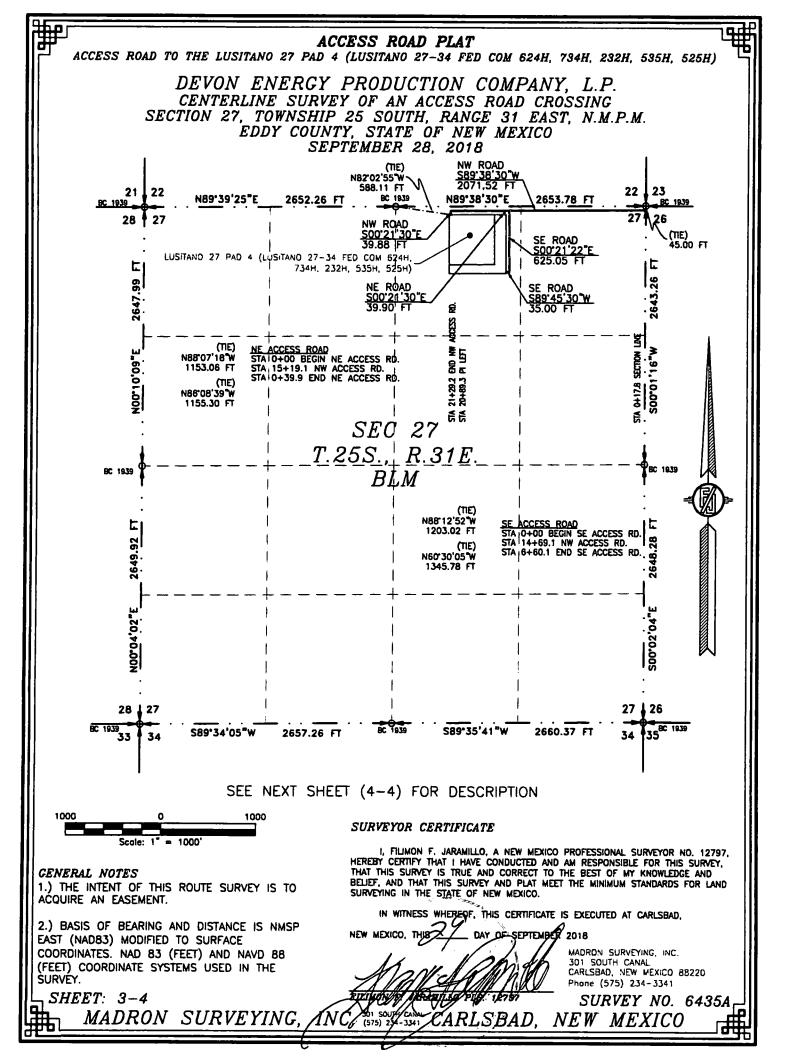
EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO BB22D Phone (575) 234-3341 , MON/ SHEET: 2-4 ARAMILO PLS. 12791 SURVEY NO. 6435A INC. (375) / 234-334 CARLSBAD, MADRON SURVEYING NEW MEXICO

NEW MEXICO, THE

SEPTEMBER 2018

DAY. , ÈF



ACCESS ROAD PLAT ACCESS ROAD TO THE LUSITANO 27 PAD 4 (LUSITANO 27-34 FED COM 624H, 734H, 232H, 535H, 525H) DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 27, TOWNSHIP 25 SOUTH. RANGE 31 EAST. N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO SEPTEMBER 28, 2018 DESCRIPTION STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 27, TOWNSHIP 25 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: NORTHWEST ACCESS ROAD BEGINNING AT A POINT WITHIN THE NE/4 NE/4 OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTHEAST CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS NO0'01'16"E, A DISTANCE OF 45.00 EFFT THENCE S89'38'30"W A DISTANCE OF 2071.52 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED: THENCE SOO'21'30"E A DISTANCE OF 39.88 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 27. TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS NB2'02'55 W. A DISTANCE OF 588.11 FEET; SAID STRIP OF LAND BEING 2111.40 FEET OR 127.97 RODS IN LENGTH, CONTAINING 1.454 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS: NE/4 NE/4 1326.90 L.F. 80.42 RODS 0.914 ACRES NW/4 NE/4 784.50 L.F. 47.55 RODS 0.540 ACRES NORTHEAST ACCESS ROAD BEGINNING AT A POINT WITHIN THE NW/4 NE/4 OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N88'07'18 W, A DISTANCE OF 1153.06 FEET; THENCE SOO'21'30"E A DISTANCE OF 39.90 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N86'08'39 W, A DISTANCE OF 1155.30 FEET; SAID STRIP OF LAND BEING 39.90 FEET OR 2.42 RODS IN LENGTH, CONTAINING 0.027 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS: NW/4 NE/4 39.90 L.F. 2.42 RODS 0.027 ACRES SOUTHEAST ACCESS ROAD BEGINNING AT A POINT WITHIN THE NW/4 NE/4 OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS NBB 12'52"W, A DISTANCE OF 1203.02 FEET; THENCE SOU'21'22"E A DISTANCE OF 625.05 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S89'45'30"W A DISTANCE OF 35.00 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS NEO'30'05"W, A DISTANCE OF 1345.78 FEET: SAID STRIP OF LAND BEING 660.05 FEET OR 40.00 RODS IN LENGTH, CONTAINING 0.455 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS: NW/4 NE/4 660.05 L.F. 40.00 RODS 0.455 ACRES 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 **GENERAL NOTES** BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO. 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT. IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, 2.) BASIS OF BEARING AND DISTANCE IS NMSP DAY, OE 2018 NEW MEXICO, THIS SEPTEMBER EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 MADRON SURVEYING, INC. 301 SOUTH CANAL (FEET) COORDINATE SYSTEMS USED IN THE CARLSBAD, NEW MEXICO 88220 SURVEY. Phone (575) 234-3341 SHEET: 4-4 TLO ON SURVEY NO. 6435A 301 /5000 MADRON SURVEYING INC NEW CARLSBAD. 244-334 MEXICO (575)

C/AFMSS

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

Drilling Plan Data Report

01/14/2019

APD ID: 10400035224

Submission Date: 10/16/2018

Highlighted data reflects the most recent changes

Show Final Text

Well Name: LUSITANO 27-34 FED COM

Well Type: OIL WELL

Well Number: 525H

Well Work Type: Drill

Section 1 - Geologic Formations

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	UNKNOWN	3404	Ö	Ö	ALLUVIUM	NONE	No
2	RUSTLER	2498	906	906	LIMESTONE	NONE	No
3	BASE OF SALT	-867	4271	4271	SALT	NONE	No
4	DELAWARE	-887	4291	4291	SANDSTONE	NATURAL GAS,OIL	No
5	BONE SPRING	-5352	8756	8756	LIMESTONE	NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M

Rating Depth: 4391

Equipment: BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the wellhead system. BOP/BOPE will be tested by an independent service company per Onshore Oil & 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:

Lusitano_27_34_Fed_Com_525H_3M_BOPE_CK_20181015123753.pdf

BOP Diagram Attachment:

Lusitano_27_34_Fed_Com_525H_3M_BOPE_CK_20181015123804.pdf

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: LUSITANO 27-34 FED COM

Well Number: 525H

Pressure Rating (PSI): 3M

Rating Depth: 8805

Equipment: BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the wellhead system. BOP/BOPE will be tested by an independent service company per Onshore Oil & 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

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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:

Lusitano_27_34_Fed_Com_525H_3M_BOPE_CK_20181015123828.pdf

BOP Diagram Attachment:

Lusitano_27_34_Fed_Com_525H_3M_BOPE_CK_20181015123838.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	931	0	931	-6993	-7781	931	H-40	48	STC	1.12 5	1	BUOY	1.6	BUOY	1.6
		12.2 5	9.625	NEW	API	N	0	4391	0	4391	-6993	- 11343		J-55	40	LTC	1.12 5	1	BUOY	1.6	BUOY	1.6
	PRODUCTI ON	8.75	5.5	NEW	API	N	0	19104	0	8805	-6993	- 17388	19104	P- 110		OTHER - BTC	1.12 5	1	BUOY	1.6	BUOY	1.6

Casing Attachments

Well Name: LUSITANO 27-34 FED COM

Well Number: 525H

Casing Attachments	Casing	Attachments	
--------------------	--------	-------------	--

Casing ID: 1 String Type: SURFACE			
Inspection Document:			
Spec Document:			
Tapered String Spec:	·		
		·	
Casing Design Assumptions and Worksheet(s):	•		
Lusitano_27_34_Fed_Com_525H_SurfCsg_Ass_20181015123953.pdf	·		
Casing ID: 2 String Type: INTERMEDIATE			
Inspection Document:			
Spec Document:			
Tapered String Spec:			
Casing Design Assumptions and Worksheet(s):			
Lusitano_27_34_Fed_Com_525H_Int_Csg_Ass_20181015124137.pdf			
Casing ID: 3 String Type: PRODUCTION			
Inspection Document:			
Spec Document:			
Tapered String Spec:			
Casing Design Assumptions and Worksheet(s):			
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Section 4 - Cement

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: LUSITANO 27-34 FED COM

Well Number: 525H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	931	972	1.33	13.2	1293	100	С	Class C + adds

INTERMEDIATE	Lead	0	3891	678	1.91	9	1316	50	C	Class C + adds
INTERMEDIATE	Tail	3891	4391	196	1.33	13.2	261	50	С	Class C + adds
PRODUCTION	Lead	3891	8263	341	3.27	9	1219	10	TUNED	Class C + adds
PRODUCTION	Tail	8263	1910 4	1887	1.2	13.2	2756	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 (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics	
931	4391	SALT SATURATED	10	10.5								

Well Name: LUSITANO 27-34 FED COM

Well Number: 525H

MUD MUD 4391 1910 WATER-BASED 8.5 9 9 10	C Top Depth	Bottom Depth 6	ed L Pn W WATER-BASED	S Min Weight (Ibs/gal)	to Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
			MUD									
	4391		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: 4121

Anticipated Surface Pressure: 2183.9

Anticipated Bottom Hole Temperature(F): 141

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:

Lusitano_27_34_Fed_Com_525H_H2S_Plan_20181015125107.pdf

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: LUSITANO 27-34 FED COM

Well Number: 525H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Lusitano_27_34_Fed_Com_525H_Dir_Plan_20181015125141.pdf Lusitano_27_34_Fed_Com_525H_Survey_20181015125213.pdf Lusitano_27_34_Fed_Com_525H_Additional_points_20181015125227.pdf

Other proposed operations facets description:

Closed Loop Design Drilling Plan MB Verb MB Wellhd Gas Capture Plan

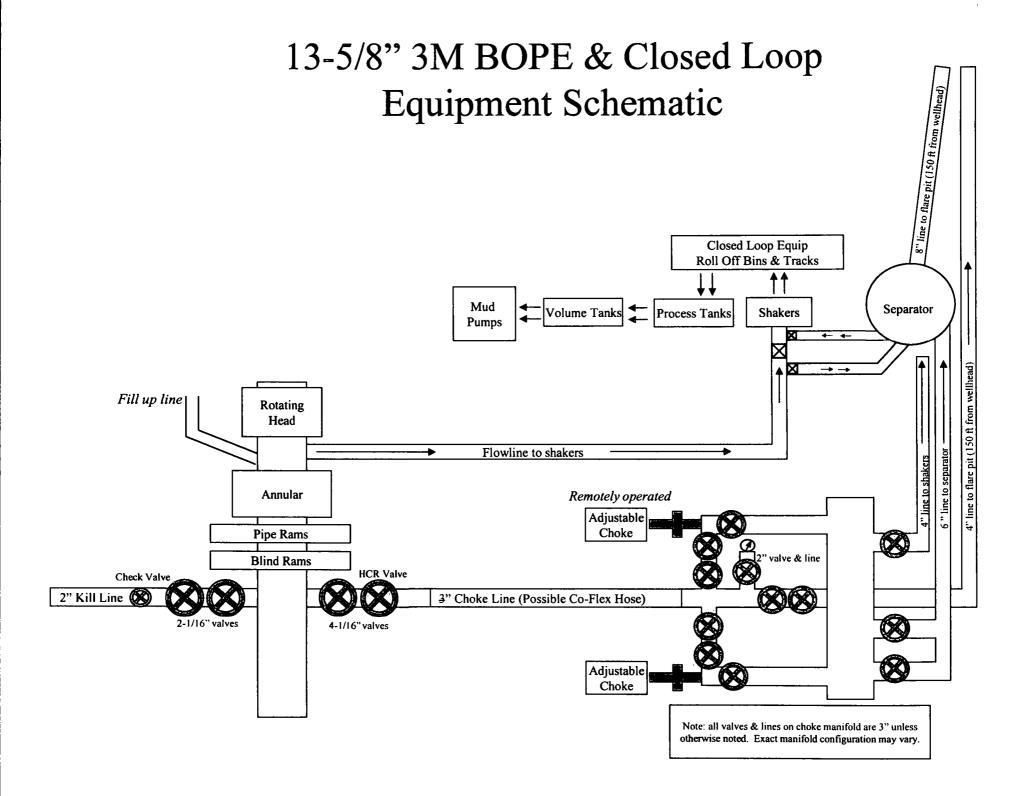
Other proposed operations facets attachment:

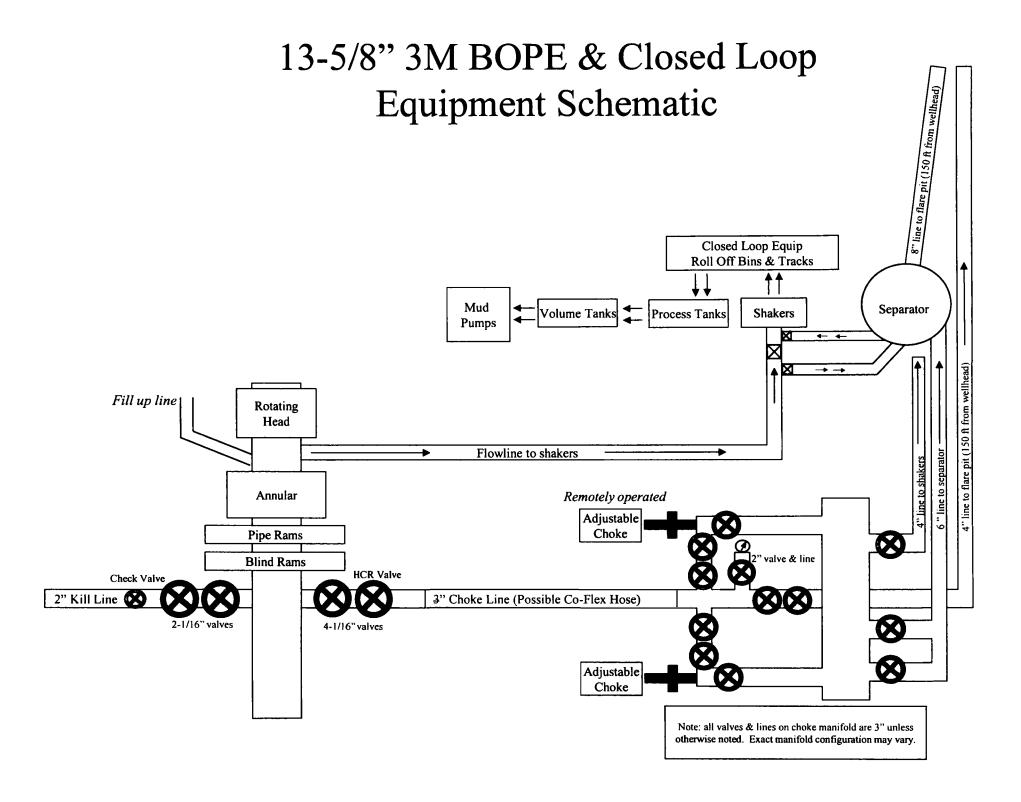
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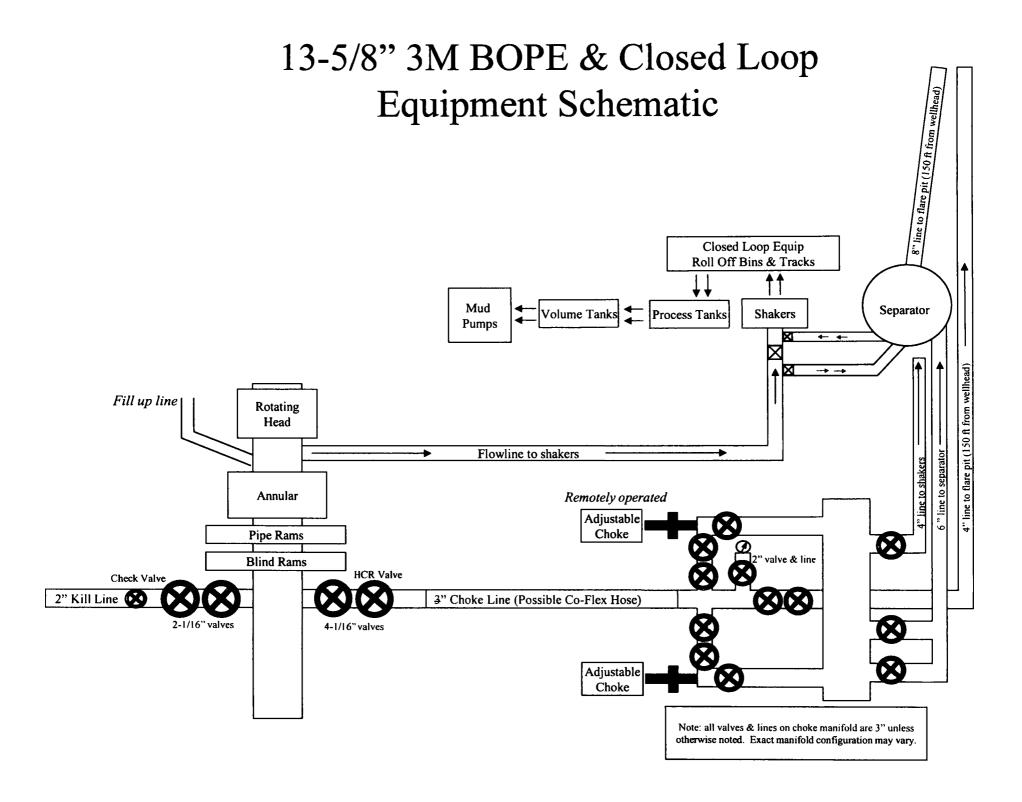
Other Variance attachment:

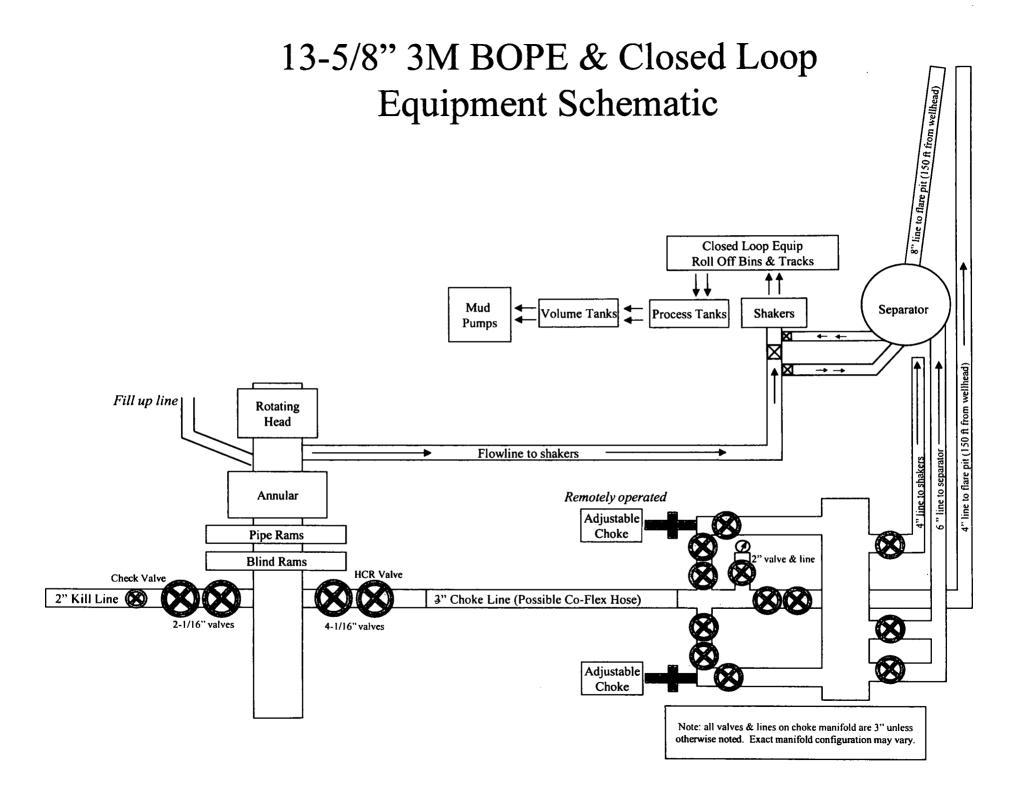
Lusitano_27_34_Fed_Com_525H_Co_flex_20181015125632.pdf

Page 6 of 6









Surface

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

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

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

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

Intermediate

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

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

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

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

Production

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

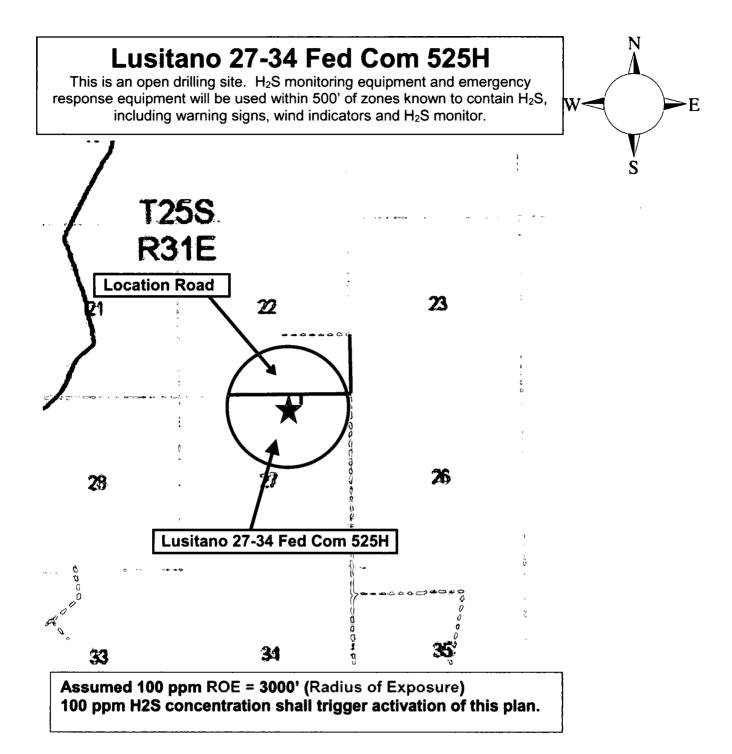
For

Lusitano 27-34 Fed Com 525H

Sec-27 T-25S R-31E 385' FNL & 1874' FEL LAT. = 32.1074968' N (NAD83) LONG = 103.7634021' W

Eddy County NM

Devon Energy Corp. Cont Plan. Page 1



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. <u>There are no homes or buildings in or near the ROE</u>.

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
 - \circ Detection of H₂S, and
 - Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

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

Cilaracteris					
Common	Chemical	Specific	Threshold	Hazardous	Lethal
Name	Formula	Gravity	Limit	Limit	Concentration
Hydrogen Sulfide	H₂S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur	SO ₂	2.21	2 ppm	N/A	1000 ppm
Dioxide		Air = 1			

Characteristics of H₂S and SO₂

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 H_2S zone (within 3 days or 500 feet) and weekly H_2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H_2S 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 H_2S .

1. Well Control Equipment

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

2. Protective equipment for essential personnel:

30-minute SCBA units located at briefing areas, as indicated on well site diagram, with 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.

Devon Energy Corp. Company Call List

Drilling Supervisor – Basin – Mark Kramer

405-823-4796

EHS Professional - Laura Wright

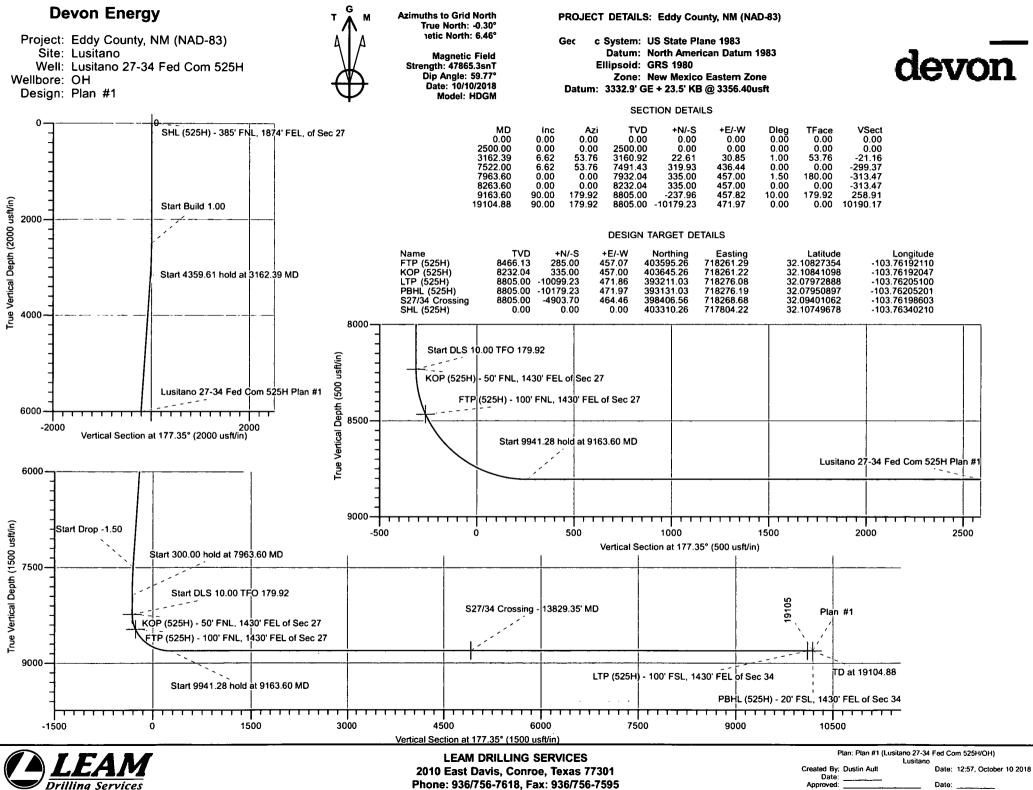
405-439-8129

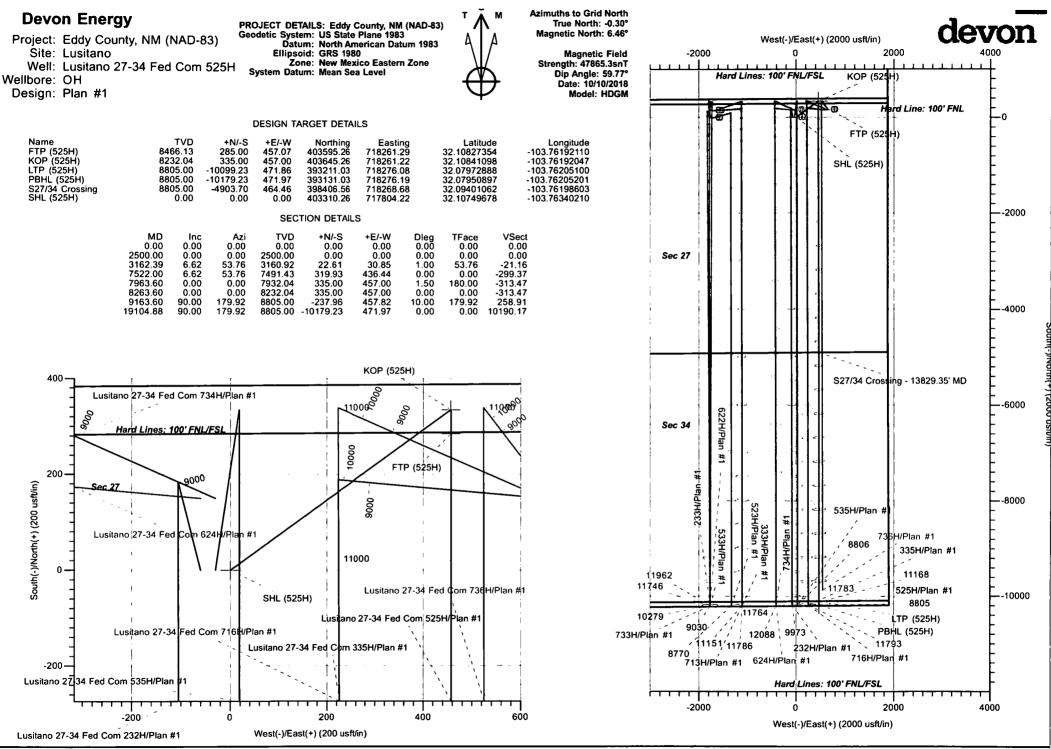
Agency Call List

<u>Lea</u>	Hobbs	
<u>County</u>	Lea County Communication Authority	393-3981
<u>(575)</u>	State Police	392-5588
	City Police	397-9265
	Sheriff's Office	393-2515
	Ambulance	911
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management	393-3612
Eddy	Carlsbad	
County	State Police	885-3137
(575)	City Police	885-2111
	Sheriff's Office	887-7551
	Ambulance	911
	Fire Department	885-3125
	LEPC (Local Emergency Planning Committee)	887-3798
	US Bureau of Land Management	887-6544
	NM Emergency Response Commission (Santa Fe)	(505) 476-9600
	24 HR	(505) 827-9126
	National Emergency Response Center	(800) 424-8802
	National Pollution Control Center: Direct	(703) 872-6000
	For Oil Spills	(800) 280-7118
	Emergency Services	
	Wild Well Control	(281) 784-4700
	Cudd Pressure Control (915) 69 0139	
	Halliburton	(575) 746-2757
	B. J. Services	(575) 746-3569
Give	Native Air – Emergency Helicopter – Hobbs	(575) 392-6429
GPS	Flight For Life - Lubbock, TX	(806) 743-9911
position:	Aerocare - Lubbock, TX	(806) 747-8923
	Med Flight Air Amb - Albuquerque, NM	(575) 842-4433
	Lifeguard Air Med Svc. Albuquerque, NM	(800) 222-1222
	Poison Control (24/7)	(575) 272-3115
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366
	NOAA – Website - www.nhc.noaa.gov	

Prepared in conjunction with









LEAM DRILLING SYSTEMS LLC 2010 East Davis, Conroe, Texas 77301 Phone: 936/756-7618, Fax: 936/756-7595 Plan: Plan #1 (Lusitano 27-34 Fed Com 525H/OH) Lusitano Created By: Dustin Autt Date: 12:58, October 10 2018 Date:

Date

Approved

Devon Energy

Eddy County, NM (NAD-83) Lusitano Lusitano 27-34 Fed Com 525H

OH

Plan: Plan #1

Standard Planning Report - Geographic

10 October, 2018

LEAM Drilling Services

Planning Report - Geographic

Database: Company: Project: Site: Well: Well: Wellbore: Design:	EDM 5000.1 Multi User Db Devon Energy Eddy County, NM (NAD-83) Lusitano Lusitano 27-34 Fed Com 525H OH Plan #1			Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:			Well Lusitano 27-34 Fed Com 525H 3332.9' GE + 23.5' KB @ 3356.40usft 3332.9' GE + 23.5' KB @ 3356.40usft Grid Minimum Curvature			
Project Map System: Geo Datum: Map Zone:	US State North An	Eddy County, NM (NAD-83) US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone			System Datum: Mear			ean Sea Level		
Site	Lusitar	10								
Site Position: From: Position Uncer	Position: Northing:		ng:	403,470.13 usft Latitude: 719,383.01 usft Longitude: 13-3/16 " Grid Conver					32.10791318 -103.75830058 0.31 °	
Well	Lusitan	o 27-34 Fed C	om 525H							
Well Position	+N/-S +E/-W	-		orthing: asting:		403,310.26 717,804.22		itude: ngitude:		32.10749677 -103.76340210
Position Uncertainty 0.00 usft			ellhead Elevati	on:			ound Level:		3,332.90 usft	
Wellbore	ОН	-	-							
Magnetics	Мс	Model Name Sample		le Date	Declination (°)		•			Strength nT)
		HDGM	•	10/10/2018	.,	6.77	,	, 59.77	,	47,865
Design Audit Notes:	Plan #1	1								
Version:			Phas		LAN	Tie	On Depth:		0.00	
Vertical Section:		ſ	Depth From (T (usft) 0.00	(usft)		+E/-W (usft) 0.00		Direction (°) 177.35		
Plan Sections	-	-							· -	
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,500.00	0.00	0.01	2,500.00	0.00	0.00	0.00	0.00	0.00	0.01	
3,162.39 7,522.00	6.62 6.62	53.76 53.76	3,160.92 7,491.43	22.61 319.93	30.85 436.44	1.00 0.00	1.00 0.00	0.00 0.00	53.76 .0.00	
7,963.60	0.02	0.01	7,491.43	335.00	430.44 457.00	1.50	-1.50	0.00	180.00	
8,263.60	0.00	0.01	8,232.04	335.00	457.00	0.00	0.00	0.00	0.01	
0.203.00			-,			0.00	0.00	0.00	0.01	
9,163.60	90.00	179.92	8,805.00	-237.96	457.82	10.00	10.00	19.99	179.92	

Planning Report - Geographic

Database:	EDM 5000.1 Multi User Db	Local Co-ordinate Reference:	Well Lusitano 27-34 Fed Com 525H
Company:	Devon Energy	TVD Reference:	3332.9' GE + 23.5' KB @ 3356.40usft
Project:	Eddy County, NM (NAD-83)	MD Reference:	3332.9' GE + 23.5' KB @ 3356.40usft
Site:	Lusitano	North Reference:	Grid
Veil:	Lusitano 27-34 Fed Com 525H	Survey Calculation Method:	Minimum Curvature
Vellbore:	ОН	-	
Design:	Plan #1		

Measured			Vertical		_	Мар	Мар		
Depth (usft)	Inclination	Azimuth	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	I attanda	1
 	(°)	(°)						Latitude	Longitude
0.00		0.00	0.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
SHL (52) 100.00	5H) - 385' FNL 0.00	., 18/4" FEL, 0 0.00	100.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
200.00		0.00	200.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
300.00		0.00	300.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
400.00		0.00	400.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
500.00		0.00	500.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
600.00		0.00	600.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
700.00		0.00	700.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
800.00		0.00	800.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
900.00		0.00	900.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
1,000.00		0.00	1,000.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
1,100.00		0.00	1,100.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
1,200.00		0.00	1,200.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
1,300.00		0.00	1,300.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
1,400.00		0.00	1,400.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
1,500.00		0.00	1,500.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
1,600.00		0.00	1,600.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
1,700.00		0.00	1,700.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
1,800.00		0.00	1,800.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
1,900.00		0.00	1,900.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
2,000.00		0.00	2,000.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
2,000.00		0.00	2,000.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
2,200.00		0.00	2,200.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
2,300.00		0.00	2,200.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
2,400.00		0.00	2,300.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
2,400.00		0.00	2,400.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
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2,800.00		53.76	2,799.86	4.64	6.33	403,314.90	717,810.55	32.10750944	-103.76338157
2,900.00		53.76	2,899.68	8.25	11.26	403,318.51	717,815.47	32.10751929	-103.76336561
3,000.00		53.76	2,099.00	12.89	17.58	403,323.15	717,815.47	32.107531929	-103.76334510
3,100.00		53.76	2,999.37 3,098.90	12.69	25.31	403,328.82	717,829.53	32.10753195	-103.76332003
3,162.39		53.76	3,160.92	22.61	30.85	403,328.82	717,835.06	32.10755848	-103.76330210
3,200.00		53.76	3,198.27	25.18	34.35	403,335.44	717,838.56	32.10756548	-103.76329075
3,300.00		53.76	3,190.27	32.00	43.65	403,342.26	717,847.86	32.10758409	-103.76326059
3,400.00		53.76	3,396.94	38.82	52.95	403,349.08	717,857.17	32.10760270	-103.76323043
3,500.00		53.76	3,496.27	45.64	62.26	403,355.89	717,866.47	32.10762131	-103.76320027
3,600.00		53.76	3,595.60	45.04 52.46	71.56	403,353.89	717,875.77	32.10763993	-103.76317011
3,700.00		53.76	3,694.94	59.28	80.86	403,369.53	717,885.08	32.10765854	-103.76313994
3,800.00		53.76	3,794.27	66.09	90.17	403,376.35	717,894.38	32.10765854	-103.76310978
3,900.00		53.76	3,893.60	72.91	99.47	403,383.17	717,903.68	32.10769576	-103.76307962
4,000.00		53.76	3,992.93	79.73	108.77	403,389.99	717,912.99	32.10771437	-103.76304946
4,100.00		53.76	4,092.27	86.55	118.08	403,396.81	717,922.29	32.10773298	-103.76301930
4,100.00		53.76	4,092.27	93.37	127.38	403,403.63	717,922.29	32.10775159	-103.76298913
4,200.00			4,191.60		136.68				-103.76298913
4,300.00		53.76 53.76	4,290.93 4,390.26	100.19 107.01	130.00	403,410.45	717,940.90 717,950.20	32.10777020	-103.76295897
						403,417.27		32.10778881	
4,500.00		53.76	4,489.60	113.83	155.29	403,424.09	717,959.50	32.10780742	-103.76289865
4,600.00		53.76	4,588.93	120.65	164.59	403,430.91	717,968.81	32.10782603	-103.76286849
4,700.00		53.76	4,688.26	127.47	173.90	403,437.73	717,978.11	32.10784465	-103.76283832
4,800.00		53.76	4,787.59	134.29	183.20	403,444.55	717,987.41	32.10786326	-103.76280816
4,900.00		53.76	4,886.93	141.11	192.50	403,451.37	717,996.72	32.10788187	-103.76277800
5,000.00		53.76	4,986.26	147.93	201.81	403,458.19	718,006.02	32.10790048	-103.76274784
 5,100.00	6.62	_ 53.76	5 <u>,085.59</u>	154.75	211.11	403,465.01	718,015.32	32.10791909	-103.76271767

Planning Report - Geographic

Database:	EDM 5000.1 Multi User Db	Local Co-ordinate Reference:	Well Lusitano 27-34 Fed Com 525H
Company:	Devon Energy	TVD Reference:	3332.9' GE + 23.5' KB @ 3356.40usft
Project:	Eddy County, NM (NAD-83)	MD Reference:	3332.9' GE + 23.5' KB @ 3356.40usft
Site:	Lusitano	North Reference:	Grid
Well:	Lusitano 27-34 Fed Com 525H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #1		

	Measured			Vertical			Мар	Мар		
	Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
L	5,200.00	6.62	53.76	5,184.92	161.57	220.41	403,471.83	718,024.63	32.10793770	-103.76268751
	5,300.00	6.62	53.76	5,284.26	168.39	229.72	403,478.65	718,033.93	32.10795631	-103.76265735
	5,400.00	6.62	53.76	5,383.59	175.21	239.02	403,485.47	718,043.23	32.10797492	-103.76262719
	5,500.00	6.62	53.76	5,482.92	182.03	248.32	403,492.29	718,052.54	32.10799353	-103.76259703
	5,600.00	6.62	53.76	5,582.25	188.85	257.63	403,499.11	718,061.84	32.10801214	-103.76256686
	5,700.00	6.62	53.76	5,681.59	195.67	266.93	403,505.93	718,071.14	32.10803075	-103.76253670
	5,800.00	6.62	53.76	5,780.92	202.49	276.23	403,512.75	718,080.45	32.10804936	-103.76250654
	5,900.00	6.62	53.76	5,880.25	202.49	285.54	403,519.57	718,089.75	32.10806798	-103.76247638
	6,000.00	6.62	53.76	5,979.58	216.13	294.84	403,526.39	718,099.05	32,10808659	-103.76244621
•	6,100.00	6.62	53.76	6,078.92	222.95	304.14	403,533.21	718,108.36	32.10800539	-103.76241605
,	6,200.00	6.62	53.76	6,178.25	222.95	313.45	403,540.03	718,117.66	32.10810320	-103.76238589
	6,300.00	6.62	53.76	6,277.58	236.59	322.75	403,546.85	718,126.96	32.10814242	-103.76235573
1	6,400.00	6.62	53.76	6,376.91	230.39	332.05	403,553.67	718,126.27	32.10816103	-103.76232556
1	6,500.00	6.62	53.76	6,476.25	250.23	341.36	403,550.49	718,145.57	32.10817964	-103.76229540
	6,600.00	6.62	53.76	6,575.58	250.25	350.66	403,567.31	718,154.87	32.10819825	-103.76226524
	6,700.00	6.62	53.76	6,674 <i>.</i> 91	263.87	359.96	403,587.31		32.10819825	
i.	6,800.00	6.62			263.87 270.69	369.90		718,164.18 718,173.48		-103.76223508
		6.62	53.76	6,774.24	270.69	378.57	403,580.95		32.10823547	-103.76220492
i i	6,900.00		53.76	6,873.58			403,587.77	718,182.78	32.10825408	-103.76217475
	7,000.00	6.62 6.62	53.76	6,972.91 7.072.24	284.33	387.87 397.18	403,594.59	718,192.09	32.10827269	-103.76214459
1	7,100.00 7,200.00	6.62	53.76 53.76	7,072.24 7,171.57	291.15 297.97	406.48	403,601.40 403,608.22	718,201.39 718,210.69	32.10829130 32.10830991	-103.76211443 -103.76208427
ł	7,200.00	6.62	53.76	7,171.57	304.79	400.48	403,615.04	718,220.00	32.10832853	
1	7,300.00	6.62	53.76	7,370.24	304.79	415.78				-103.76205410
	7,400.00	6.62	53.76		318.42	425.09	403,621.86	718,229.30	32.10834714	-103.76202394
		6.62		7,469.57		434.39 436.44	403,628.68	718,238.60	32.10836575 32.10836984	-103.76199378
	7,522.00 7,600.00	5.45	53.76 53.76	7,491.43 7,568.99	319.93 324.78	430.44 443.05	403,630.18 403,635.04	718,240.65 718,247.27	32.10838308	-103.76198714
	7,800.00	3.95	53.76	7,668.65	324.76	443.05 449.67	403,639.88	718,253.88	32.10839631	-103.76196569
	7,800.00	2.45	53.76	7,768.49	329.82	449.07	403,643.19	718,258.39	32.10839631	-103.76194424 -103.76192963
	7,900.00	0.95	53.76	7,868.44	334.69	456.57	403,644.95	718,260.79	32.10840555	-103.76192985
	7,963.60	0.95	0.01	7,932.04	335.00	455.57	403,645.26	718,261.22	32.10841012	-103.76192185
	8,000.00	0.00	0.00	7,968.44	335.00	457.00	403,645.26	718,261.22	32.10841098	-103.76192047
	8,100.00	0.00	0.00	8,068.44	335.00	457.00	403,645.26	718,261.22	32.10841098	-103.76192047
	8,200.00	0.00	0.00	8,168.44	335.00	457.00	403,645.26	718,261.22	32,10841098	-103.76192047
	8,263.60	0.00	0.00	8,232.04	335.00	457.00	403,645.26	718,261.22	32.10841098	-103.76192047
		5H) - 50' FNL,			000.00	407.00	400,040.20	710,201.22	32.10041030	-105.10152041
	8,300.00	3.64	1430 FEL 01	8.268.42	333.84	457.00	403,644.10	718,261.22	32.10840780	-103.76192048
	8,350.00	8.64	179.92	8,318.11	328.50	457.00	403,638.76	718,261.22	32.10839311	-103.76192048
	8,400.00	13.64	179.92	8,367.16	318.84	457.02	403,629.10	718,261.24	32.10836656	-103.76192055
	8,450.00	18.64	179.92	8,415.17	304.95	457.04	403,615.20	718,261.26	32.10832836	-103.76192084
	8,500.00	23.64	179.92	8,461.79	286.92	457.07	403,597.18	718,261.28	32.10827881	-103.76192004
	8,504.74	24.11	179.92	8,466.13	285.00	457.07	403,595.26	718,261.29	32.10827353	-103.76192109
		iH) - 100' FNL,			200.00	101.07	100,000.20		02.002.000	
	8,550.00	28.64	179.92	8,506.66	264.90	457.10	403,575.16	718,261.32	32.10821828	-103.76192135
	8,600.00	33.64	179.92	8,549.44	239.05	457.14	403,549.31	718,261.35	32.10814723	-103.76192167
	8,650.00	38.64	179.92	8,589.81	209.57	457.18	403,519.83	718,261.39	32.10806619	-103.76192204
	8,700.00	43.64	179.92	8,627.45	176.69	457.23	403,486.94	718,261.44	32.10797580	-103.76192245
	8,750.00	48.64	179.92	8,662.09	140.65	457.28	403,450.90	718,261.49	32.10787673	-103.76192290
	8,800.00	53.64	179.92	8,693.45	101.72	457.33	403,411.98	718,261.55	32.10776974	-103.76192339
	8,850.00	58.64	179.92	8,721.30	60.22	457.39	403,370.48	718,261.61	32.10765564	-103.76192391
	8,900.00	63.64	179.92	8,745.42	16.44	457.45	403,326.70	718,261.67	32.10753531	-103.76192446
	8,950.00	68.64	179.92	8,765.64	-29.27	457.52	403,280.99	718,261.73	32.10740965	-103.76192503
	9,000.00	73.64	179.92	8,781.80	-76.57	457.59	403,233.69	718,261.80	32.10740903	-103.76192562
	9,050.00	78.64	179.92	8,793.77	-125.10	457.66	403,185.16	718,261.87	32.10714624	-103.76192623
	9,100.00	83.64	179.92	8,801.47	-174.49	457.73	403,135.77	718,261.94	32.10701048	-103.76192685
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Planning Report - Geographic

Database:	EDM 5000.1 Multi User Db	Local Co-ordinate Reference:	Well Lusitano 27-34 Fed Com 525H
Company:	Devon Energy	TVD Reference:	3332.9' GE + 23.5' KB @ 3356.40usft
Project:	Eddy County, NM (NAD-83)	MD Reference:	3332.9' GE + 23.5' KB @ 3356.40usft
Site:	Lusitano	North Reference:	Grid
Neli:	Lusitano 27-34 Fed Com 525H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #1		

	Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
	(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
	9,150.00	88.64	179.92	8,804.84	-224.36	457.80	403,085.90	718,262.01	32.10687339	-103.76192747
	9,163.60	90.00	179.92	8,805.00	-237.96	457.82	403,072.30	718,262.03	32.10683601	-103.76192764
	9,200.00	90.00	179.92	8,805.00	-274.36	457.87	403,035.90	718,262.08	32.10673595	-103.76192810
	9,300.00	90.00	179.92	8,805.00	-374.36	458.01	402,935.90	718,262.23	32.10646107	-103.76192935
	9,400.00	90.00	179.92	8,805.00	-474.36	458.15	402,835.90	718,262.37	32.10618618	-103.76193060
	9,500.00	90.00	179.92	8,805.00	-574.36	458.29	402,735.90	718,262.51	32.10591130	-103.76193185
	9,600.00	90.00	179.92	8,805.00	-674.36	458.44	402,635.90	718,262.65	32.10563642	-103.76193311
	9,700.00	90.00	179.92	8,805.00	-774.36	458.58	402,535.90	718,262.80	32.10536153	-103.76193436
	9,800.00	90.00	179.92	8,805.00	-874.36	458.72	402,435.90	718,262.94	32.10508665	-103.76193561
	9,900.00	90.00	179.92	8,805.00	-974.36	458.86	402,335.90	718,263.08	32.10481176	-103.76193686
	10,000.00	90.00	179.92	8,805.00	-1,074.36	459.01	402,235.90	718,263.22	32.10453688	-103.76193811
	10,100.00	90.00	179.92	8,805.00	-1,174.36	459.15	402,135.90	718,263.37	32.10426200	-103.76193937
ı.	10,200.00	90.00	179.92	8,805.00	-1,274.36	459.29	402,035.90	718,263.51	32.10398711	-103.76194062
1	10,300.00	90.00	179.92	8,805.00	-1,374.36	459.43	401,935.90	718,263.65	32.10371223	-103.76194187
	10,400.00	90.00	179.92	8,805.00	-1,474.36	459.58	401,835.90	718,263.79	32.10343734	-103.76194312
	10,500.00	90.00	179.92	8,805.00	-1,574.36	459.72	401,735.90	718,263.93	32.10316246	-103.76194437
-	10,600.00	90.00	179.92	8,805.00	-1,674.36	459.86	401,635.90	718,264.08	32.10288758	-103.76194563
	10,700.00	90.00	179.92	8,805.00	-1,774.36	460.00	401,535.90	718,264.22	32.10261269	-103.76194688
1	10,800.00	90.00	179.92	8,805.00	-1,874.36	460.15	401,435.90	718,264.36	32.10233781	-103.76194813
1	10,900.00	90.00	179.92	8,805.00	-1,974.36	460.29	401,335.90	718,264.50	32.10206292	-103.76194938
1	11,000.00	90.00	179.92	8,805.00	-2,074.36	460.43	401,235.90	718,264.65	32.10178804	-103.76195063
1	11,100.00	90.00	179.92	8,805.00	-2,174.36	460.57	401,135.90	718,264.79	32.10151316	-103.76195188
1	11,200.00	90.00	179.92	8,805.00	-2,274.36	460.72	401,035.90	718,264.93	32.10123827	-103.76195314
	11,300.00	90.00	179.92	8,805.00	-2,374.36	460.86	400,935.90	718,265.07	32.10096339	-103.76195439
	11,400.00	90.00	179.92	8,805.00	-2,474.36	461.00	400,835.90	718,265.22	32.10068850	-103.76195564
	11,500.00	90.00	179.92	8,805.00	-2,574.36	461.14	400,735.90	718,265.36	32.10041362	-103.76195689
	11,600.00	90.00	179.92	8,805.00	-2,674.36	461.28	400,635.90	718,265.50	32.10013873	-103.76195814
	11,700.00	90.00	179.92	8,805.00	-2,774.36	461.43	400,535.90	718,265.64	32.09986385	-103.76195939
	11,800.00	90.00	179.92	8,805.00	-2,874.36	461.57	400,435.90	718,265.79	32.09958897	-103.76196065
	11,900.00	90.00	179.92	8,805.00	-2,974.36	461.71	400,335.90	718,265.93	32.09931408	-103.76196190
	12,000.00	90.00	179.92	8,805.00	-3,074.35	461.85	400,235.90	718,266.07	32.09903920	-103.76196315
	12,100.00	90.00	179.92	8,805.00	-3,174.35	462.00	400,135.90	718,266.21	32.09876431	-103.76196440
	12,200.00	90.00	179.92	8,805.00	-3,274.35	462.14	400,035.90	718,266.35	32.09848943	-103.76196565
	12,300.00	90.00	179.92	8,805.00	-3,374.35	462.28	399,935.90	718,266.50	32.09821455	-103.76196690
	12,400.00	90.00	179.92	8,805.00	-3,474.35	462.42	399,835.90	718,266.64	32.09793966	-103.76196815
	12,500.00	90.00	179.92	8,805.00	-3,574.35	462.57	399,735.90	718,266.78	32.09766478	-103.76196941
	12,600.00	90.00	179.92	8,805.00	-3,674.35	462.71	399,635.90	718,266.92	32.09738989	-103.76197066
	12,700.00	90.00	179.92	8,805.00	-3,774.35	462.85	399,535.90	718,267.07	32.09711501	-103.76197191
	12,800.00	90.00	179.92	8,805.00	-3,874.35	462.99	399,435.90	718,267.21	32.09684012	-103.76197316
	12,900.00	90.00	179.92	8,805.00	-3,974.35	463.14	399,335.90	718,267.35	32.09656524	-103.76197441
	13,000.00	90.00	179.92	8,805.00	-4,074.35	463.28	399,235.91	718,267.49	32.09629036	-103.76197566
	13,100.00	90.00	179.92	8,805.00	-4,174.35	463.42	399,135.91	718,267.64	32.09601547	-103.76197691
	13,200.00	90.00	179.92	8,805.00	-4,274.35	463.56	399,035.91	718,267.78	32.09574059	-103.76197816
	13,300.00	90.00	179.92	8,805.00	-4,374.35	463.71	398,935.91	718,267.92	32.09546570	-103.76197942
	13,400.00	90.00	179.92	8,805.00	-4,474.35	463.85	398,835.91	718,268.06	32.09519082	-103.76198067
	13,500.00	90.00	179.92	8,805.00	-4,574.35	463.99	398,735.91	718,268.21	32.09491593	-103.76198192
	13,600.00	90.00	179.92	8,805.00	-4,674.35	464.13	398,635.91	718,268.35	32.09464105	-103.76198317
	13,700.00	90.00	179.92	8,805.00	-4,774.35	464.27	398,535.91	718,268.49	32.09436616	-103.76198442
	13,800.00	90.00	179.92	8,805.00	-4,874.35	464.42	398,435.91	718,268.63	32.09409128	-103.76198567
	13,829.35	90.00	179.92	8,805.00	-4,903.70	464.46	398,406.56	718,268.67	32.09401061	-103.76198604
	S27/34 C	rossing - 138	29.35' MD							
	13,900.00	90.00	179.92	8,805.00	-4,974.35	464.56	398,335.91	718,268.78	32.09381640	-103.76198692
	14,000.00	90.00	179.92	8,805.00	-5,074.35	464.70	398,235.91	718,268.92	32.09354151	-103.76198817
	14,100.00	90.00	179.92	8,805.00	-5,174.35	464.84	398,135.91	718,269.06	32.09326663	-103.76198943
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Planning Report - Geographic

Database:	EDM 5000.1 Multi User Db	Local Co-ordinate Reference:	Well Lusitano 27-34 Fed Com 525H
Company:	Devon Energy	TVD Reference:	3332.9' GE + 23.5' KB @ 3356.40usft
Project:	Eddy County, NM (NAD-83)	MD Reference:	3332.9' GE + 23.5' KB @ 3356.40usft
Site:	Lusitano	North Reference:	Grid
Well:	Lusitano 27-34 Fed Com 525H	Survey Calculation Method:	Minimum Curvature
bore:	ОН		
Design:	Plan #1		

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
14,200.00	90.00	179.92	8,805.00	-5,274.35	464.99	398,035.91	718,269.20	32.09299174	-103.7619906
14,300.00	90.00	179.92	8,805.00	-5,374.35	465.13	397,935.91	718,269.34	32.09271686	-103.7619919
14,400.00	90.00	179.92	8,805.00	-5,474.35	465.27	397,835.91	718,269.49	32.09244197	-103.7619931
14,500.00	90.00	179.92	8,805.00	-5,574.35	465.41	397,735.91	718,269.63	32.09216709	-103.7619944
14,600.00	90.00	179.92	8,805.00	-5,674.35	465.56	397,635.91	718,269.77	32.09189220	-103.7619956
14,700.00	90.00	179.92	8,805.00	-5,774.35	465.70	397,535.91	718,269.91	32.09161732	-103.7619969
14,800.00	90.00	179.92	8,805.00	-5,874.35	465.84	397,435.91	718,270.06	32.09134244	-103.761998
14,900.00	90.00	179.92	8,805.00	-5,974.35	465.98	397,335.91	718,270.20	32.09106755	-103.7619994
15,000.00	90.00	179.92	8,805.00	-6,074.35	466.13	397,235.91	718,270.34	32.09079267	-103.762000
15,100.00	90.00	179.92	8,805.00	-6.174.35	466.27	397,135.91	718,270.48	32.09051778	-103.7620019
15,200.00	90.00	179.92	8,805.00	-6,274.35	466.41	397,035.91	718,270.63	32.09024290	-103.762003
15,300.00	90.00	179.92	8,805.00	-6,374.35	466.55	396,935.91	718,270.77	32.08996801	-103.762004
15,400.00	90.00	179.92	8,805.00	-6,474.35	466.70	396,835.91	718,270.91	32.08969313	-103.7620056
15,500.00	90.00	179.92	8,805.00	-6,574.35	466.84	396,735.91	718,271.05	32.08941824	-103.762006
15,600.00	90.00	179.92	8,805.00	-6,674.35	466.98	396,635.91	718,271.20	32.08914336	-103.762008
15,700.00	90.00	179.92	8,805.00	-6,774.35	467.12	396,535.91	718,271.34	32.08886847	-103.762009
15,800.00	90.00	179.92	8,805.00	-6,874.35	467.26	396,435.91	718,271.48	32.08859359	-103.762010
15,900.00	90.00	179.92	8,805.00	-6,974.35	467.41	396,335.91	718,271.48		
16,000.00	90.00	179.92	8,805.00	-0,974.35	467.55			32.08831870	-103.762011
•		179.92				396,235.91	718,271.77	32.08804382	-103.762013
16,100.00	90.00		8,805.00	-7,174.35	467.69	396,135.91	718,271.91	32.08776894	-103.762014
16,200.00	90.00	179.92	8,805.00	-7,274.35	467.83	396,035.91	718,272.05	32.08749405	-103.762015
16,300.00	90.00	179.92	8,805.00	-7,374.35	467.98	395,935.91	718,272.19	32.08721917	-103.762016
16,400.00	90.00	179.92	8,805.00	-7,474.35	468.12	395,835.91	718,272.33	32.08694428	-103.762018
16,500.00	90.00	179.92	8,805.00	-7,574.35	468.26	395,735.91	718,272.48	32.08666940	-103.762019
16,600.00	90.00	179.92	8,805.00	-7,674.35	468.40	395,635.91	718,272.62	32.08639451	-103.762020
16,700.00	90.00	179.92	8,805.00	-7,774.35	468.55	395,535.91	718,272.76	32.08611963	-103.762021
16,800.00	90.00	179.92	8,805.00	-7,874.35	468.69	395,435.91	718,272.90	32.08584474	-103.762023
16,900.00	90.00	179.92	8,805.00	-7,974.35	468.83	395,335.91	718,273.05	32.08556987	-103.762024
17,000.00	90.00	179.92	8,805.00	-8,074.35	468.97	395,235.91	718,273.19	32.08529498	-103.762025
17,100.00	90.00	179.92	8,805.00	-8,174.35	469.12	395,135.91	718,273.33	32.08502010	-103.762026
17,200.00	90.00	179.92	8,805.00	-8,274.35	469.26	395,035.91	718,273.47	32.08474521	-103.762028
17,300.00	90.00	179.92	8,805.00	-8,374.35	469.40	394,935.91	718,273.62	32.08447033	-103.762029
17,400.00	90.00	179.92	8,805.00	-8,474.35	469.54	394,835.91	718,273.76	32.08419544	-103.762030
17,500.00	90.00	179.92	8,805.00	-8,574.35	469.69	394,735.91	718,273.90	32.08392056	-103.762031
17,600.00	90.00	179.92	8,805.00	-8,674.35	469.83	394,635.91	718,274.04	32.08364567	-103.762033
17,700.00	90.00	179.92	8,805.00	-8,774.35	469.97	394,535.91	718,274.19	32.08337079	-103.762034
17,800.00	90.00	179.92	8,805.00	-8,874.35	470.11	394,435.91	718,274.33	32.08309590	-103.762035
17,900.00	90.00	179.92	8,805.00	-8,974.35	470.25	394,335.91	718,274.47	32.08282102	-103.762036
18,000.00	90.00	179.92	8,805.00	-9,074.35	470.40	394,235.91	718,274.61	32.08254613	-103.762038
18,100.00	90.00	179.92	8,805.00	-9,174.35	470.54	394,135.91	718,274.76	32.08227125	-103.762039
18,200.00	90.00	179.92	8,805.00	-9,274.35	470.68	394,035.91	718,274.90	32.08199636	-103.762040
18,300.00	90.00	179.92	8,805.00	-9,374.35	470.82	393,935.91	718,275.04	32.08172148	-103.762041
18,400.00	90.00	179.92	8,805.00	-9,474.35	470.97	393,835.91	718,275.18	32.08144659	-103.762043
18,500.00	90.00	179.92	8,805.00	-9,574.35	471.11	393,735.91	718,275.32	32.08117171	-103.762044
18,600.00	90.00	179.92	8,805.00	-9,674.35	471.25	393,635.91	718,275.47	32.08089682	-103.762045
18,700.00	90.00	179.92	8,805.00	-9,774.35	471.39	393,535.91	718,275.61	32.08062194	-103.762046
18,800.00	90.00	179.92	8,805.00	-9,874.35	471.59	393,435.91			
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19,000.00	90.00	179.92	8,805.00	-	471.68	393,335.91	718,275.89	32.08007217	-103.762049
			8,805.00	-10,074.35	471.82	393,235.91	718,276.04	32.07979728	-103.762050
	H) - 100' FSL,			40 470 00	474 07	000 404 00	740 070 40		
19,104.88	90.00	179.92	8,805.00	-10,179.23	471.97	393,131.03	718,276.19	32.07950898	-103.762052

Planning Report - Geographic

Database: EDM 5000.1 Multi User Db Company: Devon Energy Project: Eddy County, NM (NAD-83) Lite: Lusitano Vell: Lusitano 27-34 Fed Com 525H Vellbore: OH Design: Plan #1				TVD Refere MD Referen North Refer	ice:	Well Lusitano 27-34 Fed Com 525H 3332.9' GE + 23.5' KB @ 3356.40usft 3332.9' GE + 23.5' KB @ 3356.40usft Grid Minimum Curvature			
Design Targets							· · · · · ·		
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (525H) - 385' FNL, - plan hits target cer - Point	0.0	0.01	0.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
KOP (525H) - 50' FNL, 1 - plan hits target cer - Point		0.00	8,232.04	335.00	457.00	403,645.26	718,261.22	32.10841098	-103.76192047
FTP (525H) - 100' FNL, - plan hits target cer - Point	0.0 nter	0.00	8,466.13	285.00	457.07	403,595.26	718,261.29	32.10827354	-103.76192110
PBHL (525H) - 20' FSL, - plan hits target cer - Point	0.0 nter	0.00	8,805.00	-10,179.23	471.97	393,131.03	718,276.19	32.07950898	-103.76205201
LTP (525H) - 100' FSL, ⁻ - plan misses target - Point			8,805.00 000.00usft M	-10,099.23 ID (8805.00 T∨	471.86 /D, -10074.35	393,211.03 N, 471.82 E)	718,276.08	32.07972889	-103.76205100
S27/34 Crossing - 13829 - plan hits target cer - Point		0.00	8,805.00	-4,903.70	464.46	398,406.56	718,268.68	32.09401061	-103.76198603

WELL INFO MAP DATUM M MAP SYSTEM U MAP ZONE D MAP ZONE D MAP ZONE D WELL LAT WELL LAT WELL LAT WELL LAT WELL LAT WELL LAT WELL NS MAP CONVERGINE MAGMODEL D CONVERGINE MAGMODEL D MARTH REF GROUND LED KAP CHAP CONVERD COMPANY FIELD SITE WELL WELLPATH DESIGN DEPTHUNT SURVEY LIST Measured De MD SURVEY 30.00 90.00 120.00 PROGRAM Š. Devon Energy Eddy County, NM (NAD-83) Lusitano Lusitano 27-34 Fed Com S25H OH OH Plan e1 (usft) 1 North American 1 US State Plane 11 New Mexico East 32.107497 -303.763402 -303.763402 -103.764402 -103.76440402 -103.764402 -103.764402 -Sid HDGM No 19104 3332.9 3356.4 177.35 6.77 can Datum 1 1e 1983 Eastern Zon 2 2 PLAN #1 Ĩ Zone 1983 LEAN 0.0 MWD+HDGM Lengt 3 7

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 | 393575.91 | 393635.91 | 393665.91

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 | 393935.91 | 393995.91
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 | 394415.91 | 394475.91 | 394535.91
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 | 394565.91 | 394625.91
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 | 394715.91 | 394775.91
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 | 32.081144 | 32.081227

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 | 32.083041 | 32.083206 | 32.083371
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 | 32.083453 | 32.083618 | 32.083701
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| | 10165.3
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 | 9865.61
9895.58 | 9835.64

 | 9775.70
9805.67

 | 9745.73 | 9685.79 | 9655.82

 | 9595.88 | 9565.91

 | 9505.97 | 9476.00 | 9416.07
9446.04

 | 9386.10 | 9326.16
9356.13
 | 9296.19 | 9236.25
9266.22

 | 9206.28

 | 9146.34

 | 9085.40

 | 9056.43 | 8996,49 | 8936.55
8966.52
 | 8906.58 | 8846.64 | 8786.70
 | 8756.73 | 8696.79 | 8666.82
 | 8606.88 | 8546.94
8576.91 | 8516.97 | 8457.03
 | 8427.06 | 8397.09 | 8337.15 | 8307.18 | 8247.24 | 8217.28 | 8157.34 | | 8077.40
8127.37 |
| Output generated by LEAM DRILLING SYSTEMS, LLC 10/10/18 | | 8805.00 -5448.60 :10154.35 471.54 718276.16 393155.91 32.079577 :103.762052 0.00 0.00 0.00
8805.00 -5448.60 :10179.23 471.97 718276.19 393131.03 32.079509 :103.762052 0.00 0.00 0.00 | 8805.00 -5448.60 -10124.35 471.89 718276.11 393185.91 31.079660 -103.762051 0.00 0.00 0.00
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8805.00 -5448.60 -10179.73 471.97 718276.19 393131.03 31.079509 -103.762052 0.00 0.00 0.00 | Subscription Section Section | 8805.00 5446.66 10054.35 471.76 718775.98 393275.91 32.079907 -103.752050 0.00 0.00 0.00 8805.00 -5448.60 10064.35 471.81 718776.07 393215.91 32.079907 -103.752050 0.00 0.00 0.00 6805.00 -5448.60 -10064.35 471.81 718776.07 393215.91 32.079942 -103.752051 0.00 0.00 0.00 6805.00 -5448.60 -10124.35 471.89 718776.11 393185.91 32.079566 -103.752051 0.00 0.00 0.00 6805.00 -5448.60 -10124.35 471.89 718776.16 393135.91 32.079567 103.752051 0.00 0.00 0.00 6805.00 -5448.60 -10124.35 471.89 718776.16 393135.91 32.079567 103.752052 0.00 0.00 0.00 6805.00 -5448.60 -10179.73 471.87 718776.19 393131.03 32.079509 -103.752052 0.00 0.00 | 5605.00 5448.60 10004.35 471.72 718275.94 93305.91 32.07990 103.76205 0.000 0.00 5805.00 -5448.60 10004.35 471.72 718275.91 93305.91 32.07990 103.76205 0.00 0.00 0.00 5805.00 -5448.60 10054.35 471.18 718275.91 93215.91 32.07990 103.76205 0.00 0.00 0.00 5805.00 -5448.60 10054.35 471.18 718276.07 93214.591 32.079914 103.762051 0.00 0.00 0.00 5805.00 -5448.60 10124.35 471.85 718276.01 93215.91 32.079914 103.762051 0.00 0.00 0.00 5805.00 -5448.60 10124.35 471.89 718276.11 931318.51 32.079547 103.762051 0.00 0.00 0.00 5805.00 -5448.60 -10154.35 471.89 718276.15 931310.31 32.079509 -103.762052 0.00 0.00 0.00 | BBSD:00 -5448.60 -994.35 471.64 71877.56 993355.91 32.080072 103.752049 0.000 0.000 BBSD:00 -5448.66 -9974.35 471.64 71877.56 993355.91 32.080072 103.752049 0.000 0.000 0.000 BBSD:00 -5448.66 -10004.35 471.72 718277.54 393355.91 32.079990 103.752049 0.000 0.00 0.00 BBSD:00 -5448.66 -10004.35 471.76 718277.59 393245.91 32.079990 103.752050 0.000 0.00 <t< td=""><td>6805.00 -5448.60 -9914.35 471.59 718275.81 99395.91 32.080237 -103.752049 0.00 0.00 6805.00 -5448.60 -994.35 471.64 718775.86 99335.51 32.080271 -103.752049 0.00 0.00 0.00 6805.00 -5448.60 -994.35 471.64 718775.86 99335.51 32.080271 -103.752049 0.00 0.00 0.00 6805.00 -5448.66 -10004.35 471.72 718275.91 39335.51 32.079990 -103.752049 0.00 0.00 0.00 6805.00 -5448.66 -1004.35 471.15 718275.91 32.079990 -103.752049 0.00 0.00 0.00 6805.00 -5448.66 -1004.35 471.18 718276.01 32.079214 -103.752049 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00</td><td>BBBS:00 SH48.60 SH54.50 SH215.71 SH215.72 <thsh215.72< th=""> SH215.72 <th< td=""><td>Substance Substance <t< td=""><td>BBSD:00 -544.66 -3964.35 471.48 71827.56 39354.51 32.006967 103.76.047 0.00 0.00 BBSD:00 -544.66 3974.35 471.47 71827.56 39345.51 32.006967 103.76.047 0.00 0.00 0.00 BBSD:00 -544.66 -984.35 471.47 71827.561 39345.51 32.006967 103.76.047 0.00 0.00 0.00 BBSD:00 -544.66 -984.35 471.51 71827.57 39345.51 32.009027 103.76.048 0.00</td><td>BBD:00 S448.00 974.35 471.34 718275.55 93575.91 32.080712 -103.76204 0.00 0.00 BBD:00 S448.60 -976.35 471.34 718275.60 93555.91 32.080712 -103.76204 0.00 0.00 0.00 BBD:00 S448.60 -976.35 471.47 718275.60 93555.91 32.080671 103.76204 0.00 0.00 0.00 BBD:00 S448.60 -986.43 471.47 718275.61 93945.91 32.080621 103.76204 0.00 0</td><td>8805.00 -5446.60 -9674.35 471.25 718275.47 39365.59 32.060917 103.7520.46 0.00 0.00 8805.00 -5446.60 -974.35 471.34 718275.56 39355.91 32.060917 103.7520.46 0.00 0.00 0.00 8805.00 -5448.60 -974.35 471.34 718275.56 39355.91 32.060917 103.7520.46 0.00 0.00 0.00 8805.00 -5448.60 -974.35 471.47 718275.60 39355.91 32.060917 103.7520.47 0.00 0.00 0.00 8805.00 -5448.60 -984.35 471.47 718275.67 39345.91 32.060927 103.7520.46 0.00 0.00 0.00 8805.00 -5448.60 -984.35 471.87 718275.61 33345.91 32.060927 103.7520.46 0.00 0.00 0.00 8805.00 -5448.60 -994.35 471.87 718275.61 33345.91 32.06027 103.7520.46 0.00 0.00 0.00 0.00<!--</td--><td>6805.00 5448.60 9644.35 471.27 71877.47 93655.91 32.00079 103.75204 0.00 0.00 6805.00 5448.60 9674.35 471.27 71877.47 93655.91 32.00079 103.75204 0.00 0.00 0.00 6805.00 5448.60 9704.35 471.24 71877.57 39365.91 32.00079 103.75204 0.00 0.00 0.00 6805.00 5448.60 9704.35 471.34 71877.56
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Solito<</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>BBBC.00 SH44.60 SH44.50 SH44.51 SH44.50 SH44.51 <t< td=""></t<></td></th<></td></th<></td></thtl200000<></td></td></t<></td></t<></td></t<></td></t<></td></th<></td></td></t<></td></th<></thsh215.72<></td></t<> | 6805.00 -5448.60 -9914.35 471.59 718275.81 99395.91 32.080237 -103.752049 0.00 0.00 6805.00 -5448.60 -994.35 471.64 718775.86 99335.51 32.080271 -103.752049 0.00 0.00 0.00 6805.00 -5448.60 -994.35 471.64 718775.86 99335.51 32.080271 -103.752049 0.00 0.00 0.00 6805.00 -5448.66 -10004.35 471.72 718275.91 39335.51 32.079990 -103.752049 0.00 0.00 0.00 6805.00 -5448.66 -1004.35 471.15 718275.91 32.079990 -103.752049 0.00 0.00 0.00 6805.00 -5448.66 -1004.35 471.18 718276.01 32.079214 -103.752049 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | BBBS:00 SH48.60 SH54.50 SH215.71 SH215.72 SH215.72 <thsh215.72< th=""> SH215.72 <th< td=""><td>Substance Substance <t< td=""><td>BBSD:00 -544.66 -3964.35 471.48 71827.56 39354.51 32.006967 103.76.047 0.00 0.00 BBSD:00 -544.66 3974.35 471.47 71827.56 39345.51 32.006967 103.76.047 0.00 0.00 0.00 BBSD:00 -544.66 -984.35 471.47 71827.561 39345.51 32.006967 103.76.047 0.00 0.00 0.00 BBSD:00 -544.66 -984.35 471.51 71827.57 39345.51 32.009027 103.76.048 0.00</td><td>BBD:00 S448.00 974.35 471.34 718275.55 93575.91 32.080712 -103.76204 0.00 0.00 BBD:00 S448.60 -976.35 471.34 718275.60 93555.91 32.080712 -103.76204 0.00 0.00 0.00 BBD:00 S448.60 -976.35 471.47 718275.60 93555.91 32.080671 103.76204 0.00 0.00 0.00 BBD:00 S448.60 -986.43 471.47 718275.61 93945.91 32.080621 103.76204 0.00 0</td><td>8805.00 -5446.60 -9674.35 471.25 718275.47 39365.59 32.060917 103.7520.46 0.00 0.00 8805.00 -5446.60 -974.35 471.34 718275.56 39355.91 32.060917 103.7520.46 0.00 0.00 0.00 8805.00 -5448.60 -974.35 471.34 718275.56 39355.91 32.060917 103.7520.46 0.00 0.00 0.00 8805.00 -5448.60 -974.35 471.47 718275.60 39355.91 32.060917 103.7520.47 0.00 0.00 0.00 8805.00 -5448.60 -984.35 471.47 718275.67 39345.91 32.060927 103.7520.46 0.00 0.00 0.00 8805.00 -5448.60 -984.35 471.87 718275.61 33345.91 32.060927 103.7520.46 0.00 0.00 0.00 8805.00 -5448.60 -994.35 471.87 718275.61 33345.91 32.06027 103.7520.46 0.00 0.00 0.00 0.00<!--</td--><td>6805.00 5448.60 9644.35 471.27 71877.47 93655.91 32.00079 103.75204 0.00 0.00 6805.00 5448.60 9674.35 471.27 71877.47 93655.91 32.00079 103.75204 0.00 0.00 0.00 6805.00 5448.60 9704.35 471.24 71877.57 39365.91 32.00079 103.75204 0.00 0.00 0.00 6805.00 5448.60 9704.35 471.34 71877.56 39355.91 32.000712 103.75204 0.00<</td><td>Gesco Scale <th< td=""><td>6805.00 5448.60 955.35 471.02 71877.30 93775.51 31.01127 103.75204 0.00 0.00 6805.00 5448.60 9554.35 471.12 718275.31 393755.51 31.01127 103.75204 0.00 0.00 0.00 6805.00 5448.60 9544.35 471.12 718275.41 39365.51 31.080797 103.752045 0.00 0.00 0.00 6805.00 5448.60 974.35 471.12 718275.41 39365.51 31.080979 103.752045 0.00 0.00 0.00 6805.00 5448.60 974.35 471.47 718275.61 31.955.51 31.080979 103.752045 0.00 0.00 0.00 6805.00 5448.60 974.35 471.47 71827.56 31.955.51 31.080979 103.752045 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00</td><td>5446.60 -5446.60 -5446.61 -5944.35 -71.127 71827.561 33345.591 -12060.971 -10.37.2044 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 <</td><td>6805.00 -5448.60 -946.35 470.95 71.8275.17 393.845.91 31.081.47 -101.752.043 0.00 0.00 6805.00 -5448.60 -954.35 471.00 71.8275.27 393.855.91 31.081.17 103.752.043 0.00 0.00 0.00 6805.00 -5448.60 -954.35 471.10 71.8275.29 39375.51 31.081.927 103.752.04 0.00 0.00 0.00 6805.00 -5448.60 -954.35 471.12 71.8275.39 39375.51 31.081.97 103.752.04 0.00 0.00 0.00
6805.00 -5448.60 -954.35 471.12 71.8275.51 393.655.91 32.081.97 103.752.04 0.00 0.00 0.00 6805.00 -544.86 -974.35 471.42 71.827.56 393.55.91 32.080.97 103.752.04 0.00 0.00 0.00 6805.00 -544.86 -974.35 471.42 71.827.56 393.55.91 32.080.97 103.752.04 0.00 0.00 0.00 <t< td=""><td>BBD:00 SH46.64 SH43.5 ATOLE SH47.57 <thsh47.57< th=""> SH47.57 SH4</thsh47.57<></td><td>BBD5.00 S448.60 9374.35 470.87 718275.04 93935.91 32.081721 -100.752042 0.00 0.00 0.00 BBD5.00 S448.60 -940.35 470.97 718275.19 93985.91 32.08157 103.752042 0.00 0.00 0.00 BBD5.00 S448.60 -940.35 471.06 718275.27 93945.51 32.0815.97 103.752043 0.00 0.00 BBD5.00 S448.60 -940.35 471.00 718275.27 93975.51 32.081.92 103.752043 0.00 0.00 0.00 BBD5.00 S448.60 -954.35 471.17 718275.31 93975.51 32.081.92 103.752043 0.00 0.00 0.00 BBD5.00 S448.60 -954.35 471.27 718275.51 32.081.92 103.7520.44 0.00 0.00 0.00 0.00 BBD5.00 S448.60 -954.35 471.47 718275.51 32.080.97 103.7520.44 0.00 0.00 0.00 0.00 0.00 0.0</td><td>Biolog S-448.60 -931.3.5 470.7.4 7187.7.69 39395.51 32.0818.60 113.5.20.41 0.00 0.00 Biolog S-448.60 -940.3.5 470.82 7187.7.60 39395.51 32.0818.60 113.5.20.41 0.00 0.00 0.00 Biolog S-448.60 -940.3.5 470.92 7187.7.51 39395.51 32.0818.51 10.7.520.41 0.00 0.00 0.00 Biolog S-448.60 -940.3.5 471.00 7187.7.52 33315.51 32.0818.51 10.7.520.41 0.00 0.00 0.00 Biolog S-448.60 -954.3.5 471.101 7187.7.53 39315.51 32.081147 10.7.520.41 0.00 0.00 0.00 Biolog S-448.60 -954.3.5 471.17 7187.5.51 32.081147 10.7.520.44 0.00 0.00 0.00 Biolog S-448.60 -974.3.5 471.47 7187.5.61 32.08144 10.7.520.44 0.00 0.00 0.00 0.00 0.00 0.00</td><td>6805.00 -5448.60 9284.35 470.70 71.877.457 39.0025.91 32.081969 -103.75/2041 0.00 0.00 6805.00 5448.60 9314.35 470.74 71.877.451 39.995.51 32.081969 -103.75/2041 0.00 0.00 0.00 6805.00 5448.60 9314.35 470.87 71.877.50 39.995.51 32.08196 -103.75/2041 0.00 0.00 0.00 6805.00 5448.60 934.35 471.06 71.877.52 39.995.51 32.081.92 1.03.75/2041 0.00 0.00 0.00 6805.00 5448.60 954.35 471.10 71.877.53 39.9175.51 32.081.147 -103.75/2041 0.00 0.00 0.00 6805.00 5448.60 954.35 471.17 71.877.53 39.915.51 32.081.147 103.75/2041 0.00 0.00 0.00 6805.00 5448.60 974.35 471.47 71.877.54 39.915.51 32.081.147 103.75/2044 0.00 0.00 0.00 <t< td=""><td>Substan Substan <t< td=""><td>Section Section <t< td=""><td>Subston Substan <t< td=""><td>Subsco Subsco Subsco<</td><td>Subscr Subscr Subscr<</td><td>SMS:00 SA44.60 SMS.13 CACT2 THEZA 45 SMS.13 LARZYA SMS.14 <thlarzya< th=""> <thlarzya< th=""> <thlarzya< <="" td=""><td>Biologic Sada G Biologic Biologic</td></thlarzya<></thlarzya<></thlarzya<></td></t<><td>Sector Sector Sector<</td><td>BBLCO SH44.0 BBLAS COLD TH27.4.2 SH4250 TL20100 TL201000 TL201000 TL201000 TL2010000 TL2010000 TL2010000 TL2010000000 TL201000000000000 <thtl200000< td=""><td>BBD:00 SHA460 BHD:31 SHA510 SHA460 BHD:31 SHA510 SHA510<</td><td>BBS:00 SHARD BBS:01 SHARD SHARD SHARD SHARD SHARD SHARD SHARD SHARD</td><td>BBBLO SHA460 BFLA5 GASB THERA BBBLO SHA460 BFLA5 GASB THERA BBBLO SHA460 BFLA5 GASB THERA BBBLO SHA460 SHA460</td><td>Baseso Sameso Sameso<</td><td></td><td>Subso Subso <th< td=""><td>Simon Simon <th< td=""><td>Solito Solito Solito<</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>BBBC.00 SH44.60 SH44.50 SH44.51 SH44.50 SH44.51 <t< td=""></t<></td></th<></td></th<></td></thtl200000<></td></td></t<></td></t<></td></t<></td></t<></td></th<></td></td></t<></td></th<></thsh215.72<> | Substance Substance <t< td=""><td>BBSD:00 -544.66 -3964.35 471.48 71827.56 39354.51 32.006967 103.76.047 0.00 0.00 BBSD:00 -544.66 3974.35 471.47 71827.56 39345.51 32.006967 103.76.047 0.00 0.00 0.00 BBSD:00 -544.66 -984.35 471.47 71827.561 39345.51 32.006967 103.76.047 0.00 0.00 0.00 BBSD:00 -544.66 -984.35 471.51 71827.57 39345.51 32.009027 103.76.048 0.00</td><td>BBD:00 S448.00 974.35 471.34 718275.55 93575.91 32.080712 -103.76204 0.00 0.00 BBD:00 S448.60 -976.35 471.34 718275.60 93555.91 32.080712 -103.76204 0.00 0.00 0.00 BBD:00 S448.60 -976.35 471.47 718275.60 93555.91 32.080671 103.76204 0.00 0.00 0.00 BBD:00 S448.60 -986.43 471.47 718275.61 93945.91 32.080621 103.76204 0.00 0</td><td>8805.00 -5446.60 -9674.35 471.25 718275.47 39365.59 32.060917 103.7520.46 0.00 0.00 8805.00 -5446.60 -974.35 471.34 718275.56 39355.91 32.060917 103.7520.46 0.00 0.00 0.00 8805.00 -5448.60 -974.35 471.34 718275.56 39355.91 32.060917 103.7520.46 0.00 0.00 0.00 8805.00 -5448.60 -974.35 471.47 718275.60 39355.91 32.060917 103.7520.47 0.00 0.00 0.00 8805.00 -5448.60 -984.35 471.47 718275.67 39345.91 32.060927 103.7520.46 0.00 0.00 0.00 8805.00 -5448.60 -984.35 471.87 718275.61 33345.91 32.060927 103.7520.46 0.00 0.00 0.00 8805.00 -5448.60 -994.35 471.87 718275.61 33345.91 32.06027 103.7520.46
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SHA510<</td><td>BBS:00 SHARD BBS:01 SHARD SHARD SHARD SHARD SHARD SHARD SHARD SHARD</td><td>BBBLO SHA460 BFLA5 GASB THERA BBBLO SHA460 BFLA5 GASB THERA BBBLO SHA460 BFLA5 GASB THERA BBBLO SHA460 SHA460</td><td>Baseso Sameso Sameso<</td><td></td><td>Subso Subso <th< td=""><td>Simon Simon <th< td=""><td>Solito Solito Solito<</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>BBBC.00 SH44.60 SH44.50 SH44.51 SH44.50 SH44.51 <t< td=""></t<></td></th<></td></th<></td></thtl200000<></td></td></t<></td></t<></td></t<></td></t<></td></th<></td></td></t<> | BBSD:00 -544.66 -3964.35 471.48 71827.56 39354.51 32.006967 103.76.047 0.00 0.00 BBSD:00 -544.66 3974.35 471.47 71827.56 39345.51 32.006967 103.76.047 0.00 0.00 0.00 BBSD:00 -544.66 -984.35 471.47 71827.561 39345.51 32.006967 103.76.047 0.00 0.00 0.00 BBSD:00 -544.66 -984.35 471.51 71827.57 39345.51 32.009027 103.76.048 0.00 | BBD:00 S448.00 974.35 471.34 718275.55 93575.91 32.080712 -103.76204 0.00 0.00 BBD:00 S448.60 -976.35 471.34 718275.60 93555.91 32.080712 -103.76204 0.00 0.00 0.00 BBD:00 S448.60 -976.35 471.47 718275.60 93555.91 32.080671 103.76204 0.00 0.00 0.00 BBD:00 S448.60 -986.43 471.47 718275.61 93945.91 32.080621 103.76204 0.00 0 | 8805.00 -5446.60 -9674.35 471.25 718275.47 39365.59 32.060917 103.7520.46 0.00 0.00 8805.00 -5446.60 -974.35 471.34 718275.56 39355.91 32.060917 103.7520.46 0.00 0.00 0.00 8805.00 -5448.60 -974.35 471.34 718275.56 39355.91 32.060917 103.7520.46 0.00 0.00 0.00 8805.00 -5448.60 -974.35 471.47 718275.60 39355.91 32.060917 103.7520.47 0.00 0.00 0.00 8805.00 -5448.60 -984.35 471.47 718275.67 39345.91 32.060927 103.7520.46 0.00 0.00 0.00 8805.00 -5448.60 -984.35 471.87 718275.61 33345.91 32.060927 103.7520.46 0.00 0.00 0.00 8805.00 -5448.60 -994.35 471.87 718275.61 33345.91 32.06027 103.7520.46 0.00 0.00 0.00 0.00 </td <td>6805.00 5448.60 9644.35 471.27 71877.47 93655.91 32.00079 103.75204 0.00 0.00 6805.00 5448.60 9674.35 471.27 71877.47 93655.91 32.00079 103.75204 0.00 0.00 0.00 6805.00 5448.60 9704.35 471.24 71877.57 39365.91 32.00079 103.75204 0.00 0.00 0.00 6805.00 5448.60 9704.35 471.34 71877.56 39355.91 32.000712 103.75204 0.00<</td> <td>Gesco Scale <th< td=""><td>6805.00 5448.60 955.35 471.02 71877.30 93775.51 31.01127 103.75204 0.00 0.00 6805.00 5448.60 9554.35 471.12 718275.31 393755.51 31.01127 103.75204 0.00 0.00 0.00 6805.00 5448.60 9544.35 471.12 718275.41 39365.51 31.080797 103.752045 0.00 0.00 0.00 6805.00 5448.60 974.35 471.12 718275.41 39365.51 31.080979 103.752045 0.00 0.00 0.00 6805.00 5448.60 974.35 471.47 718275.61 31.955.51 31.080979 103.752045 0.00 0.00 0.00 6805.00 5448.60 974.35 471.47 71827.56 31.955.51 31.080979 103.752045 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00</td><td>5446.60 -5446.60 -5446.61 -5944.35 -71.127 71827.561 33345.591 -12060.971 -10.37.2044 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 <</td><td>6805.00 -5448.60 -946.35 470.95 71.8275.17 393.845.91 31.081.47 -101.752.043 0.00 0.00 6805.00 -5448.60 -954.35 471.00 71.8275.27 393.855.91 31.081.17 103.752.043 0.00 0.00 0.00 6805.00 -5448.60 -954.35 471.10 71.8275.29 39375.51 31.081.927 103.752.04 0.00 0.00 0.00 6805.00 -5448.60 -954.35 471.12 71.8275.39 39375.51 31.081.97 103.752.04 0.00 0.00 0.00 6805.00 -5448.60 -954.35 471.12 71.8275.51 393.655.91 32.081.97 103.752.04 0.00 0.00 0.00 6805.00 -544.86 -974.35 471.42 71.827.56 393.55.91 32.080.97 103.752.04 0.00 0.00 0.00 6805.00 -544.86 -974.35 471.42 71.827.56 393.55.91 32.080.97 103.752.04 0.00 0.00 0.00 <t< td=""><td>BBD:00 SH46.64 SH43.5 ATOLE SH47.57 <thsh47.57< th=""> SH47.57 SH4</thsh47.57<></td><td>BBD5.00 S448.60 9374.35 470.87 718275.04 93935.91 32.081721 -100.752042 0.00 0.00 0.00 BBD5.00
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Operator Name:	Property Name:	Well Number
Devon Energy Production Co., L.P.	Lusitano 27-34 Fed Com	525H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
B	27	25S	31E		385	NORTH	1874	EAST	EDDY
Latitu 32.1	^{ide} 107496	8			Longitude -103.763	34021			NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
B	27	25S	31E		100	NORTH	1430	EAST	EDDY
Latitu 32 .1	^{ide} 108281	2			Longitude -103.761	9630			NAD 83

Last Take Point (LTP)

UL O	Section 34	Township 25S	Range 31E	Lot	Feet 100	From N/S SOUTH	Feet 1430	From E/W EAST	County EDDY
Latitu	de				Longitu	de			NAD
32.0)79728	88			-103.	7620521			83

Is this well the defining well for the Horizontal Spacing Unit? YES

Is this well an infill well?

NO

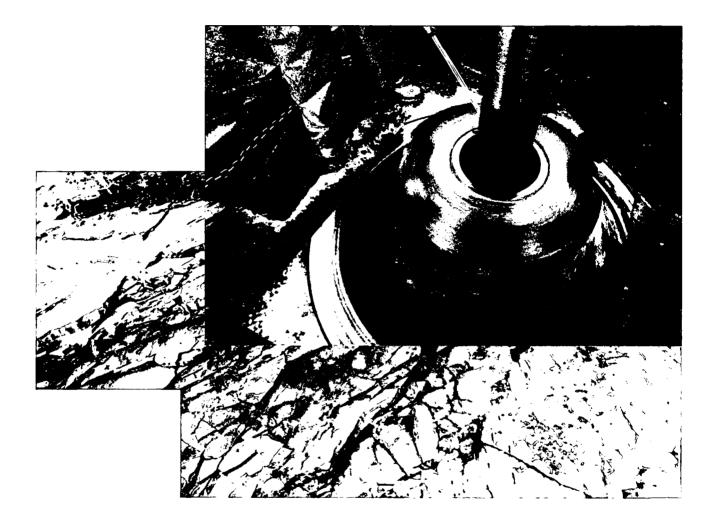
If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number
· · · · · · · · · · · · · · · · · · ·		K7.00 /2010

KZ 06/29/2018



Commitment Runs Deep



Design Plan Operation and Maintenance Plan Closure Plan

SENM - Closed Loop Systems June 2010

I. Design Plan

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

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

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

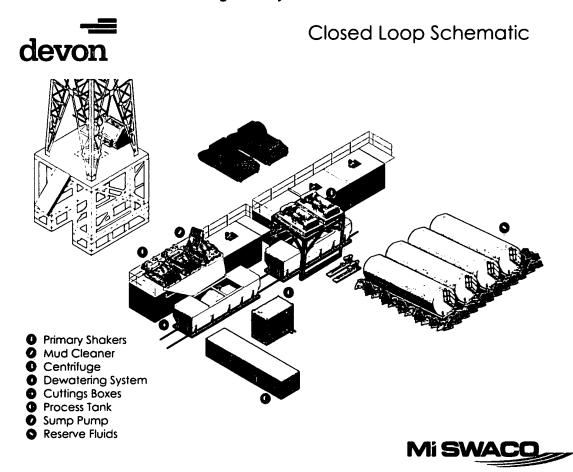
Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

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

II. Operations and Maintenance Plan

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

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



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

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

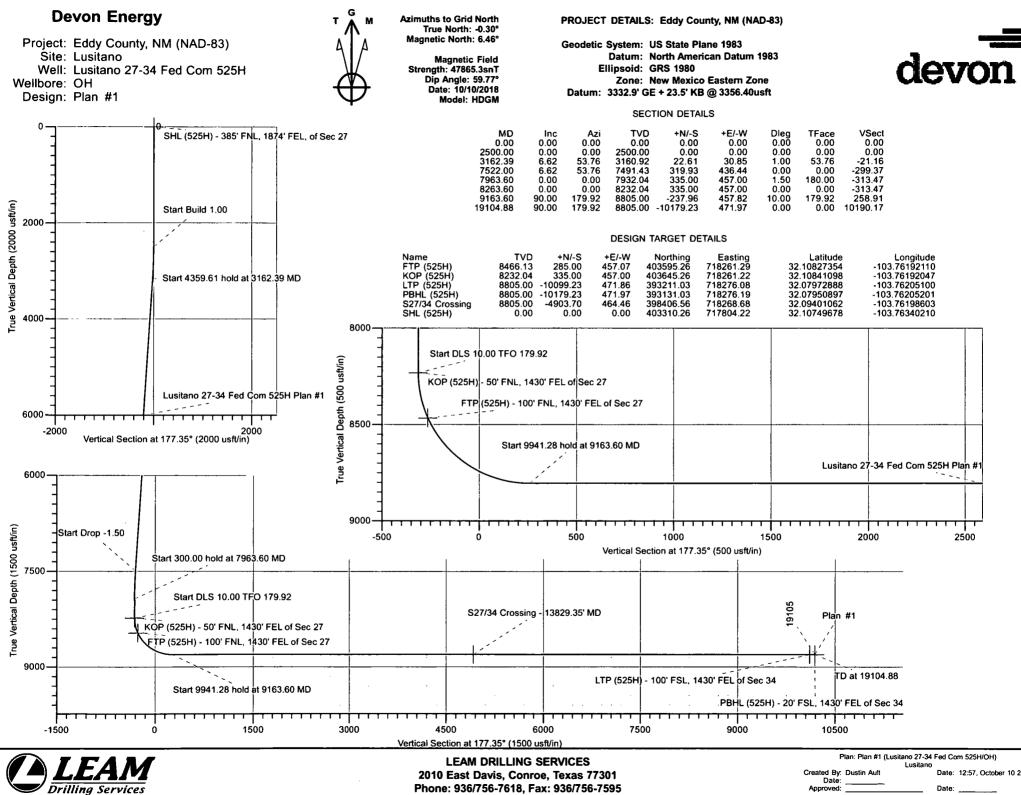
All trash is kept in a wire mesh enclosure and removed to an approved landfill when full. All spent motor oils are kept in separate containers and they are removed and sent to an approved recycling center. Any spilled lubricants, pipe dope, or regulated chemicals are removed from soil and sent to landfills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

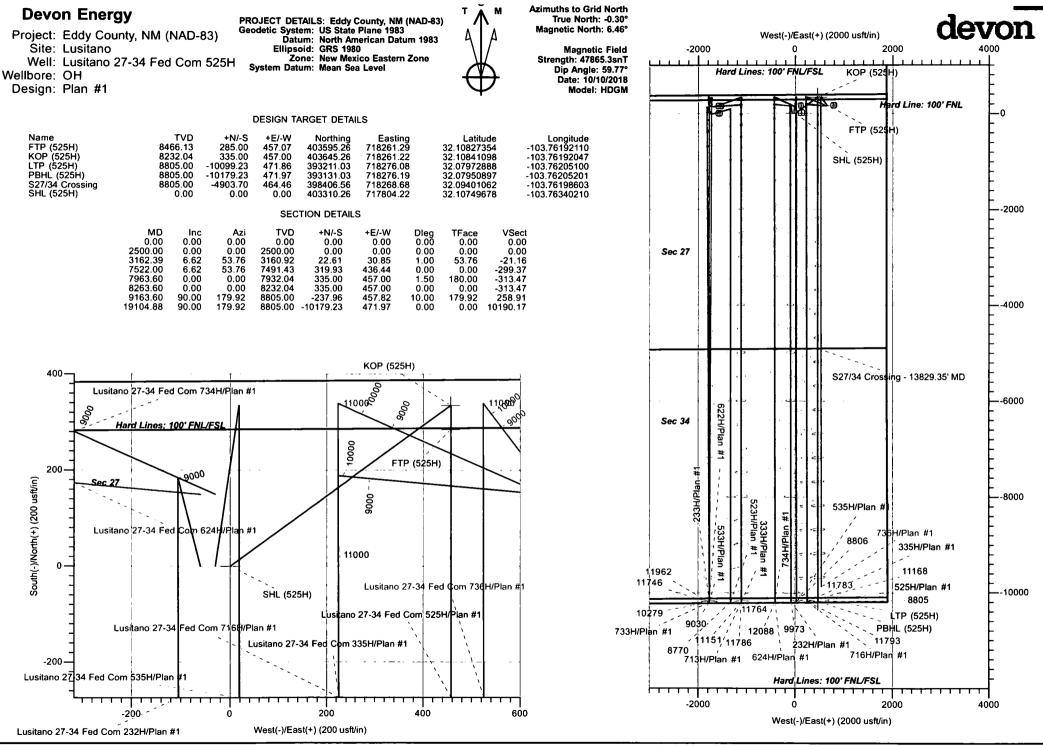
III. Closure Plan

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.



Phone: 936/756-7618, Fax: 936/756-7595

Date: 12:57, October 10 2018 Date





LEAM DRILLING SYSTEMS LLC 2010 East Davis, Conroe, Texas 77301 Phone: 936/756-7618, Fax: 936/756-7595 Plan: Plan #1 (Lusitano 27-34 Fed Com 525H/OH) Lusitano Created By: Dustin Ault Date: ______ Approved: ______ Date:

Devon Energy

Eddy County, NM (NAD-83) Lusitano Lusitano 27-34 Fed Com 525H

ОН

Plan: Plan #1

Standard Planning Report - Geographic

10 October, 2018

Planning Report - Geographic

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3,162.39	6.62	53.76	3,160.92	22.61	30.85	1.00	1.00	0.00	53.76	
7,522.00	6.62	53.76	7,491.43	319.93	436.44	0.00	0.00	0.00	0.00	
7,963.60	0.00	0.01	7,932.04	335.00	457.00	1.50	-1.50	0.00	180.00	
8,263.60	0.00	0.01	8,232.04	335.00	457.00	0.00	0.00	0.00	0.01	
9,163.60	90.00	179.92	8,805.00	-237.96	457.82	10.00	10.00	19.99	179.92	
	90.00	179.92	8,805.00	-10,179.23	471.97	0.00	0.00	0.00		

Planning Report - Geographic

Database:	EDM 5000.1 Multi User Db	Local Co-ordinate Reference:	Well Lusitano 27-34 Fed Com 525H
Company:	Devon Energy	TVD Reference:	3332.9' GE + 23.5' KB @ 3356.40usft
Project:	Eddy County, NM (NAD-83)	MD Reference:	3332.9' GE + 23.5' KB @ 3356.40usft
Site:	Lusitano	North Reference:	Grid
Well:	Lusitano 27-34 Fed Com 525H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Desian:	Plan #1		

Planned Survey

	Measured			Vertical			Мар	Мар		
	Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
	(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
	0.00	0.00	0.00	0.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
	•	5H) - 385' FNL	• . • •							
	100.00	0.00	0.00	100.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
	200.00		0.00	200.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
	300.00		0.00	300.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
	400.00		0.00	400.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
	500.00		0.00	500.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
	600.00		0.00	600.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
	700.00		0.00	700.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
	800.00		0.00	800.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
	900.00		0.00	900.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
	1,000.00		0.00	1,000.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
	1,100.00		0.00	1,100.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
	1,200.00		0.00	1,200.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
I.	1,300.00		0.00	1,300.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
i	1,400.00		0.00	1,400.00	0.00 0.00	0.00 0.00	403,310.26 403,310.26	717,804.22 717,804.22	32.10749677	-103.76340210
	1,500.00		0.00	1,500.00			•		32.10749677	-103.76340210
i	1,600.00		0.00	1,600.00	0.00 0.00	0.00 0.00	403,310.26	717,804.22 717,804.22	32.10749677	-103.76340210
ł	1,700.00 1,800.00		0.00 0.00	1,700.00 1,800.00	0.00	0.00	403,310.26 403,310.26	717,804.22	32.10749677 32.10749677	-103.76340210 -103.76340210
					0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
	1,900.00 2,000.00		0.00 0.00	1,900.00 2,000.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
1	2,000.00		0.00	2,000.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
1	2,100.00		0.00	2,100.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
,	2,200.00		0.00	2,200.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
	2,300.00		0.00	2,300.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
•	2,500.00		0.00	2,500.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
	2,600.00		53.76	2,599.99	0.52	0.70	403,310.77	717,804.92	32.10749818	-103.76339982
	2,700.00		53.76	2,699.96	2.06	2.81	403,312.32	717,807.03	32.10750241	-103.76339298
	2,800.00		53.76	2,799.86	4.64	6.33	403,314.90	717,810.55	32.10750944	-103.76338157
	2,900.00		53.76	2,899.68	8.25	11.26	403,318.51	717,815.47	32.10751929	-103.76336561
	3,000.00		53.76	2,999.37	12.89	17.58	403,323.15	717,821.80	32.10753195	-103.76334510
	3,100.00		53.76	3,098.90	18.56	25.31	403,328.82	717,829.53	32.10754742	-103.76332003
	3,162.39		53.76	3,160.92	22.61	30.85	403,332.87	717,835.06	32.10755848	-103.76330210
	3,200.00		53.76	3,198.27	25.18	34.35	403,335.44	717,838.56	32.10756548	-103.76329075
	3,300.00		53.76	3,297.61	32.00	43.65	403,342.26	717,847.86	32.10758409	-103.76326059
	3,400.00	6.62	53.76	3,396.94	38.82	52.95	403,349.08	717,857.17	32.10760270	-103.76323043
	3,500.00	6.62	53.76	3,496.27	45.64	62.26	403,355.89	717,866.47	32.10762131	-103.76320027
	3,600.00	6.62	53.76	3,595.60	52.46	71.56	403,362.71	717,875.77	32.10763993	-103.76317011
	3,700.00	6.62	53.76	3,694.94	59.28	80.86	403,369.53	717,885.08	32.10765854	-103.76313994
	3,800.00	6.62	53.76	3,794.27	66.09	90.17	403,376.35	717,894.38	32.10767715	-103.76310978
	3,900.00	6.62	53.76	3,893.60	72.91	99.47	403,383.17	717,903.68	32.10769576	-103.76307962
	4,000.00	6.62	53.76	3,992.93	79.73	108.77	403,389.99	717,912.99	32.10771437	-103.76304946
	4,100.00	6.62	53.76	4,092.27	86.55	118.08	403,396.81	717,922.29	32.10773298	-103.76301930
	4,200.00	6.62	53.76	4,191.60	93.37	127.38	403,403.63	717,931.59	32.10775159	-103.76298913
	4,300.00	6.62	53.76	4,290.93	100.19	136.68	403,410.45	717,940.90	32.10777020	-103.76295897
	4,400.00	6.62	53.76	4,390.26	107.01	145.99	403,417.27	717,950.20	32.10778881	-103.76292881
	4,500.00	6.62	53.76	4,489.60	113.83	155.29	403,424.09	717,959.50	32.10780742	-103.76289865
	4,600.00	6.62	53.76	4,588.93	120.65	164.59	403,430.91	717,968.81	32.10782603	-103.76286849
	4,700.00	6.62	53.76	4,688.26	127.47	173.90	403,437.73	717,978.11	32.10784465	-103.76283832
	4,800.00	6.62	53.76	4,787.59	134.29	183.20	403,444.55	717,987.41	32.10786326	-103.76280816
	4,900.00	6.62	53.76	4,886.93	141.11	192.50	403,451.37	717,996.72	32.10788187	-103.76277800
	5,000.00	6.62	53.76	4,986.26	147.93	201.81	403,458.19	718,006.02	32.10790048	-103.76274784
-	5,100.00	6.62	53.76	5,085.59	154.75	211.11	403,465.01	718,015.32	32.10791909	-103.76271767
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Planning Report - Geographic

Database:	EDM 5000.1 Multi User Db	Local Co-ordinate Reference:	Well Lusitano 27-34 Fed Com 525H
Company:	Devon Energy	TVD Reference:	3332.9' GE + 23.5' KB @ 3356.40usft
Project:	Eddy County, NM (NAD-83)	MD Reference:	3332.9' GE + 23.5' KB @ 3356.40usft
Site:	Lusitano	North Reference:	Grid
Well:	Lusitano 27-34 Fed Com 525H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #1		

	Measured Depth		A	Vertical Depth		+E/-W	Map Northing	Map Easting		
	(usft)	Inclination (°)	Azimuth (°)	(usft)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	Latitude	Longitude
	5,200.00	6.62	53.76	5,184.92	161.57	220.41	403,471.83	718,024.63	32.10793770	-103.76268751
	5,300.00	6.62	53.76	5,284.26	168.39	229.72	403,478.65	718,033.93	32.10795631	-103.76265735
	5,400.00	6.62	53.76	5,383.59	175.21	239.02	403,485.47	718,043.23	32.10797492	-103.76262719
	5,500.00	6.62	53.76	5,482.92	182.03	248.32	403,492.29	718,052.54	32.10799353	-103.76259703
	5,600.00	6.62	53.76	5,582.25	188.85	257.63	403,499.11	718,061.84	32.10801214	-103.76256686
	5,700.00	6.62	53.76	5,681.59	195.67	266.93	403,505.93	718,071.14	32.10803075	-103.76253670
	5,800.00	6.62	53.76	5,780.92	202.49	276.23	403,512.75	718,080.45	32.10804936	-103.76250654
	5,900.00	6.62	53.76	5,880.25	209.31	285.54	403,519.57	718,089.75	32.10806798	-103.76247638
	6,000.00	6.62	53.76	5,979.58	216.13	294.84	403,526.39	718,099.05	32.10808659	-103.76244621
	6,100.00	6.62	53.76	6,078.92	222.95	304.14	403,533.21	718,108.36	32.10810520	-103.76241605
	6,200.00	6.62	53.76	6,178.25	229.77	313.45	403,540.03	718,117.66	32.10812381	-103.76238589
	6,300.00	6.62	53.76	6,277.58	236.59	322.75	403,546.85	718,126.96	32.10814242	-103.76235573
	6,400.00	6.62	53.76	6,376.91	243.41	332.05	403,553.67	718,136.27	32.10816103	-103.76232556
	6,500.00	6.62	53.76	6,476.25	250.23	341.36	403,560.49	718,145.57	32.10817964	-103.76229540
	6,600.00	6.62	53.76	6,575.58	257.05	350.66	403,567.31	718,154.87	32.10819825	-103.76226524
	6,700.00	6.62	53.76	6,674.91	263.87	359.96	403,574.13	718,164.18	32.10821686	-103.76223508
1	6,800.00	6.62	53.76	6,774.24	270.69	369.27	403,580.95	718,173.48	32.10823547	-103.76220492
·	6,900.00	6.62	53.76	6,873.58	277.51	378.57	403,587.77	718,182.78	32.10825408	-103.76217475
1	7,000.00	6.62	53.76	6,972.91	284.33	387.87	403,594.59	718,192.09	32.10827269	-103.76214459
i.	7,100.00	6.62	53.76	7,072.24	291.15	397.18	403,601.40	718,201.39	32.10829130	-103.76211443
1	7,200.00	6.62	53.76	7,171.57	297.97	406.48	403,608.22	718,210.69	32.10830991	-103.76208427
÷	7,300.00	6.62	53.76	7,270.91	304.79	415.78	403,615.04	718,220.00	32.10832853	-103.76205410
I	7,400.00	6.62	53.76	7,370.24	311.61	425.09	403,621.86	718,229.30	32.10834714	-103.76202394
	7,500.00	6.62	53.76	7,469.57	318.42	434.39	403,628.68	718,238.60	32.10836575	-103.76199378
	7,522.00	6.62	53.76	7,491.43	319.93	436.44	403,630.18	718,240.65	32.10836984	-103.76198714
	7,600.00	5.45	53.76	7,568.99	324.78	443.05	403,635.04	718,247.27	32.10838308	-103.76196569
	7,700.00	3.95	53.76	7,668.65	329.62	449.67	403,639.88	718,253.88	32.10839631	-103.76194424
	7,800.00	2.45	53.76	7,768.49	332.93	454.17	403,643.19	718,258.39	32.10840533	-103.76192963
	7,900.00	0.95	53.76	7,868.44	334.69	456.57	403,644.95	718,260.79	32.10841012	-103.76192185
	7,963.60	0.00	0.01	7,932.04	335.00	457.00	403,645.26	718,261.22	32.10841098	-103.76192047
	8,000.00	0.00	0.00	7,968.44	335.00	457.00	403,645.26	718,261.22	32.10841098	-103.76192047
	8,100.00	0.00	0.00	8,068.44	335.00	457.00	403,645.26	718,261.22	32.10841098	-103.76192047
	8,200.00	0.00	0.00	8,168.44	335.00	457.00	403,645.26	718,261.22	32.10841098	-103.76192047
	8,263.60	0.00	0.00	8,232.04	335.00	457.00	403,645.26	718,261.22	32.10841098	-103.76192047
	KOP (52	5H) - 50' FNL,	1430' FEL of	Sec 27						
	8,300.00	3.64	179.92	8,268.42	333.84	457.00	403,644.10	718,261.22	32.10840780	-103.76192048
	8,350.00	8.64	179.92	8,318,11	328.50	457.01	403,638.76	718,261.23	32.10839311	-103.76192055
	8,400.00	13.64	179.92	8,367.16	318.84	457.02	403,629.10	718,261.24	32.10836656	-103.76192067
	8,450.00	18.64	179.92	8,415.17	304.95	457.04	403,615.20	718,261.26	32.10832836	-103.76192084
	8,500.00	23.64	179.92	8,461.79	286.92	457.07	403,597.18	718,261.28	32.10827881	-103.76192107
	8,504.74	24.11	179.92	8,466.13	285.00	457.07	403,595.26	718,261.29	32.10827353	-103.76192109
		H) - 100' FNL	1430' FEL of							
	8,550.00	28.64	179.92	8,506.66	264.90	457.10	403,575.16	718,261.32	32.10821828	-103.76192135
	8,600.00	33.64	179.92	8,549.44	239.05	457.14	403,549.31	718,261.35	32.10814723	-103.76192167
	8,650.00	38.64	179.92	8,589.81	209.57	457.18	403,519.83	718,261.39	32.10806619	-103.76192204
	8,700.00	43.64	179.92	8,627.45	176.69	457.23	403,486.94	718,261.44	32.10797580	-103.76192245
	8,750.00	48.64	179.92	8,662.09	140.65	457.28	403,450.90	718,261.49	32.10787673	-103.76192290
	8,800.00	53.64	179.92	8,693.45	101.72	457.33	403,411.98	718,261.55	32.10776974	-103.76192339
	8,850.00	58.64	179.92	8,721.30	60.22	457.39	403,370.48	718,261.61	32.10765564	-103.76192391
	8,850.00	58. 64 63.64	179.92	8,745.42	16.44	457.39	403,326.70	718,261.67	32.10753531	-103.76192446
						457.45 457.52		718,261.73	32.10753551	-103.76192503
	8,950.00 9,000.00	68.64 73.64	179.92	8,765.64 8,781.80	-29.27 -76.57	457.52 457.59	403,280.99 403,233.69	718,261.80	32.10727963	-103.76192562
	9,000.00	73.64	179.92			457.59 457.66			32.10727963	-103.76192562
	9,050.00	78.64 83.64	179.92 179.92	8,793.77 8,801.47	-125.10 -1 74.49	457.66	403,185.16 403,135.77	718,261.87 718,261.94	32.10714624	-103.76192625
	9,100.00	03.04		0,001.47	-1/4.43		405,155.77	/10,201.34		

Planning Report - Geographic

Database:	EDM 5000.1 Multi User Db	Local Co-ordinate Reference:	Well Lusitano 27-34 Fed Com 525H
Company:	Devon Energy	TVD Reference:	3332.9' GE + 23.5' KB @ 3356.40usft
Project:	Eddy County, NM (NAD-83)	MD Reference:	3332.9' GE + 23.5' KB @ 3356.40usft
Site:	Lusitano	North Reference:	Grid
Well:	Lusitano 27-34 Fed Com 525H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #1		

Planned Survey

	Measured			Vertical			Мар	Мар		
	Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
L	9,150.00	88.64	179.92	8,804.84	-224.36	457.80	403,085.90	718,262.01	32.10687339	-103.76192747
	9,163.60	90.00	179.92	8,805.00	-237.96	457.82	403,072.30	718,262.03	32.10683601	-103.76192764
	9,200.00	90.00	179.92	8,805.00	-274.36	457.87	403,035.90	718,262.08	32.10673595	-103.76192810
	9,300.00	90.00	179.92	8,805.00	-374.36	458.01	402,935.90	718,262.23	32.10646107	-103.76192935
	9,400.00	90.00	179.92	8,805.00	-474.36	458.15	402,835.90	718,262.37	32,10618618	-103.76193060
	9,500.00	90.00	179.92	8,805.00	-574.36	458.29	402,735.90	718,262.51	32.10591130	-103.76193185
	9,600.00	90.00	179.92	8,805.00	-674.36	458.44	402,635.90	718,262.65	32.10563642	-103.76193311
	9,700.00	90.00	179.92	8,805.00	-774.36	458.58	402,535.90	718,262.80	32.10536153	-103.76193436
	9,800.00	90.00	179.92	8,805.00	-874.36	458.72	402,435.90	718,262.94	32.10508665	-103.76193561
	9,900.00	90.00	179.92	8,805.00	-974.36	458.86	402,335.90	718,263.08	32.10481176	-103.76193686
	10,000.00	90.00	179.92	8,805.00	-1,074.36	459.01	402,235.90	718,263.22	32.10453688	-103.76193811
	10,100.00	90.00	179.92	8,805.00	-1,174.36	459.15	402,135.90	718,263.37	32.10426200	-103.76193937
	10,200.00	90.00	179.92	8,805.00	-1,274.36	459.29	402,035.90	718,263.51	32.10398711	-103.76194062
	10,300.00	90.00	179.92	8,805.00	-1,374.36	459.43	401,935.90	718,263.65	32.10371223	-103.76194187
	10,400.00	90.00	179.92	8,805.00	-1,474.36	459.58	401,835.90	718,263.79	32.10343734	-103.76194312
	10,500.00	90.00	179.92	8,805.00	-1,574.36	459.72	401,735.90	718,263.93	32.10316246	-103.76194437
1	10,600.00	90.00	179.92	8,805.00	-1,674.36	459.86	401,635.90	718,264.08	32.10288758	-103.76194563
	10,700.00	90.00	179.92	8,805.00	-1,774.36	460.00	401,535.90	718,264.22	32.10261269	-103.76194688
ł	10,800.00	90.00	179.92	8,805.00	-1,874.36	460.15	401,435.90	718,264.36	32.10233781	-103.76194813
,	10,900.00	90.00	179.92	8,805.00	-1,974.36	460.29	401,335.90	718,264.50	32.10206292	-103.76194938
	11,000.00	90.00	179.92	8,805.00	-2,074.36	460.43	401,235.90	718,264.65	32.10178804	-103.76195063
	11,100.00	90.00	179.92	8,805.00	-2,174.36	460.57	401,135.90	718,264.79	32.10151316	-103.76195188
	11,200.00	90.00	179.92	8,805.00	-2,274.36	460.72	401,035.90	718,264.93	32.10123827	-103.76195314
	11,300.00	90.00	179.92	8,805.00	-2,374.36	460.86	400,935.90	718,265.07	32.10096339	-103.76195439
	11,400.00	90.00	179.92	8,805.00	-2,474.36	461.00	400,835.90	718,265.22	32.10068850	-103.76195564
	11,500.00	90.00	179.92	8,805.00	-2,574.36	461.14	400,735.90	718,265.36	32.10041362	-103.76195689
	11,600.00	90.00	179.92	8,805.00	-2,674.36	461.28	400,635.90	718,265.50	32.10013873	-103.76195814
	11,700.00	90.00	179.92 179.92	8,805.00	-2,774.36	461.43 461.57	400,535.90	718,265.64 718,265.79	32.09986385 32.09958897	-103.76195939 -103.76196065
	11,800.00	90.00 90.00	179.92	8,805.00 8,805.00	-2,874.36 -2,974.36	461.57	400,435.90 400,335.90	718,265.93	32.09931408	-103.76196085
	11,900.00 12,000.00	90.00	179.92	8,805.00	-2,974.30	461.71	400,235.90	718,266.07	32.09903920	-103.76196315
	12,000.00	90.00	179.92	8,805.00	-3,174.35	461.05	400,235.90	718,266.21	32.09876431	-103.76196440
	12,100.00	90.00	179.92	8,805.00	-3,174.35	462.14	400,035.90	718,266.35	32.09848943	-103.76196565
	12,300.00	90.00	179.92	8,805.00	-3,374.35	462.28	399,935.90	718,266.50	32.09821455	-103.76196690
	12,400.00	90.00	179.92	8,805.00	-3,474.35	462.42	399,835.90	718,266.64	32.09793966	-103.76196815
	12,500.00	90.00	179.92	8,805.00	-3,574.35	462.57	399,735.90	718,266.78	32.09766478	-103.76196941
	12,600.00	90.00	179.92	8,805.00	-3,674.35	462.71	399,635.90	718,266.92	32.09738989	-103.76197066
	12,700.00	90.00	179.92	8,805.00	-3,774.35	462.85	399,535.90	718,267.07	32.09711501	-103.76197191
	12,800.00	90.00	179.92	8,805.00	-3,874.35	462.99	399,435.90	718,267.21	32.09684012	-103.76197316
	12,900.00	90.00	179.92	8,805.00	-3,974.35	463.14	399,335.90	718,267.35	32.09656524	-103.76197441
	13,000.00	90.00	179.92	8,805.00	-4,074.35	463.28	399,235.91	718,267.49	32.09629036	-103.76197566
	13,100.00	90.00	179.92	8,805.00	-4,174.35	463.42	399,135.91	718,267.64	32.09601547	-103.76197691
	13,200.00	90.00	179.92	8,805.00	-4,274.35	463.56	399,035.91	718,267.78	32.09574059	-103.76197816
	13,300.00	90.00	179.92	8,805.00	-4,374.35	463.71	398,935.91	718,267.92	32.09546570	-103.76197942
	13,400.00	90.00	179.92	8,805.00	-4,474.35	463.85	398,835.91	718,268.06	32.09519082	-103.76198067
	13,500.00	90.00	179.92	8,805.00	-4,574.35	463.99	398,735.91	718,268.21	32.09491593	-103.76198192
	13,600.00	90.00	179.92	8,805.00	-4,674.35	464.13	398,635.91	718,268.35	32.09464105	-103.76198317
	13,700.00	90.00	179.92	8,805.00	-4,774.35	464.27	398,535.91	718,268.49	32.09436616	-103.76198442
	13,800.00	90.00	179.92	8,805.00	-4,874.35	464.42	398,435.91	718,268.63	32.09409128	-103.76198567
	13,829.35	90.00	179.92	8,805.00	-4,903.70	464.46	398,406.56	718,268.67	32.09401061	-103.76198604
	S27/34 C	rossing - 138	29.35' MD							
	13,900.00	90.00	179.92	8,805.00	-4,974.35	464.56	398,335.91	718,268.78	32.09381640	-103.76198692
	14,000.00	90.00	179.92	8,805.00	-5,074.35	464.70	398,235.91	718,268.92	32.09354151	-103.76198817
• -	14,100.00	90.00	179.92	8,805.00	-5,174.35	464.84	398,135.91	718,269.06	32.09326663	-103.76198943

Planning Report - Geographic

Database:	EDM 5000.1 Multi User Db	Local Co-ordinate Reference:	Well Lusitano 27-34 Fed Com 525H
Company:	Devon Energy	TVD Reference:	3332.9' GE + 23.5' KB @ 3356.40usft
Project:	Eddy County, NM (NAD-83)	MD Reference:	3332.9' GE + 23.5' KB @ 3356.40usft
Site:	Lusitano	North Reference:	Grid
Well:	Lusitano 27-34 Fed Com 525H	Survey Calculation Method:	Minimum Curvature
Weilbore:	ОН	-	
Design:	Plan #1		

Planned Survey

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
14,200.00	90.00	179.92	8,805.00	-5,274.35	464.99	398,035.91	718,269.20	32.09299174	-103.7619
14,300.00	90.00	179.92	8,805.00	-5,374.35	465.13	397,935.91	718,269.34	32.09271686	-103.7619
14,400.00	90.00	179.92	8,805.00	-5,474.35	465.27	397,835.91	718,269.49	32.09244197	-103.7619
14,500.00	90.00	179.92	8,805.00	-5,574.35	465.41	397,735.91	718,269.63	32.09216709	-103.7619
14,600.00	90.00	179.92	8,805.00	-5,674.35	465.56	397,635.91	718,269.77	32.09189220	-103.7619
14,700.00	90.00	179.92	8,805.00	-5,774.35	465.70	397,535.91	718,269.91	32.09161732	-103.7619
14,800.00	90.00	179.92	8,805.00	-5,874.35	465.84	397,435.91	718,270.06	32.09134244	-103.7619
14,900.00	90.00	179.92	8,805.00	-5,974.35	465.98	397,335.91	718,270.20	32.09106755	-103.7619
15,000.00	90.00	179.92	8,805.00	-6,074.35	466.13	397,235.91	718,270.34	32.09079267	-103.7620
15,100.00	90.00	179.92	8,805.00	-6,174.35	466.27	397,135.91	718,270.48	32.09051778	-103.7620
15,200.00		179.92	8,805.00	-6,274.35	466.41	397,035.91	718,270.63	32.09024290	-103.7620
15,300.00		179.92	8,805.00	-6,374.35	466.55	396,935.91	718,270.77	32.08996801	-103.7620
15,400.00		179.92	8,805.00	-6,474.35	466.70	396,835.91	718,270.91	32.08969313	-103.7620
15,500.00		179.92	8,805.00	-6,574.35	466.84	396,735.91	718,271.05	32.08941824	-103.7620
15,600.00		179.92	8,805.00	-6,674.35	466.98	396,635.91	718,271.20	32.08914336	-103.7620
15,700.00		179.92	8,805.00	-6,774.35	467.12	396,535.91	718,271.34	32.08886847	-103.7620
15,800.00		179.92	8,805.00	-6,874.35	467.26	396,435.91	718,271.48	32.08859359	-103.7620
15,900.00		179.92	8,805.00	-6,974.35	467.41	396,335.91	718,271.62	32.08831870	-103.7620
16,000.00		179.92	8,805.00	-7,074.35	467.55	396,235,91	718,271.77	32.08804382	-103.7620
16,100.00		179.92	8,805.00	-7,174.35	467.69	396,135,91	718,271.91	32.08776894	-103.7620
16,200.00		179.92	8,805.00	-7,274.35	467.83	396,035.91	718,272.05	32.08749405	-103.7620
16,300.00		179.92	8,805.00	-7,374.35	467.98	395,935.91	718,272.19	32.08721917	-103.7620
16,400.00		179.92	8,805.00	-7,474.35	468.12	395,835.91	718,272.33	32.08694428	-103.7620
16,500.00		179.92	8,805.00	-7,574.35	468.26	395,735.91	718,272.48	32.08666940	-103.7620
16,600.00		179.92	8,805.00	-7,674.35	468.40	395,635.91	718,272.62	32.08639451	-103.7620
16,700.00		179.92	8,805.00	-7,774.35	468.55	395,535.91	718,272.76	32.08611963	-103.7620
16,800.00		179.92	8,805.00	-7,874.35	468.69	395,435.91	718,272.90	32.08584474	-103.7620
16,900.00		179.92	8,805.00	-7,974.35	468.83	395,335.91	718,273.05	32.08556987	-103.7620
17,000.00		179.92	8,805.00	-8,074.35	468.97	395,235.91	718,273.19	32.08529498	-103.7620
		179.92			469.12			32.08502010	-103.7620
17,100.00			8,805.00	-8,174.35		395,135.91	718,273.33		-103.7620
17,200.00		179.92	8,805.00	-8,274.35	469.26	395,035.91	718,273.47	32.08474521	
17,300.00		179.92	8,805.00	-8,374.35	469.40	394,935.91	718,273.62	32.08447033	-103.7620
17,400.00		179.92	8,805.00	-8,474.35	469.54	394,835.91	718,273.76	32.08419544	-103.7620
17,500.00		179.92	8,805.00	-8,574.35	469.69	394,735.91	718,273.90	32.08392056	-103.7620
17,600.00		179.92	8,805.00	-8,674.35	469.83	394,635.91	718,274.04	32.08364567 32.08337079	-103.7620 -103.7620
		179.92	8,805.00	-8,774.35	469.97	394,535.91	718,274.19 718,274.33		
17,800.00		179.92	8,805.00	-8,874.35	470.11	394,435.91		32.08309590	-103.7620
17,900.00		179.92	8,805.00	-8,974.35	470.25	394,335.91 394,235,91	718,274.47	32.08282102	-103.7620 -103.7620
18,000.00		179.92	8,805.00	-9,074.35	470.40	394,235.91	718,274.61	32.08254613	
18,100.00		179.92	8,805.00	-9,174.35	470.54	394,135.91	718,274.76	32.08227125	-103.7620 -103.7620
18,200.00		179.92	8,805.00	-9,274.35	470.68	394,035.91	718,274.90	32.08199636	
18,300.00		179.92	8,805.00	-9,374.35	470.82	393,935.91	718,275.04	32.08172148	-103.7620
18,400.00		179.92	8,805.00	-9,474.35	470.97	393,835.91	718,275.18	32.08144659	-103.7620
18,500.00		179.92	8,805.00	-9,574.35	471.11	393,735.91	718,275.32	32.08117171	-103.7620
18,600.00		179.92	8,805.00	-9,674.35	471.25	393,635.91	718,275.47	32.08089682	-103.7620
18,700.00		179.92	8,805.00	-9,774.35	471.39	393,535.91	718,275.61	32.08062194	-103.7620
18,800.00		179.92	8,805.00	-9,874.35	471.54	393,435.91	718,275.75	32.08034705	-103.7620
18,900.00		179.92	8,805.00	-9,974.35	471.68	393,335.91	718,275.89	32.08007217	-103.7620
19,000.00	90.00	179.92	8,805.00	-10,074.35	471.82	393,235.91	718,276.04	32.07979728	-103.7620
LTP (525	5H) - 100' FSL,	1430' FEL of	Sec 34						
19,104.88	90.00	179.92	8,805.00	-10,179.23	471.97	393,131.03	718,276.19	32.07950898	-103.7620

Planning Report - Geographic

Database: Company: Project: Site: Well: Wellbore: Design:	Devon Ener Eddy Count Lusitano	1 Multi User D gy y, NM (NAD-8 -34 Fed Com	33)		TVD Refere MD Referen North Refer	ice:	3332.9' G	ano 27-34 Fed Com 52 E + 23.5' KB @ 3356.4 E + 23.5' KB @ 3356.4 Curvature	Ousft
Design Targets	· · · ·								
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (525H) - 385' FNL, - plan hits target cer - Point	0.0 nter	0 0.01	0.00	0.00	0.00	403,310.26	717,804.22	32.10749677	-103.76340210
KOP (525H) - 50' FNL, 1 - plan hits target cer - Point		0 0.00	8,232.04	335.00	457.00	403,645.26	718,261.22	32.10841098	-103.76192047
FTP (525H) - 100' FNL, - plan hits target cer - Point	0.0 nter	0 0.00	8,466.13	285.00	457.07	403,595.26	718,261.29	32.10827354	-103.76192110
PBHL (525H) - 20' FSL, - plan hits target cer - Point	0.0 nter	0 0.00	8,805.00	-10,179.23	471.97	393,131.03	718,276.19	32.07950898	-103.76205201
LTP (525H) - 100' FSL, - plan misses targel - Point			8,805.00 000.00usft N	-10,099.23 ID (8805.00 T∖	471.86 ′D, -10074.35	393,211.03 N, 471.82 E)	718,276.08	32.07972889	-103.76205100
S27/34 Crossing - 1382 - plan hits target cer - Point		0 0.00	8,805.00	-4,903.70	464.46	398,406.56	718,268.68	32.09401061	-103.76198603

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

Devon proposes using a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.

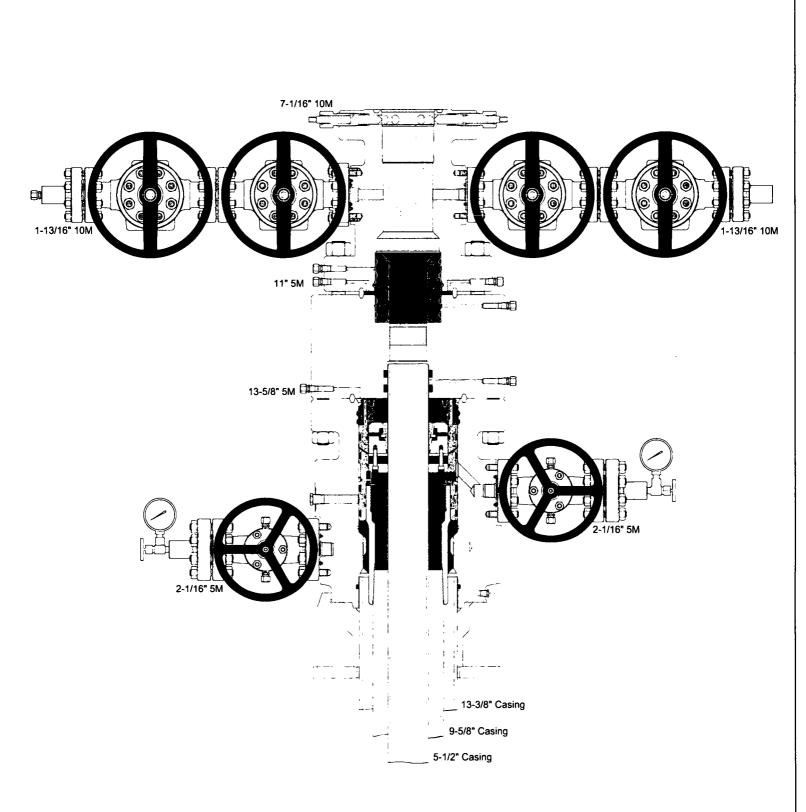
- Wellhead will be installed by wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial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

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

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

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

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





Fluid Technology

ContiTech Beattle Corp. Website: <u>www.contitechbeattle.com</u>

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



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PHOENIX RUBBER

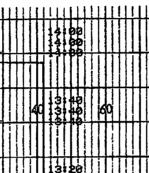
QUALITY DOCUMENT

.) 6728 Szeged, Budapesti úl 10. Hungary • H-6701 Szeged, P. O. Box 152 hone: (3662) 566-737 • Fax: (3662) 568-738 SALES & MARKETING: H-1092 Budapest, Réday u. 42-44. Hungary • H-1440 Budapest, P. O. Box 26 Phone: (361) 456-4200 • Fax: (361) 217-2972, 456-4273 • www.taurusemenga.hu

PHOENIX RUBBER order N°· 11 HOSE SERIAL N°· 3 W.P. 68,96 MPa 10000 Pressure test with water at ambient temperature \uparrow 10 mm = 10 Min. \rightarrow 10 mm = 25 MPa Type 3" coupling with	(tie Co. HOSE TYPE NOMINAL / / T.P. 103,4	ACTUAL L 1 MPa	1500		151 oke and Ki 11,43 n Duration:		min.
HOSE SERIAL N° 3 W.P. 68,96 MPa 10000 Pressure test with water at ambient temperature \uparrow 10 mm = 10 Min. \rightarrow 10 mm = 25 MPa Type 3" coupling with	14128 psi	NOMINAL / /	ACTUAL L 4 MPa	ENGTH: 1500		11,43 n	n	min.
W.P. 68,96 MPa 10000 Pressure test with water at ambient temperature \uparrow 10 mm = 10 Min. \rightarrow 10 mm = 25 MPa Type 3" coupling with	psi	T.P. 103,4	1 MPa	1500	0 psi	<u> </u>		min.
Pressure test with water at ambient temperature ↑ 10 mm = 10 Min. → 10 mm = 25 MPa Type 3° coupling with	(- 		0 psi	Duration:	60	min.
amblent temperature \uparrow 10 mm = 10 Min. \rightarrow 10 mm = 25 MPa Type 3" coupling with	See atta	achment. (1 page)				·	
→ 10 mm = 25 MPa Type 3" coupling with	See atta	achment. (1 page)					
→ 10 mm = 25 MPa Type 3" coupling with		(÷,
→ 10 mm = 25 MPa Type 3" coupling with			1		•			10 10 11 11
3" coupling with	s 1	COUPI	LINGS					. ۲۵۵۰ .
		Serial N°			Quality		Heat N°	
	72	20 719		A	SI 4130		C7626	
4 1/16" Flange end				A	SI 4130		47357	

All metal parts are flawless				Spec 16 berature	B C e rate:"E	<u> </u>	······································	
WE CERTIFY THAT THE ABOVE HOS PRESSURE TESTED AS ABOVE WITH	E HAS BEEN SATISFACT	I MANUFACTU ORY RESULT.	RED IN AC	CORDAN		THE TERMS	OF THE ORDE	ER AND
Date: Inspe 29. April. 2002.	ector		Quai M	lity Contr	THOE	NIX RUI lustrial Lt	d.	 ۲
23. April. 2002.				achl		Inspection THE STREET TENIX RUT	up Corru	<u>in</u>

VERIFIED TRUE CO. PHOENIX RUBBER & C.



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

SUPO Data Report

APD ID: 10400035224

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: LUSITANO 27-34 FED COM

Well Type: OIL WELL

Submission Date: 10/16/2018

Well Number: 525H

Highlighted data reflects the most recent changes

Show Final Text

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Lusitano_27_34_Fed_Com_525H_Ex_Access_Rd_20181015125837.pdf

Existing Road Purpose: ACCESS

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? YES

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

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES									
New Road Map:									
Lusitano_27_34_Fed_Com_525H_Access_Rds_20181015125931.pdf									
New road type: COLLECTOR, RESOURCE									
Length: 1222 Feet Width (ft.): 30									
Max slope (%): 6 Max grade (%): 4									
Army Corp of Engineers (ACOE) permit required? NO									
ACOE Permit Number(s):									
New road travel width: 20									
New road access erosion co	ntrol: WATER DRAINAG	E DITCH							
New road access plan or pro	file prepared? NO								
New road access plan attachment:									
Access road engineering design? NO									
Access road engineering design attachment:									

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: LUSITANO 27-34 FED COM

Well Number: 525H

Access surfacing type: GRAVEL

Access topsoil source: ONSITE

Access surfacing type description:

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: SEE INTERIM RECLAMATION DIAGRAM

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: N/A

Road Drainage Control Structures (DCS) description: N/A

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Lusitano_27_34_Fed_Com_525H_1mile_Map_20181015130033.pdf

Existing Wells description:

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

Submit or defer a Proposed Production Facilities plan? DEFER

Estimated Production Facilities description: All flowlines will be buried going to the Lusitano 27 CTB 4, aka Cotton Draw Unit 27-34 CTB 4.

Section 5 - Location and Types of Water Supply

Water Source Table

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: LUSITANO 27-34 FED COM

Well Number: 525H

Water source use type: STIMULATION

Describe type:

Source latitude:

Source datum:

Water source permit type: OTHER

Source land ownership: FEDERAL

Water source transport method: PIPELINE

Source transportation land ownership: FEDERAL

Water source volume (barrels): 270000

Source volume (gal): 11340000

Source volume (acre-feet): 34.801136

Water source type: RECYCLED

Source longitude:

Water source and transportation map:

Lusitano_27_34_Fed_Com_525H_Wtr_Xfr_Map_20181015130233.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 Ir	nfo	
Well latitude:	Well Longitude:	Well datum:
Well target aquifer:		
Est. depth to top of aquifer(ft):	Est thickness o	f aquifer:
Aquifer comments:		
Aquifer documentation:		
Well depth (ft):	Well casing type:	
Well casing outside diameter (in.):	Well casing inside	e diameter (in.):
New water well casing?	Used casing sour	ce:
Drilling method:	Drill material:	
Grout material:	Grout depth:	
Casing length (ft.):	Casing top depth	(ft.):
Well Production type:	Completion Metho	od:
Water well additional information:		
State appropriation permit:		
Additional information attachment:		

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: LUSITANO 27-34 FED COM

Well Number: 525H

Section 6 - Construction Materials

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

Construction Materials source location attachment:

Lusitano_27_34_Fed_Com_525H_Caliche_Pit_20181015130254.pdf

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: WATER BASED CUTTINGS

Amount of waste: 1877 barrels

Waste disposal frequency : Daily

Safe containment description: N/A

Safe containmant attachment:

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

Disposal type description:

Disposal location description: ALL CUTTINGS WILL BE DISPOSED OF AT R360, SUNDANCE OR EQUIVALENT.

Waste type: COMPLETIONS/STIMULATION

Waste content description: Flow back water during completion operations.

Amount of waste: 3000 barrels

Waste disposal frequency : One Time Only

Safe containment description: N.A

Safe containmant 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: PRODUCED WATER

Waste content description: Produced water during production operations. This amount is a daily average during the first
year of production (BWPD).Amount of waste: 1000barrels

Waste disposal frequency : Daily

Safe containment description: N/A

Safe containmant attachment:

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

Well Name: LUSITANO 27-34 FED COM

Well Number: 525H

Disposal type description:

Disposal location description: One of three company owned SWD facilities in the area: CDU 181, CDU 89, CDU 84.

Waste type: FLOWBACK

Waste content description: Produced water during flowback operations. This amount is a daily average during flowback (BWPD).

Amount of waste: 1500 barrels

Waste disposal frequency : Daily

Safe containment description: N/A

Safe containmant attachment:

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

Disposal type description:

Disposal location description: One of three company owned SWD facilities in the area: CDU 181, CDU 89, CDU 84.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

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

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? NO

Description of cuttings location

Cuttings area length (ft.)

Cuttings area depth (ft.)

Cuttings area width (ft.)

Cuttings area volume (cu. yd.)

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

WCuttings area liner

Cuttings area liner specifications and installation description

Well Name: LUSITANO 27-34 FED COM

Well Number: 525H

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Lusitano_27_34_Fed_Com_525H_Rig_Layout_20181015130344.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: LUSITANO 27 WELLPAD

Multiple Well Pad Number: 4

Recontouring attachment:

Lusitano_27_34_Fed_Com_525H_Reclamation_20181015130407.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 pad proposed disturbance (acres): 5.62	Well pad interim reclamation (acres):	Well pad long term disturbance (acres): 3.546
Road proposed disturbance (acres): 0.842	Road interim reclamation (acres): 0	Road long term disturbance (acres): 0.842
Powerline proposed disturbance (acres): 1.847	Powerline interim reclamation (acres): 0 Pipeline interim reclamation (acres): 0	(acres): 1.847
Pipeline proposed disturbance (acres): 0.041	Other interim reclamation (acres): 0	Pipeline long term disturbance (acres): 0.041 Other long term disturbance (acres): 4
Other proposed disturbance (acres): 4.22 Total proposed disturbance: 12.57	Total interim reclamation: 2.074	Total long term disturbance: 10.276

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:

Well Name: LUSITANO 27-34 FED COM

Well Number: 525H

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Existing Vegetation Community at the road attachment: Existing Vegetation Community at the pipeline: Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO Seed harvest description: Seed harvest description attachment:

Seed Management

Seed Table

Seed type:

Seed name:

Source name:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Seed source:

Source address:

Total pounds/Acre:

Proposed seeding season:

Seed Summary	
Seed Type	Pounds/Acre

Well Number: 525H

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: JACOB

Phone: (575)748-9934

Last Name: OCHOA

Email: jacob.ochoa@dvn.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: MAINTAIN WEEDS ON AN AS NEED BASIS.

Weed treatment plan attachment:

Monitoring plan description: MONITOR AS NEEDED.

Monitoring plan attachment:

Success standards: N/A

Pit closure description: N/A

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: 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:

Well Name: LUSITANO 27-34 FED COM

Well Number: 525H

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

Disturbance type: WELL PAD

USFS Ranger District:

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:

Well Name: LUSITANO 27-34 FED COM

Well Number: 525H

State Local Office:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:

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

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

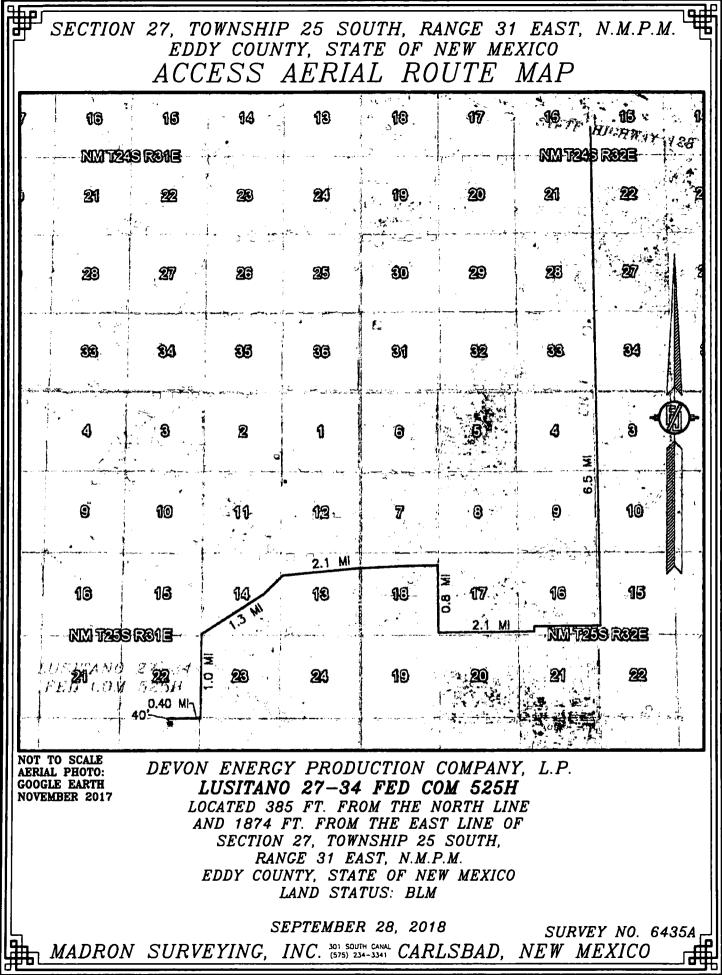
SUPO Additional Information: CTB PLAT ELECTRIC PLAT FLOWLINE GAS & WATER BATTERY CONNECT

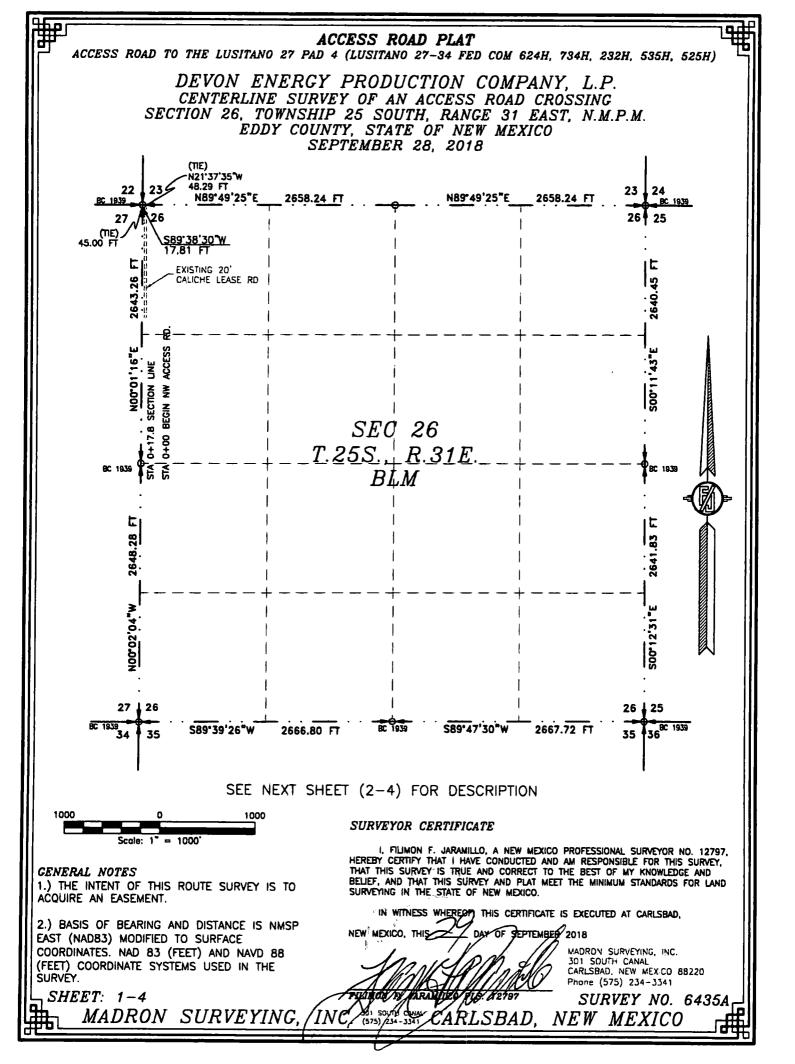
Use a previously conducted onsite? YES

Previous Onsite information: 6/1/2016

Other SUPO Attachment

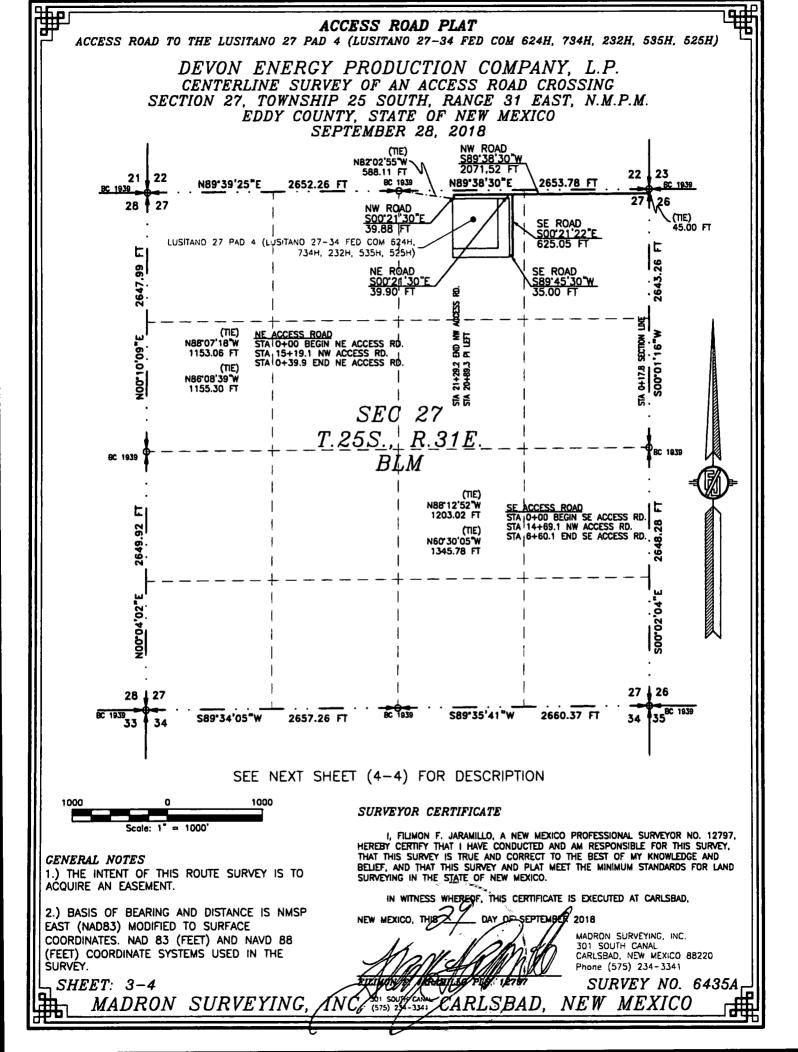
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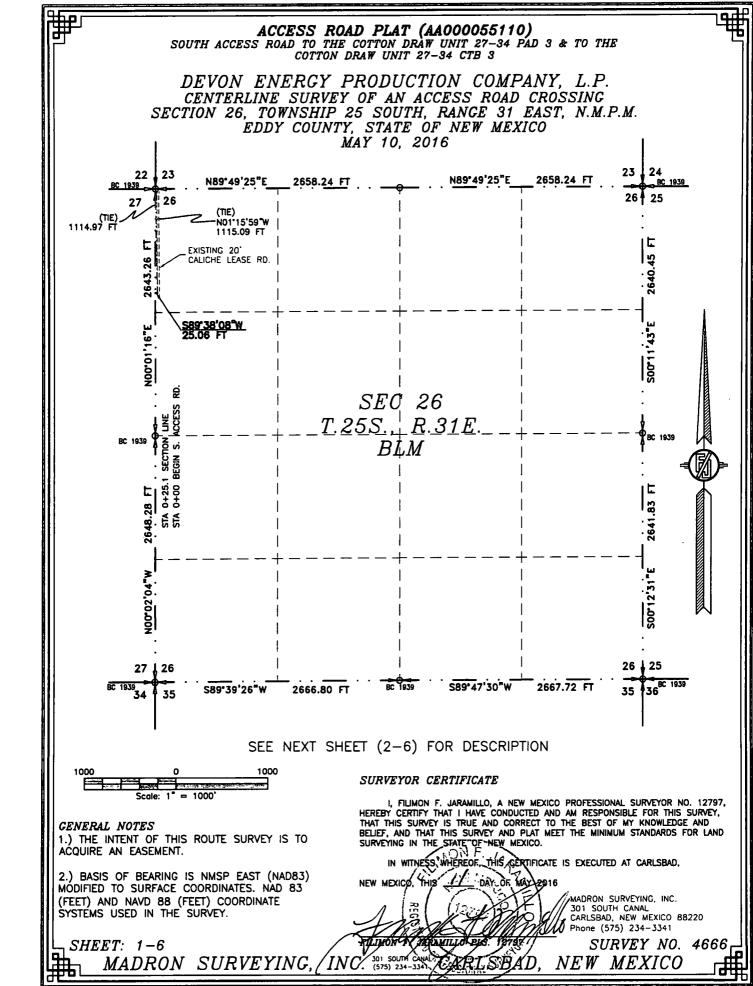


₽	ACCESS ROAD PLAT ACCESS ROAD TO THE LUSITANO 27 PAD 4 (LUSITANO 27-34 FED COM 624H, 734H, 232H, 535H, 525H)	
	DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 26, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO SEPTEMBER 28, 2018	
	DESCRIPTION A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 26, TOWNSHIP 25 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:	
	NORTHWEST ACCESS ROAD BEGINNING AT A POINT WITHIN THE NW/4 NW/4 OF SAID SECTION 26, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 26, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N21'37'35'W, A DISTANCE OF 48.29 FEET:	
	THENCE 589'38'30"W A DISTANCE OF 17.81 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 26, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS NOO'01'16"E, A DISTANCE OF 45.00 FEET; SAID STRIP OF LAND BEING 17.81 FEET OR 1.08 RODS IN LENGTH, CONTAINING 0.012 ACRES MORE OR LESS AND BEING ALLOCATED	
	SAID STRIP OF LAND BEING 17.81 FEET OR 1.08 RODS IN LENGTH, CONTAINING 0.012 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS: NW/4 NW/4 17.81 L.F. 1.08 RODS 0.012 ACRES	
	SURVEYOR CERTIFICATE	
1.)	I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 1279 HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY THAT THIS SURVEY IS TO DUIRE AN EASEMENT.	Y.
EAST COO	BASIS OF BEARING AND DISTANCE IS NMSP IT (NADB3) MODIFIED TO SURFACE DRDINATES. NAD 83 (FEET) AND NAVD 88 ET) COORDINATE SYSTEMS USED IN THE	

(FEET) COORDINATE SYSTEMS USED IN THE SURVEY. SHEET: 2-4 MADRON SURVEYING, INC. 1975 234-334 MADRON SURVEYING, INC. 1975 234-334 CARLSBAD, NEW MEXICO BB220 Phone (575) 234-334 SURVEY NO. 6435A CARLSBAD, NEW MEXICO



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甲	ACCESS ROAD PLAT ACCESS ROAD TO THE LUSITANO 27 PAD 4 (LUSITANO 27-34 FED COM 624H, 734H, 232H, 535H, 525H)	
	DEVON ENERGY PRODUCTION COMPANY, L.P. Centerline survey of an access road crossing Section 27, township 25 south, range 31 east, n.m.p.m. Eddy county, state of new mexico september 28, 2018	
	DESCRIPTION A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 27, TOWNSHIP 25 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:	
	NORTHWEST ACCESS ROAD BEGINNING AT A POINT WITHIN THE NE/4 NE/4 OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTHEAST CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS NO0'01'16"E, A DISTANCE OF 45.00 FEET:	
	THENCE S89'38'30"W A DISTANCE OF 2071.52 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S00'21'30"E A DISTANCE OF 39.88 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N82'02'55"W, A DISTANCE OF 588.11 FEET;	
	SAID STRIP OF LAND BEING 2111.40 FEET OR 127.97 RODS IN LENGTH, CONTAINING 1.454 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:	
	NE/4 NE/4 1326.90 L.F. 80.42 RODS 0.914 ACRES NW/4 NE/4 784.50 L.F. 47.55 RODS 0.540 ACRES	
	NORTHEAST ACCESS ROAD BEGINNING AT A POINT WITHIN THE NW/4 NE/4 OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N88'07'18'W, A DISTANCE OF 1153.06 FEET;	
	THENCE SOO'21'30"E A DISTANCE OF 39.90 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N86'08'39"W, A DISTANCE OF 1155.30 FEET;	
	SAID STRIP OF LAND BEING 39.90 FEET OR 2.42 RODS IN LENGTH, CONTAINING 0.027 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:	
	NW/4 NE/4 39.90 L.F. 2.42 RODS 0.027 ACRES	
	SOUTHEAST ACCESS ROAD BEGINNING AT A POINT WITHIN THE NW/4 NE/4 OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N88'12'52'W, A DISTANCE OF 1203.02 FEET;	
	THENCE SOO'21'22'E A DISTANCE OF 625.05 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S89'45'30'W A DISTANCE OF 35.00 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N60'30'05'W, A DISTANCE OF 1345.78 FEET;	
	SAID STRIP OF LAND BEING 660.05 FEET OR 40.00 RODS IN LENGTH, CONTAINING 0.455 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:	
	NW/4 NE/4 660.05 L.F. 40.00 RODS 0.455 ACRES	
	SURVEYOR CERTIFICATE	
1.)	I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 1275 NERAL NOTES THE INTENT OF THIS ROUTE SURVEY IS TO QUIRE AN EASEMENT. I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 1275 HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY THAT THIS SURVEY IS TO LEASE AND PLAT MEET THE MINIMUM STANDARDS FOR LAN SURVEYING IN THE STATE OF NEW MEXICO.	
EAS CO (FE	BASIS OF BEARING AND DISTANCE IS NMSP ST (NADB3) MODIFIED TO SURFACE ORDINATES. NAD 83 (FEET) AND NAVD 88 EET) COORDINATE SYSTEMS USED IN THE RVEY.	
	SHEET: 4-4 MADRON SURVEYING, INC. 301 SOUTH CARLSBAD, NEW MEXICO	
P	ULINDAU, INENICO, INC. (5/5) CATLIDDAD, INEW MEATCO	₽₩



ACCESS ROAD PLAT (AA000055110) SOUTH ACCESS ROAD TO THE COTTON DRAW UNIT 27-34 PAD 3 & TO THE COTTON DRAW UNIT 27-34 CTB 3

DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 26, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO MAY 10, 2016

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 26, TOWNSHIP 25 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 26, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 26, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS NO1'15'59"W, A DISTANCE OF 1115.09 FEET;

THENCE S89'38'08"W A DISTANCE OF 25.06 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 26, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS NO0'01'16"E, A DISTANCE OF 1114.97 FEET;

SAID STRIP OF LAND BEING 25.06 FEET OR 1.52 RODS IN LENGTH, CONTAINING 0.017 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

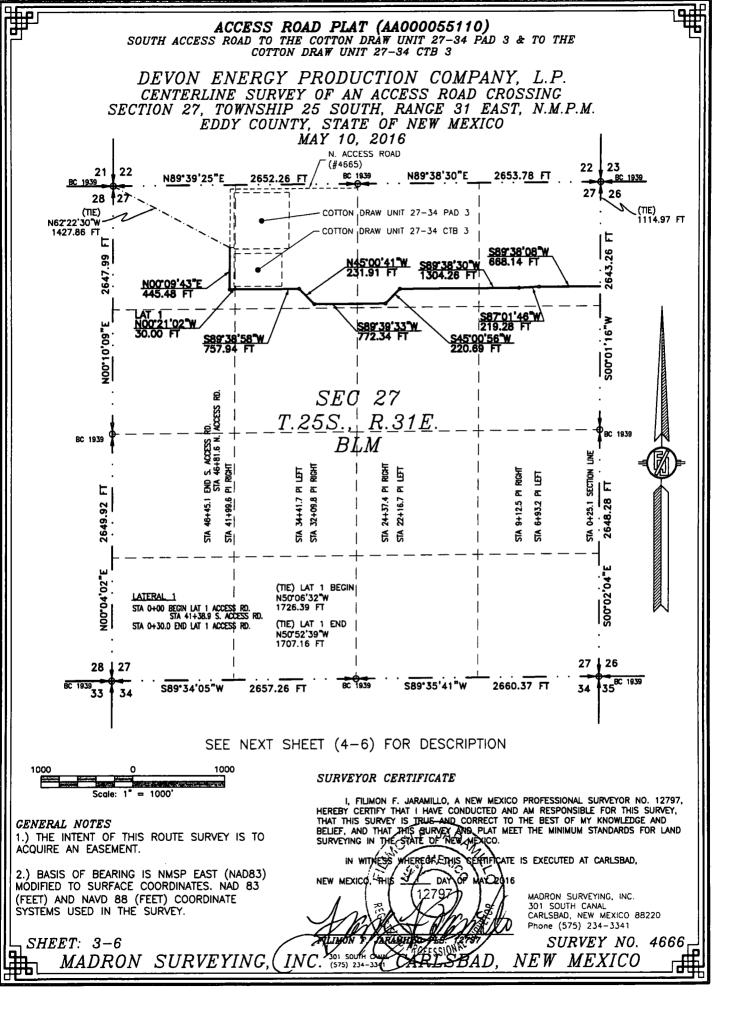
NW/4 NW/4 25.06 L.F. 1.52 RODS 0.017 ACRES

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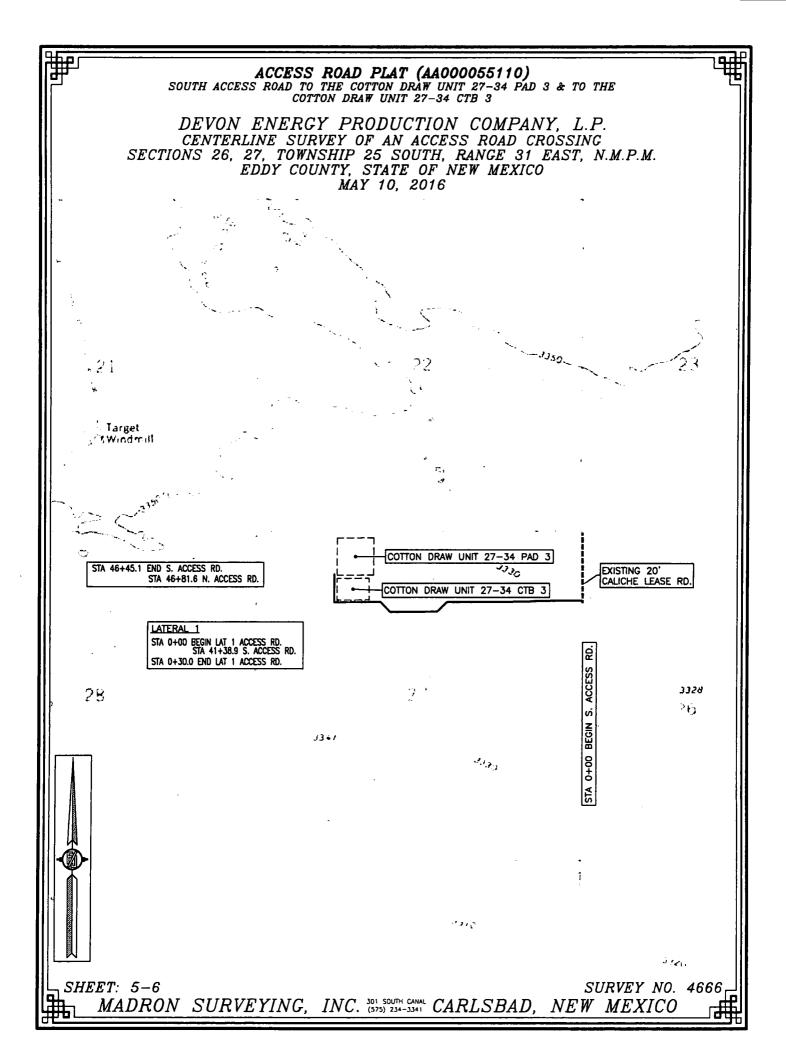
SURVEYOR CERTIFICATE

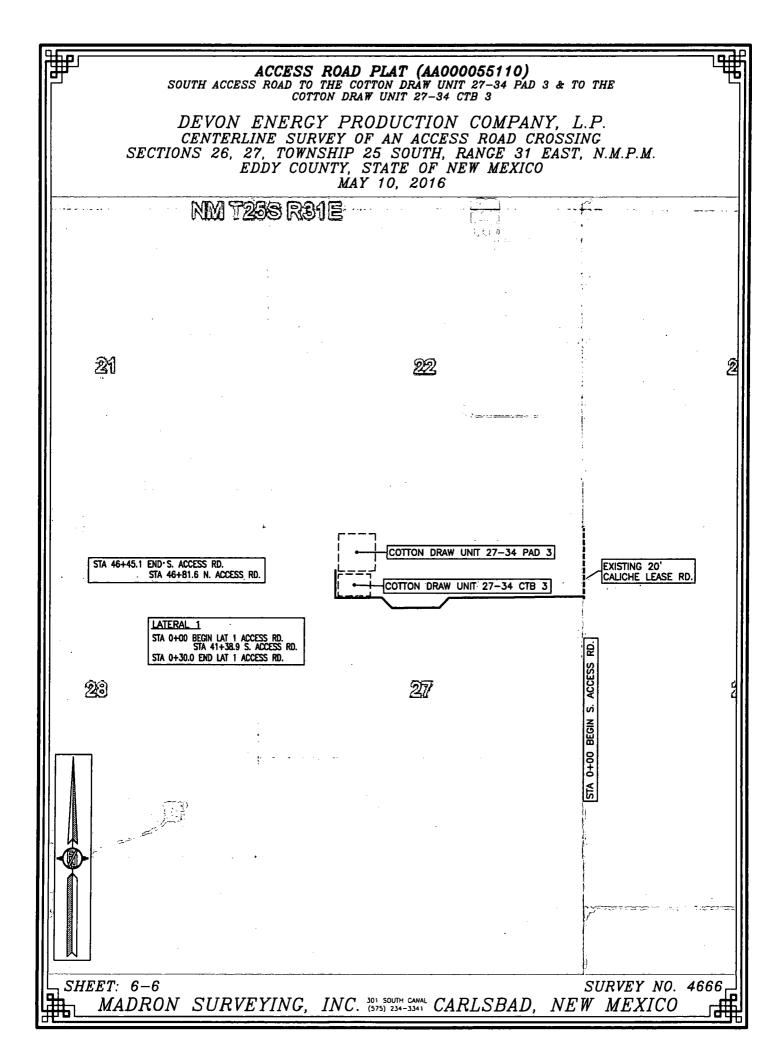
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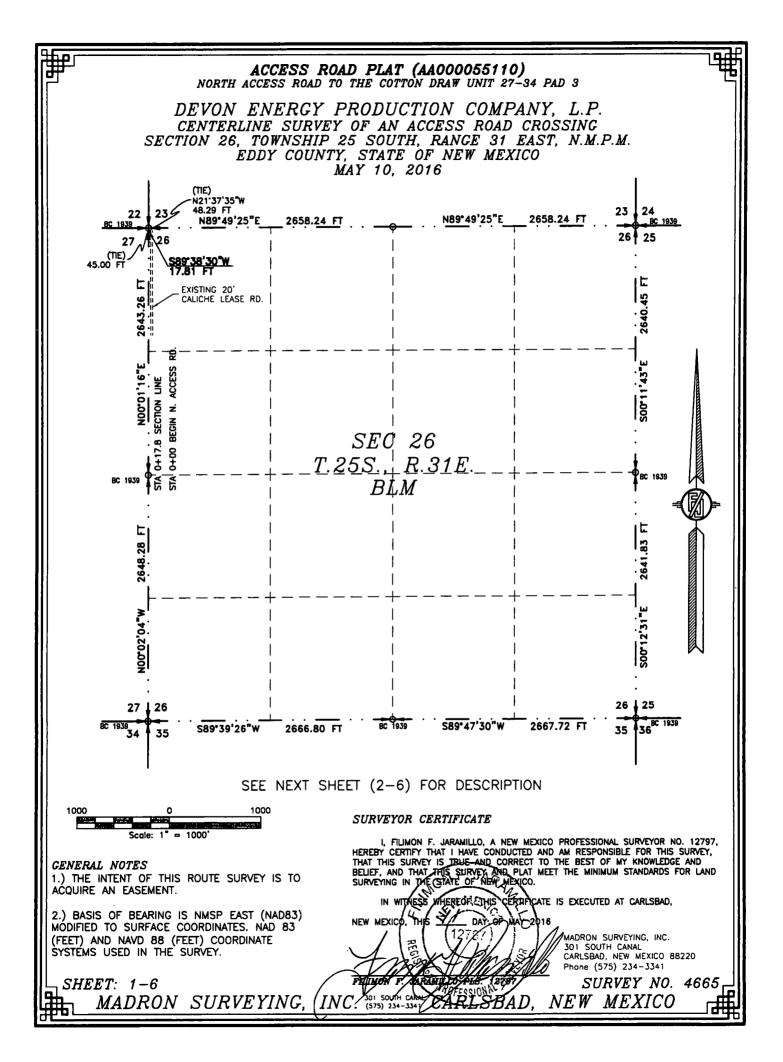
<i>GENERAL NOTES</i> 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.	I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS CURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MERICON IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,
2.) BASIS OF BEARING IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.	NEW MEXICO, THIS A DAY OF THY 2016
SHEET: 2–6 MADRON SURVEYING,	INC (575) 234-334 CARLSBAD, NEW MEXICO



ACCESS ROAD PLAT (AAOOOO55110) SOUTH ACCESS ROAD TO THE COTTON DRAW UNIT 27-34 PAD 3 & TO THE COTTON DRAW UNIT 27-34 CTB 3 DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO MAY 10, 2016 DESCRIPTION A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 27, TOWNSHIP 25 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: SOUTH ACCESS ROAD BEGINNING AT A POINT WITHIN THE NE/4 NE/4 OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTHEAST CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS NOO'01'16"E, A DISTANCE OF 1114.97 FEET: THENCE S89'38'08"W A DISTANCE OF 668.14 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE \$87'01'46"W A DISTANCE OF 219.28 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S89'38'30"W A DISTANCE OF 1304.26 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S45'00'56"W A DISTANCE OF 220.69 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S89'39'33"W A DISTANCE OF 772.34 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N45'00'41 W A DISTANCE OF 231.91 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S89'38'58"W A DISTANCE OF 757.94 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED: THENCE NOO'09'43"E A DISTANCE OF 445.48 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N62'22'30"W, A DISTANCE OF 1427.86 FEET; SAID STRIP OF LAND BEING 4620.04 FEET OR 280.01 RODS IN LENGTH, CONTAINING 3.182 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS: NE/4 NE/4 1327.61 L.F. 80.46 RODS 0.914 ACRES NW/4 NE/4 1392.08 L.F. 84.37 RODS NE/4 NW/4 1394.86 L.F. 84.54 RODS 0.959 ACRES 0.961 ACRES NW/4 NW/4 505.49 L.F. 30.64 RODS 0.348 ACRES LATERAL 1 ACCESS ROAD BEGINNING AT A POINT WITHIN THE NW/4 NW/4 OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N50'06'32'W, A DISTANCE OF 1726.39 FEET: THENCE NOO'21'02"W A DISTANCE OF 30.00 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N50'52'39"W, A DISTANCE OF 1707.16 FEET; SAID STRIP OF LAND BEING 30.00 FEET OR 1.82 RODS IN LENGTH, CONTAINING 0.021 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS: NW/4 NW/4 30.00 L.F. 1.82 RODS 0.021 ACRES 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 **GENERAL NOTES** BELIEF, AND THAT THIS SURVET AND PLAT MEET THE MINIMUM CONTRACT OF THE SURVEYING IN THE STATE OF NEW MEXICO. IN WITNESS WHEREOF, THEY CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 2000 DAY, OF THAT 2016 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT. NEW MEXICO THIS 2.) BASIS OF BEARING IS NMSP EAST (NAD83) MÓDIFIED TO SURFACE COORDINATES. NAD 83 MADRON SURVEYING, INC. (FEET) AND NAVD 88 (FEET) COORDINATE 301 SOUTH CANAL SYSTEMS USED IN THE SURVEY. CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341 SHEET: 4-6 MLIMO. V.CAR MITTER SURVEY NO. 4666 CARAS 301 SOUTH BAN (575) 234-33 MADRON SURVEYING. BAD NEW MEXICO U



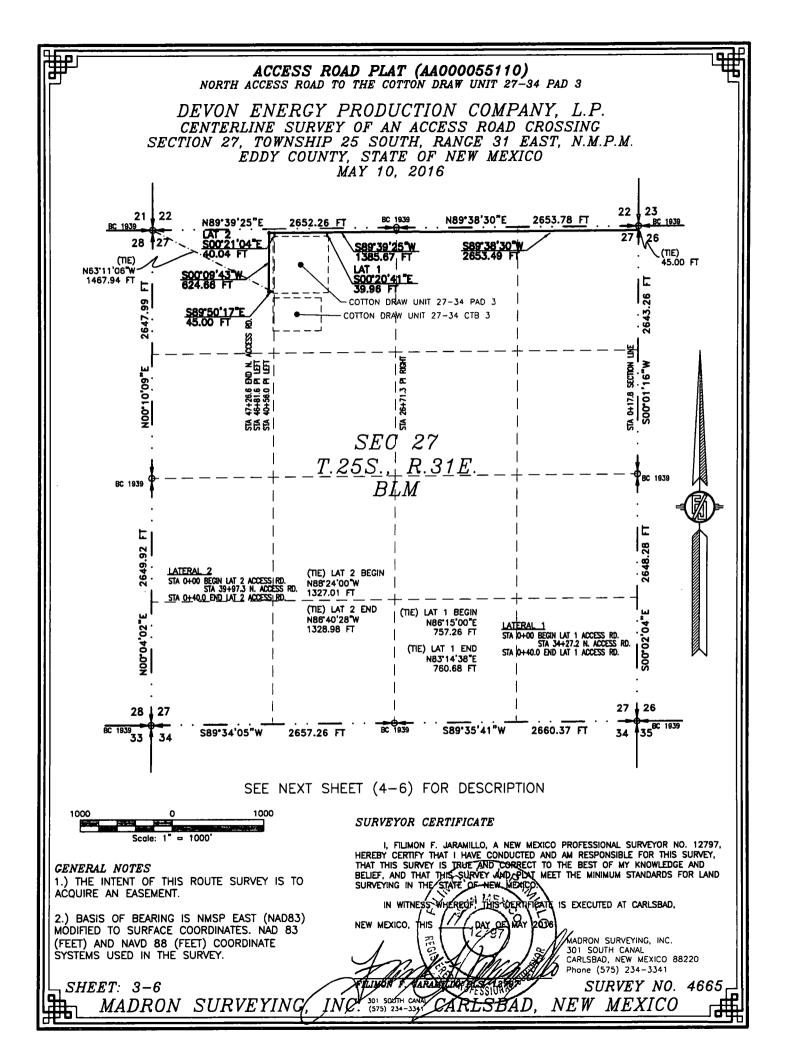




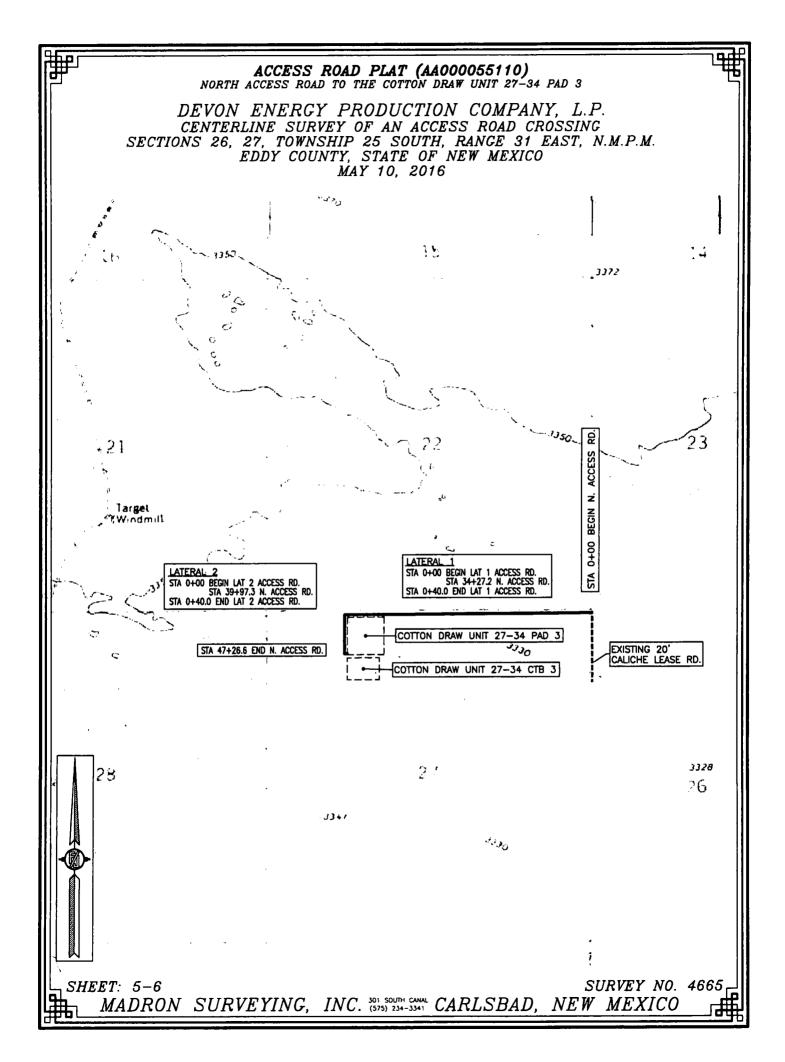
ACCESS ROAD PLAT (AA000055110) NORTH ACCESS ROAD TO THE COTTON DRAW UNIT 27-34 PAD 3
DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 26, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO MAY 10, 2016
A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 26, TOWNSHIP 25 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 26, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., BEARS NOTO'1'6"E, A DISTANCE OF 17.81 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 26, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS NOTO'1'6"E, A DISTANCE OF 45.00 FEET;
SAID STRIP OF LAND BEING 17.81 FEET OR 1.08 RODS IN LENGTH, CONTAINING 0.012 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTHER AS FOLLOWS:
NW/4 NW/4 17.81 LF. 1.08 RODS 0.012 ACRES

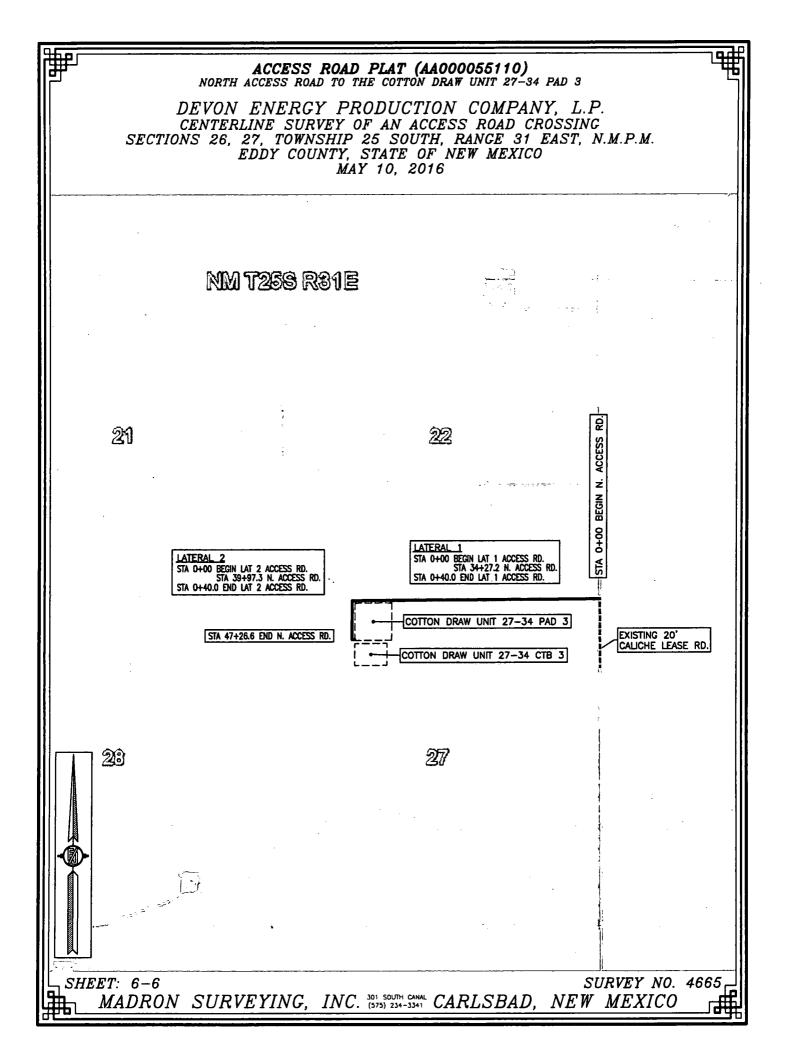
SURVEYOR CERTIFICATE

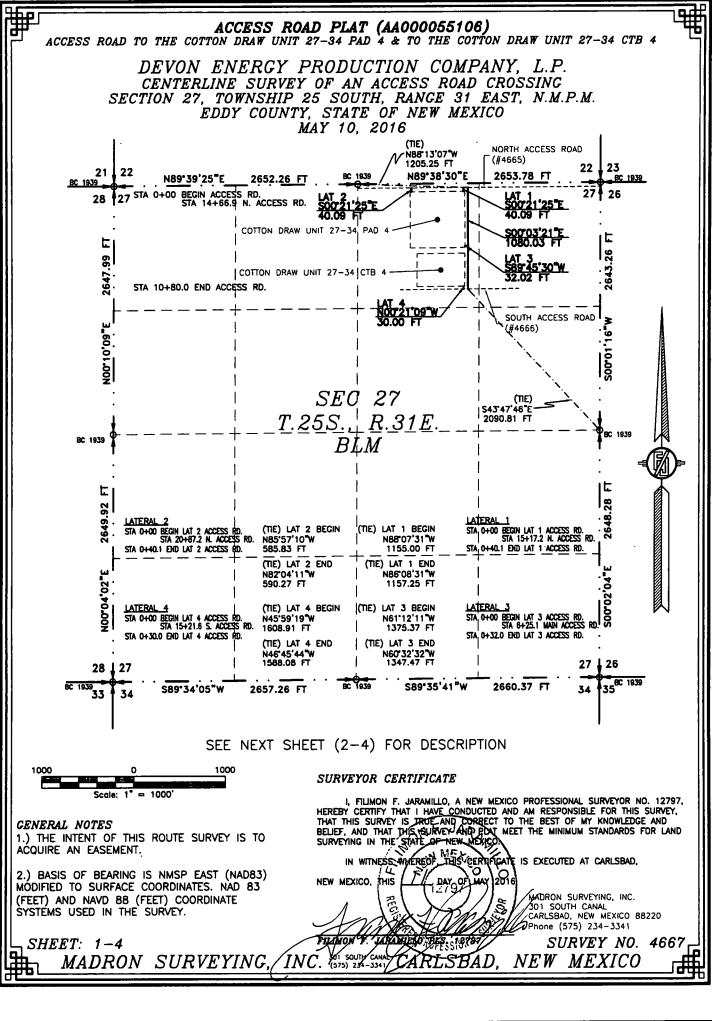
	I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE-CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY,
GENERAL NOTES	THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND
1.) THE INTENT OF THIS ROUTE SURVEY IS TO	BELIEF, AND THAT THIS SURVE TAND, FLAT MEET THE MINIMUM STANDARDS FOR LAND
	SURVEYING IN PHENSTARE OF NEW MEXICO.
ACQUIRE AN EASEMENT.	A MSK / S
	IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD.
2.) BASIS OF BEARING IS NMSP EAST (NAD83)	when when and the same and sale
MÓDIFIED TO SURFACE COORDINATES. NAD 83	NEW MEXICO, THIS
(FEET) AND NAVD 88 (FEET) COORDINATE	ADRON SURVEYING, INC. 301 SOUTH CANAL CARL SOUTH CANAL
SYSTEMS USED IN THE SURVEY.	301 SOUTH CANAL
SISIEMS USED IN THE SOLVET.	CARESDAD, NEW MEAICO BBZZO
	Phone (575) 234-3341
_ <i>SHEET: 2–6</i>	FUMON N. JARAMILIO AND SURVEY NO. 4665
MADRON SURVEYING,	INC. 35 SOUTH CAPITS BAD, NEW MEXICO



ACCESS ROAD PLAT (AA000055110) NORTH ACCESS ROAD TO THE COTTON DRAW UNIT 27-34 PAD 3 DEVON ENERGY PRODUCTION COMPANY. L.P. CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO MAY 10, 2016 DESCRIPTION A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 27, TOWNSHIP 25 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: NORTH ACCESS ROAD BEGINNING AT A POINT WITHIN THE NE/4 NE/4 OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTHEAST CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS NOO'01'16"E, A DISTANCE OF 45.00 FEET: THENCE S89'38'30"W A DISTANCE OF 2653.49 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S89'39'25"W A DISTANCE OF 1385.67 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE SOO'09'43 W A DISTANCE OF 624.66 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED: THENCE S89'50'17"E A DISTANCE OF 45.00 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N63'11'06"W, A DISTANCE OF 1467.94 FEET; SAID STRIP OF LAND BEING 4708.82 FEET OR 285.38 RODS IN LENGTH, CONTAINING 3.243 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS: NE/4 NE/4 1326.91 L.F. 80.42 RODS 0.914 ACRES NW/4 NE/4 1326.91 L.F. 80.42 RODS 0.914 ACRES NE/4 NW/4 1326.17 L.F. 80.37 RODS 0.913 ACRES NW/4 NW/4 728.83 L.F. 44.17 RODS 0.502 ACRES LATERAL 1 ACCESS ROAD BEGINNING AT A POINT WITHIN THE NE/4 NW/4 OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N86"15'00"E, A DISTANCE OF 757.26 FEET; THENCE SOC 20'41"E A DISTANCE OF 39.96 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N83'14'38'E, A DISTANCE OF 760.68 FEET; SAID STRIP OF LAND BEING 39.96 FEET OR 2.42 RODS IN LENGTH, CONTAINING 0.028 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS: NE/4 NW/4 39.96 L.F. 2.42 RODS 0.028 ACRES LATERAL 2 ACCESS ROAD BEGINNING AT A POINT WITHIN THE NE/4 NW/4 OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N88'24'00 W, A DISTANCE OF 1327.01 FEET; THENCE SOO'21'04"E A DISTANCE OF 40.04 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N86'40'28"W, A DISTANCE OF 1328.98 FEET; SAID STRIP OF LAND BEING 40.04 FEET OR 2.43 RODS IN LENGTH, CONTAINING 0.028 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS: NE/4 NW/4 40.04 L.F. 2.43 RODS 0.028 ACRES 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 GENERAL NOTES 1.) THE INTENT OF THIS ROUTE SURVEY IS TO SURVEYING IN THE STATE OF NEW MEXICO. ACQUIRE AN EASEMENT. IN WITNESS WHEREOF, THIS GERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS DAY OF TAX 2016 2.) BASIS OF BEARING IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 MADRON SURVEYING, INC. (FEET) AND NAVD 88 (FEET) COORDINATE 301 SOUTH CANAL SYSTEMS USED IN THE SURVEY. CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341 SHEET: 4-6 SURVEY NO. 4665 aNAL SOUTH INC. (575) 234 6 NEW MEXICO MADRON SURVEYING, Æ







ACCESS ROAD PLAT (AA000055106) ACCESS ROAD TO THE COTTON DRAW UNIT 27-34 PAD 4 & TO THE COTTON DRAW UNIT 27-34 CTB 4

DEVON ENERGY PRODUCTION COMPANY. L.P. CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 27, TOWNSHIP 25 SOUTH, RANCE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO MAY 10. 2016

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

MAIN ACCESS ROAD

BEGINNING AT A POINT WITHIN THE NW/4 NE/4 OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N88'13'07 W. A DISTANCE OF 1205.25 FEET;

THENCE SOO'03'21"E A DISTANCE OF 1080.03 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE EAST QUARTER CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS S43'47'46"E, A DISTANCE OF 2090.81 FEET;

SAID STRIP OF LAND BEING 1080.03 FEET OR 65.46 RODS IN LENGTH, CONTAINING 0.744 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NE/4 1080.03 L.F. 65.46 RODS 0.744 ACRES

LATERAL 1 ACCESS ROAD

BEGINNING AT A POINT WITHIN THE NW/4 NE/4 OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N88'07'31"W, A DISTANCE OF 1155.00 FEET; THENCE SOO'21'25"E A DISTANCE OF 40.09 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N86'08'31 W. A DISTANCE OF 1157.25 FEET:

SAID STRIP OF LAND BEING 40.09 FEET OR 2.43 RODS IN LENGTH. CONTAINING 0.028 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NE/4 40.09 LF. 2.43 RODS 0.028 ACRES

2 ACCESS ROAD LATERAL

BEGINNING AT A POINT WITHIN THE NW/4 NE/4 OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N85'57'10'W, A DISTANCE OF 585.83 FEET; THENCE SOO'21'25'E A DISTANCE OF 40.09 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N82'04'11"W, A DISTANCE OF 590.27 FEET;

SAID STRIP OF LAND BEING 40.09 FEET OR 2.43 RODS IN LENGTH, CONTAINING 0.028 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NE/4 40.09 L.F. 2.43 RODS 0.028 ACRES

LATERAL 3 ACCESS ROAD

BEGINNING AT A POINT WITHIN THE NW/4 NE/4 OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N61'12'11'W, A DISTANCE OF 1375.37 FEET; THENCE S89'45'30"W A DISTANCE OF 32.02 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS NEO'32'32 W, A DISTANCE OF 1347.47 FEET;

SAID STRIP OF LAND BEING 32.02 FEET OR 1.94 RODS IN LENGTH, CONTAINING 0.022 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NE/4 32.02 L.F. 1.94 RODS 0.022 ACRES

LATERAL 4 ACCESS ROAD

BEGINNING AT A POINT WITHIN THE NW/4 NE/4 OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N45'59'19'W. A DISTANCE OF 1608.91 FEET; THENCE NOO'21'09'W A DISTANCE OF 30.00 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N46'45'44"W, A DISTANCE OF 1588.08 FEET;

SAID STRIP OF LAND BEING 30.00 FEET OR 1.82 RODS IN LENGTH, CONTAINING 0.021 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS: SURVEYOR CERTIFICATE

NEW MEXICO, THIS

301 SOUTH CA

DULINON

INC: 301 SOUTH

NW/4 NE/4 30.00 L.F. 1.82 RODS 0.021 ACRES

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 ALL MEXICO. IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD.

MAR

RESBAD

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

NEW MEXICO

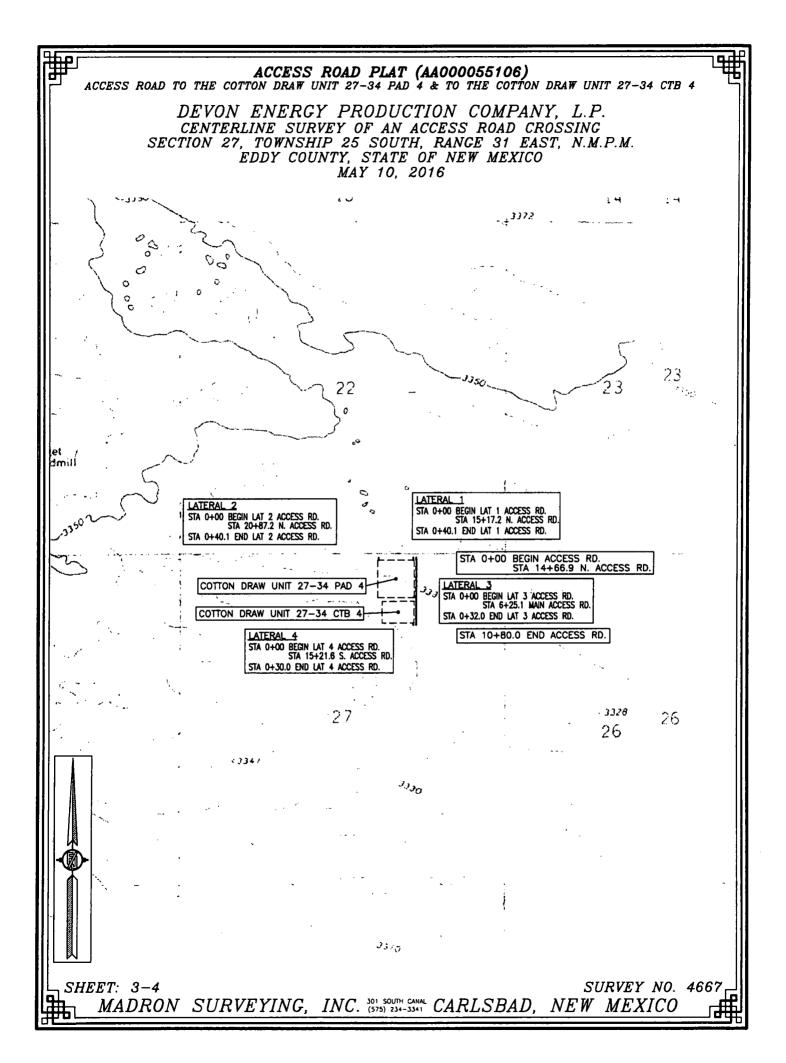
GENERAL NOTES 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

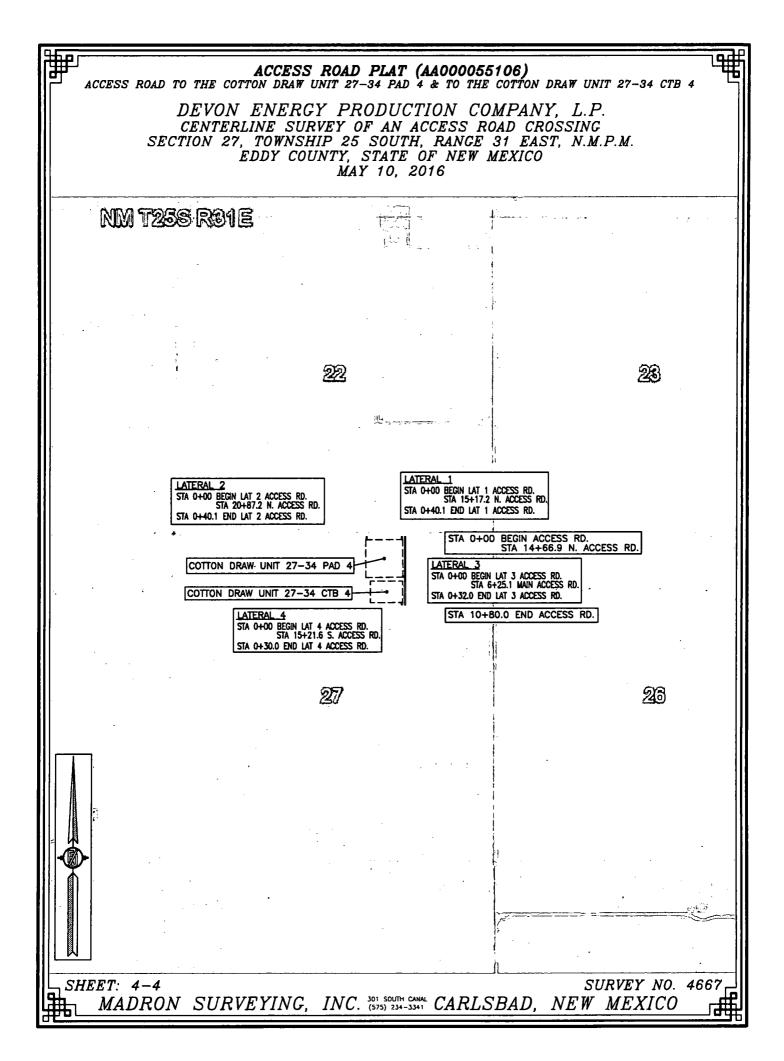
2.) BASIS OF BEARING IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

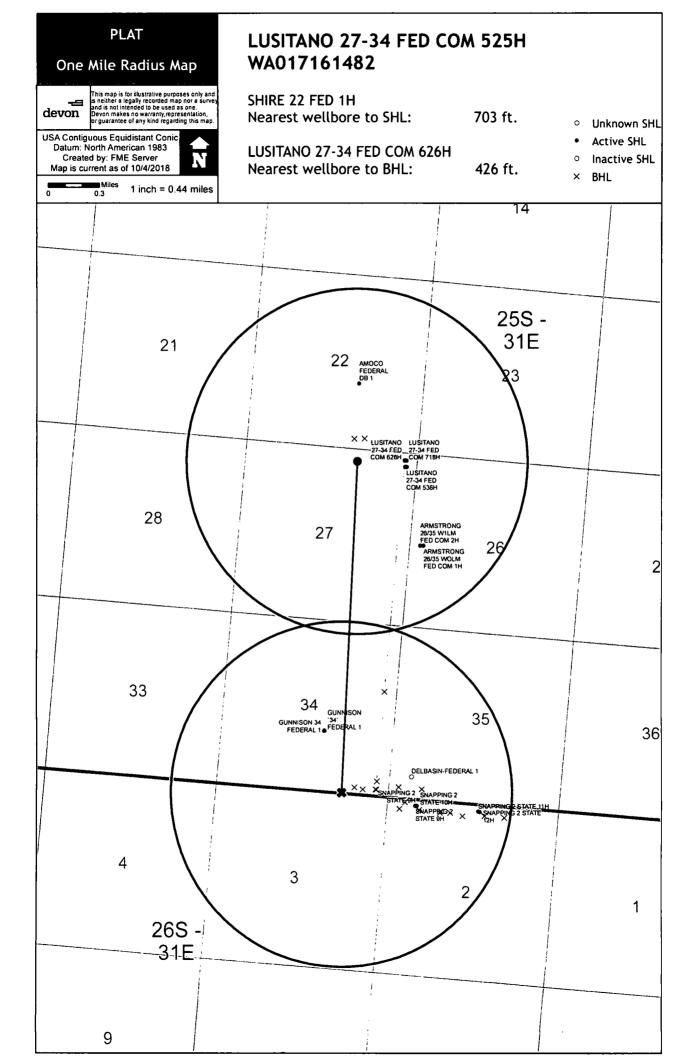
SHEET: 2-4 MADRON SURVEYING,

O SURVEY NO. 4667

2016

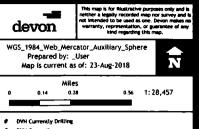




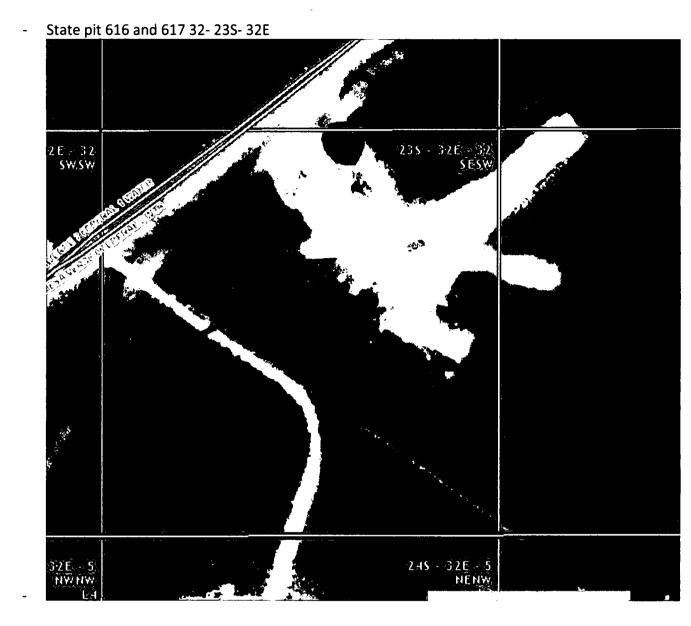


LUSITANO 27-34 FED COM

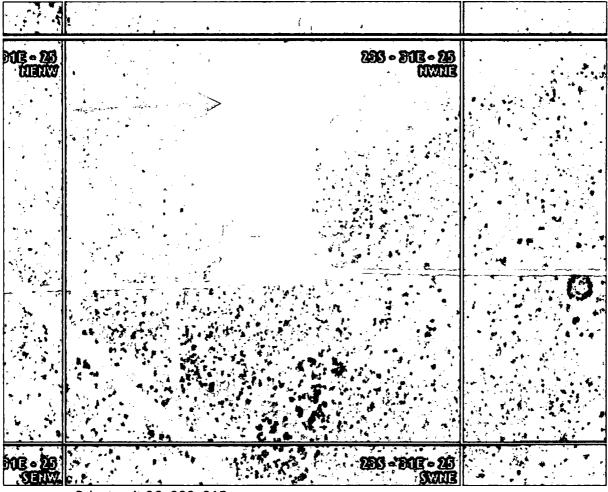
624H/524H/535H/232H/525H



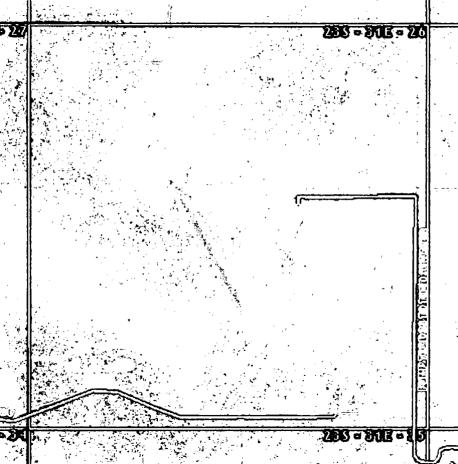
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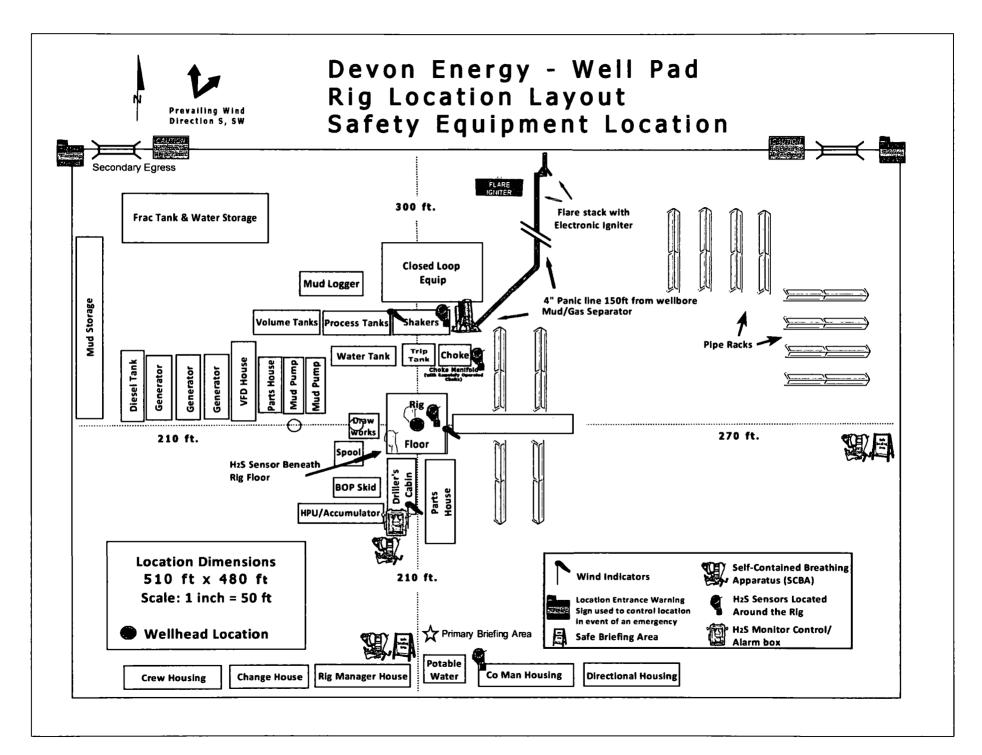


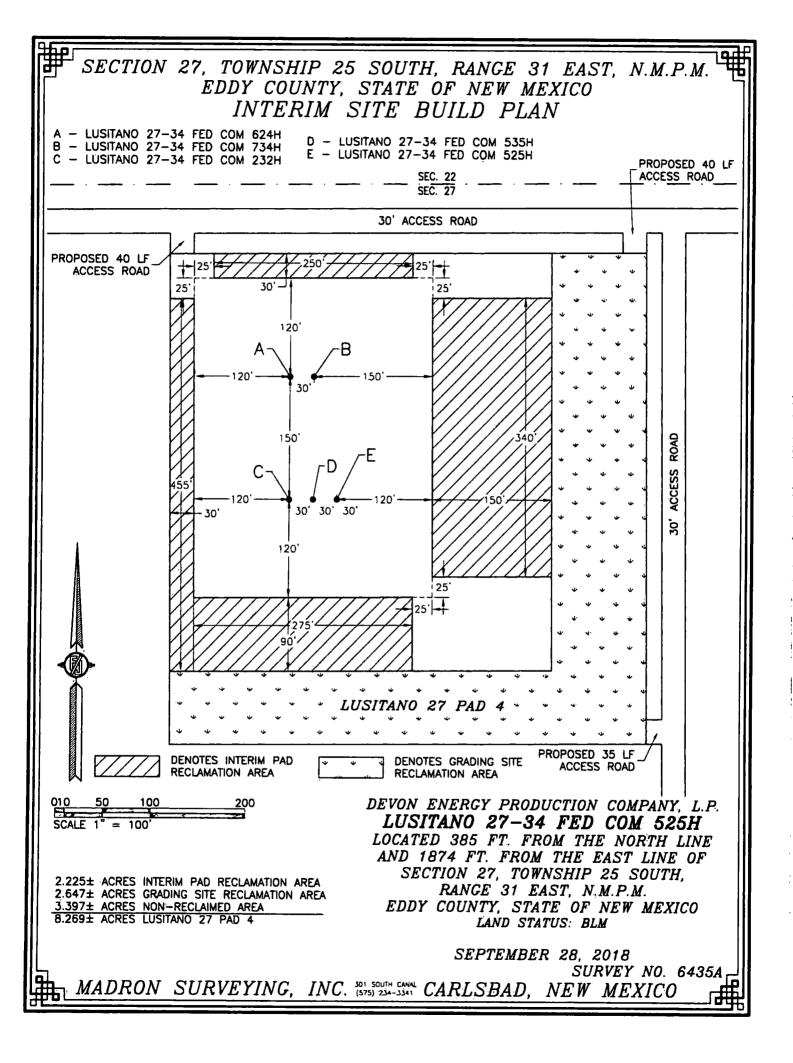
- Fed pit 25- 23S- 31E

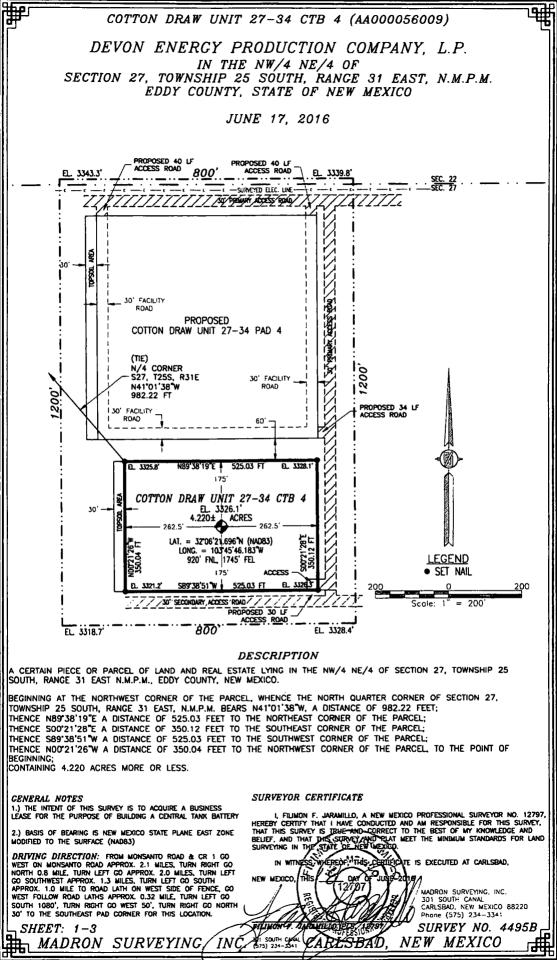


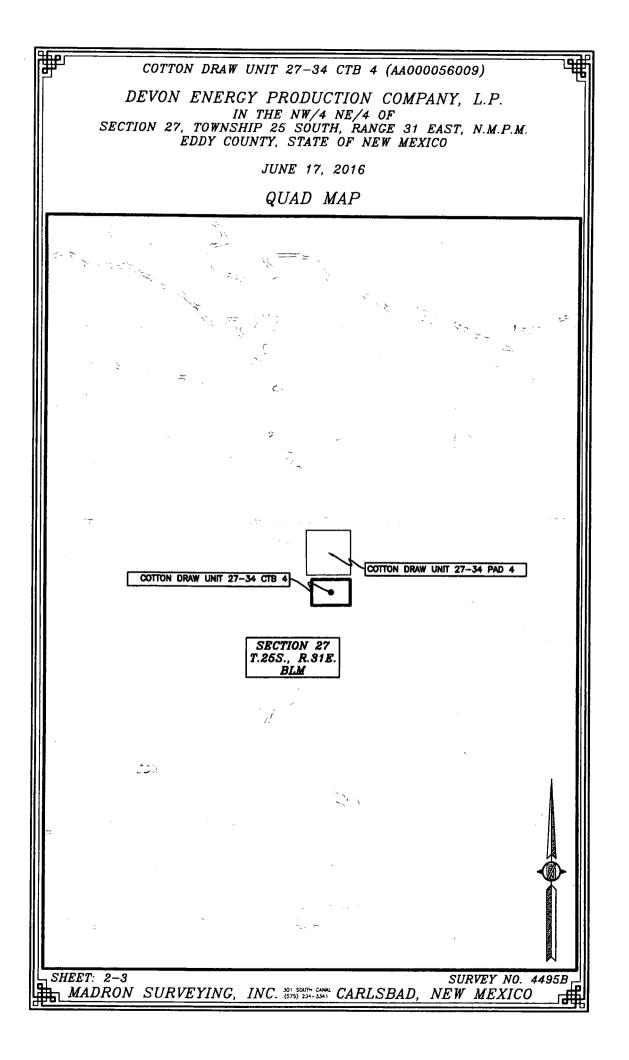
- Private pit 26- 23S- 31E

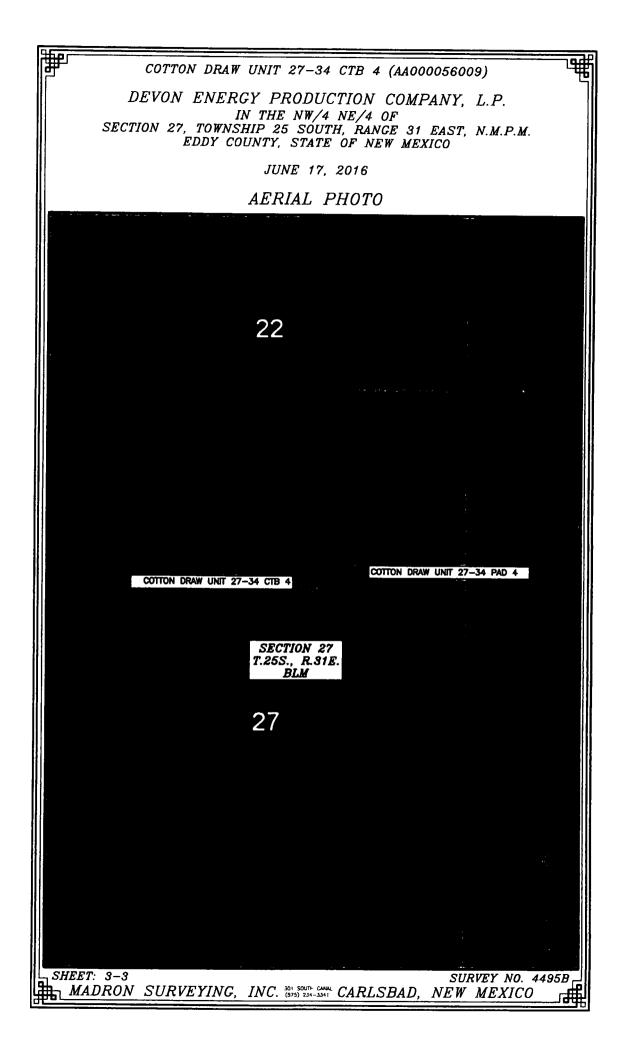


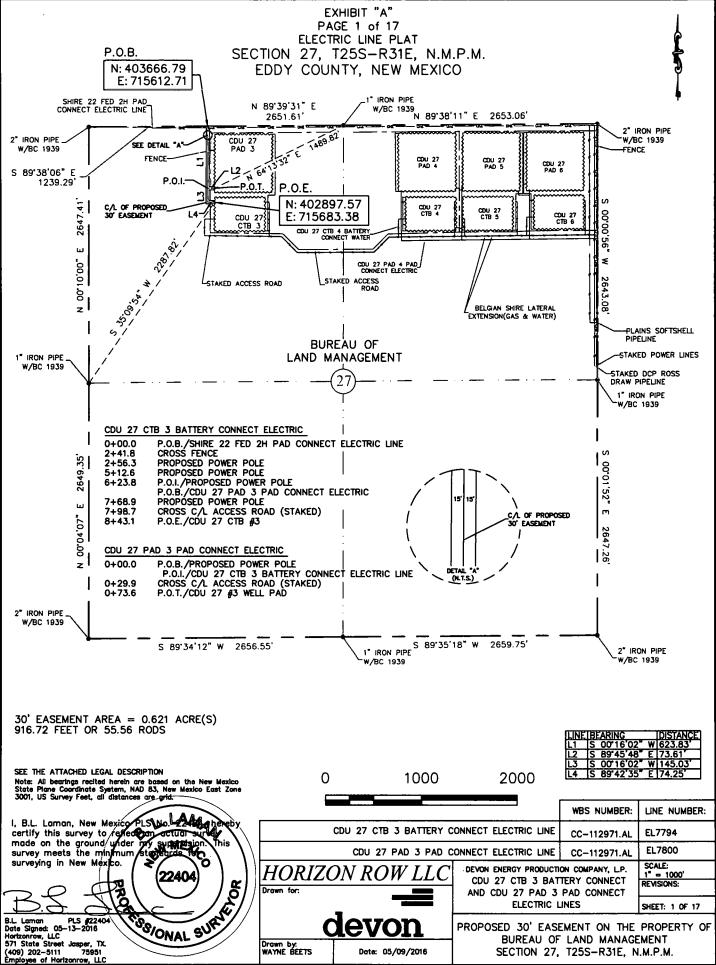












ELECTRIC LINE PLAT

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 the northwest quarter (NW ¼) of Section 27, Township 25 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 2" iron pipe w/ BC 1939 for the northwest corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico;

Thence S 89°38'06" E a distance of 1239.29' to the **Point of Beginning** of this easement having coordinates of Northing=403666.79 feet, Easting=715612.71 feet, and continuing the following courses;

Thence S 00°16'02" W, a distance of 623.83' to the Point of Intersection;

Thence S 89°45'48" E, a distance of 73.61' to the point of termination of this portion of said easement, from said point a 1" iron pipe w/ BC1939 found for the north quarter corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico bears N 64°13'32" E a distance of 1489.82';

Thence continuing from said point of intersection the following courses;

Thence S 00°16'02" W, a distance of 145.03' to an angle point;

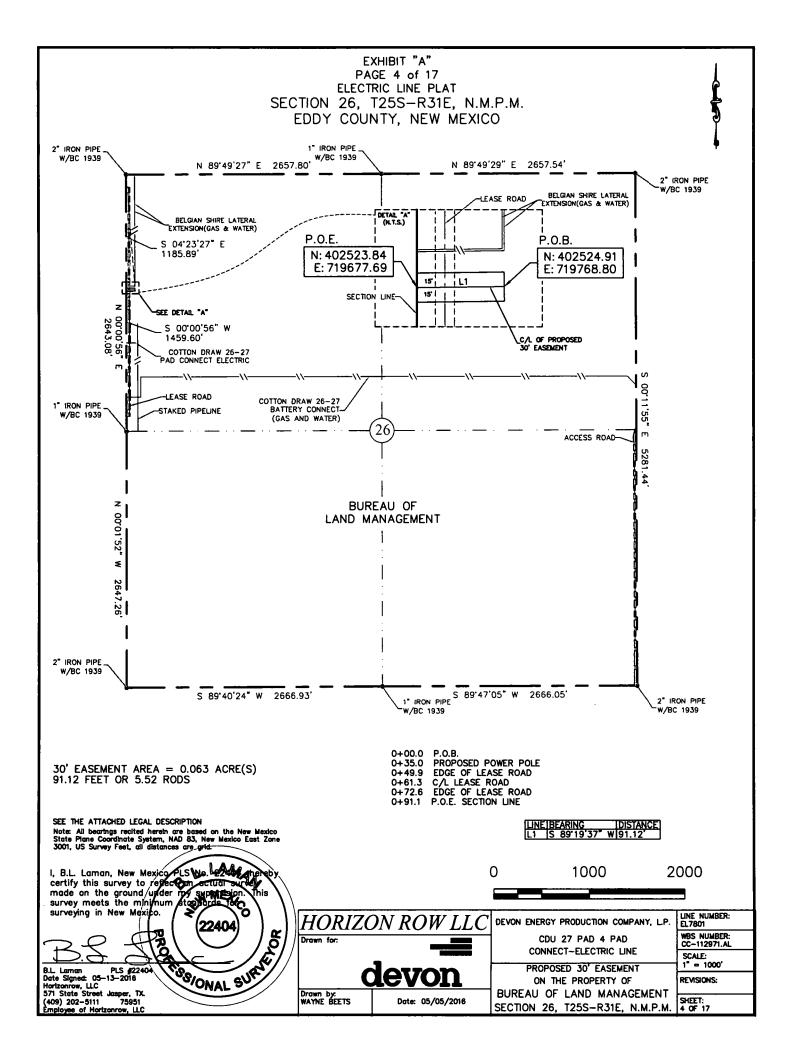
Thence S 89°42'35" E, a distance of 74.25' to the **Point of Ending** having coordinates of Northing=402897.57 feet, Easting=715683.38 feet, from said point a 1" iron pipe w/ BC1939 found for the west quarter corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico bears S 35°09'54" W a distance of 2287.82', covering **916.72' or 55.56 rods** and having an area of **0.621 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.





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 the northwest quarter (NW ¼) of Section 26, Township 25 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 2" iron pipe w/ BC 1939 for the northwest corner of Section 26, T25S-R31E, N.M.P.M., Eddy County, New Mexico;

Thence S 04°23'27" E a distance of 1185.89' to the **Point of Beginning** of this easement having coordinates of Northing=402524.91 feet, Easting=719768.80 feet, and continuing the following course;

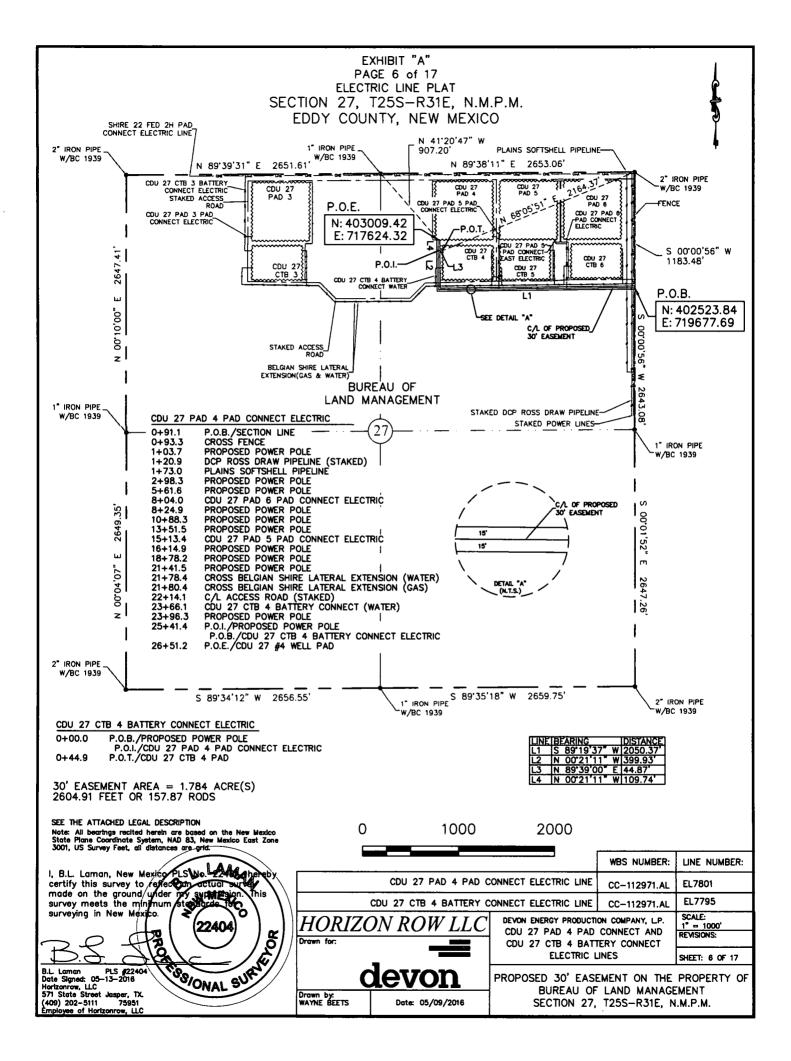
Thence S 89°19'37" W, a distance of 91.12' to the **Point of Ending** having coordinates of Northing=402523.84 feet, Easting=719677.69 feet, being in the west line of Section 26, T25S-R31E, from said point a 1" iron pipe w/ BC1939 found for the west quarter corner of Section 26, T25S-R31E, N.M.P.M., Eddy County, New Mexico bears S 00°00'56" W a distance of 1459.60', covering **91.12' or 5.52 rods** and having an area of **0.063 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.





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 the northeast quarter (NE ¼) of Section 27, Township 25 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 2" iron pipe w/ BC 1939 for the northeast corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico;

Thence S 00°00'56" W a distance of 1183.48' to the **Point of Beginning** of this easement having coordinates of Northing=402523.84 feet, Easting=719677.69 feet, and continuing the following courses;

Thence S 89°19'37" W, a distance of 2050.37' to an angle point;

Thence N 00°21'11" W, a distance of 399.93' to the Point of Intersection;

Thence N 89°39'00" E, a distance of 44.87' to the point of termination of this portion of said easement, from said point a 2" iron pipe w/ BC1939 found for the northeast corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico bears N 68°05'51" E a distance of 2164.37';

Thence continuing from said point of intersection the following courses;

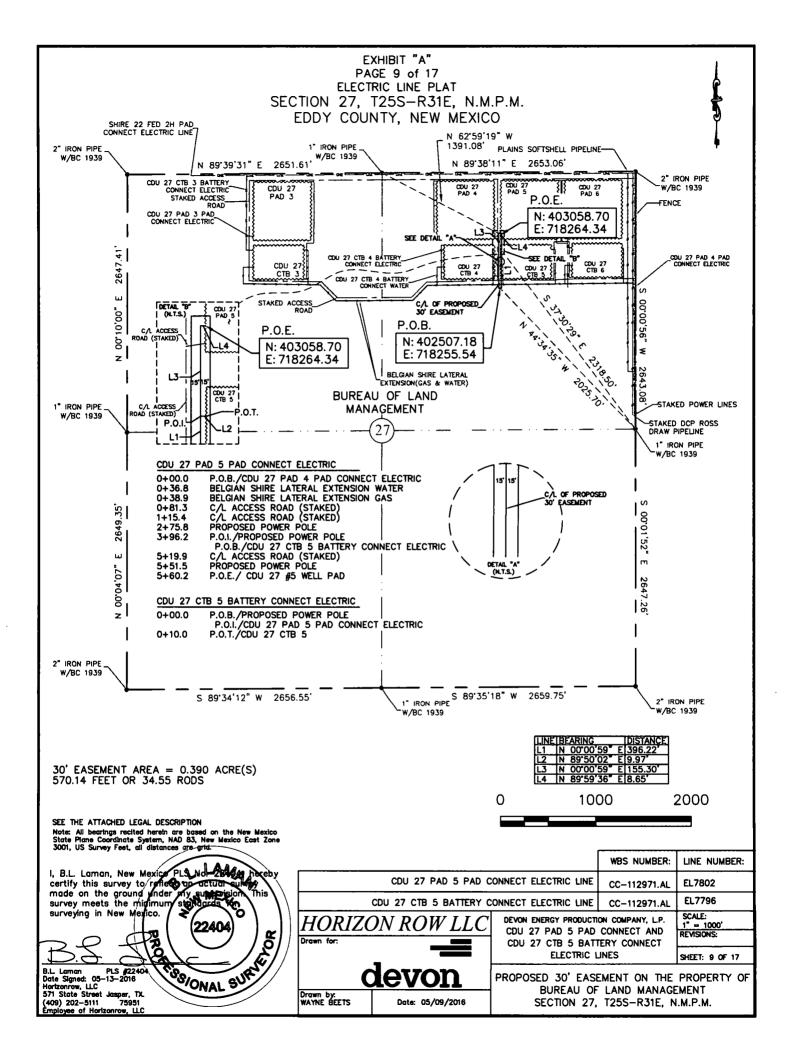
Thence N 00°21'11" W, a distance of 109.74' to the **Point of Ending** having coordinates of Northing=403009.42 feet, Easting=717624.32 feet, from said point a 1" iron pipe w/ BC1939 found for the north quarter corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico bears N 41°20'47" W a distance of 907.20', covering **2604.91' or 157.87 rods** and having an area of **1.784 acres**.

NOTES:

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





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 the northeast quarter (NE ¼) of Section 27, Township 25 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 1939 for the east quarter corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico;

Thence N 44°34'35" W a distance of 2025.70' to the **Point of Beginning** of this easement having coordinates of Northing=402507.18 feet, Easting=718255.54 feet, and continuing the following courses;

Thence N 00°00'59" E, a distance of 396.22' to the Point of Intersection;

Thence N 89°50'02" E, a distance of 9.97' to the point of termination of this portion of said easement, from said point a 1" iron pipe w/ BC1939 found for the east quarter corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico bears S 37°30'29" E a distance of 2318.50';

Thence continuing from said point of intersection the following courses;

Thence N 00°00'59" E, a distance of 155.30' to an angle point;

Thence N 89°59'36" E, a distance of 8.65' to the **Point of Ending** having coordinates of Northing=403058.70 feet, Easting=718264.34 feet, from said point a 1" iron pipe w/ BC1939 found for the north quarter corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico bears N 62°59'19" W a distance of 1391.08', covering **570.14' or 34.55 rods** and having an area of **0.390 acres**.

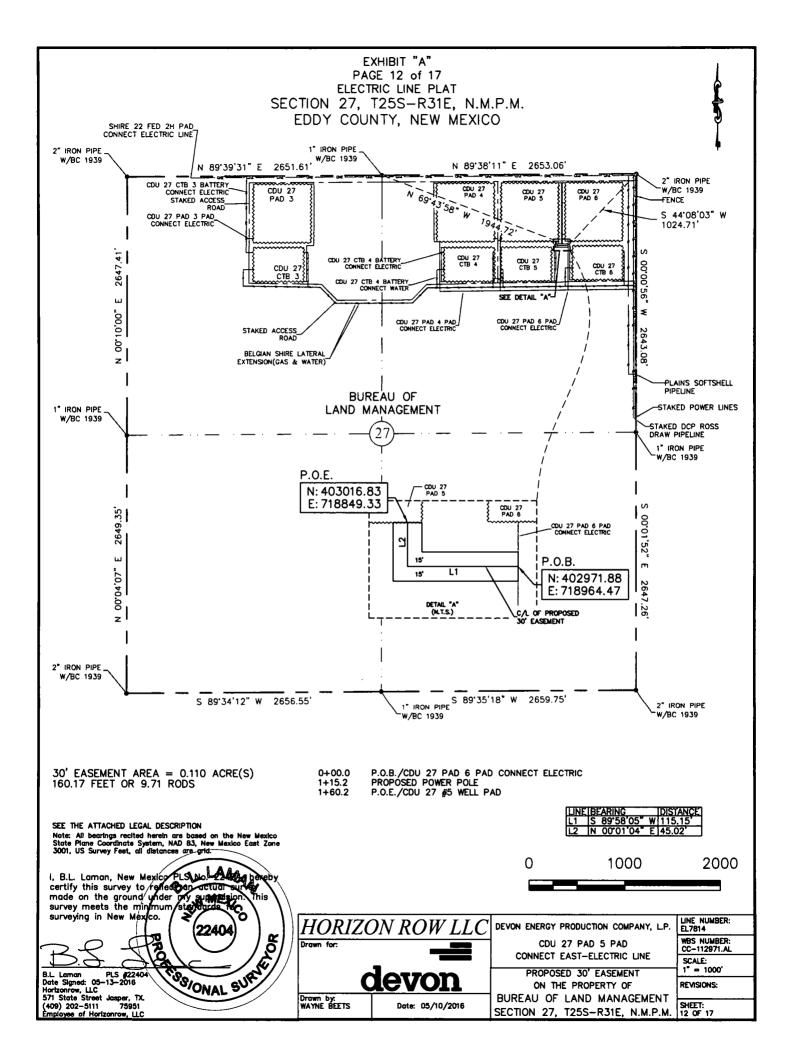
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I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

B.L. Laman PLS 22404 Date Signed: 05/13/2016 Horizon Row, LLC 571 State Street, Jasper, TX (402) 202-5111 75951 Employee of Horizon Row, LLC





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 the northeast quarter (NE ¼) of Section 27, Township 25 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 2" iron pipe w/ BC 1939 for the northeast corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico;

Thence S 44°08'03" W a distance of 1024.71' to the **Point of Beginning** of this easement having coordinates of Northing=402971.88 feet, Easting=718964.47 feet, and continuing the following courses;

Thence S 89°58'05" W, a distance of 115.15' to an angle point;

Thence N 00°01'04" E, a distance of 45.02' to the **Point of Ending** having coordinates of Northing=403016.83 feet, Easting=718849.33 feet, from said point a 1" iron pipe w/ BC1939 found for the north quarter corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico bears N 69°43'58" W a distance of 1944.72', covering **160.17' or 9.71 rods** and having an area of **0.110 acres**.

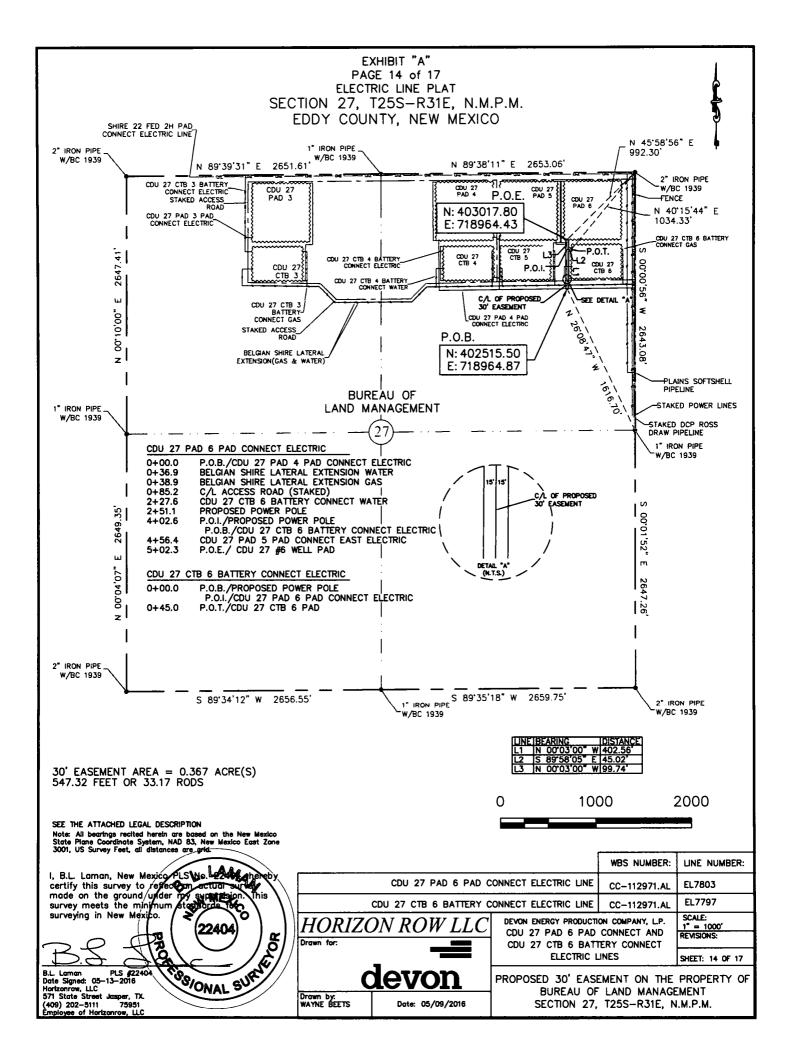
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I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

B.L. Laman PLS 22404 Date Signed: 05/13/2016 Horizon Row, LLC 571 State Street, Jasper, TX (402) 202-5111 75951 Employee of Horizon Row, LLC





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 the northeast quarter (NE ¼) of Section 27, Township 25 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 1939 for the east quarter corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico;

Thence N 26°08'47" W a distance of 1616.70' to the **Point of Beginning** of this easement having coordinates of Northing=402515.50 feet, Easting=718964.87 feet, and continuing the following courses;

Thence N 00°03'00" W, a distance of 402.56' to the Point of Intersection;

Thence S 89°58'05" E, a distance of 45.02' to the point of termination of this portion of said easement, from said point a 2" iron pipe w/ BC1939 found for the northeast corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico bears N 40°15'44" E a distance of 1034.33';

Thence continuing from said point of intersection the following course;

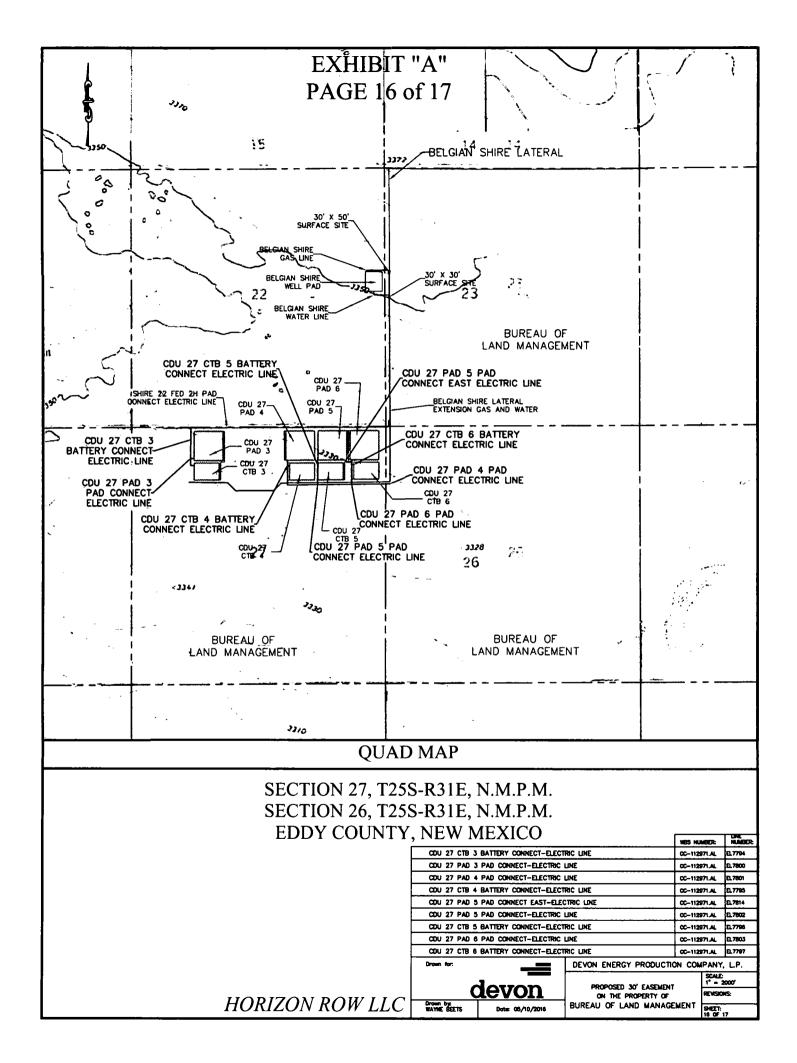
Thence N 00°03'00" W, a distance of 99.74' to the **Point of Ending** having coordinates of Northing=403017.80 feet, Easting=718964.43 feet, from said point a 2" iron pipe w/ BC1939 found for the northeast corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico bears N 45°58'56" E a distance of 992.30', covering **547.32' or 33.17 rods** and having an area of **0.367 acres**.

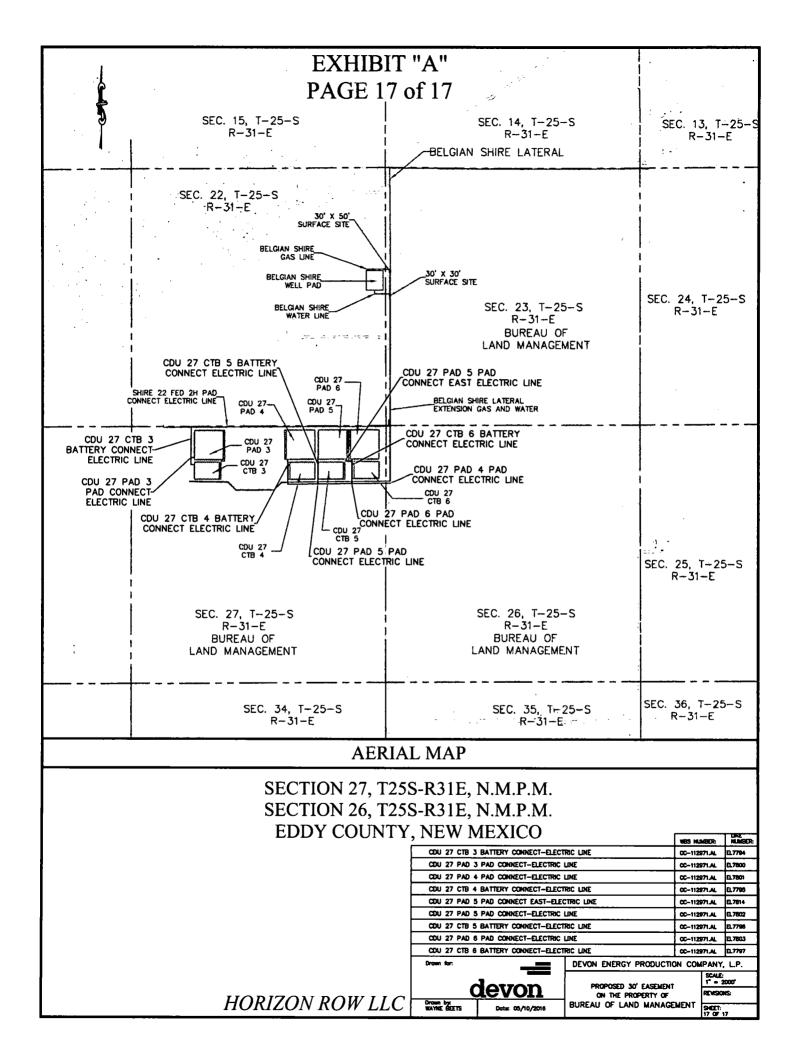
NOTES:

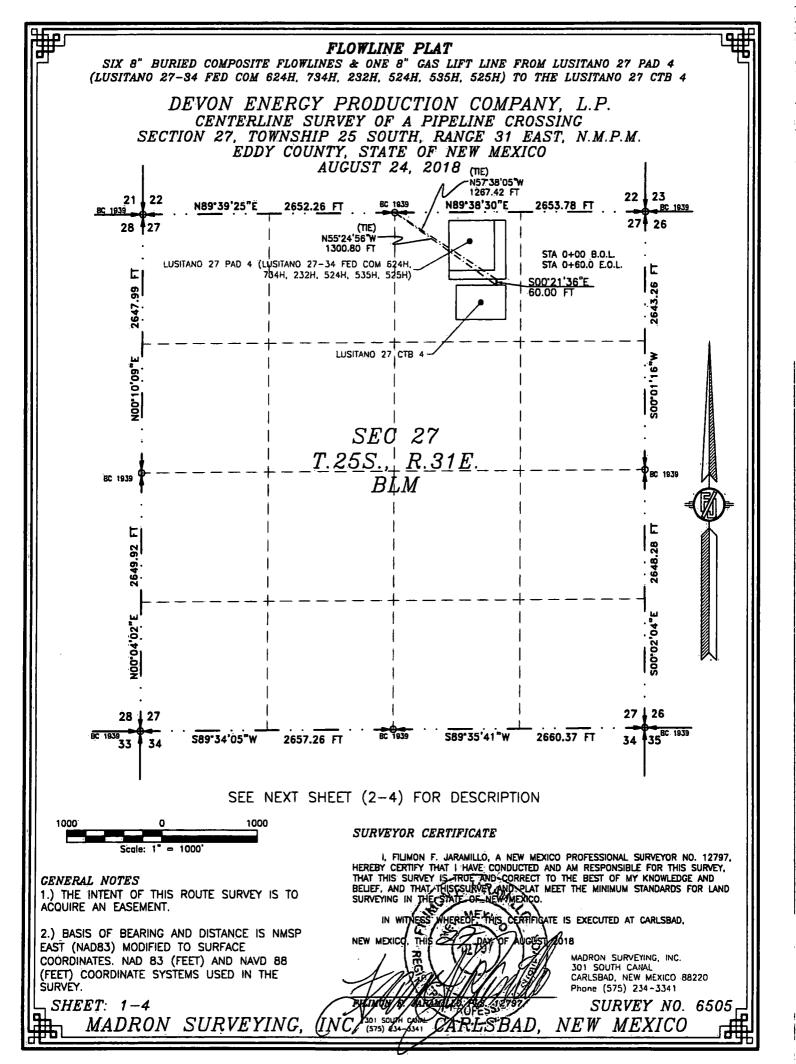
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FLOWLINE PLAT SIX 8" BURIED COMPOSITE FLOWLINES & ONE 8" GAS LIFT LINE FROM LUSITANO 27 PAD 4 (LUSITANO 27-34 FED COM 624H, 734H, 232H, 524H, 535H, 525H) TO THE LUSITANO 27 CTB 4

DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF A PIPELINE CROSSING SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY. STATE OF NEW MEXICO AUGUST 24, 2018

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NW/4 NE/4 OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N57'38'05"W. A DISTANCE OF 1267.42 FEET; THENCE SOO'21'36'E A DISTANCE OF 60.00 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH QUARTER CORNER

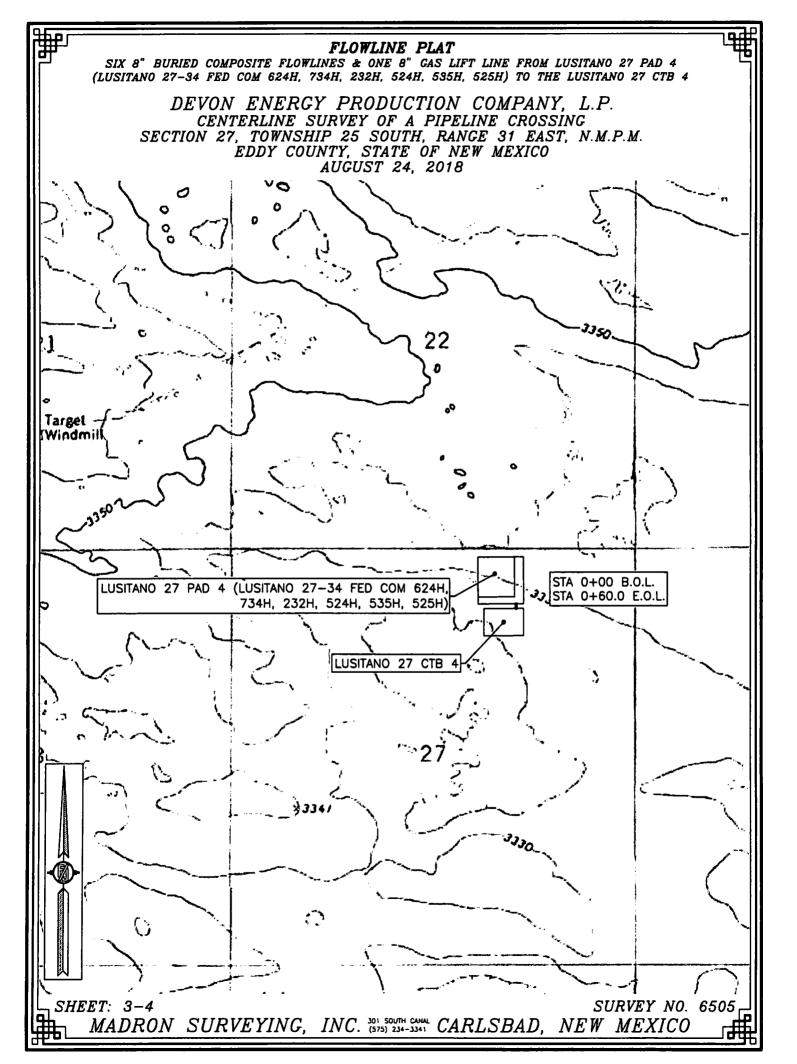
OF SAID SECTION 27, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N55'24'56 W, A DISTANCE OF 1300.80 FEET;

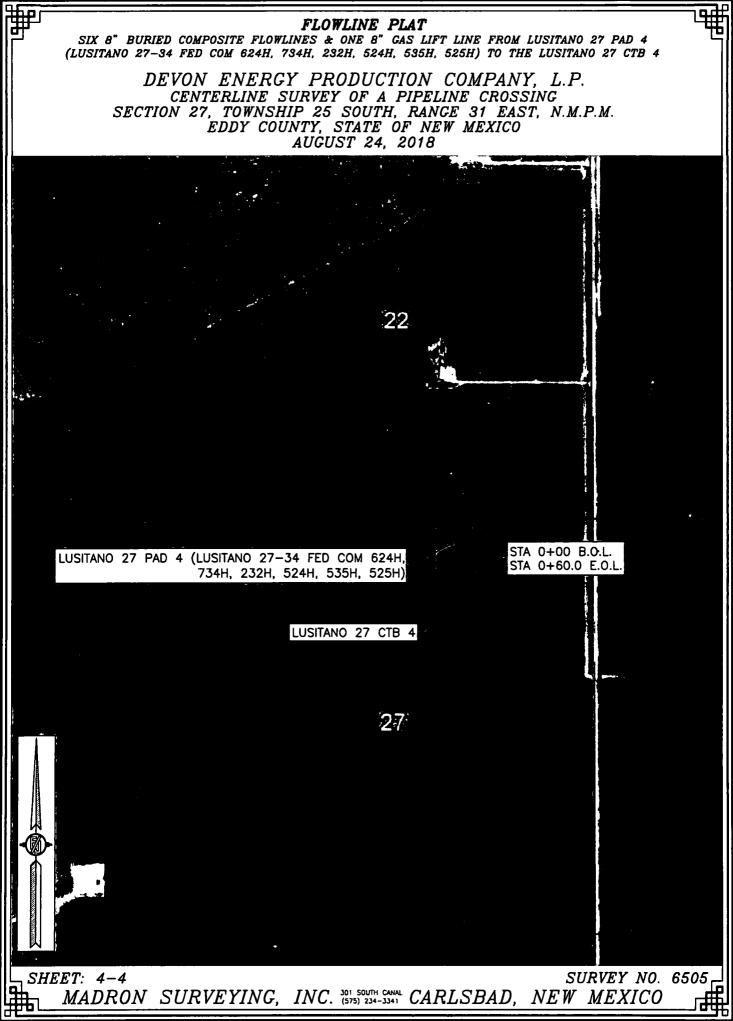
SAID STRIP OF LAND BEING 60.0D FEET OR 3.64 RODS IN LENGTH, CONTAINING 0.041 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

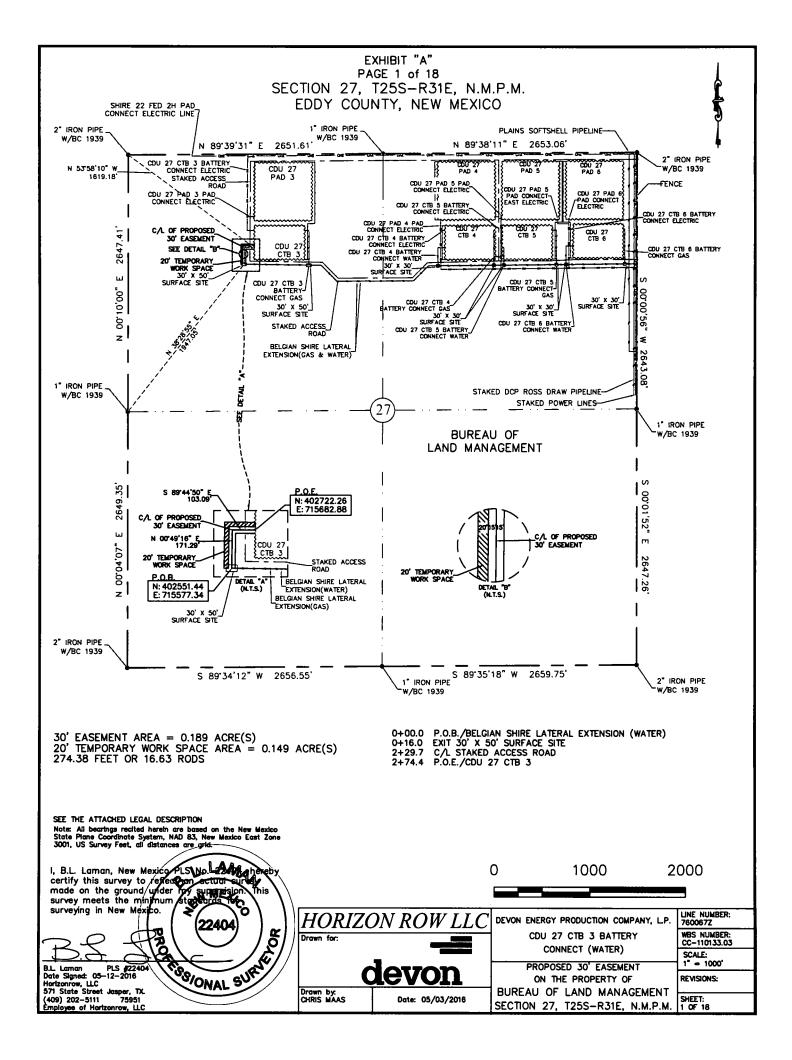
NW/4 NE/4 60.00 L.F. 3.64 RODS 0.041 ACRES

SURVEYOR CERTIFICATE

<i>GENERAL NOTES</i> 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.	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 THAP THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO. IN WITNERS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,
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.	NEW MEXICO THIS DAY OF AUGUST ATB 1279 L C MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341
SHEET: 2-4 MADRON SURVEYING,	INC. (575) 234 5341 CARLSBAD, NEW MEXICO







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 the northwest quarter (NW ¼) of Section 27, Township 25 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/ BC1939 found for the west quarter corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico;

Thence N 38°28'55" E, a distance of 1947.05' to the **Point of Beginning** of this easement having coordinates of Northing=402551.44 feet, Easting=715577.34 feet, being in the northwest quarter (NW ¼) of Section 27, T25S-R31E, and continuing the following courses;

Thence N 00°49'16" E, a distance of 171.29' to an angle point;

Thence S 89°44'50" E, a distance of 103.09' to the **Point of Ending** having coordinates of Northing=402722.26 feet, Easting=715682.88 feet, from said point a 2" iron pipe w/ BC1939 found for the northwest corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico bears N 53°58'10" W a distance of 1619.18', covering **274.38' or 16.63** rods and having an area of **0.189 acres**.

20' TEMPORARY WORK SPACE DESCRIPTION:

Being a temporary work space twenty (20) feet in width lying on the left side and adjoining the left side of the above described thirty (30) feet easement, having a total area of **0.149 acres**.

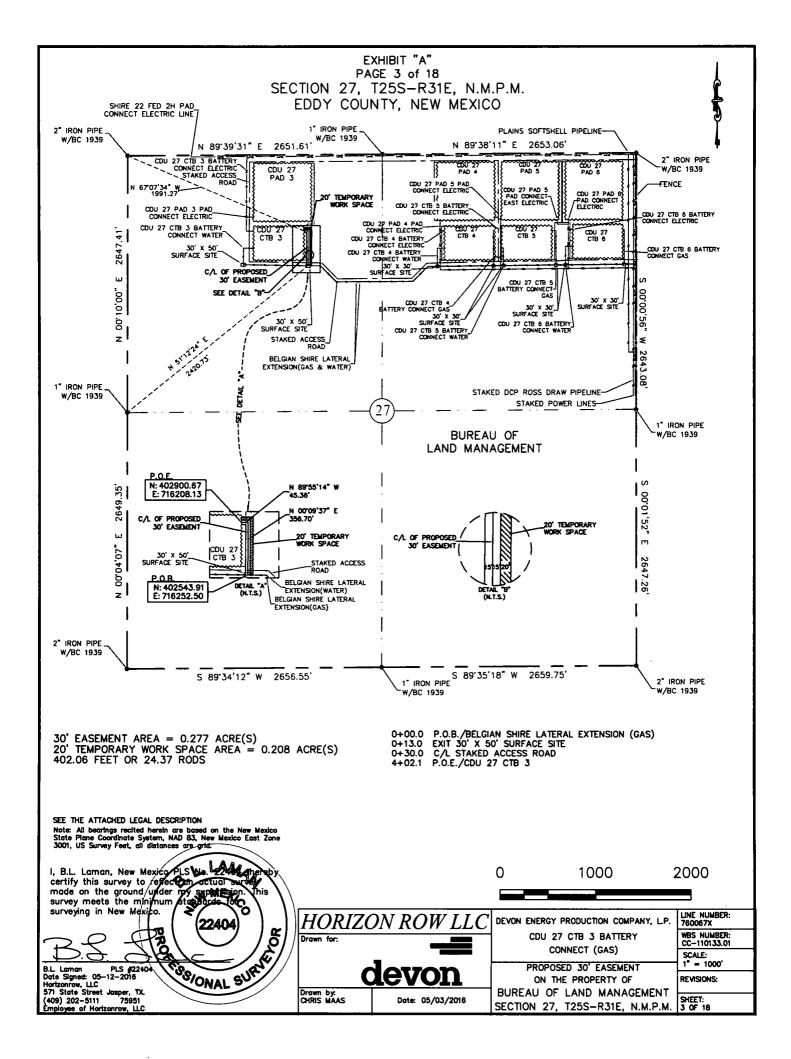
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I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

PLS 22404 B.L. Laman





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 the northwest quarter (NW ¼) of Section 27, Township 25 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/ BC1939 found for the west quarter corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico;

Thence N 51°12'24" E, a distance of 2420.73' to the **Point of Beginning** of this easement having coordinates of Northing=402543.91 feet, Easting=716252.50 feet, being in the northwest quarter (NW ¼) of Section 27, T25S-R31E, and continuing the following courses;

Thence N 00°09'37" E, a distance of 356.70' to an angle point;

Thence N 89°55'14" W, a distance of 45.36' to the **Point of Ending** having coordinates of Northing=402900.67 feet, Easting=716208.13 feet, from said point a 2" iron pipe w/ BC1939 found for the northwest corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico bears N 67°07'34" W a distance of 1991.27', covering **402.06' or 24.37** rods and having an area of **0.277 acres**.

20' TEMPORARY WORK SPACE DESCRIPTION:

Being a temporary work space twenty (20) feet in width lying on the right side and adjoining the right side of the above described thirty (30) feet easement, having a total area of **0.208 acres.**

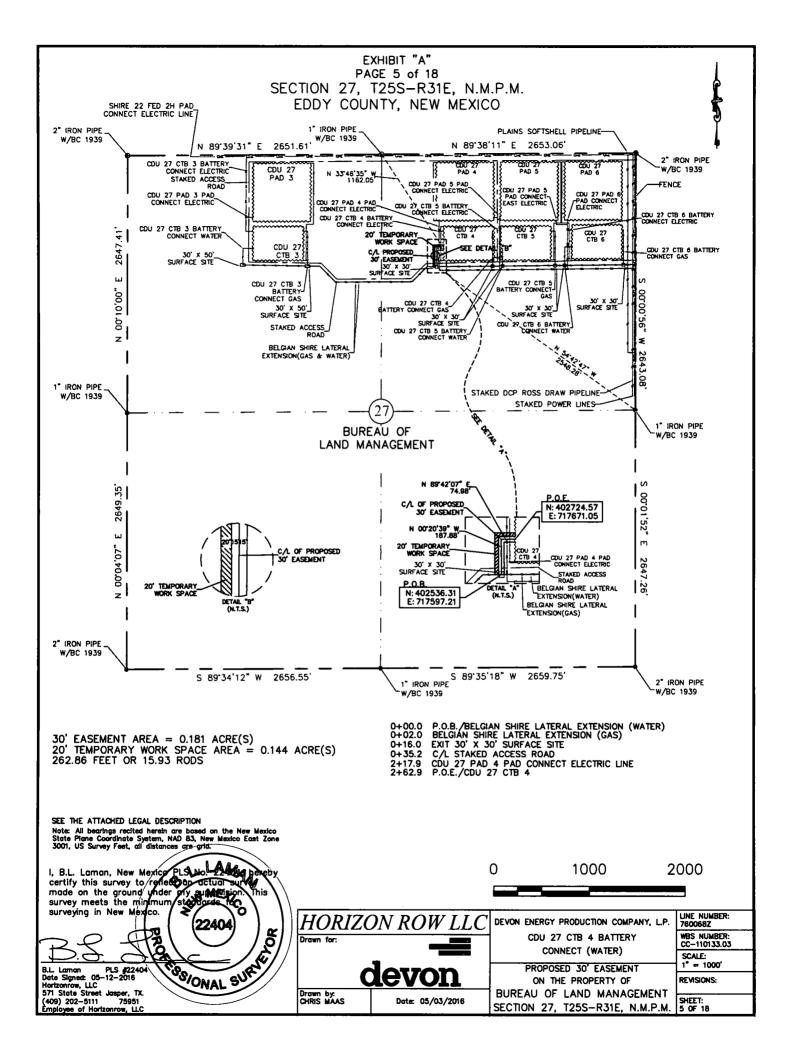
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B.L. Laman PLS 22404





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 the northeast quarter (NE ¼) of Section 27, Township 25 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/ BC1939 found for the east quarter corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico;

Thence N 54°42'47" W, a distance of 2548.28' to the **Point of Beginning** of this easement having coordinates of Northing=402536.31 feet, Easting=717597.21 feet, being in the northeast quarter (NE ¼) of Section 27, T25S-R31E, and continuing the following courses;

Thence N 00°20'39" W, a distance of 187.88' to an angle point;

Thence N 89°42'07" E, a distance of 74.98' to the **Point of Ending** having coordinates of Northing=402724.57 feet, Easting=717671.05 feet, from said point a 1" iron pipe w/ BC1939 found for the north quarter corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico bears N 33°46'35" W a distance of 1162.05', covering **262.86' or 15.93 rods** and having an area of **0.181 acres**.

20' TEMPORARY WORK SPACE DESCRIPTION:

Being a temporary work space twenty (20) feet in width lying on the left side and adjoining the left side of the above described thirty (30) feet easement, having a total area of **0.144 acres**.

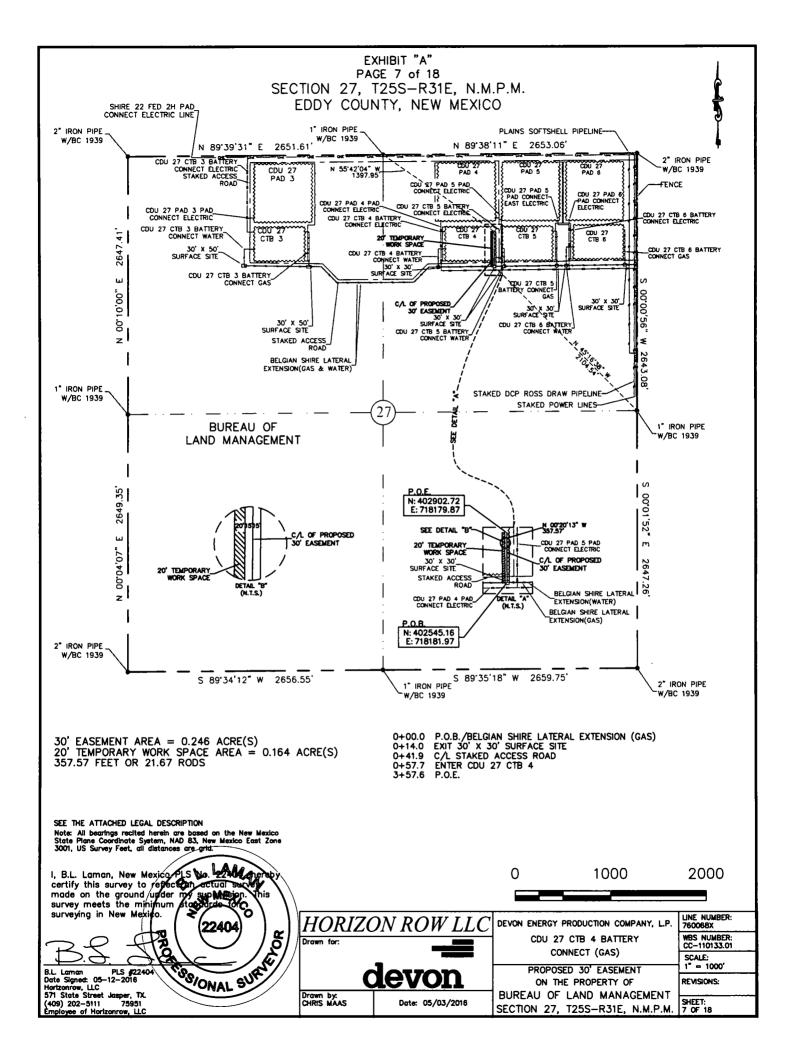
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B.L. Laman PLS 22404





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 the northeast quarter (NE ¼) of Section 27, Township 25 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/ BC1939 found for the east quarter corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico;

Thence N 45°16'38" W, a distance of 2104.54' to the **Point of Beginning** of this easement having coordinates of Northing=402545.16 feet, Easting=718181.97 feet, being in the northeast quarter (NE $\frac{1}{2}$) of Section 27, T25S-R31E, and continuing the following course;

Thence N 00°20'13" W, a distance of 357.57' to the **Point of Ending** having coordinates of Northing=402902.72 feet, Easting=718179.87 feet, from said point a 1" iron pipe w/ BC1939 found for the north quarter corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico bears N 55°42'04" W a distance of 1397.95', covering **357.57' or 21.67 rods** and having an area of **0.246 acres**.

20' TEMPORARY WORK SPACE DESCRIPTION:

Being a temporary work space twenty (20) feet in width lying on the left side and adjoining the left side of the above described thirty (30) feet easement, having a total area of **0.164 acres**.

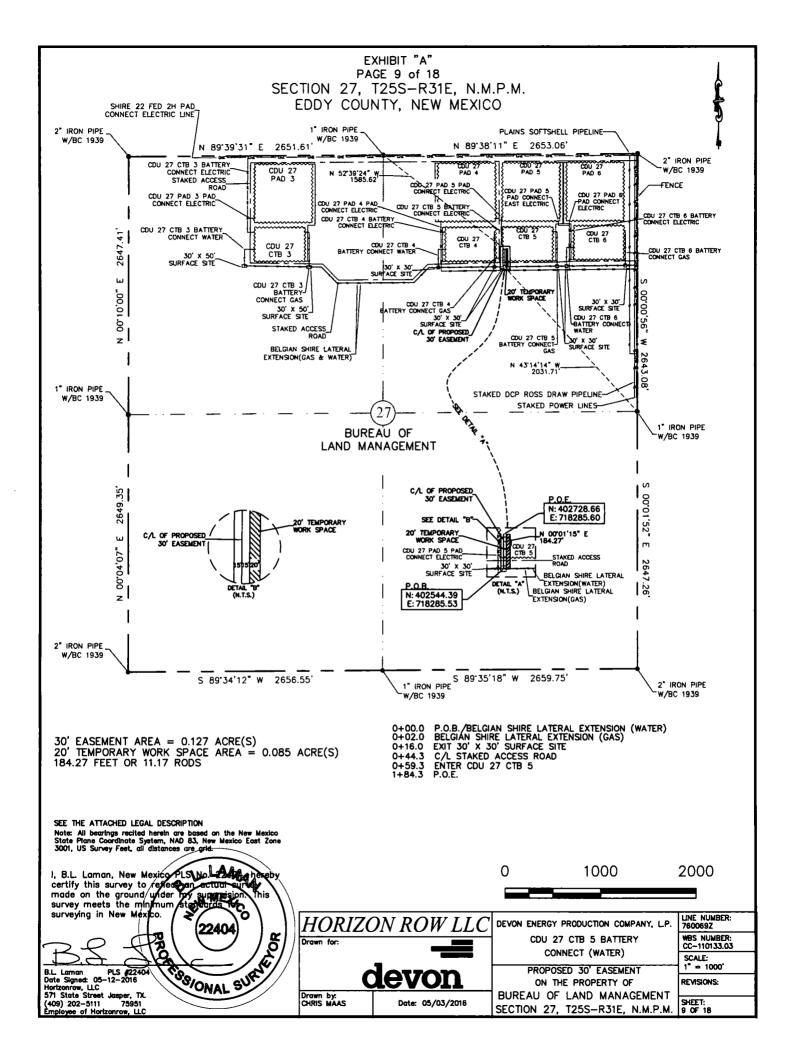
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PLS 22404 B.L. Laman





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 the northeast quarter (NE ¼) of Section 27, Township 25 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/ BC1939 found for the east quarter corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico;

Thence N 43°14'14" W, a distance of 2031.71' to the **Point of Beginning** of this easement having coordinates of Northing=402544.39 feet, Easting=718285.53 feet, being in the northeast quarter (NE ¼) of Section 27, T25S-R31E, and continuing the following courses;

Thence N 00°01'15" E, a distance of 184.27' to the **Point of Ending** having coordinates of Northing=402728.66 feet, Easting=718285.60 feet, from said point a 1" iron pipe w/ BC1939 found for the north quarter corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico bears N 52°39'24" W a distance of 1585.62', covering **184.27' or 11.17 rods** and having an area of **0.127 acres**.

20' TEMPORARY WORK SPACE DESCRIPTION:

Being a temporary work space twenty (20) feet in width lying on the right side and adjoining the right side of the above described thirty (30) feet easement, having a total area of **0.085 acres.**

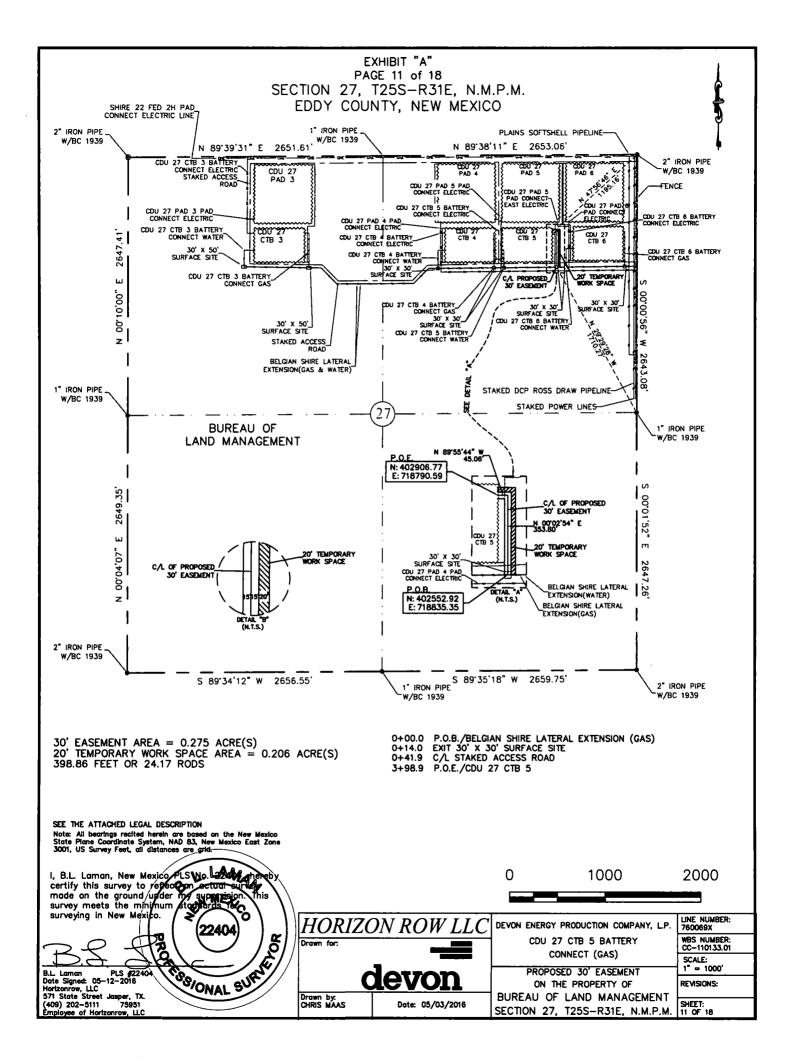
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B.L. Laman PLS 22404





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 the northeast quarter (NE ¼) of Section 27, Township 25 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/ BC1939 found for the east quarter corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico;

Thence N 29°29'28" W, a distance of 1710.27' to the **Point of Beginning** of this easement having coordinates of Northing=402552.92 feet, Easting=718835.35 feet, being in the northeast quarter (NE ¼) of Section 27, T25S-R31E, and continuing the following courses;

Thence N 00°02'54" E, a distance of 353.80' to an angle point;

Thence N 89°55'44" W, a distance of 45.06' to the **Point of Ending** having coordinates of Northing=402906.77 feet, Easting=718790.59 feet, from said point a 2" iron pipe w/ BC1939 found for the northeast corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico bears N 47°56'46" E a distance of 1195.16', covering **398.86' or 24.17** rods and having an area of **0.275 acres**.

20' TEMPORARY WORK SPACE DESCRIPTION:

Being a temporary work space twenty (20) feet in width lying on the right side and adjoining the right side of the above described thirty (30) feet easement, having a total area of **0.206 acres**.

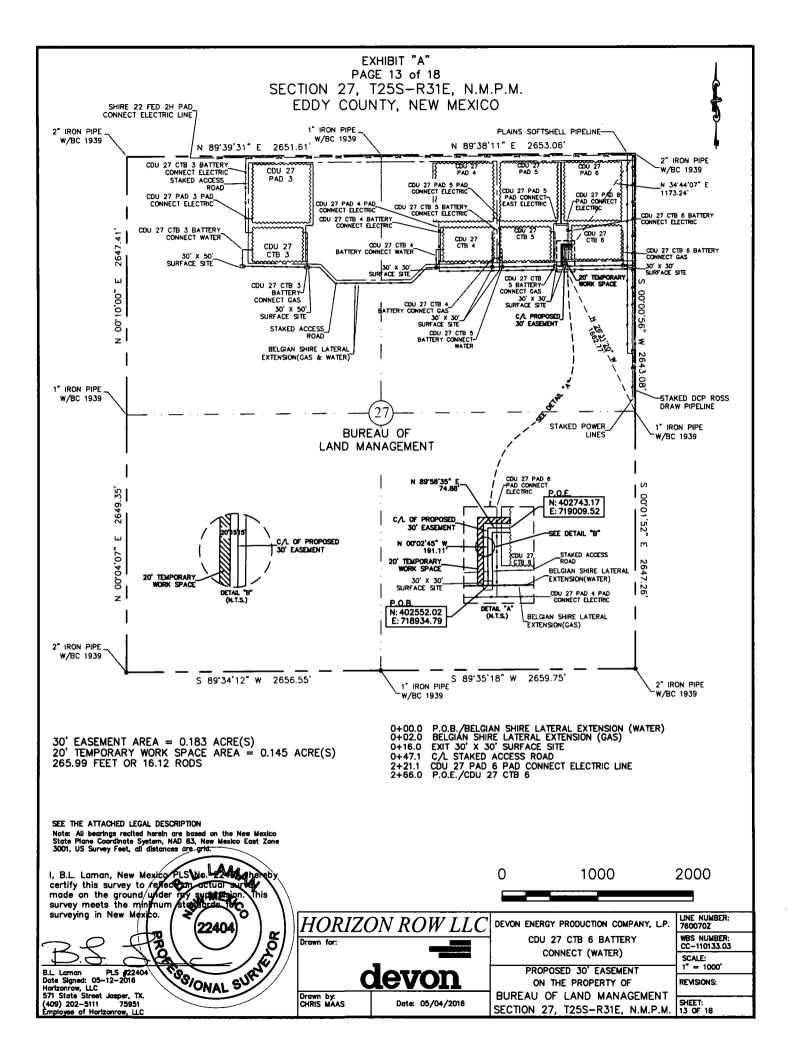
NOTES:

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.

_C B.L. Laman PLS 22404





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 the northeast quarter (NE ¼) of Section 27, Township 25 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/ BC1939 found for the east quarter corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico;

Thence N 26°31'20" W, a distance of 1662.77' to the **Point of Beginning** of this easement having coordinates of Northing=402552.02 feet, Easting=718934.79 feet, being in the northeast quarter (NE ¼) of Section 27, T25S-R31E, and continuing the following courses;

Thence N 00°02'45" W, a distance of 191.11' to an angle point;

Thence N 89°58'35" E, a distance of 74.88' to the **Point of Ending** having coordinates of Northing=402743.17 feet, Easting=719009.52 feet, from said point a 2" iron pipe w/ BC1939 found for the northeast corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico bears N 34°44'07" E a distance of 1173.24', covering **265.99' or 16.12** rods and having an area of **0.183 acres**.

20' TEMPORARY WORK SPACE DESCRIPTION:

Being a temporary work space twenty (20) feet in width lying on the left side and adjoining the left side of the above described thirty (30) feet easement, having a total area of **0.145 acres.**

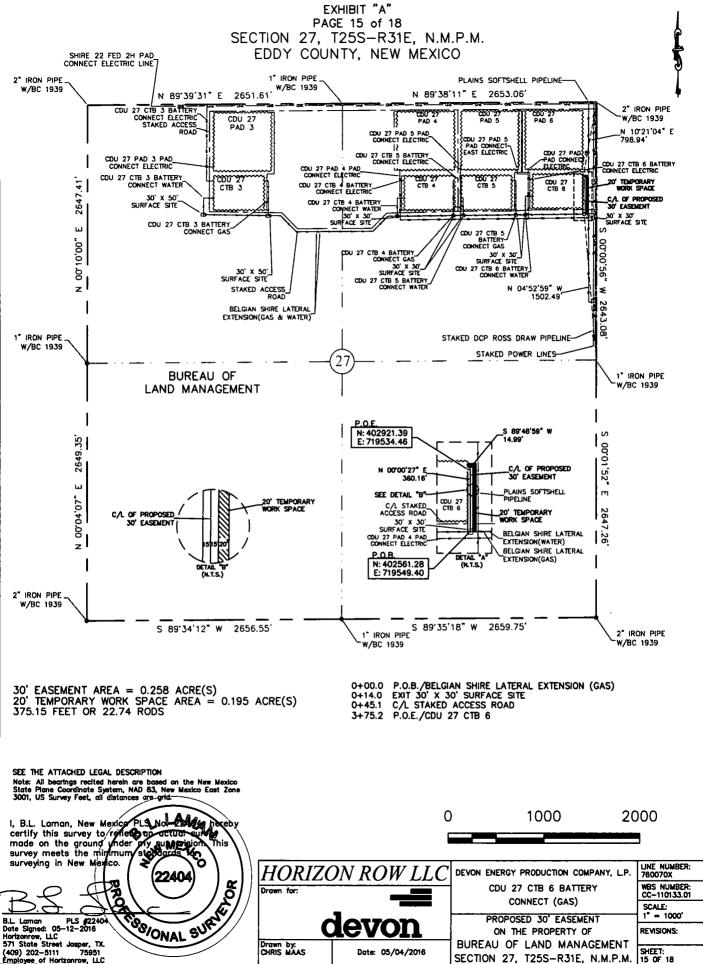
NOTES:

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.

PLS 22404 B.L. Laman





(409) 202-5111 75951 Employee of Horizonrow, LLC

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 the northeast quarter (NE ¼) of Section 27, Township 25 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/ BC1939 found for the east quarter corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico;

Thence N 04°52'59" W, a distance of 1502.49' to the **Point of Beginning** of this easement having coordinates of Northing=402561.28 feet, Easting=719549.40 feet, being in the northeast quarter (NE $\frac{1}{4}$) of Section 27, T25S-R31E, and continuing the following courses;

Thence N 00°00'27" E, a distance of 360.16' to an angle point;

Thence S 89°48'59" W, a distance of 14.99' to the **Point of Ending** having coordinates of Northing=402921.39 feet, Easting=719534.46 feet, from said point a 2" iron pipe w/ BC1939 found for the northeast corner of Section 27, T25S-R31E, N.M.P.M., Eddy County, New Mexico bears N 10°21'04" E a distance of 798.94', covering **375.15' or 22.74** rods and having an area of **0.258 acres**.

20' TEMPORARY WORK SPACE DESCRIPTION:

Being a temporary work space twenty (20) feet in width lying on the right side and adjoining the right side of the above described thirty (30) feet easement, having a total area of **0.195 acres**.

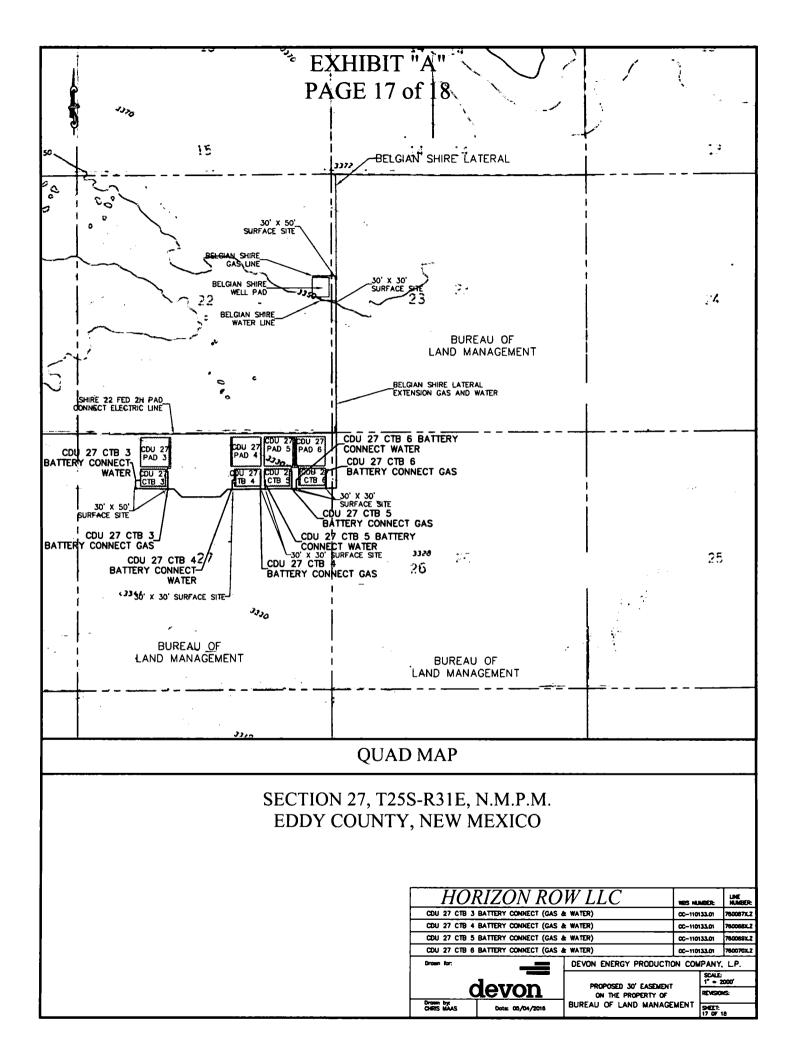
NOTES:

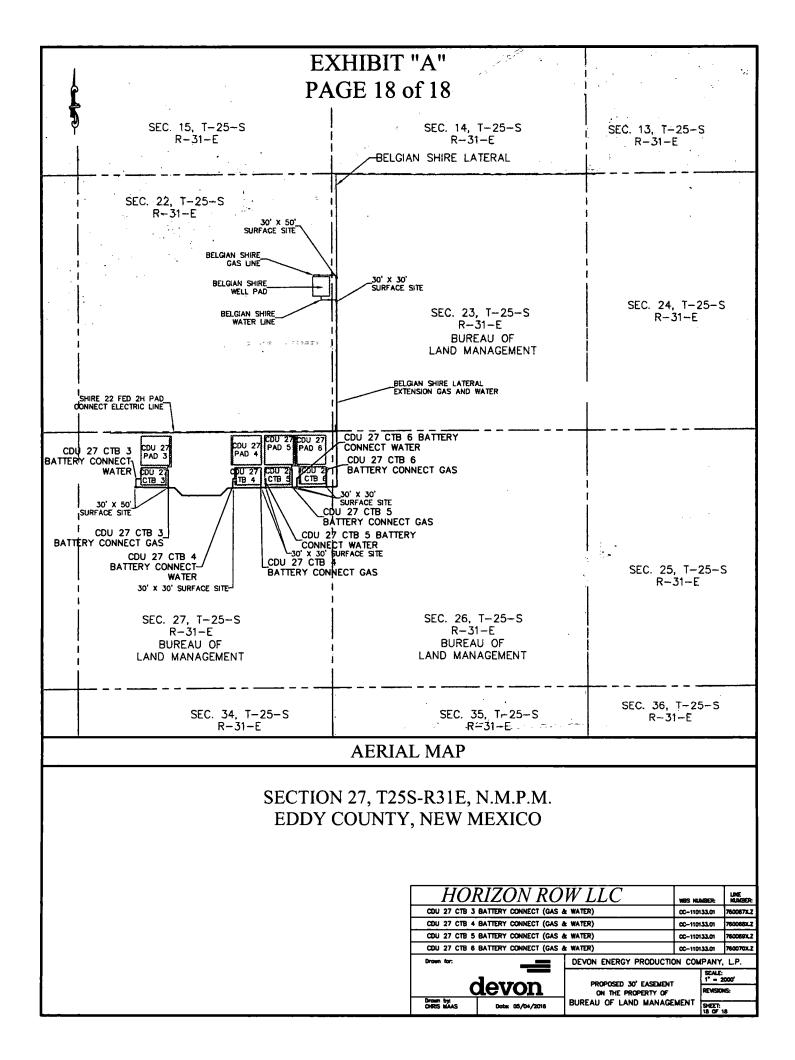
Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

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









Receipt

Tracking Information

Pay.gov Tracking ID: 26D6U3T6

Agency Tracking ID: 75605495439

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

Application Name: BLM Oil and Gas Online Payment

Payment Information

Payment Type: Bank account (ACH)

Payment Amount: \$30,150.00

Transaction Date: 10/30/2018 10:40:07 AM EDT

Payment Date: 10/31/2018

Company: Devon Energy Production Co., L.P.

APD IDs: 10400035075, 10400035085, 10400035224

Lease Numbers: NMNM125635, NMNM125635, NMNM016348

Well Numbers: 233H, 523H, 525H

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



Section 1 - General

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

Section 2 - Lined Pits

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

PWD disturbance (acres):

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

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?

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:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

PWD disturbance (acres):

PWD disturbance (acres):

Injection well type: Injection well number: Assigned injection well API number? Injection well new surface disturbance (acres): Minerals protection information: **Mineral protection attachment: Underground Injection Control (UIC) Permit? UIC Permit attachment:**

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location: PWD surface owner: 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: Other PWD discharge volume (bbl/day): Other PWD type description: Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

Injection well name:

Injection well API number:

PWD disturbance (acres):

PWD disturbance (acres):



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

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?

Bond Info Data Report

H. Mean Street

01/14

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: