Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT NOV 1 9 2019

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Serial No.

Do not use th	is form for proposals to		LLLU	A (5)	NIVIECOUZSOO	
abandoned we	is form for proposals to ll. Use form 3160-3 (AP	PD) for to re	ALLES VESIAC	C.U.	6. If Indian, Allottee or	Tribe Name
SUBMIT IN	TRIPLICATE - Other ins	tructions on	page 2		7. If Unit or CA/Agreen	nent, Name and/or No.
1. Type of Well			···		8. Well Name and No.	25-24 FED COM 611H
② Oil Well ☐ Gas Well ☐ Ot 2. Name of Operator		JENNIFER I	HADMS		9. API Well No.	
DEVON ENERGY PRODUCT		30-015-45097-00)-X1			
3a. Address 333 WEST SHERIDAN AVEN OKLAHOMA, OK 73102	NUE	3b. Phone N Ph: 405-5	o. (include area code) 52-6560		10. Field and Pool or E. PURPLE SAGE-	xploratory Area WOLFCAMP (GAS)
4. Location of Well (Footage, Sec., 7	C., R., M., or Survey Description	1)			11. County or Parish, S	tate
Sec 25 T25S R31E SWNW 2 32.101704 N Lat, 103.737114	484FNL 955FWL I W Lon				EDDY COUNTY,	NM
12. CHECK THE A	PPROPRIATE BOX(ES)	TO INDICA	TE NATURE O	F NOTICE,	REPORT, OR OTH	ER DATA
TYPE OF SUBMISSION		Ü	TYPE OF	ACTION	·	
Notice of Intent	☐ Acidize	☐ Dee	pen	☐ Product	ion (Start/Resume)	☐ Water Shut-Off
_	☐ Alter Casing	🗖 Нус	Iraulic Fracturing	☐ Reclama	ntion	☐ Well Integrity
☐ Subsequent Report	□ Casing Repair	□ Nev	v Construction	☐ Recomp	lete	⊠ Other
☐ Final Abandonment Notice	☐ Change Plans	Plu ₂	g and Abandon	□ Temporarily Abandon		Change to Original A
	☐ Convert to Injection	🗖 Plu	g Back	■ Water D	risposal	10
If the proposal is to deepen direction: Attach the Bond under which the wo following completion of the involved testing has been completed. Final At determined that the site is ready for f BHL CHANGE Devon Energy Production Co. well. Please see attached revi -COTTON DRAW MDP 2 Permitted BHL: NWNW, 330 F Proposed BHL: NWNW, 330 F	rk will be performed or provide loperations. If the operation repandonment Notices must be fil inal inspection. , L.P. (Devon) respectfully sed C102, Drill plan, direction.	the Bond No. o sults in a multip ed only after all y requests to ctional plan.	n file with BLM/BIA e completion or reco requirements, includ change the BHL	Required submpletion in a ning reclamation on the subject	sequent reports must be fi ew interval, a Form 3160- i, have been completed an	led within 30 days 4 must be filed once d the operator has
	,					
14. I hereby certify that the foregoing is Com	true and correct. Electronic Submission #4 For DEVON ENERG' amitted to AFMSS for proce	Y PRODUCTION	N COM LP, sent	to the Carlsb	ad	
Name (Printed/Typed) JENNIFEF	RHARMS		Title REGULA	ATORY CO	MPLIANCE ANALYS	Г
Signature (Electronic S	ubmission)		Date 09/18/20)19		
	THIS SPACE FO	R FEDERA			E	
						
Approved By LONG VO			TitlePETROLE	JM ENGINE	ER	Date 11/05/2019

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.

Office Carlsbad

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

(Instructions on page 2)
** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

RW11-25-19

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Devon Energy Prod Co

LEASE NO.: LC062300

WELL NAME & NO.: 611H – Big Sinks Draw 25-24 Fed

SURFACE HOLE FOOTAGE: | 2484'/N & 955/W

BOTTOM HOLE FOOTAGE | 330'/N & 890'/W, sec.24

LOCATION: | Section 25, T. 25 S., R.319 E.

COUNTY: Eddy County, New Mexico

COA

H2S	Yes	€ No	
Potash	• None	Secretary	← R-111-P
Cave/Karst Potential	€ Low	↑ Medium	← High
Cave/Karst Potential	Critical		
Variance	None	Flex Hose	Other
Wellhead	Conventional	^ Multibowl	© Both
Other	☐4 String Area	Capitan Reef	□ WIPP
Other	Fluid Filled	Cement Squeeze	Pilot Hole
Special Requirements	Water Disposal	ГСОМ	Г Unit

All Previous COAs Still Apply

A. CASING

Primary Casing Design:

- 1. The 13-3/8 inch surface casing shall be set at approximately 1003 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours 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 7-5/8 inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above. Cement excess is less than 25%, more cement might be required.

Option 2:

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

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

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

Operator has proposed to pump down 13-3/8" X 7-5/8" annulus. Operator must run a CBL from TD of the 7-5/8" casing to surface. Submit results to BLM.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

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

Alternate Casing Design:

- 4. The 13-3/8 inch surface casing shall be set at approximately 1003 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - e. 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.
 - f. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - g. 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.
 - h. 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.

5. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above. Cement excess is less than 25%, more cement might be required.

Option 2:

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

- c. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- d. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
 - Cement excess is less than 25%, more cement might be required.

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

The operator is approved to drill a 10.625" hole instead of 9.875" for intermediate 1 with a BTC connection.

- 6. 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.
 Cement excess is less than 25%, more cement might be required.

B. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2.

Option 1:

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

Option 2:

- 1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.

- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County
 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - ✓ Lea CountyCall the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. 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.
 - Manufacturer representative shall install the test plug for the initial BOP test
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not

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

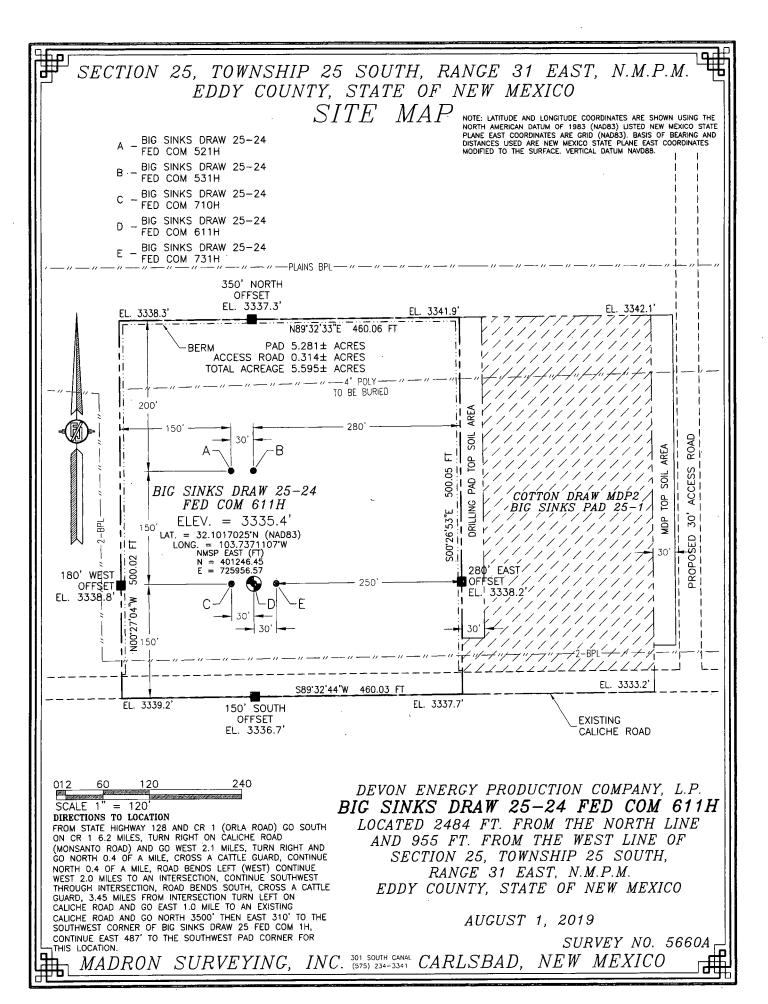
C. DRILLING MUD

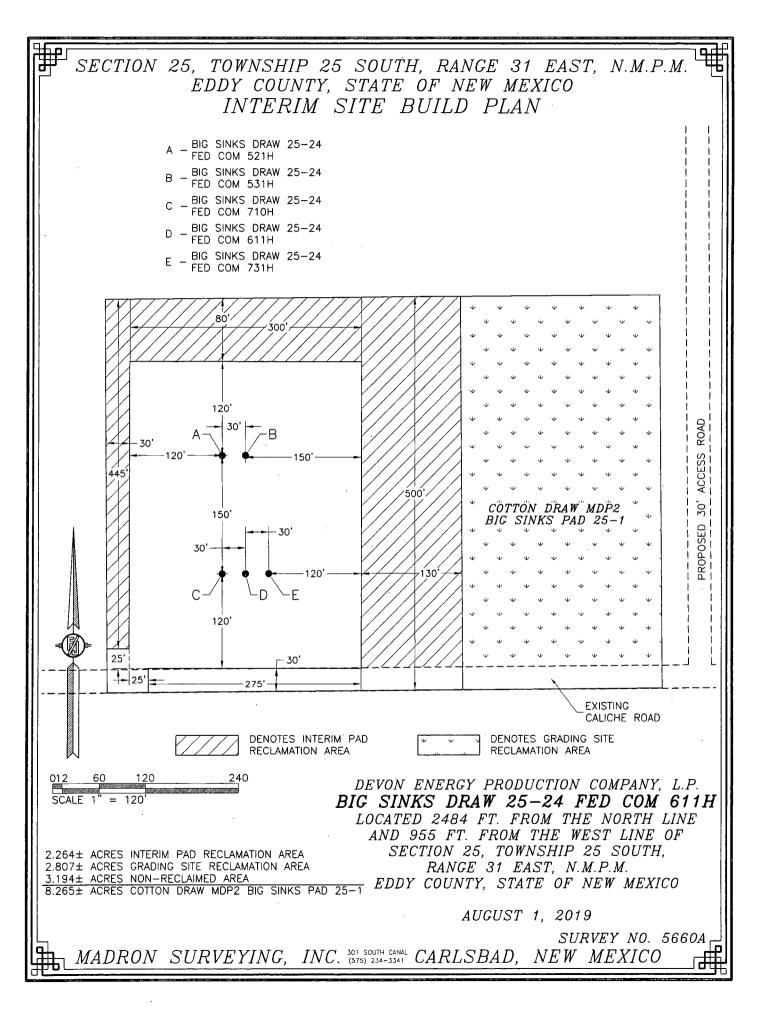
Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

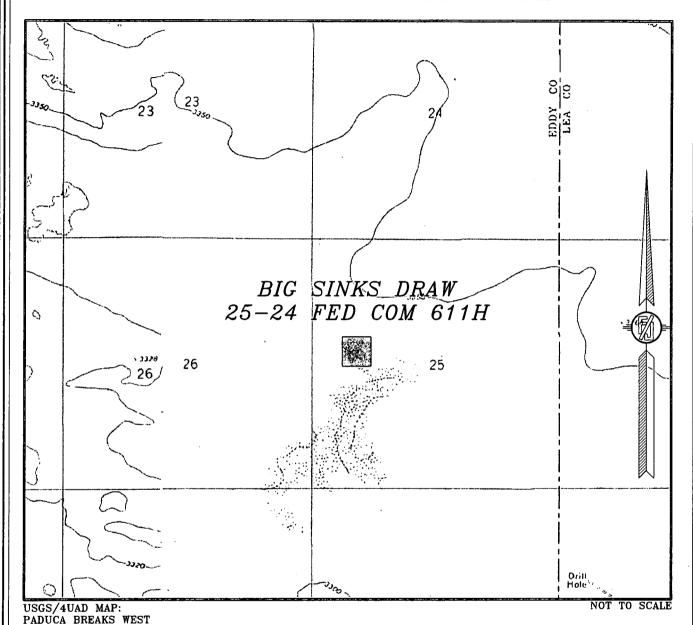
All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location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

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





SECTION 25, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO LOCATION VERIFICATION MAP

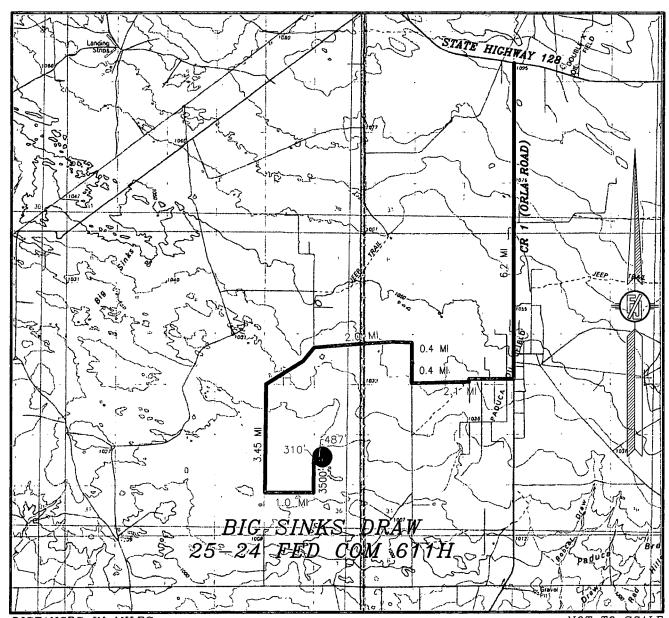


DEVON ENERGY PRODUCTION COMPANY, L.P.
BIG SINKS DRAW 25-24 FED COM 611H
LOCATED 2484 FT. FROM THE NORTH LINE
AND 955 FT. FROM THE WEST LINE OF
SECTION 25, TOWNSHIP 25 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

AUGUST 1, 2019

SURVEY NO. 5660A MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

SECTION 25, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO VICINITY MAP



DISTANCES IN MILES

TO NOTSCALE

DEVON ENERGY PRODUCTION COMPANY, L.P. BIG SINKS DRAW 25-24 FED COM 611H LOCATED 2484 FT. FROM THE NORTH LINE AND 955 FT. FROM THE WEST LINE OF

SECTION 25, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

AUGUST 1, 2019

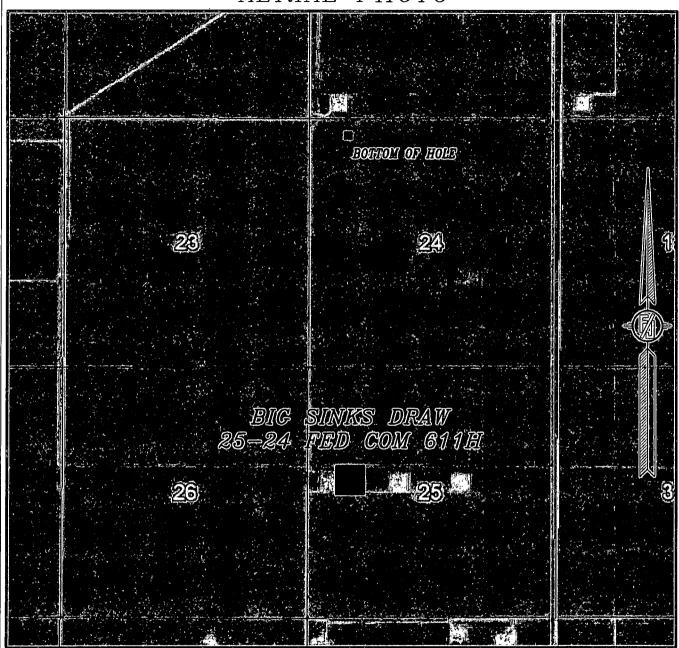
DIRECTIONS TO LOCATION

FROM STATE HIGHWAY 128 AND CR 1 (ORLA ROAD) GO SOUTH ON CR 1 6.2 MILES, TURN RIGHT ON CALICHE ROAD ON CR 1 6.2 MILES, TURN RIGHT ON CALICHE ROAD (MONSANTO ROAD) AND GO WEST 2.1 MILES, TURN RIGHT AND GO NORTH 0.4 OF A MILE, CROSS A CATTLE GUARD, CONTINUE NORTH 0.4 OF A MILE, ROAD BENDS LEFT (WEST) CONTINUE WEST 2.0 MILES TO AN INTERSECTION, CONTINUE SOUTHWEST THROUGH INTERSECTION, ROAD BENDS SOUTH, CROSS A CATTLE GUARD, 3.45 MILES FROM INTERSECTION TURN LEFT ON CALICHE ROAD AND GO EAST 1.0 MILE TO AN EXISTING CALICHE ROAD AND GO NORTH 3500' THEN EAST 310' TO THE SOUTHWEST CORNER OF BIG SINKS DRAW 25 FED COM 1H, CONTINUE EAST 487' TO THE SOUTHWEST PAD CORNER FOR THIS LOCATION.

SURVEY NO. 5660A

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

SECTION 25, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO AERIAL PHOTO



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH NOVEMBER 2015

DEVON ENERGY PRODUCTION COMPANY, L.P.
BIG SINKS DRAW 25-24 FED COM 611H
LOCATED 2484 FT. FROM THE NORTH LINE
AND 955 FT. FROM THE WEST LINE OF
SECTION 25, TOWNSHIP 25 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

AUGUST 1, 2019

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

SECTION 25, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO ACCESS AERIAL ROUTE MAP



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH NOVEMBER 2015

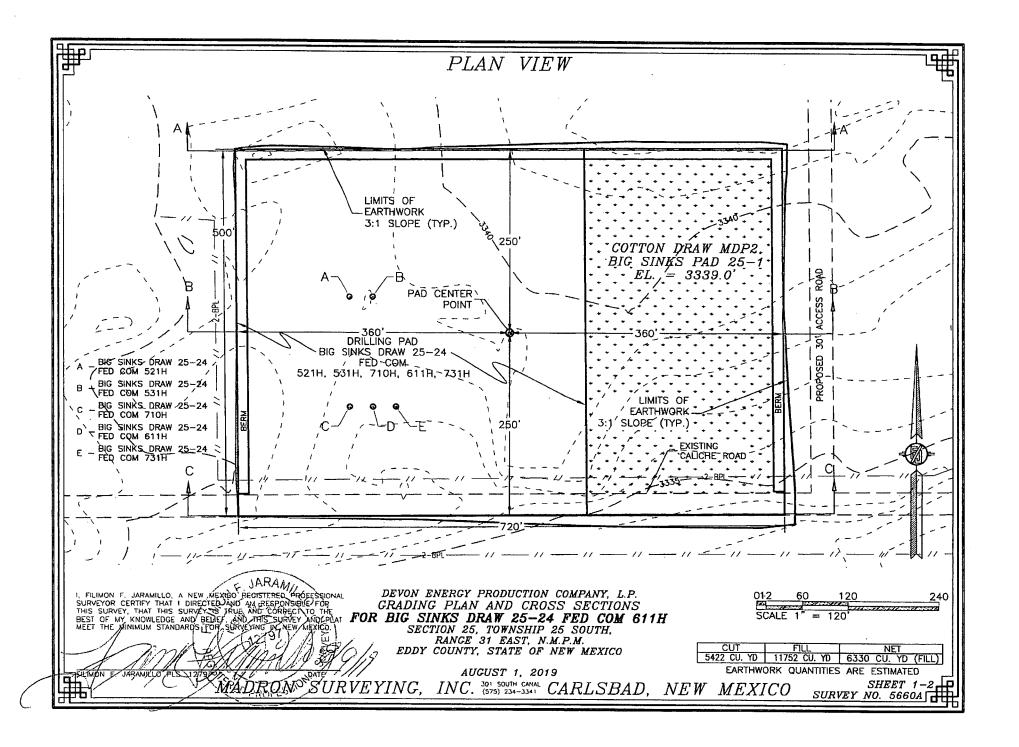
DEVON ENERGY PRODUCTION COMPANY, L.P. BIG SINKS DRAW 25-24 FED COM 611H

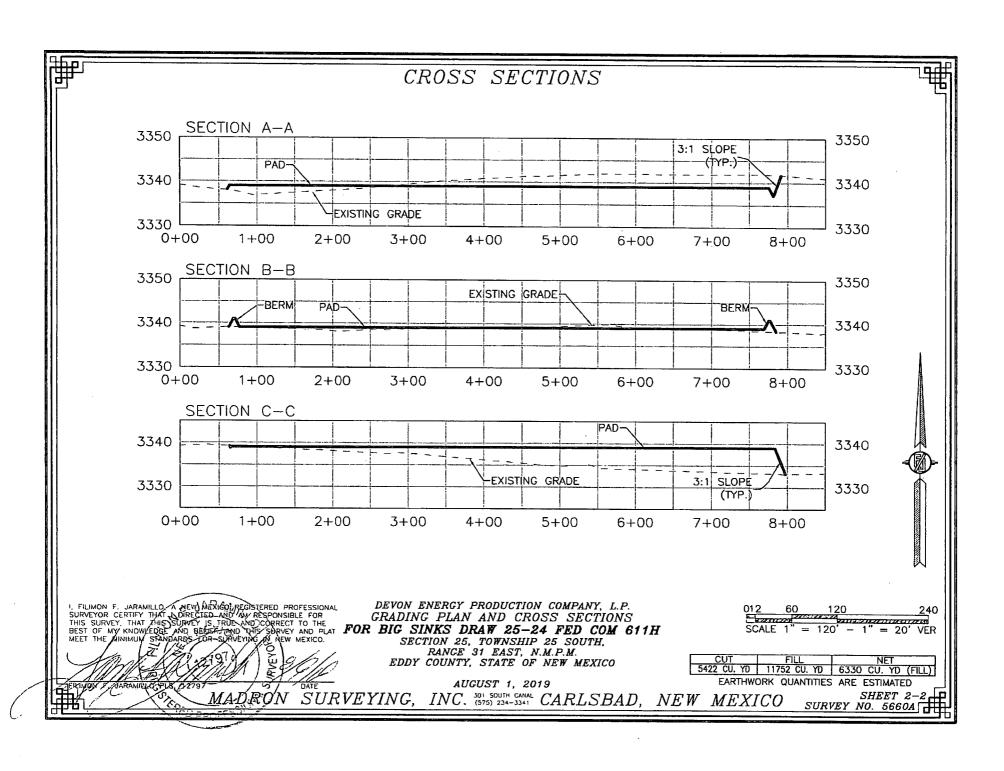
LOCATED 2484 FT. FROM THE NORTH LINE AND 955 FT. FROM THE WEST LINE OF SECTION 25, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

AUGUST 1, 2019

SURVEY NO. 5660A

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





Big Sinks Draw 25-24 Fed Com 611H

1. Geologic Formations

TVD of target	11805	Pilot hole depth	N/A
MD at TD:	19102	Deepest expected fresh water	

Basin

Dasin	I the first owner to the same of the same		
	Depth	Water/Mineral	
Formation .	(TVD)	Bearing/Target	Hazards*
Formation	from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	950		
Salt	1315		
Base of Salt	4120		
Delaware	4350		
Bone Spring 1st	8325		
Bone Spring 2nd	9610		
Bone Spring 3rd	10480		
Wolfcamp	11670		
**************************************			·

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

2. Casing Program (Primary Design)

Hole Size	Cosino	Interval To	Csg. Size	Wt (PPF)	Grade	l conn	Min SF. Collapse	Min SF Burst	Min SF
17 1/2	0	975 TVD	13 3/8	48.0	H40	STC	1.125	1.25	1.6
9 7/8	0	10480 TVD	7 5/8	29.7	P110	Flushmax III	1.125	1.25	1.6
6 3/4	0	TD	5 1/2	20.0	P110	Vam SG	1.125	1.25	1.6
		19101 MD 11805 TVD		BLM N	Minimum Sat	fety Factor	1.125	1	1.6 Dry 1.8 Wet

Fluid Filled

- All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for continengcy casing.
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.
- A variance is requested for collapse rating on intermediate casing. Operator will keep pipe full while running casing.
- Int casing shoe will be selected based on drilling data/gamma, setting depth with be revised accordingly if needed.
- A variance is requested to wave the centralizer requirement for the Intermediate casing and production casing.
- A variance is requested to set intermediate casing in the curve if hole conditions dictate that a higher shoe strength is required.

Casing Program (Alternative Design)

Hole Size	Casing From	Interval To	Csg. Size	Wt (PPF)	Grade	Conn	Min SF Collapse	Min SF Burst	Min SF Tension
17 1/2	0	975 TVD	13 3/8	48.0	H40	STC	1.125	1.25	1.6
9 7/8	0	10480 TVD	8 5/8	32.0	P110	TLW	1.125	1.25	1.6
7 7/8	0	TD	5 1/2	17.0	· P110	BTC	1.125	1.25	1.6
<u> </u>				BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet



- All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for continengcy casing.
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.
- A variance is requested for collapse rating on intermediate casing. Operator will keep pipe full while running casing.
- Int casing shoe will be selected based on drilling data/gamma, setting depth with be revised accordingly if needed.
- A variance is requested to wave the centralizer requirement for the Intermediate casing and production casing.
- •Variance requested to drill 10.625" hole instead of 9.875" for intermediate 1, the 8.625" connection will change from TLW to BTC.
- A variance is requested to set intermediate casing in the curve if hole conditions dictate that a higher shoe strength is required.

Big Sinks Draw 25-24 Fed Com 611H

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

3. Cementing Program (Primary Design)

3. Cementing Program	(I I IIII al y Desi	gn <i>j</i>				
Casing	# Sks	TOE	Wt. (lb/gal))	Yld (ft3/sack)	Slurry Description	
Surface	744	Surf	13.2	1.44	Lead: Class C Cement + additives	
Total 1	638	Surf	9	. 3.27	Lead: Class C Cement + additives	\e44 4
Int 1	783	4000' above shoe	13.2	1.44	Tail: Class H / C + additives	3590 9
	819	Surf	9	3.27	1st stage Lead: Class C Cement + additives	
Int 1 Two Stage	93	500' above shoe	13.2	1.44	1st stage Tail: Class H / C + additives	
w/ DV @ TVD of Delaware	404	Surf	9	3.27	2nd stage Lead: Class C Cement + additives	ا ه
	93	500' above DV	· 13.2	1.44	2nd stage Tail: Class H / C + additives	
Int 1	As Needed	Surf	9	1.44	Squeeze Lead: Class C Cement + additives	
Intermediate	638	Surf	9	3.27	Lead: Class C Cement + additives	
Squeeze	783	4000' above shoe	13.2	1.44	Tail: Class H / C + additives	1854
Production	60	9233	9.0	3.3	I and Class II /C + additions	350/0 excess
Production	502	11233	13.2	1.4	Tail: Class H / C + additives	exit.

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

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

.Devon - Internal

3. Cementing Program (Alternative Design)

3. Cementing Program	(Mitter matrice D	caign)			
Casing	#'Sks	TÖĆ:	Wt.c	Yld (ft3/sáck)	Slurry Description
Surface	744	Surf	13.2	1.44	Lead: Class C Cement + additives
T., 1	418	Surf	9	3.27	Lead: Class C Cement + additives
Int 1	465	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
	481	Surf	9	3.27	1st stage Lead: Class C Cement + additives
Int 1 Two Stage	55	500' above shoe	13.2	1.44	1st stage Tail: Class H / C + additives
w DV @ ~4500	281	Surf	9	3.27	2nd stage Lead: Class C Cement + additives
	· 55	500' above DV	13.2	1.44	2nd stage Tail: Class H / C + additives
Int 1	As Needed	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	418	Surf	.9	3.27	Lead: Class C Cement + additives
Squeeze	465	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
Int 1 (10.625" Hole Size)	601	Surf	9	3.27	Lead: Class C Cement + additives
1111 (10.023 1101e S12e)	768	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
Pro duction	117	9233	9.0	3.3	Lead: Class H /C + additives
Production	1041	11233	13.2	1.4	Tail: Class H / C + additives

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

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

1695 th

 $\mathcal{N}_{\mathbf{c}}$

less than

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Require d WP		ÿpe		Tested to:
			Ari	nular	X	50% of rated working pressure
Int 1	13-58"	5M	Blin	d Ram	X	
III I	13-30	3101	Pip	e Ram		5M
	}		Doub	ole Ram	X	5171
			Other*			
			Annular (5M)		X	50% of rated working pressure
Production	13-5/8"	5M	Blind Ram		X	5M
rioduction		3101	Pipe Ram			
			Doub	ole Ram	X	51 V1
			Other*			
			Annu	lar (5M)		
			Blin	d Ram		
			Pipe	e Ram		
			Doub	ole Ram		
			Other*			
A variance is requested for	the use of a	diverter on	the surface	casing. See a	ttached for so	hematic.
A variance is requested to	run a 5 M anr	nular on a	10M system	<u></u> l		

ok

5. Mud Program (Three String Design)

3. Mad 110gram (Three String Desi	5 ¹¹ /	
Section	Týpe	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	DBE / Cut Brine	10-10.5
Production	OBM	10-10.5

6 K

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

6. Logging and Testing Procedures

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

Additiona	l logs planned	Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
X	CBL	Production casing
X	Mud log	Intermediate shoe to TD
	PEX	

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	6446
Abnormal temperature	No

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

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

encounter	red measured values and formations will be provided to the BLM.
N	H2S is present
Y	H2S plan attached.

8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

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

Attachment	S
X	Directional Plan
	Other, describe

WCDSC Permian NM

Eddy County (NAD 83 NM Eastern) Sec 25-T25S-R31E Big Sinks Draw 25-24 Fed Com 611H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

11 September, 2019

EDM r5000.141_Prod US Database:

WCDSC Permian NM Company

Project: Eddy County (NAD 83 NM Eastern)

Sec 25-T25S-R31E

Site: ☑ Big Sinks Draw 25-24 Fed Com 611H

Wellbore: Wellbore #1 Permit Plan 1 Design:

Local Co-ordinate Reference: Well Big Sinks Draw 25-24 Fed Com 611H

TVD Reference: MD Reference RKB @ 3360.40ft RKB @ 3360,40ft

North Reference:

Survey Calculation Method: Minimum Curvature

Eddy County (NAD 83 NM Eastern)

Map System: Geo Datum: Map Zone:

US State Plane 1983

North American Datum 1983 New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site Sec 25-T25S-R31E

Site Position: From:

Northing: Map

403,723.39 usft Latitude:

32.108526

Easting:

724,993.28 usft Longitude:

-103.740178

Position Uncertainty:

5.00 ft Slot Radius:

13-3/16 "

6.78

Grid Convergence:

0.32 °

Well T Big Sinks Draw 25-24 Fed Com 611H

+E/-W

Well Position

0.00 ft 0,00 ft

Northing: Easting:

401,246.45 usft

Latitude:

32.101703

0.50 ft

IGRF2015

9/9/2019

725,956,57 usft

Longitude:

-103,737111

Wellhead Elevation: Ground Level: **Position Uncertainty** 3,335.40 ft

Magnetics Model Name Sample Date Declination

阿斯斯斯

(nT) 47,619,92431552

Audit Notes:

Version:

Phase:

PROTOTYPE

Tie On Depth:

0.00

Vertical Section: Depth From (TVD) +N/S; 0.00

0.00

0.00

Direction

359.33

Plan Survey Tool Program Date 9/11/2019

0.00

(ft) Survey (Wellbore)

MWD+HDGM

19,101.68 Permit Plan 1 (Wellbore #1)

OWSG MWD + HDGM

Plan Sections Measured Depth	inclination (°)	Azimuth	Vertical Depth	+N/-S (ft)	+E/-W	Dögleg/ Rate (°/100ush)	Build Rate (*/100ust)	Turn ∄ Rate (°/100usft)	IFO (r)	Target
0.00	0.00	0.00	0.00	0.00	0,00	0.00	0.00	0,00	0.00	
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,686.77	0.87	211.52	2,686.77	-0.56	-0.34	1,00	1.00	0.00	211.52	
10,825.09	0.87	211.52	10,824.15	-105.63	-64.77	0.00	0.00	0.00	0.00	
10,882.94	0.00	0.00	10,882.00	-106.00	-65.00	1.50	-1.50	0.00	180.00	
11,232.98	0.00	0.00	11,232.04	-106.00	-65.00	0.00	0.00	0.00	0.00	
12,132.98	90.00	359.84	11,805,00	466.96	-66.63	10.00	10.00	0.00	359.84	PBHL - Big Sinks Dra
19,101.68	90.00	359.84	11,805.00	7,435.63	-86,50	0.00	0.00	0.00	0.00	PBHL - Big Sinks Dra

EDM r5000.141_Prod US WCDSC Permian NM

Eddy County (NAD 83 NM Eastern)

Sec 25-T25S-R31E

Big Sinks Draw 25-24 Fed Com 611H

Database EDM r5000.141_P
Company WCDSC Permian N
Project: Eddy County (NAD
Site: Sec 25-T25S-R31E
Well Big Sinks Draw 25Wellbore Wellbore #1
Design Permit Plan 1

Local Co-ordinate Reference: Well Big Sinks Draw 25-24 Fed Com 611H
TVD Reference: RKB @ 3360.40ft
RKB @ 3360.40ft
RKB @ 3360.40ft
Grid
Minimum Curvature

Planned Survey		Janes - Armanda	en de la comercia de de la comercia.		THERE IN AUGUST AND A STATE OF THE STATE OF		the state of the same	or and the final control of the control	TOTAL CONTRACTOR OF THE
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Measured			Vertical	Later 14		Map	Map	And the first said with	
Depth	Inclination	, Azimuth , ^T	Depth	≑N/-S	+E/-W	Northing	Easting		TANK TO THE REPORT OF
(ft)	(°)	ૈ _{જે} (°) _{જે ક} ું	(ft) (引)	\$ 2 (t) (1) 15 Se	(ft)	(usft)	(usft)	Latitude	Longitude
0.00	0.00	0.00	0,00	0.00	0.00	401,246.45	725.956.57	32,101703	-103,737111
100.00		0.00	100.00	0.00	0.00	401,246.45	725,956,57	32,101703	-103.737111
200.00	0.00	0.00	200.00	0.00	0.00	401,246.45	725,956,57	32,101703	-103,737111
300.00	0.00	0.00	300.00	0.00	0.00	401,246.45	725.956.57	32.101703	-103,737111
400,00	0,00	0,00	400.00	0.00	0.00	401,246,45	725,956,57	32,101703	-103.737111
500,00	0.00	0.00	500.00	0.00	0.00	401,246.45	725,956.57	32,101703	-103.737111
600.00	0.00	0.00	600.00	0.00	0.00	401,246.45	725,956.57	32.101703	-103.737111
700.00	0.00	0.00	700.00	0.00	0.00	401,246.45	725,956,57	32.101703	-103,737111
800.00	0.00	0.00	800.00	0.00	0.00	401,246.45	725,956,57	32,101703	-103,737111
900.00	0.00	0.00	900.00	0.00	0.00	401,246.45	725,956.57	32.101703	-103.737111
1,000.00	0.00	0.00	1,000.00	0.00	0.00	401,246.45	725,956.57	32.101703	-103.737111
1,100.00	0.00	0.00	1,100.00	0.00	0.00	401,246.45	725,956.57	32.101703	-103.737111
1,200.00	0,00	0.00	1,200.00	0.00	0.00	401,246.45	725,956.57	32,101703	-103,737111
1,300.00	0.00	0.00	1,300.00	0.00	0.00	401,246.45	725,956.57	32.101703	-103,737111
1,400.00	0.00	0.00	1,400.00	0.00	0.00	401,246.45	725,956.57	32.101703	-103,737111
1,500.00	0.00	0.00	1,500.00	0.00	0.00	401,246.45	725,956,57	32,101703	-103.737111
1,600.00	0.00	0.00	1,600.00	0.00	0.00	401,246.45	725,956.57	32.101703	-103.737111
1,700.00	0.00	0.00	1,700.00	0.00	0.00	401,246.45	725,956.57	32.101703	-103.737111
1,800.00	0.00	0.00	1,800.00	0.00	0.00	401,246.45	725,956.57	32.101703	-103.737111
1,900.00	0.00	0.00	1,900.00	0.00	0.00	401,246.45	725,956.57	32.101703	-103.737111
2,000.00	0.00	0.00	2,000.00	0.00	0.00	401,246.45	725,956,57	32,101703	-103,737111
2,100.00	0.00	0.00	2,100.00	0.00	0.00	401,246.45	725,956.57	32.101703	-103.737111
2,200.00	0,00	0.00	2,200.00	0.00	0.00	401,246.45	725,956.57	32.101703	-103,737111
2,300.00	0.00	0.00	2,300.00	0.00	0.00	401,246.45	725,956.57	32.101703	-103.737111
2,400.00	0.00	0.00	2,400.00	0.00	0.00	401,246.45	725,956.57	32,101703	-103,737111
2,500.00 2,600.00	0,00	0.00 0.00	2,500.00 2,600.00	0.00 0.00	0.00 0.00	401,246.45 401,246.45	725,956.57 725,956.57	32.101703 32.101703	-103.737111 -103.737111
2,686.77	0.00	211.52	2,686.77	-0.56	-0.34	401,245.89	725,956.22	32.101701	-103.737111
2,700.00	0.87	211.52	2,700.00	-0.36 -0.73	-0.45	401,245.72	725,956.12	32.101701	-103.737112
2,800.00	0.87	211.52	2,799,98	-2.02	-1.24	401,244.43	725,955.33	32,101697	-103,737115
2,900.00	0.87	211.52	2,899.97	-3,31	-2.03	401,243.14	725,954.53	32.101694	-103.737118
3,000.00	0.87	211.52	2,999.96	-4.60	-2.82	401,241.85	725,953.74	32,101690	-103.737120
3,100.00	0.87	211.52	3,099.95	-5.89	-3,61	401,240.55	725,952,95	32,101686	-103,737123
3,200.00	0.87	211,52	3,199.94	-7.19	-4.41	401,239.26	725,952.16	32,101683	-103,737125
3,300.00	0.87	211.52	3,299.93	-8.48	-5.20	401,237.97	725,951.37	32.101679	-103.737128
3,400.00	0.87	211.52	3,399,91	-9.77	-5.99	401,236.68	725,950.58	32.101676	-103,737130
3,500.00	0.87	211.52	3,499.90	-11.06	-6.78	401,235.39	725,949.78	32,101672	-103,737133
3,600.00	0.87	211.52	3,599.89	-12.35	-7.57	401,234.10	725,948.99	32,101669	-103,737136
3,700.00	0.87	211,52	3,699.88	-13.64	-8.36	401,232.81	725,948.20	32.101665	-103.737138
3,800.00	0.87	211.52	3,799.87	-14.93	-9.16	401,231.52	725,947.41	32.101662	-103.737141
3,900.00	0.87	211.52	3,899.86	-16.22	-9.95	401,230.23	725,946.62	32,101658	-103.737143
4,000.00	0,87	211.52	3,999.85	-17.51	-10.74	401,228.93	725,945.83	32,101655	-103.737146
4,100.00	0.87	211.52	4,099.83	-18.81	-11.53	401,227.64	725,945.03	32.101651	-103.737149
4,200.00	0.87	211.52	4,199.82	-20.10	-12.32	401,226.35	725,944.24	32.101648	-103,737151
4,300.00	0.87	211.52	4,299.81	-21.39	-13.11	401,225.06	725,943,45	32,101644	-103.737154
4,400.00	0.87	211.52	4,399,80	-22.68	-13.91	401,223.77	725,942.66	32.101640	-103.737156
4,500.00	0.87	211.52	4,499.79	-23.97	-14.70 45.40	401,222.48	725,941.87	32.101637	-103.737159
4,600.00	0.87	211.52	4,599.78	- 25.26	-15.49	401,221.19	725,941.08	32.101633	-103.737161
4,700.00	0.87	211.52	4,699.77	-26.55	-16,28	401,219,90	725,940.28	32.101630	-103.737164
4,800.00	0.87	211,52	4,799.75	-27.84	-17.07	401,218.61	725,939.49	32,101626	-103.737167
4,900.00	0.87	211.52	4,899.74	-29.13	-17.86	401,217.32	725,938.70	32.101623	-103.737169
5,000.00	0.87	211.52	4,999.73	-30.42	-18.66	401,216.02	725,937.91	32.101619 32.101616	-103.737172
5,100.00	0.87	211.52	5,099.72 5,199.71	-31.72	-19,45	401,214.73	725,937.12	32,101616 32,101612	-103.737174 -103.737177
5,200.00	0.87	211.52	5,199.71 5,299.70	-33.01 -34.30	-20.24 -21.03	401,213.44 401,212.15	725,936.33 725,935.54	32,101612 32,101609	-103,737179
5,300.00	0.87	211.52	5,299.70	-34,30	-∠۱.∪٥	401,212.13	120,500.04	32,101009	-103,737178

Database EDM r5000.141_Prod US
Company WCDSC Permian NM
Project Eddy County (NAD 83 NM Eastern)
Site Sec 25-T25S-R31E
Well Big Sinks Draw 25-24 Fed Com 611H
Wellbore Big Sinks Draw 25-24 Fed Com 611H
Wellbore P1
Design:

Local Co-ordinate Reference

TVD Reference

MD Reference

North Reference:
Survey Calculation Method

Well Big Sinks Draw 25-24 Fed Com 611H
RKB @ 3360.40ft
RKB @ 3360.40ft
Grid
Minimum Curvature

Planned Survey		An Tour He III Seek y List 119	tedermonent and a state of the	AND THE RESERVE A	the or the feedback to be an ability back.	thall del Medical began i da hi grand i ar nelle a trègli	at with heart speed with art a mini	nga in Malana (nga dan dan dan dan dan dan dan dan dan da	·
A STATE OF THE STA	有 不过。"	HELL BEING	是非洲公司		國民的思想		CANAL CHECKER	RATE TO THE	
Measured			Vertical 🖟 🖗	The town of		Map 8	Map		
Depth	Inclination	Azimuth	್ Depth ಿ	√+N/-S/-√-	+E/-W	Northing	Easting		
(m)		(0)	(ft),	(ft);	(ft)	(usft)	(usft)	Latitude	Löngitude
1. T. WY. Willand. 1.				(1831-1278) <u>1</u> 01-4		na mary a aller	A SEE OF SEE	PARK ARTERIALE AND	13 No. 1880 1982 1993 1994
5,400.00	0.87	211.52	5,399.69	-35.59	-21.82	401,210.86	725,934.74	32.101605	-103,737182
5,500.00	0.87	211.52	5,499.67	-36.88	-22.61	401,209.57	725,933.95	32.101602	-103.737185
5,600.00	0.87	211,52	5,599.66	-38.17 30.46	-23.41	401,208.28	725,933.16	32.101598	-103.737187
5,700.00 5,800.00	0.87 0.87	211.52 211.52	5,699.65 5,799.64	-39.46 -40.75	-24.20 -24.99	401,206.99	725,932,37 725,931,58	32.101595	-103.737190 -103.737192
5,900.00	0.87	211.52	5,799.64	-40.75 -42.04	-24.99 -25.78	401,205.70	725,931.56	32,101591 32,101587	-103.737195
6,000.00	0.87	211.52	5,999.62	-42.04 -43.33	-25.76 -26.57	401,204.41 401,203.11	725,930.79		-103.737198
6,100.00	0.87	211.52	5,999.62 6,099.61	-43.33 -44.63	-26.57 -27.36	401,203.11	725,929.99 725,929.20	32.101584 32.101580	-103.737198
6,200.00	0.87	211.52	6,199,59	-45.92	-27.36 -28.16	401,200.53	725,929.20	32,101577	-103,737200
6,300.00	0.87	211.52	6,299.58	-47.21	-28.95	401,199.24	725,927.62	32.101577	-103.737205
6,400.00	0.87	211.52	6,399.57	-48.50	-20. 3 3 -29.74	401,193.24	725,926.83	32.101573	-103.737208
6,500.00	0.87	211.52	6,499.56	-49.79	-30.53	401,196.66	725,926.04	32.101576	-103.737208
6,600.00	0.87	211.52	6,599.55	-51.08	-30,33	401,195.37	725,925.24	32,101563	-103.737213
6,700.00	0.87	211.52	6,699.54	-51.35	-31.52 -32.11	401,194.08	725,923.24	32,101559	-103.737216
6,800.00	0.87	211.52	6,799.53	-52.57 -53.66	-32.11 -32.91	401,194.08	725,923.66	32.101556	-103.737218
6,900.00	0.87	211.52	6,899.51	-54.95	-32.91	401,191.50	725,923.87	32.101552	-103.737278
7,000.00	0.87	211.52	6,999.50	-56.24	-34.49	401,191.30	725,922.08	32,101549	-103.737223
7,100.00	0.87	211.52	7,099.49	-57.54	-35.28	401,188.91	725,921.29	32.101545	-103.737226
7,200,00	0.87	211.52	7,199.48	-58.83	-36,07	401,187.62	725,920.49	32.101541	-103,737228
7,300.00	0.87	211.52	7,299.47	-60.12	-36.86	401,186.33	725,919,70	32.101538	-103.737231
7,400.00	0.87	211,52	7,399.46	-61.41	-37.66	401,185.04	725,918,91	32,101534	-103.737234
7,500.00	0.87	211.52	7,499.44	-62.70	-38,45	401,183.75	725,918.12	32,101531	-103,737236
7,600.00	0.87	211.52	7,599.43	-63.99	-39.24	401,182.46	725,917.33	32.101527	-103.737239
7,700.00	0.87	211.52	7,699,42	-65,28	-40,03	401,181.17	725,916.54	32.101524	-103.737241
7,800.00	0,87	211,52	7,799.41	-66.57	-40.82	401,179.88	725,915.74	32,101520	-103,737244
7,900.00	0.87	211.52	7,899.40	-67.86	-41.61	401,178.59	725,914.95	32.101517	-103.737247
8,000.00	0.87	211.52	7,999.39	-69.15	-42.41	401,177.29	725,914.16	32,101513	-103,737249
8,100.00	0.87	211,52	8,099,38	-70.45	-43,20	401,176.00	725,913,37	32,101510	-103.737252
8,200.00	0.87	211.52	8,199.36	-71.74	-43,99	401,174.71	725,912.58	32,101506	-103.737254
8,300.00	0.87	211.52	8,299.35	-73.03	-44.78	401,173.42	725,911.79	32,101503	-103,737257
8,400.00	0.87	211.52	8,399.34	-74.32	-45.57	401,172.13	725,910.99	32,101499	-103.737259
8,500.00	0.87	211.52	8,499,33	- 75.61	-46.36	401,170.84	725,910.20	32.101495	-103.737262
8,600.00	0.87	211.52	8,599.32	-76.90	-4 7.16	401,169.55	725,909,41	32,101492	-103.737265
8,700.00	0.87	211.52	8,699.31	-78.19	-47.95	401,168,26	725,908,62	32.101488	-103.737267
8,800.00	0.87	211.52	8,799.30	-79.48	-48.74	401,166.97	725,907.83	32.101485	-103.737270
8,900.00	0,87	211.52	8,899.28	-80.77	-49.53	401,165.68	725,907.04	32.101481	-103.737272
9,000.00	0.87	211.52	8,999.27	- 82.06	-50,32	401,164.38	725,906,24	32,101478	-103,737275
9,100.00	0.87	211.52	9,099.26	-83,36	-51,11	401,163.09	725,905.45	32.101474	-103,737277
9,200.00	0.87	211.52	9,199.25	-84.65	-51.91	401,161.80	725,904.66	32.101471	-103.737280
9,300.00	0.87	211.52	9,299.24	-85.94	-52.70	401,160.51	725,903.87	32.101467	-103.737283
9,400.00	0.87	211.52	9,399.23	-87.23	-53.49	401,159.22	725,903.08	32,101464	-103.737285
9,500.00	0.87	211,52	9,499.22	-88.52	-54.28	401,157.93	725,902.29	32,101460	-103.737288
9,600.00	0.87	211.52	9,599.20	-89.81	-55.07	401,156.64	725,901.49	32.101457	-103.737290
9,700.00	0.87	211.52	9,699.19	-91.10	-55.86	401,155.35	725,900.70	32,101453	-103.737293
9,800.00	0.87	211.52	9,799.18	-92.39	-56.66	401,154.06	725,899.91	32,101450	-103,737296
9,900.00	0.87	211.52	9,899.17	-93.68	-57,45	401,152.77	725,899.12	32.101446	-103.737298
10,000.00	0.87	211.52	9,999.16	-94.97	-58.24	401,151.47	725,898.33	32.101442	-103.737301
10,100.00	0.87	211.52	10,099.15	-96.27	-59.03	401,150.18	725,897.54	32,101439	-103.737303
10,200.00	0.87	211.52	10,199.14	-97.56	-59,82	401,148.89	725,896.74	32.101435	-103,737306
10,300.00	0.87	211.52	10,299.12	-98.85	-60.61	401,147.60	725,895,95	32,101432	-103,737308
10,400.00	0.87	211.52	10,399.11	-100.14	-61.41	401,146.31	725,895.16	32.101428	-103.737311
10,500.00	0.87	211.52	10,499.10	-101.43	-62.20	401,145.02	725,894.37	32.101425	-103.737314
10,600.00	0.87	211.52	10,599.09	-102.72	-62,99	401,143.73	725,893.58	32,101421	-103,737316
10,700.00	0.87	211.52	10,699.08	-104.01	-63.78	401,142.44	725,892.79	32,101418	-103,737319
10,800,00	0,87	211.52	10,799.07	-105,30	-64.57	401,141.15	725,891.99	32,101414	-103.737321

Big Sinks Draw 25-24 Fed Com 611H Wellbore #1

Database Company Project Site Well Wellbore Design Permit Plan 1

EDM r5000.141_Prod US

WCDSC Permian NM

Eddy County (NAD 83 NM Eastern)
Sec 25-T25S-R31E

Big Sinks Draw 25-24 Fed Com 611H

Wellbore #1

Permit Plan 1

Well Big Sinks Draw 25-24 Fed Com 611H

Wellbore #1

Well Big Sinks Draw 25-24 Fed Com 611H

Well Big Sinks Draw 25-24 Fed Com 611H

Well Big Sinks Draw 25-24 Fed Com 611H

RKB @ 3360.40ft

Grid

Minimum Curvature

Planned Surve	y	rangin s wars	r # 4000 - Contractor of 1990 -	en de la companya de		The Company of the Contract of	TORRORS OF THE TOTAL OF THE	Marin Contracta de La Labour Funda de Calendo de La Labour de Labo	TO BE THE THE THE TANK A CONTROL OF
				法法法					
Measured			Vertical 🤃	建分配。在		Map:	Map:	第二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十	
Depth	2	A STATE OF THE STA	Depth	/+N/-S. 2-	'+E/-W	Northing	Easting	1	
(t)	* ``(°): ``	(1)	·美·(ft)。。	(ft)	(ft)	(usft)	(üsft) 🦟 🔭	Latitude	Longitude 🖑
10,825.09	0.87	211.52	10,824.15	-105.63	-64.77	401,140.82	725,891,80	32.101413	-103,737322
10,882.94		0.00	10,882.00	-106.00	-65.00	401,140.45	725,891.57	32,101412	-103.737323
10,900.00		0.00	10,899.06	-106.00	-65,00	401,140.45	725,891.57	32.101412	-103.737323
11,000.00		0.00	10,999.06	-106.00	-65.00	401,140.45	725,891.57	32.101412	-103.737323
11,100.00		0.00	11,099.06	-106.00	-65.00	401,140.45	725,891,57	32,101412	-103,737323
11,200.00		0.00	11,199.06	-106.00	-65.00	401,140.45	725,891.57	32.101412	-103.737323
11,232.98	0.00	0.00	11,232.04	-106.00	-65.00	401,140.45	725,891.57	32.101412	-103.737323
KOP@	11233' MD, 25	90' FNL, 890'	FWL						
11,300.00		359.84	11,298.91	-102.08	-65.01	401,144.36	725,891.56	32.101423	-103.737323
11,400.00	16.70	359,84	11,396.71	-81.83	-65.07	401,164.62	725,891.50	32.101479	-103.737323
11,474.12	24.11	359.84	11,466.13	-56.00	-65.14	401,190.45	725,891.42	32.101550	-103.737322
FTP@	11474' MD, 254	10' FNL, 890'	FWL						
11,500.00		359.84	11,489.50	-44.90	-65,17	401,201.55	725,891.39	32,101580	-103,737322
11,600.00	36.70	359.84	11,574.47	7.59	-65.32	401,254.04	725,891.24	32.101724	-103.737322
11,700.00	46.70	359.84	11,649.04	74.03	-65.51	401,320.48	725,891.05	32.101907	-103.737321
11,800.00	56.70	359.84	11,710.93	152.41	-65.74	401,398.86	725,890.83	32.102123	-103.737320
11,900.00		359.84	11,758.28	240,34	-65.99	401,486.79	725,890.58	32.102364	-103.737320
12,000.00		359.84	11,789.64	335.17	- 66.26	401,581.62	725,890.31	32.102625	-103.737319
12,100.00		359.84	11,804.05	433.99	-66.54	401,680.44	725,890.03	32.102897	-103.737318
12,132.98		359.84	11,805.00	466.96	-66.63	401,713.40	725,889.93	32.102987	-103.737318
12,200.00		359.84	11,805.00	533,98	- 66.82	401,780.42	725,889.74	32,103171	-103,737317
12,300.00		359.84	11,805.00	633.98	-67.11	401,880.42	725,889.46	32.103446	-103.737316
12,400.00		359,84	11,805.00	733.97	-67.39	401,980.42	725,889.17	32.103721	-103.737315
12,500.00		359.84	11,805.00	833.97	-67.68	402,080.42	725,888.89	32.103996	-103,737315
12,600.00		359.84	11,805.00	933.97	-67.96	402,180.42	725,888.60	32.104271	-103,737314
12,700.00		359.84	11,805.00	1,033.97	-68.25 68.54	402,280.42	725,888.32	32.104546	-103.737313
12,800.00		359.84 359.84	11,805.00 11,805.00	1,133.97 1,233.97	-68.54 -68.82	402,380.42 402,480.42	725,888.03 725,887.75	32,104821 32,105096	-103.737312 -103.737311
13,000.00		359.84	11,805.00	1,233.97	-69,11	402,580.42	725,887.46	32,105371	-103.737310
13,100.00		359.84	11,805.00	1,433.97	-69.39	402,680.42	725,887.18	32,105645	-103,737309
13,200.00		359.84	11,805.00	1,533.97	-69.68	402,780.42	725,886.89	32,105920	-103.737309
13,300.00		359.84	11,805.00	1,633.97	-69,96	402,880.42	725,886.61	32.106195	-103.737308
13,400.00		359.84	11,805.00	1,733.97	-70.25	402,980.42	725,886.32	32,106470	-103,737307
13,500.00		359.84	11,805.00	1,833.97	-70.53	403,080,42	725,886.04	32,106745	-103,737306
13,600.00		359,84	11,805.00	1,933.97	-70.82	403,180.42	725,885.75	32,107020	-103,737305
13,700.00		359.84	11,805.00	2,033.97	-71.10	403,280.41	725,885.47	32.107295	-103.737304
13,800.00		359.84	11,805.00	2,133.97	-71.39	403,380.41	725,885,18	32.107570	-103.737303
13,900.00	90.00	359.84	11,805.00	2,233.97	-71,67	403,480.41	725,884.90	32,107844	-103.737302
14,000.00	90.00	359.84	11,805.00	2,333.97	-71.96	403,580.41	725,884.61	32.108119	-103.737302
14,100.00		359.84	11,805.00	2,433.97	-72.24	403,680.41	725,884.33	32.108394	-103.737301
14,150.00	90.00	359.84	11,805.00	2,483.97	-72.38	403,730.41	725,884.18	32,108532	-103.737300
Cross s	ection @ 1415	0' MD, 0' FSL	., 890' FWL						
14,200.00	90.00	359.84	11,805.00	2,533.97	-72.53	403,780.41	725,884.04	32.108669	-103.737300
14,300.00	90.00	359.84	11,805.00	2,633.97	-72.81	403,880.41	725,883.76	32.108944	-103.737299
14,400.00	90,00	359.84	11,805.00	2,733.97	-73.10	403,980.41	725,883.47	32.109219	-103.737298
14,500.00	90.00	359.84	11,805.00	2,833.97	-73.38	404,080.41	725,883.18	32.109494	-103.737297
14,600.00		359.84	11,805.00	2,933.97	-73.67	404,180.41	725,882.90	32.109769	-103.737296
14,700.00		359.84	11,805.00	3,033.97	-73.95	404,280.41	725,882.61	32.110044	-103.737296
14,800.00		359.84	11,805.00	3,133.97	-74.24	404,380.41	725,882.33	32.110318	-103.737295
14,900.00		359.84	11,805.00	3,233.96	-74.52	404,480.41	725,882.04	32,110593	-103.737294
15,000.00		359.84	11,805.00	3,333.96	-74.81	404,580.41	725,881.76	32.110868	-103.737293
15,100.00		359.84	11,805.00	3,433.96	-75.09	404,680.41	725,881.47	32.111143	-103.737292
15,200.00		359.84	11,805.00	3,533.96	-75.38	404,780.41	725,881.19	32,111418	-103.737291
15,300.00	90.00	359,84	11,805.00	3,633.96	-75.66	404,880.40	725,880.90	32,111693	-103,737290

Database EDM r5000.141_Prod US
Company WCDSC Permian NM
Project: Eddy County (NAD 83 NM Eastern)
Site: Sec 25-T25S-R31E
Well: Big Sinks Draw 25-24 Fed Com 611H
Wellbore: Wellbore #1
Design: Permit Plan 1

Big Sinks Draw 25-24 Fed Com 611H

Local:Co-ordinate Reference: Well Big Sinks Draw 25-24 Fed Com 611H
RKB @ 3360.40ft
MD.Reference: RKB @ 3360.40ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey	12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	er y Mil Jadi Ne' e i Fee		14 1 44 12 4 17 1	The second second		CONTRACTOR OF THE CONTRACTOR O	** & ** (** (** (** (** (** (** (** (** (**	
		1. S.	展。實施政				法起始事的领	ATTENDED TO STATE OF	海北市 網盟
Measured	भिन्ने भूत्रपति		Vertical 1			а Мар	Map		The Mary Control of the State o
	Inclination		Depth	+N/-S	+E/-W	Northing	· Easting		
(ft) 1	" (°),	(°) (°)	· j (ft)	(ft)	۶. (ft)	(usft)	(usft)	Latitude :	Longitude
15,400,00	90.00	359.84	11,805.00	3.733.96	-75.95	404,980.40	725.880.62	32.111968	-103.737290
15,500.00	90.00	359.84	11,805.00	3,833.96	-76.23	405,080,40	725,880.33	32,112243	-103.737289
15,600,00	90.00	359.84	11,805.00	3,933.96	-76.52	405,180,40	725,880.05	32,112517	-103.737288
15,700.00	90,00	359.84	11,805.00	4,033,96	-76.80	405,280,40	725,879.76	32,112792	-103,737287
15,800.00	90.00	359.84	11,805,00	4,133.96	-77.09	405,380,40	725,879.48	32,113067	-103.737286
15,900,00	90.00	359.84	11,805.00	4,233.96	-77.37	405,480,40	725,879,19	32.113342	-103,737285
16,000,00	90.00	359.84	11,805.00	4,333.96	-77,66	405,580.40	725,878.91	32.113617	-103.737284
16,100,00	90.00	359.84	11,805.00	4,433.96	-77.94	405,680,40	725,878.62	32,113892	-103.737283
16,200.00	90.00	359.84	11,805.00	4,533.96	-78.23	405,780.40	725.878.34	32,114167	-103,737283
16,300,00	90.00	359.84	11,805.00	4,633.96	-78,51	405,880,40	725,878.05	32.114442	-103.737282
16,400.00	90.00	359.84	11,805,00	4,733.96	-78.80	405,980.40	725,877.77	32.114717	-103,737281
16,500.00	90.00	359.84	11,805.00	4,833.96	-79.08	406,080.40	725,877.48	32.114991	-103.737280
16,600,00	90.00	359.84	11,805.00	4,933.96	-79.37	406,180,40	725,877.20	32,115266	-103,737279
16,700.00	90.00	359.84	11,805.00	5,033.96	-79.65	406,280.40	725,876.91	32.115541	-103,737278
16,800.00	90.00	359.84	11,805.00	5,133.96	-79.94	406,380.40	725,876.63	32.115816	-103.737277
16,900.00	90.00	359,84	11,805.00	5,233.96	-80.22	406,480.40	725,876.34	32.116091	-103.737277
17,000.00	90.00	359.84	11,805.00	5,333.96	-80.51	406,580.39	725,876.06	32,116366	-103,737276
17,100.00	90.00	359.84	11,805.00	5,433.96	-80.79	406,680.39	725,875.77	32.116641	-103.737275
17,200.00	90.00	359.84	11,805.00	5,533.96	-81.08	406,780.39	725,875.49	32,116916	-103.737274
17,300.00	90.00	359.84	11,805.00	5,633.96	-81.36	406,880.39	725,875.20	32.117190	-103.737273
17,400,00	90.00	359.84	11,805.00	5,733.95	-81.65	406,980.39	725,874.92	32.117465	-103.737272
17,500.00	90.00	359.84	11,805.00	5,833.95	-81.93	407,080.39	725,874.63	32.117740	-103.737271
17,600.00	90.00	359.84	11,805.00	5,933.95	-82.22	407,180.39	725,874.35	32.118015	-103.737270
17,700.00	90.00	359.84	11,805.00	6,033.95	-82.50	407,280.39	725,874.06	32.118290	-103.737270
17,800.00	90.00	359.84	11,805,00.	6,133.95	-82.79	407,380.39	725,873.78	32.118565	-103,737269
17,900.00	90.00	359.84	11,805.00	6,233.95	-83.07	407,480.39	725,873.49	32.118840	-103.737268
18,000.00	90.00	359.84	11,805.00	6,333.95	-83.36	407,580.39	725,873.21	32.119115	-103.737267
18,100.00	90.00	359.84	11,805.00	6,433.95	-83.64	407,680.39	725,872.92	32.119390	-103,737266
18,200.00	90.00	359.84	11,805.00	6,533.95	-83,93	407,780.39	725,872.64	32.119664	-103.737265
18,300.00	90.00	359.84	11,805,00	6,633.95	-84.21	407,880,39	725,872.35	32.119939	-103.737264
18,400.00	90.00	359.84	11,805.00	6,733.95	- 84.50	407,980.39	725,872.07	32.120214	-103.737264
18,500.00	90.00	359.84	11,805.00	6,833.95	-84.78	408,080.39	725,871.78	32.120489	- 103.737263
18,600.00	90.00	359.84	11,805.00	6,933.95	-85.07	408,180.38	725,871.50	32.120764	-103,737262
18,700.00	90.00	359.84	11,805.00	7,033.95	- 85,36	408,280.38	725,871.21	32,121039	-103,737261
18,800.00	90.00	359.84	11,805.00	7,133.95	-85.64	408,380.38	725,870.93	32.121314	-103.737260
18,900.00	90.00	359.84	11,805.00	7,233.95	-85.93	408,480.38	725,870,64	32.121589	-103.737259
19,000.00	90.00	359.84	11,805.00	7,333.95	-86.21	408,580,38	725,870.36	32,121863	-103.737258
19,100.00	90.00	359.84	11,805.00	7,433.95	-86.50	408,680.38	725,870,07	32,122138	-103.737257
19,101.67	90,00	359.84	11,805.00	7,435.62	- 86.50	408,682.05	725,870.07	32.122143	-103.737257
	TP @ 19102' I								
19,101.68	90.00	359.84	11,805.00	7,435.63	-86.50	408,682.06	725,870,07	32,122143	-103.737257

Design Targets									l l
· · · · · · · · · · · · · · · · · · ·	ALC: THE	数点于63 0	The second second	1. Met 4. 3	AC 13 37 30	"。「斯姆斯斯思斯」(學的 医外部畸形 医高点	了一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	等的。 等的, 等的, 等的, 可能 可能 可能 可能 可能 可能 可能 可能 可能 可能
Target Name	100	建设位置	an es an inches				3460年8年2	As the work with	特群的基础的
AN OWNER SHAWOLD FIRE TO SELECT							"祖、孙仲立立立 命	經過程數學數學的	元。中国统统"江南"。
- nivmiss target	Angle, D	ip Dir:	NIND A	+N/-S(N)	ALEI-AA WARE	Norming	Leasting V	The state of the s	西京山山 2008年
Shape 3	(1)	(*)	(ft) [5] [3]	(ft)(<); 20;	第:(ft)》》。3000 (プ (usft) 東大阪 #	、(usft)』。・	Latitude	Longitude
1 3 2 2 1 1 2 1 1 2 1 1 2 1 1 C 1 2 1 C 1 2 1	"1.800 pt. 1.1.5	Carried Co. St. 1	EXHIBITING CARACT	Berenden in der	the Cold Marketing	to the second contract of the second	naddilalas Tibinaras Salas in	et esteciment review (1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	and the second second
PBHL - Big Sinks Draw 2	0.00	0.00	0.00	7,435,63	-86.50	408,682,06	725,870,07	32,122143	-103,737257
F Di IL - Dig Oli ika Diaw 1	0.00	0.00	0.00	7, 100,00	-00,00	-100,002.00	720,0,0,0,	OL, ILL I IV	.00.707207

⁻ plan misses target center by 7436.13ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)

⁻ Point

Database EDM r5000.141_Prod US Company: WCDSC Permian NM
Project: Eddy County (NAD 83 NM Eastern)
Site: Sec 25-T25S-R31E
Well: Big Sinks Draw 25-24 Fed Com 611H
Wellbore: Wellbore #1
Permit Plan 1

Local Co-ordinate Reference Well Big Sinks Draw 25-24 Fed Com 611H
TVD Reference RKB @ 3360.40ft
RMD Reference RKB @ 3360.40ft
North Reference Grid
Survey Calculation Method:

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Measured Depth (ft)	Vertical Depth (ft)	Local Coordina +N/-S (ft)	tes +E/-W (ft)	Comment
11,232.98	11,232.04	-106.00	-65.00	KOP @ 11233' MD, 2590' FNL, 890' FWL
11,474.12	11,466.13	-56.00	-65.14	FTP @ 11474' MD, 2540' FNL, 890' FWL
14,150.00	11,805.00	2,483.97	-72.38	Cross section @ 14150' MD, 0' FSL, 890' FWL
19,101.67	11,805.00	7,435.62	-86.50	PBHL & LTP @ 19102' MD, 330' FNL, 890' FWL

Devon Energy

WELL DETAILS: Big Sinks Draw 25-24 Fed Com 611H

RKB @ 3360.40ft 3335.40

Northing Easting Latitude Longitude 401246.45 725956.57 32,101703 -103,73711

devon

