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Form 3160-5 (June 2015) B	UNITED STATES EPARTMENT OF THE I UREAU OF LAND MANA	S NTERIOR GEMENT	NOV 1	9,201	9	FORM OMB NO OMB NO Expires: Ja	APPROVED D. 1004-0137 muary 31, 2018
SUNDRY	NOTICES AND REPO		FLAS, Art		000	5. Lease Serial No. NMLC062300	
Do not use th abandoned we	is form for proposals to II. Use form 3160-3 (AP)	drill or 4000 D) for such	proposals.	iesia	0.0.0.	6. If Indian, Allottee o	r Tribe Name
SUBMIT IN	TRIPLICATE - Other inst	tructions on	page 2			7. If Unit or CA/Agree NMNM134249	ement, Name and/or No.
1. Type of Well	her					8. Well Name and No. BIG SINKS DRAV	V 25-24 FED COM 332H
2. Name of Operator DEVON ENERGY PRODUCT	Contact: ION COM-Mail: jennifer.ha	JENNIFER I rms@dvn.com				9. API Well No. 30-015-44223-0	0-X1
3a. Address 333 WEST SHERIDAN AVEN OKLAHOMA, OK 73102	IUE	3b. Phone No Ph: 405-5	o. (include area 52-6560	code)		10. Field and Pool or I JENNINGS	Exploratory Area
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Description)				11. County or Parish,	State
Sec 25 T25S R31E SENW 24 32.102074 N Lat, 103.735847	83FNL 2160FWL 'W Lon					EDDY COUNTY	Ϋ́, ΝΜ
12. CHECK THE AI	PPROPRIATE BOX(ES)	TO INDICA	TE NATUR	E OF	NOTICE,	REPORT, OR OTH	IER DATA
TYPE OF SUBMISSION			TYF	PE OF A	ACTION		
Notice of Intent.	🗖 Acidize	Dee Dee	pen		Product	on (Start/Resume)	□ Water Shut-Off
Subsequent Report	□ Alter Casing	🗖 Нус	Iraulic Fractu	ring	🗖 Reclama	ation	Well Integrity
	Casing Repair	🗆 Nev	v Constructio	n	Recomp	lete	Other Change to Original A
Final Abandonment Notice	 Change Plans Convert to Injection 	🗖 Pluį 🗖 Pluį	g and Abando g Back	on 🔲 Tempor		rarily Abandon PD Disposal	
13. Describe Proposed or Completed Ope If the proposal is to deepen directions Attach the Bond under which the wor following completion of the involved testing has been completed. Final At determined that the site is ready for final	eration: Clearly state all pertiner ally or recomplete horizontally, it will be performed or provide operations. If the operation res- bandonment Notices must be file inal inspection.	nt details, includ give subsurface the Bond No. of sults in a multip ed only after all	ling estimated s locations and r n file with BLM le completion o requirements, i	starting on measured A/BIA. Friedor recomposition friedor recompos	late of any part d and true ve Required sub pletion in a n g reclamation	roposed work and approx rtical depths of all pertine sequent reports must be ew interval, a Form 3160 h, have been completed an	imate duration thereof. ent markers and zones. filed within 30 days)-4 must be filed once nd the operator has
SHL/BHL/NAME CHANGE							
change on the subject well. Pl	ease see attached revised	d C102, Drill	plan, directio	nal pla	L and have an.	e a name	
-COTTON DRAW MDP 2 Permitted SHL: SENW 2350 F Proposed SHL: SENW, 2483 I Permitted BHL: NENW, 330 F Proposed BHL: NENW, 330 F Permitted Well name: BIG SIN Proposed Well name: BIG SIN	NL, 1345 FWL, 25-25S-3 FNL, 2160 FWL, 25-25S-3 NL, 1980 FWL, 24-25S-3 NL, 2210 FWL, 24-25S-3 IKS DRAW 25-24 FED CO IKS DRAW 25-24 FED CO	1E 31E 1E DM 422H DM 332H			Carl	sbad Fiel OCD Art	d Office esia
14. I hereby certify that the foregoing is	true and correct. Electronic Submission #4	83906 verifie	d by the BLM	Well II	nformation	System	
Com Name (Printed/Typed) JENNIFER	mitted to AFMSS for proce	ssing by PRI	SCILLA PERE	EZ on 0 GULAT	9/18/2019 (ORY COM	19PP3391SE) MPLIANCE ANALYS	т
Signature (Electronic S	ubmission)		Date 00/	18/201	۵		
	THIS SPACE FO	R FEDERA		TE OF)E	<u></u>
						·····	
Approved_By_LONG_VO			TitlePETRO	OLEUN	<u>I ENGINE</u>	ER	Date 11/04/2019
Conditions of approval, if any, are attached. Approval of this notice does not warrant or ertify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office Carlsbad							
Title 18 U.S.C. Section 1001 and Title 43 U States any false, fictitious or fraudulent st	J.S.C. Section 1212, make it a c tatements or representations as t	rime for any pe o any matter wi	rson knowingly thin its jurisdic	y and wi tion.	llfully to mal	te to any department or a	gency of the United
(Instructions on page 2) ** BLM REVI	SED ** BLM REVISED	** BLM RE	VISED ** E	BLM F	REVISED	** BLM REVISED	**

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Prod Co
LEASE NO.:	NMLC062300
WELL NAME & NO.:	332H – Big Sinks Draw 25-24 Fed
SURFACE HOLE FOOTAGE:	2483'/N & 2160'/W
BOTTOM HOLE FOOTAGE	330'/N & 2210'/W
LOCATION:	Section 25, T.25 S., R.31 E., NMPM
COUNTY:	Eddy County, New Mexico

COA

H2S	∩ Yes	@ No	
Potash	None	C Secretary	C R-111-P
Cave/Karst Potential	• Low	✓ Medium	C High
Cave/Karst Potential			
Variance	∩ None	• Flex Hose	C Other
Wellhead	C Conventional	(Multibowl	🕫 Both
Other	□ □ 4 String Area	Capitan Reef	└ WIPP
Other	Fluid Filled	I ⊂ Cement Squeeze	☐ Pilot Hole
Special Requirements	└ Water Disposal	ГСОМ	└ Unit

All Previous COAs Still Apply

A. CASING

Primary Casing Design:

- 1. The 13-3/8 inch surface casing shall be set at approximately 945 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 <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 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.

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.

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

- 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 945 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 <u>8</u>
 <u>hours</u> 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.

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.

Operator has proposed to pump down 13-3/8" X 8-5/8" annulus. <u>Operator must run</u> a <u>CBL from TD of the 8-5/8</u>" 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.

Page 3 of 9

- 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 (5MI)** 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 County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- <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> <u>hours</u>. 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. <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. 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.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not

hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

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

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

D. WASTE MATERIAL AND FLUIDS

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

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

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Rond. Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico RECEIVED Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1 9 2019 1220 South St. Francis Dr. Santa Fe, NM 87 DISTRICT/ARTESIAO.C.D.

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-015-44223	² Pool Code 97860	JENNINGS; BONE SPRING				
⁴ Property Code	⁵ P	roperty Name	* Well Number			
	BIG SINKS DI	RAW 25-24 FED COM	332H			
⁷ OGRID No.	* O	perator Name	⁹ Elevation			
6137	6137 DEVON ENERGY PRODUCTION COMPANY, L.P.					
	" Sı	Inface Location				

UL or lot no. Section Township Range Lot Idn North/South line Feet from the East/West line Feet from the County F 25 25 S 31 E NORTH 2160 WEST EDDY 2483 " Bottom Hole Location If Different From Surface

	UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	C	24	25 S	31 E		330	NORTH	2210	WEST	EDDY
Γ	¹² Dedicated Acres	s ¹³ Joint e	or Infill 14	Consolidation	n Code	· · · · · · · · · · · · ·		¹³ Order No.		
Ż	40									

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	N89'26'37"E 2639.73 FT	N89 45 00 E 2654.21 IT	_	"OPERATOR CERTIFICATION
NW CORNER SEC. 24	2210	N/4 CORNER SEC. 24	NE CORNER SEC. 24	I hereby certify that the information contained herein is true and complete to the
LONG. = 103.7401298W E		LONG. = 103.7316050W	E LONG. = 103.72303337W	best of my knowledge and belief, and that this organization either owns a
NNSP EAST (FT) $\stackrel{\circ}{_{\scriptstyle N}}$	BHLALIP - R	NMSP EAST (FT)	R NMSP EAST (FT) R N = 409040.55	working interest or unleased mineral interest in the land including the proposal
E = 724978.97 S		E = 727618.03	₩ E = 730271.66	hoteon hale location or bas a right to drill this well at this location parsuant to
A.S.	BOTTOM OF HOLE	T	2.E	a contract with an express of such a mineral or proving integer, or to a
13,4	LAT. = 32.1221580'N LONG. = 103.7329944'W	/		a contract want on owner of such a numeral on working marters, or fire
W/4 CORNER SEC. 24	NMSP EAST (FT)		Soo	
LAL = 32.115/84TH LONG = 103.7401427W	E = 727189.75	DNF		in the division.
NUSP EAST (FT)				Konner TUME 9-18-19
N = 406363.89 E = 724989.50 E			E I	Signature Date
1.06			07.6	
264		FIRST TAKE POINT 2538 FNL 2210 FML	26.	
5		LAT. = 32.1015584'N	22 E	Printed Name
	l l	NIASP EAST (FT)]	2.21.6	JENNY.HARMS@DVN.COM
NON NON		N = 401200.96 E = 727211.43	Ğ	E-mail Address
	N89'36'13"E 2651.94 FT	NB9'33'20"E 2654.61 FT		
NW CORNER SEC. 25 LAX. = 32,1085258"N	N/	$4 \text{ CORVER SEC. 25} = 32.1085358'N_1$	LAT. = 32.1085514'N	ISURVEYOR CERTIFICATION
LONG. = 103.7401774W tr	LON	d = 103.7316145₩	$\vdash \text{LONG.} \neq 103.7230430 \text{W}$	best with the the set of the set
N = 403723.39 Q		403741.74	N = 403762.33	Thereby certify that the well tocalion shown on this plat was
E = 724993.28 8		£ = 727644.60	≈ t = /30298.5/	plotted from field notes of actual surveys made by me or under
45.7	83,	BIG SINKS DRAW 25-24 FED COM 332H	115.	my supervision, and that the same is true and correct to the
1.0	- 24	ELEV. = 3335.6^{4}		best of my belief.
W/4 CORNER SEC. 25 2 LAT. = 32.1012691'N		LONG. = 103.7532200 W	LAT = 32.1013031	AND AND ANNILLA
LONG. = 103.7401953W	2160'	NMSP EAST (FT)	LONG. = 103.7230552'W	AUGUST 1. 2019 ARAIMILLO
N = 401083.51	SHL -	E = 727161.32	NMSP EAST (FT) N = 401125.49	Date of Survey & EXICO
E = 725002.28	i entr	1.1	E = 730309.71	
541.6	i l	1	638.0	SECTION AS
3			Ň	V HAVE HIMANA
SW CORNER SEC. 25 ₹	5/4 CORN LAT. = 32	2X SEC. 25 .0939992N	SE CORNER SEC. 25 LAT. = 32.0940530'N	I-A XX/X/XXX/AM/J/A/A
LONG. = 103.74021111W	LONG. = 10	13,7316305W	E LONG. = 103.7230584W	Signature and Serv Of Professional Survey (1944
NMSP EAST (FT) 2 N = 398442.24	I NWSP E N = 3	PSI (FI) 98453.55	N = 398488.02	Certificate Number C LEVEMON F JARAMILLO, PLS 12797
E = 725011.90	E = 72	7669.16	E = 730323.64	EREPPKO SURVEY NO. 7458
	303 43 23 W 2037.84 FI	11 02.000 m 22 0 000		

Rul 11-25-19

ntent X As Drilled		
AP! #		
Operator Name:	Property Name:	Well Number
DEVON ENERGY PRODUCTION CO., L.P.	BIG SINKS DRAW 25-24 FED COM	332H

Kick Off Point (KOP)

UL F	Section 25	Township 25S	Range 31E	Lot	Feet 2589 FNL	From N/S	Feet 2210 FW	From E/W	County 83	
Latitu 32.1	_{de} 01418				Longitude -103.733	061			NAD 83	

First Take Point (FTP)

UL F	Section 25	Township 255	Range 31E	Lot	Feet 2538	From N/S NORTH	Feet 2210	D From E/W WEST	County EDDY
Latitu	Latitude 32.1015584				Longitude 10 3	8.7330591	•		NAD 83

Last Take Point (LTP)

UL C	Section 24	Township 255	Range 31E	Lot	Feet 330	From N/S NORTH	Feet 2210	From E/W WEST	County
Latitude 32.1221580				Longitud	^{ie} 103.732	9944		NAD 83	

YES

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

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 06/29/2018

















Big Sinks Draw 25-24 Fed Com 332H

1. Geologic Formations

TVD of target	11615	Pilot hole depth	N/A
MD at TD:	18915	Deepest expected fresh water	

Basin

Formation	Depth (TVD)	Water/Mineral Bearing/Target Zone?		Hazards*
Rustler	950			<u>Berne and an anna an a</u>
Salt	1315			
Base of Salt	4120			
Delaware	4350		1	
Bone Spring 1st	8325			
Bone Spring 2nd	9610			
Bone Spring 3rd	10480			
Wolfcamp	11670			
·				

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

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.Devon - Internal

2. Casing I	i ogi ani (i i i	mary Design)				-ii				
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	9635 TVD	7 5/8	29.7	P110	Flushmax III	1.125	1.25	1.6	FILLE
6 3/4	0	TD	5 1/2	20.0	P110	Vam SG	1.125	1.25	1.6	
		18915 MD 11615 TVD		BLM N	/inimum Sa	fety Factor	1.125	1	1.6 Dry 1.8 Wet	

2. Casing Program (Primary Design)

• 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.

										_
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	9635 TVD	8 5/8	32.0	P110	TLW	1.125	1.25	1.6	Fille
7 7/8	0	TD	5 1/2	17.0	P110	BTC	1.125	1.25	1.6	
				BLM N	⁄Iinimum Sat	fety Factor	1.125	1	1.6 Dry	

Casing Program (Alternative Design)

• 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.

	YorN
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specificition 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 nine be kent at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating	
of the casing?	Y
	State Later
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.	
	A State of the
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?	

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5. Cementing Program	(rimary Des	gn)				-
Casing	# Sks	TOC	Wt. (İb/gal)	Yld (ft3/sack)	Slurry Description	
Surface	744	Surf	13.2	1.44	Lead: Class C Cement + additives	
	865	Surf	9	3.27	Lead: Class C Cement + additives	
Int I	104	4000' above shoe	13.2	1.44	Tail: Class H / C + additives	
	750	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	سعلن
	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	865	Surf	9	3.27	Lead: Class C Cement + additives	
Squeeze	104	4000' above shoe	13.2	1.44	Tail: Class H / C + additives	
Production	55	9135	9.0	3.3	Lead: Class H /C + additives	6649
FIGUELION	502	. 11043	13.2	1.4	Tail: Class H / C + additives	2500

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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%

3. Cementing Program	Alternative L	Design)			
Casing	#Sks	тос	wt ppg⊘	Yld (ft3/sack),	Slurry Description-
Surface	744	Surf	13.2	1.44	Lead: Class C Cement + additives
	551	Surf	9	3.27	Lead: Class C Cement + additives
Int I	67	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
	440	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	551	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	67	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
nt 1 (10 625" Hole Size)	823	Surf	9	3.27	Lead: Class C Cement + additives
in 1 (10.025 11010 SIZC)	105	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
Draduation	111	9135	9.0	3.3	Lead: Class H /C + additives
Floauction	1042	11043	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%

4. Pressure Control Equipment (Inree String Design
--

BOP installed and tested before drilling which hole?	Size?	Min. Require d WP/	т. С. 1	ype	с. 15 ж 16 с. 15 16 с. 15 с.		Tested to:		
			An	nula		X	50% of rated working pressure		
Int 1	12 50"	514	Blind	d Ra	m	Х			
Int i	15-58	5111	Pipe	Rai	n		51/		
			Doub	le R	am	Х	JIVI		
			Other*						
			Annul	ar (5	5M)	Х	50% of rated working pressure		
Production	13-5/8"	514	Blind Ram		m	Х			
		15-5/0	13-3/0	13-3/8 3	13-3/8"	5114	JIVI	Pipe Ram	
			Double Ram		am	Х	5171		
· · · · · · · · · · · · · · · · · · ·			Other*						
			Annul	ar (5	M)				
			Blind	i Ra	m				
			Pipe	Rai	n				
			Doub	le R	am				
			Other*						
N A variance is requested for	the use of a d	diverter on	the surface	casi	ng. See a	ttached for sc	chematic.		
Y A variance is requested to 1	un a 5 M anr	ular on a	10M system						

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5. Mud Program (Three String Design)

Section	Туре	Weight (ppg)	
Surface	FW Gel	8.5-9	1
Intermediate	DBE / Cut Brine	10-10.5	
Production	OBM	8.5-9	

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 Rpeort and sbumitted 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.

Additional	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	5436
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.

NH2S is presentYH2S 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.

Attachments

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 332H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

11 September, 2019

Database: Company: Project: Site: Well: Well: Well: Design: Project: Map System: Geo Datum: Map Zone:	EDM r5000.1 WCDSC Perm Eddy County Sec 25-T25S- Big Sinks Dra Wellbore #1 Permit Plan 1 Eddy County (I US State Plane North American New Mexico Eas	41_Prod US nian NM (NAD 83 NM East R31E w 25-24 Fed Com NAD 83 NM Easte 1983 Datum 1983 stern Zone	ern) 332H	Local Co-oro TVD:Referent MD:Referent Survey Caici	inate Refere ce nce liation.Metho	nce: Well Bi RKB @ RKB @ Grid Minimu Mean Se	g Sinks Draw 2 3360.60ft 3360.60ft Im Curvature	25-24 Fed Com (332H
Site Site Position: From: Position Uncertainty:	Sec 25-T25S-F	R31E No Ea 5.00 ft Si	orthing: Isting: ot Radius:	403,72 724,99	3.39 usft L 3.28 usft L 13-3/16 " Q	atitude: ongitude: id Convergence:	an a	k uut hindud shaad a shaan a	32.108526 -103.740178 0.32 °
Well Well Position Position Uncertainty	Big Sinks Draw +N/-S +E/-W	25-24 Fed Com 3 0.00 ft 0.00 ft 0.50 ft	Northing: Easting: Wellhead Elevatio	on:	401,255.80 u 727,161.32 u	isft Latitude: sft Longitude Ground Lo	: evel:		32.101710 -103.733220 3,335.60 ft
Wellbore	Wellbore #1	ne Sa F2015	mpie/Date 9/9/2019	Declinatio	n 6.78	Dip Angle ,	59.90	Field Strengt (nT) 47,620.334	36471
Design Audit Notes: Version: Vertical Section	Permit Plan 1	Pi /uc/,Depth/From (ft) 0.00	hase: Pf	ROTOTYPE 11/15 (iii) 0.00	Tie C +E/-1 (ft) 0.00	Dn Depth:	0.00 Direction 0.22		
IPlan Survey Tool Pro Depth From (ft) 1 0.00	rgram Depth To (ft) 18,915.05 F	Date 9/11/2019 Survey (Wellbore) Permit Plan 1 (Wel	libore #1)	stool/Name MWD+HDGM OWSG MWD + H	IDGM	Rêmarks			
Plan Sections, 4 Measured Depth , inclin ((ft) 0.00	ation Azimu) (?), 0.00	Vertical th Depth (ft) (ft) 0.00 0.0	+ N/S (ft)	+E/-W (ff) 0.00	Doğleg Rate 100ustt) 0.00	(Build Rate) Rate (7/100usti) (7/100 0.00	rn të usft), s	FO 1977	Target
2,600.00 2,683.70 10,637.05 10,692.85 11,042.89 11,942.90 18,915.05	0.00 0.84 15 0.84 15 0.00 0.00 90.00 35 90.00 35	0.00 2,600.0 54.75 2,683.7 54.75 10,636.2 0.00 10,692.0 0.00 11,042.0 59.84 11,615.0 59.84 11,615.0	0 0.00 0 -0.55 0 -105.63 0 -106.00 14 -106.00 14 466.96 10 7,439.09	0.00 0.26 49.83 50.00 50.00 48.36 28.43	0.00 1.00 0.00 1.50 0.00 10.00 0.00	0.00 1.00 0.00 -1.50 0.00 10.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 154.75 0.00 180.00 0.00 359.84 PBHL - 0.00 PBHL -	Big Sinks Dra [,] Big Sinks Dra [,]

Database Company: Project Site Well: Wellbore: Design.	EDM r5 WCDS0 Eddy C Sec 25- Big Sinl Wellbor Permit I	000.141_Pro C Permian N ounty (NAD T25S-R31E ks Draw 25-2 re #1 Plan 1	M M 83 NM Eastern 24 Fed Com 33	ารักรรัฐการณ์สุดภัณย์) 2H	Local Co TVO Ref MD Refe North Re Survey (ordinăte Refere erence rence ference alculătion Metho	nce: Well E RKB (RKB (Grid Minim	Well Big Sinks Draw 25-24 Fed Com 332H RKB @ 3360.60ft RKB @ 3360.60ft Grid Minimum Curvature			
Planned Survey Measured Depth (ft)	s Inclination	Azimuth	Vertical Depth	, +N/-S↓ (ft)	+E/-W -(ft)	Map Northing (usft)	Map Easting (üstt)	Latitude	Longituge		
0.00	0.00	0.00	0.00	0.00	0.00	401 255 80	727 161 32	32 101710	-103 733220		
100.00	0.00	0.00	100.00	0.00	0.00	401,255,80	727:161.32	32.101710	-103,733220		
200.00	0.00	0.00	200.00	0.00	0.00	401,255.80	727,161.32	32,101710	-103,733220		
300.00	0.00	0.00	300.00	0.00	0.00	401,255.80	727.161.32	32,101710	-103.733220		
400.00	0.00	0.00	400.00	0.00	0.00	401,255.80	727,161.32	32.101710	-103.733220		
500.00	0.00	0.00	500.00	0.00	0.00	401,255.80	727,161.32	32,101710	-103.733220		
600.00	0.00	0.00	600.00	0.00	0.00	401,255.80	727,161.32	32.101710	-103.733220		
700.00	0.00	0.00	700.00	0.00	0.00	401,255.80	727.161.32	32.101710	-103.733220		
800,00	0.00	0.00	800,00	0.00	0.00	401,255.80	727,161.32	32,101710	-103.733220		
1 000 00	0.00	0.00	1 000 00	0.00	0.00	401,255.80	727,101.32	32.101710	-103.733220		
1 100 00	0.00	0.00	1,000,00	0.00	0.00	401,255,80	727,101.32	32 101710	-103 733220		
1,200.00	0.00	0.00	1,200,00	0,00	0.00	401,255,80	727.161.32	32,101710	-103.733220		
1,300.00	0.00	0.00	1,300.00	0.00	0.00	401,255.80	727,161.32	32,101710	-103,733220		
1,400.00	0.00	0.00	1,400.00	0.00	0.00	401,255.80	727.161.32	32,101710	-103.733220		
1,500.00	0.00	0.00	1,500.00	0.00	0.00	401,255.80	727.161.32	32.101710	-103.733220		
1,600,00	0.00	0.00	1,600,00	0.00	0.00	401,255.80	727.161.32	32,101710	-103,733220		
1,700.00	0.00	0.00	1,700.00	0.00	0.00	401,255.80	727,161.32	32.101710	-103.733220		
1,800.00	0.00	0.00	1,800.00	0.00	0.00	401,255.80	727,161.32	32.101710	-103.733220		
1,900.00	0.00	0.00	1,900.00	0.00	0.00	401,255.80	727.161.32	32.101710	-103.733220		
2,000,00	0.00	0.00	2,000,00	0.00	0.00	401,255.80	727.161.32	32,101710	-103,733220		
2,100.00	0.00	0.00	2,100.00	0.00	0.00	401,255,80	727 161 32	32.101710	-103.733220		
2,200,00	0.00	0.00	2,200.00	0.00	0.00	401 255 80	727,101.32	32 101710	-103 733220		
2,400,00	0,00	0,00	2,400.00	0.00	0.00	401,255,80	727,161,32	32,101710	-103.733220		
2,500.00	0.00	0,00	2,500.00	0.00	0.00	401,255.80	727,161.32	32.101710	-103.733220		
2,600.00	0.00	0.00	2,600.00	0.00	0.00	401,255.80	727,161.32	32.101710	-103.733220		
2,683.70	0.84	154,75	2,683.70	-0.55	0.26	401,255.25	727,161,58	32,101708	-103,733219		
2,700.00	0.84	154.75	2,700.00	-0.77	0.36	401,255.03	727,161,68	32,101708	-103.733219		
2,800.00	0.84	154,75	2,799.98	-2.09	0.99	401,253.71	727.162.30	32.101704	-103.733217		
2,900.00	0.84	154,75	2,899.97	-3.41	1.61	401,252.39	727,162.93	32,101701	-103.733215		
3,000.00	0.84	154.75	2,999.96	-4.73	2.23	401,251.07	727.163.55	32.101697	-103.733213		
3,100,00	U.84	154.75	3,099,95	-6,05	2,86	401,249.75	121.164.17	32,101693	-103,/33211		
3,200,00	0.04	154 75	3 299 93	-1.37	3.48 1 10	401,248.42	121.104.19 727 165 42	32,101090	-103.733209		
3,400.00	0.84	154.75	3,399.92	-10.02	4.72	401.245.78	727.166.04	32.101682	-103.733205		
3,500.00	0.84	154,75	3,499,91	-11.34	5.35	401,244,46	727,166,66	32,101679	-103.733203		
3,600.00	0.84	154.75	3,599,90	-12.66	5.97	401,243.14	727.167.29	32.101675	-103,733201		
3,700.00	0.84	154.75	3,699.89	-13.98	6.59	401,241.82	727,167.91	32.101671	-103,733199		
3,800.00	0.84	154.75	3,799.88	-15.30	7.22	401,240.50	727.168.53	32.101668	-103.733197		
3,900.00	0.84	154.75	3,899.87	-16.62	7.84	401,239,18	727,169.16	32,101664	-103,733195		
4,000.00	0.84	154.75	3,999.86	-17.94	8.46	401,237.86	727.169.78	32,101660	-103.733193		
4,100.00	0.84	154,/5	4,099,85	-19.26	9.09	401,236.53	727,170.40	32.101657	-103./33191		
4,200.00	0.64	104.70	4,199.04	-20.59	9.71	401,235.2	727.171.03	32.101055	103 733187		
4,300,00	0.04	154.70	4,233.02 1 300 81	-21.91	10.33	401,200,00	727 172 27	32,101050	-103 733185		
4,400.00	0.84	154 75	4 499 80	-24 55	11.58	401 231 25	727,172,90	32,101642	-103 733183		
4 600 00	0.84	154 75	4 599 79	-25.87	12.20	401,229,93	727,173 52	32,101639	-103 733181		
4,700.00	0.84	154.75	4,699,78	-27.19	12.83	401.228.61	727.174.14	32.101635	-103.733179		
4,800.00	0.84	154.75	4,799.77	-28.51	13.45	401,227.29	727,174,77	32,101631	-103.733177		
4,900.00	0.84	154.75	4,899.76	-29.83	14.07	401,225.96	727,175.39	32.101628	-103.733175		
5,000.00	0.84	154.75	4,999.75	-31.16	14.70	401,224.64	727.176.01	32,101624	-103.733173		
5,100.00	0.84	154.75	5,099.74	-32.48	15,32	401,223.32	727.176.64	32,101620	-103.733171		
5,200.00	0.84	154.75	5,199.73	-33.80	15.94	401,222.00	727,177,26	32,101617	-103,733169		
5,300.00	0.84	154.75	5,299.72	-35.12	16.57	401,220.68	727,177.88	32.101613	-103.733167		

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COMPASS 5000.14 Build 85

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Database EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Big Sinks Draw 25-24 Fed Com 332H	14
Company:	TVD Reference:	RKB @ 3360.60ft	
Project: Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3360.60ft	r r
Site: Sec 25-T25S-R31E	North Reference:	Grid	1
Well: Big Sinks Draw 25-24 Fed Com 332H	Survey Calculation Method	Minimum Curvature	ł
Weilbore: Wellbore #1			Ъ ф
Design:	the first of the second se	j Internet and the second sec	ł
Planned Survey	The second s	ಮಾಡಿಕಾರ್ಯವರ್ಷ ಸಂಪುನಕ್ಷ ಕೇಳೆ ಕಾರ್ಯವರ್ಷ ಮೊದಲಾಗಿ ವಿಷದಾಗಿ ಕೊಳಗೆ ಹಿಲ್ಲರು ವರ್ಷಗಳಲ್ಲಿ ವರ್ಷಗಳ ಗಾಹಿತ	•
			+

1.15	Measured A	192 - 11 - 11 - 12 - 13		Vertical	的时间上的空中		Map	Map		
3.8	Depth,	Inclination	Azimuth	Depth	+N/-S	+E/-W - 14	Northing	Easting		
1.0	(ft)	***************************************			(ft)	(ft)	(usft)	usft)	Latitude	Longitude
1.13	าว กับไม่เริ่มได้		anaristi.		and the second	i Presidente	和""""。"我们是是	12 - CI I - CI	al a REEPALADO	
1	5,400.00	0.84	154.75	5,399.71	-36.44	17.19	401,219.36	727.178.51	32,101610	-103.733165
	5,500.00	0.84	154.75	5,499.70	-37.76	17.81	401,218.04	727,179.13	32,101606	-103.733163
	5,600.00	0.84	154.75	5,599.69	-39.08	18.44	401,216.72	727,179.75	32,101602	-103.733161
	5,700.00	0.84	154.75	5,699.68	-40.40	19.06	401,215.40	727,180,37	32,101599	-103,733159
1	5,800.00	0.84	154.75	5,799.66	-41.72	19.68	401,214.07	727.181.00	32.101595	-103,733157
	5,900.00	0.84	154./5	5,899.65	-43.05	20.30	401,212.75	727,181.62	32,101591	-103.733155
	6,000.00	0.84	154.75	5,999.64	-44.37	20.93	401,211.43	727,182.24	32.101588	-103.733153
	6,100.00	0.84	154.75	6,099.63	-45.69	21.55	401,210.11	727,182.87	32.101584	-103.733151
	6,200.00	0.84	154.75	6,199.62	-47.01	22.17	401,208.79	/27,183,49	32,101580	-103,733149
	6,300.00	0.84	154.75	6,299.61	-48.33	22.80	401,207,47	727,184.11	32.101577	-103.733147
1	6,400.00	0.84	154.75	6,399.60	-49.65	23.42	401,206.15	727,184.74	32.101573	-103.733145
	6,500.00	0.84	154.75	6,499.59	-50.97	24.04	401,204.83	727.185.36	32.101569	-103.733144
	6,600,00	0.84	154.75	6,599.58	-52.29	24.67	401,203.50	727,185.98	32.101566	-103.733142
-	6,700.00	0.84	154.75	6,699.57	-53.62	25.29	401,202.18	727,186.61	32.101562	-103,733140
	6,800.00	0.84	154.75	6,799.56	-54.94	25.91	401,200.86	727,187.23	32,101559	-103.733138
	6,900.00	0.84	154.75	6,899.55	-56.26	26.54	401,199.54	727,187.85	32.101555	-103.733136
	7,000.00	0.84	154.75	6,999.54	-57,58	27.16	401,198.22	727.188.48	32,101551	-103,733134
	7,100.00	0.84	154.75	7,099.53	-58.90	27.78	401,196.90	727,189.10	32.101548	-103.733132
	7,200.00	0.84	154.75	7,199.52	-60.22	28.41	401,195.58	727,189.72	32.101544	-103.733130
	7,300.00	0.84	154.75	7,299.50	-61.54	29.03	401,194.26	727,190.35	32.101540	-103.733128
	7,400.00	0.84	154.75	7,399.49	-62.86	29.65	401,192.94	727,190.97	32,101537	-103,733126
	7,500.00	0.84	154.75	7,499.48	-64.19	30,28	401,191.61	727,191.59	32.101533	-103.733124
1	7,600.00	0.84	154.75	7,599.47	-65.51	30.90	401,190.29	727.192.22	32.101529	-103.733122
ĺ	7,700.00	0.84	154.75	7,699.46	-66.83	31.52	401,188.97	727,192.84	32.101526	-103,733120
	7,800.00	0.84	154.75	7,799.45	-68.15	32.15	401,187.65	727,193.46	32,101522	-103.733118
	7,900.00	0.84	154.75	7,899.44	-69.47	32.77	401,186.33	727,194.08	32.101518	-103.733116
	8,000,00	0.84	154.75	7,999.43	-70.79	33,39	401,185.01	/2/,194./1	32.101515	-103.733114
	8,100.00	0,84	154,75	8,099.42	-72.11	34.02	401,183.69	727,195,33	32,101511	-103.733112
	8,200.00	0.84	154.75	8,199.41	-/3.43	34.64	401,182.37	727,195,95	32.101508	-103.733110
	8,300.00	0.84	154.75	8,299,40	-/4,/5	35,26	401,181.04	727,196.58	32.101504	-103,733108
	8,400.00	0.84	154.75	8,399.39	-76.08	35.88	401,179.72	727,197.20	32,101500	-103.733106
	8,500.00	0.84	154.75	8,499.38	-77.40	36,51	401,178.40	727,197.82	32.101497	-103.733104
	8,600.00	0.84	154.75	8,599.37	-78.72	37,13	401,177.08	727,198.45	32.101493	-103.733102
	8,700.00	0.04	154.75	8,099,30	-80.04	37.75	401,175.76	727.199,07	32,101489	-103,733100
ł	8,600.00	0.04	154.75	0,799.34	-01.30	30.30	401,174.44	727,199.09	32.101486	-103,733098
	8,900.00	0.04	154.75	8,699,33	-62.66	39.00	401,173,12	727,200.32	32.101482	-103,733096
	9,000.00	0.04	154.75	0,999.32	-04.00	39.02	401,171.00	727,200,94	32.101478	-103.733094
	9,100.00	0.84	154.75	9,099.31	-05.52	40.25	401,170.46	727,201.00	32,101475	-103,733092
ľ	9,200.00	0.84	154.75	9,199.30	-87.97	40.07	401,103.13	727,202.19	32,101471	-103.733090
	9,300.00	0.84	154.75	0 200 28	-07.97	41.43	401,107.03	727,202.01	32.101460	103.733000
	9,400.00	0.84	154,75	9,399,20	-09.29	42.12	401,100.51	727,203.45	32,101464	-103,733084
	9,000.00	0.84	154.75	9,433.27	-91.93	42.74	401,103,13	727,204.00	32.101460	-103 733082
1	9,000.00	0.84	154.75	9,699,25	-93.25	43.99	401 162 55	727 204.00	32 101453	-103 733080
Ì	9,700.00	0.04	154.75	9,033.23	-93.23	43.55	401,102.00	727,205,00	32.101433	-103.733078
	9,000,00	0.84	154.75	0,700,24	05.80	45.01	401,101,20	727,205.55	32 101446	-103 733076
	9,900.00	0.04	154.75	9,099.23	-93.89	45.25	401,159.51	727,200.33	32.101440	-103 733074
	10,000.00	0.04	154.75	10 000 21	-07.21	45.00	401 157 26	727 207 80	32 101442	-103 733072
	10,100.00	0.04	154.75	10,099.21	-50,54	40,40	401,107.20	121,201,00 100,000	32.101430	-103.733072
	10,200.00	0,04	154.75	10,199,20	-33.00	47.10	401,100.94	727 200.42	32.101433	-103.733070
	10,000,00	0.04	104.10	10,299,10	107.10	41.13	401,104.02	727,200.04	22 101401	-103,733000
	10,400.00	0.04	104.10	10,000.17	102.30	40.33	401,100.00	727 240 20	32.101421 23.401434	-103.733000
	10,500.00	0.64	104./0	10,499,10	105.02	40,97	401,131.90	727,210.29	32.101424	103.733064
	10,000.00	0.04	154./5	10,099,10	-100,14	43.00	401,150.00	727 211 14	32,101420	-103,733062
	10,037.03	0.04	0.00	10,030,20	105.03	40.00	401,150,17	727,211,14	32.101413	-103.733001
	10,092.05	0.00	0.00	10,002.00	-100.00	50.00	401,148.00	121,211.02	JZ. 10 14 10	-103,133001

COMPASS 5000.14 Build 85

Databaea	FDM	r5000 141 P	rod US	en mentes	bocal Co	ordinate Referen	Well Bir	Sinks Draw 25-24 Fed (om 332H	
Company:	WCD	SC Permian I	NM		TVD Ref	TVDReference:				
(Project:	Eddy	County (NAD	83 NM Easter	n)	MD Refe	rence:	RKB @	3360,60ft		
Site:	Sec 2	5-T25S-R31E	Ξ		North Re	ference:	Grid		:.	
Well:	Big Si	inks Draw 25	-24 Fed Com 3	32H	Survey C	alculation Metho	d Minimu	m Curvature	·,	
Wellbore:	wellb	ore #1							,	
Design:	Permi	it Plan 1		مرجعه معاريهم والعمل	E 894 (#1				د د وره مستعدد اد و	
Planned Survey	75 T 3- GP	وسرود بعالم مري	talah ni iainki ili ili ili	THE REPORT OF S	198 300 mm 198 12.19	e i a kilika ok ikalang sasari tob	C. 2017 Take a Horac Take - 47 A. 2. 1. P	معن الا العلم علام علام العلم العلم العام العلم العام العلم العلم العلم العلم العلم العلم العلم الع	Frank and she det, drive a	
President Courtey	· · · · · · · · · · · · · · · · · · ·				and the state of the	FTERMEN	NEW WARK	Wards West	parties - stranger and	
Measured	a of a solar same		Vertical			Map	Map	and the second		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting			
2 (ft) - 2 - 3	(°)&	(°)	(ft):	(ft), (ft),	(ft),	(usft)	(usft)	Latitude	Longitude	
10,700.00	0.00	0.00	10,699,15	-106.00	50.00	401,149.80	727,211.32	32,101418	-103.733061	
10,800.00	0.00	0.00	10,799.15	-106.00	50.00	401,149.80	727,211.32	32.101418	-103.733061	
10,900.00	0.00	0.00	10,899.15	-106.00	50.00	401,149.80	727,211.32	32,101418	-103.733061	
11,000.00	0.00	0.00	10,999.15	-106.00	50.00	401,149.80	727,211.32	32.101418	-103.733061	
11,042.89	0.00	0.00	11,042.04	-106.00	50.00	401,149.80	727,211.32	32,101418	-103.733061	
KOP@1	1043' MD, 258	39' FNL, 2210	' FWL	102.16	40.00	404 450 64	707 014 24	22 401426	103 733004	
11,100.00	15 71	359.84	11 197 19	-103.16	49.99	401,152.64	727,211.31	32.101420	-103.733061	
11,284,04	24,11	359,84	11,276,13	-56.00	49.86	401,199.80	727,211,17	32,101555	-103,733060	
FTP@1	1284' MD. 253	8' FNL. 2210'	FWL				,			
11,300.00	25.71	359.84	11,290.60	-49.28	49.84	401,206.52	727,211.15	32.101574	-103.733060	
11,400.00	35,71	359.84	11,376,47	1.73	49.69	401,257,53	727,211.01	32.101714	-103.733060	
11,500.00	45.71	359,84	11,452.18	66.87	49.51	401,322.67	727,210.82	32,101893	-103.733059	
11,600.00	55.71	359.84	11,515.42	144.17	49.28	401,399.97	727,210.60	32.102105	-103,733058	
11,700.00	75 71	359.84	11,564.28	231.27	49.04	401,487.07	727,210.35	32,102345	-103,/33058	
11,900.00	85.71	359.84	11 613 39	424 10	48.48	401 679 90	727,209,80	32,102804	-103,733057	
11,942.90	90,00	359,84	11,615.00	466.96	48.36	401,722.75	727,209,68	32,102993	-103,733056	
12,000.00	90.00	359.84	11,615.00	524.06	48.20	401,779.86	727,209.51	32,103150	-103.733055	
12,100.00	90.00	359.84	11,615.00	624.06	47.91	401,879.86	727,209.23	32.103425	-103.733054	
12,200.00	90.00	359,84	11,615.00	724.06	47.63	401,979.86	727,208.94	32,103700	-103,733053	
12,300.00	90.00	359.84	11,615.00	824.06	47.34	402,079.86	727,208.66	32,103974	-103.733053	
12,400.00	90.00	359.84	11,615.00	924.06	47.06	402,179.86	727,208.37	32.104249	-103.733052	
12,500.00	90.00	359,84	11,615.00	1,024.06	46.77	402,279.86	/2/,208.09	32,104524	-103.733051	
12,000,00	90.00	359.84	11,615,00	1,124.00	46.46	402,379.80	727,207.60	32,1047,59	-103,733030	
12,700.00	90.00	359.84	11.615.00	1.324.06	45.91	402,579.85	727,207.23	32,105349	-103,733048	
12,900.00	90.00	359.84	11,615.00	1,424.06	45.63	402,679.85	727,206.94	32,105624	-103.733047	
13,000.00	90,00	359,84	11,615.00	1,524.06	45.34	402,779.85	727,206.66	32,105899	-103.733046	
13,100.00	90.00	359.84	11,615.00	1,624.06	45.05	402,879.85	727,206.37	32.106173	-103.733046	
13,200.00	90.00	359.84	11,615.00	1,724.06	44.77	402,979.85	727,206.08	32.106448	-103,733045	
13,300.00	90.00	359.84	11,615.00	1,824.06	44.48	403,079.85	727,205.80	32.106723	-103.733044	
13,400.00	90.00	359.84	11,615.00	1,924.06	44.20	403,179,85	727,205,51	32.106998	-103.733043	
13,500.00	90.00	359,64	11,615,00	2,024.05	43.91	403,279,85	727,205,23	32,107273	-103.733042	
13,700.00	90.00	359,84	11,615.00	2.224.05	43,34	403,479,85	727,204.65	32,107823	-103,733040	
13,800.00	90.00	359,84	11,615.00	2,324.05	43.05	403,579.85	727,204.37	32,108098	-103,733039	
13,900.00	90,00	359.84	11,615.00	2,424.05	42.77	403,679.85	727,204.08	32,108373	-103,733039	
13,959.00	90.00	359.84	11,615.00	2,483.05	42.60	403,738.85	727,203.91	32.108535	-103.733038	
Cross se	ction @ 13959	9' MD, 0' FSL,	, 2210' FWL							
14,000.00	90.00	359.84	11,615.00	2,524.05	42.48	403,779.85	727,203.80	32,108647	-103,733038	
14,100.00	90.00	359.84	11,615.00	2,624.05	42.20	403,879.85	727,203.51	32,108922	-103.733037	
14,200.00	90.00	359.04	11,615,00	2,724.05	41.91	403,979.05	727,203.23	32.109197	-103.733035	
14,300,00	90.00	359.84	11.615.00	2,024.05	41.34	404 179 84	727 202.94	32 109472	-103 733034	
14,500,00	90.00	359.84	11,615.00	3,024.05	41.05	404.279.84	727.202.37	32.110022	-103.733033	
14.600.00	90.00	359.84	11,615.00	3,124.05	40.77	404,379.84	727,202.08	32.110297	-103.733032	
14,700.00	90.00	359.84	11,615.00	3,224.05	40.48	404,479.84	727,201.80	32.110572	-103.733032	
14,800.00	90.00	359.84	11,615.00	3,324.05	40.19	404,579.84	727,201.51	32,110846	-103.733031	
14,900.00	90.00	359.84	11,615.00	3,424.05	39.91	404,679.84	727,201.22	32,111121	-103,733030	
15,000.00	90.00	359.84	11,615.00	3,524.05	39,62	404,779.84	727,200.94	32.111396	-103.733029	
15,100.00	90.00	359.84	11,615.00	3,624.05	39.34	404,879.84	727,200.65	32.111671	-103.733028	
15,200.00	90.00	359.84	11,615.00	3,724.05	39.05	404,979.84	/27,200,37	32,111946	-103./33027	
15,300.00	90,00	309.84	11,010,00	3,024,05	30.10	403,079,04	121,200,08	32.112221	-103./33020	

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COMPASS 5000.14 Build 85

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Database	FDM rf	5000 141 Pr	od US	111-12X	l ocal Co	ordinate Refer	well Big S	inks Draw 25-24 Fed Co	om 332H
Company:	- WCDS	C Permian N	IM .			rence	RKB @ 3	360 60ft	•
Project	େନ୍ଦ୍ର ଅନିଥି Eddy C	ounty (NAD	83 NM Faster	n)	MD Pofor	277. 11 - 19 A	PKB @ 3	360 60ft	
Site Philippe water	Sec 25	-T25S-R31F		.,	Morth Par		Grid	00.00h	
Maller Sinks Provide Start Sinks Drow 25 24 End Com 222H							A Minimum	Cuproturo	•
Wen.		ns Diaw 20-	24 1 80 0000 3	5211	Survey C	Method Street	Constant and the second se	Guivaluie	
Weildore:	Vendo								
	Permit	Plan 1	••••		مدينة مناهيد س		and a start and a start and a start a s	· · · · · · · · ·	
Planned Survey	in all the state of the second se	14 F 18 A L 2 4 RL 20 F	Calification and a second	an a	A content of design and design	e in a ser en	a lifete un ser a se a la mili	a a construction of the second s	
The second states and		C. ARA	A	S ALLAN		No. 2 March 19 March	TEN RUNCE IN		
Measured			Vertical			Map	Map	and the second secon Second second	
Depth	clination	Azimuth	Depth	+N/S	+FI-W	Northing	Easting	Sec. State State State State	24 M 10 - 13 M 10 - 14 M
: (ff) 화 (a)	· (°)	"(°) ²⁴	(ft)	(ft)	(ft)	(usft)	(usft)	Lătitude	Longitude
	1994, TAALON	空間後により	in the first start of the second		8 3 169 3 3 63 10	A. 65.78.24 S			
15,400.00	90.00	359.84	11,615.00	3,924.05	38,48	405,179.84	727,199.80	32.112496	-103,733025
15,500.00	90.00	359.84	11,615.00	4,024.05	38.19	405,279.84	727,199.51	32.112771	-103.733025
15,600,00	90,00	359,84	11,615.00	4,124.05	37.91	405,379.84	727,199.22	32.113046	-103.733024
15,700,00	90.00	359.84	11,615.00	4,224.05	37.62	405,479.84	727,198.94	32,113320	-103,733023
15,800,00	90,00	359.84	11,615.00	4,324.05	37.34	405,579,84	727,198,65	32,113595	-103,733022
15,900.00	90,00	359.84	11,615.00	4,424.05	37.05	405,679.84	727,198.37	32.113870	-103.733021
10,000.00	90.00	359.64	11,615.00	4,524.04	36.76	405,779.83	727,198.08	32.114145	-103.733020
16,100,00	90.00	359.84	11,615.00	4,624.04	36,48	405,879,83	727,197,79	32,114420	-103.733019
10,200,00	90.00	359.64	11,615,00	4,724.04	36,19	405,979.83	/2/,19/,51	32,114695	-103.733018
16,300,00	90.00	359.84	11,615.00	4,824.04	35.91	406,079.83	727,197.22	32,114970	-103./33018
16,400.00	90.00	359.84	11,615.00	4,924.04	35.62	406,179.83	727,196.94	32,115245	-103./3301/
16,500,00	90,00	359.84	11,615.00	5,024.04	35,33	406,279,83	727,196.65	32,115519	-103./33016
10,000,00	90,00	359.84	11,615,00	5,124.04	35.05	406,379.83	727,196,36	32,115794	-103,733015
16,700.00	90.00	359.64	11,615.00	5,224.04	34.76	406,479.83	727.195.08	32,116069	-103.733014
16,000,00	90.00	359.04	11,615,00	5,324.04	34.48	406,579.83	727.195.79	32.116344	-103,733013
17,900,00	90.00	359.64	11,615.00	5,424.04	34.19	406,679.83	727.195.51	32.116619	-103,733012
17,000.00	90.00	359.04	11,615.00	5,524.04	33,90	406,779.83	727.195.22	32.116694	-103.733011
17,100.00	90.00	250.94	11,015.00	5,024.04	33.02	400,079.03	727,194.94	32.117.109	-103.733011
17,200,00	90.00	359.64	11,615.00	5,724.04	33.33	400,979.63	727,194.05	32.11/444	-103.733010
17,300.00	90.00	250.94	11,615.00	5,024.04	33.05	407,079.03	727.194.30	32,117719	-103.733009
17,400.00	90.00	250.84	11,615.00	5,924.04	32.70	407,179.03	727,194,00	32.11/993	-103.733008
17,500.00	90.00	359.04	11,015.00	6,024.04	32.40	407,279.03	727,193,79	32.110200	-103.733007
17,000,00	90.00	359.04	11,015.00	6,124.04	32.19	407,379.02	727.193.51	32,110343	-103,733006
17,700.00	90.00	250.04	11,015.00	6,224.04	31.90	407,479.62	727 103.22	32.110010	-103.733005
17,800,00	90.00	250.84	11,015,00	6,324.04	31.02	407,579.82	727.192.93	32,119093	103.733004
18,000,00	90.00	350.84	11,015.00	6 624 04	31.05	407,079.02	727,192.00	32.119300	102 722002
18,000,00	90.00	359.04	11,615,00	6,524.04	31.05	407,779.02	727,192,30	32,119043	103.733003
18,100.00	90.00	350.84	11,615,00	6,024.04	30.78	407,079.02	727.192.00	32,119910	-103.733002
18,200.00	90.00	350.84	11,015,00	6 824 04	30.47	407,979.02	727.191.79	32.120193	-103.733001
18,000.00	90.00	350.94	11,615,00	6 924 02	30.19	400,079.02	727,191,30	32.120407	103.733000
18,400.00	90.00	359.84	11,015.00	7 024 03	29.90	400,179.02	727,191.22	32.120742	103 732998
18 600 00	00.00 00.00	350 84	11 615 00	7 124 03	20.02	400,213.02	727,100.00	32,121017	-103.732990
18 700 00	90.00	359.84	11 615 00	7 224 03	29.00	400,079,02	727 100 36	32 121232	-103 732007
18 800 00	90,00	359 84	11 615 00	7 324 03	28.76	408 579 82	727 190.00	32 121842	-103 732997
18,900,00	90.00	359.84	11 615 00	7 424 03	28.47	408 679 82	727 189 79	32 122117	-103 732995
18 915 04	90.00	359 84	11.615.00	7 439 07	28 43	408 694 86	727,189,75	32 122158	-103 732995
	 @ 18915' M	330' ENI	2210' EM	.,	20.10				
18 915 05	90.00	359 84	11 615 00	7 439 09	28.43	408 694 87	727 189 75	32 122158	-103 732005
10,010.00	00.00			,,+00.00	£0.70		121.100.10	02.122100	-100.102335

PBHL

Design Targets Target Name 1' filt/miss target - Dip Angle - Dip Dir - TVD - N/S - +E/W Northing - Easting Shape - () - () - () - (usft) - (usft) - (usft) - Latitu

de Longitudes (

an the state of the state of the second	一方の方を	- Proto Barrier	स्ट्रिय के एक	C. L. M. M. M. P. Soft	1984	en saat at tel at 1933	Nucline H Strange		
HL - Big Sinks Draw 2	0.00	0.00	0.00	7,439.09	28.43	408,694.87	727,189.75	32.122158	-103.732995
- plan misses target center	er by 7439.1	4ft at 0.00ft	MD (0.00	TVD, 0.00 N, 0.	00 E)				
- Point									

Database Company: Project: Site Site Well: Wellbore Design: EDM r5(WCDSC) EdM vCDSC EdM vCDSC E	000.141_Prod US > Permian NM ounty (NAD 83 NI T25S-R31E <s 25-24="" draw="" fe<br="">e #1 Plan 1</s>	w difference of the second 3 M Eastern) 2d Com 332H	Local Co-c TVD Refer MD Refere North Refe Survey Ca	ordinate Reference ence: nce: srence: liculation Method	Well Big S RKB @ 3 RKB @ 3 Grid Minimum	Sinks Draw 25-24 Fe 360,60ft 360,60ft Curvature	d Com 332H
Plan Annotations Measured Depth (ft) 11.042.89 11.284.04	Vertical, Depth (ft) 11,042.04 11,276.13	Eocal Coordin HV,S (ft) -106.00 -56.00	ites +E/W (ft) 50.00 49.86	Comment KOP @ 11043' MD, FTP @ 11284' MD,	2589' FNL, 2210 2538' FNL, 2210'	'FWL FWL	
13,959.00 18,915.04	11,615.00 11,615,00	2,483.05 7,439.07	42.60 28.43	Cross section @ 13 PBHL & LTP @ 189	959' MD, 0' FSL, 915' MD, 330' FNL	2210' FWL ., 2210' FWL	

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