

$\left(\right)$	Well Name: SERPENTINE 2 26 STATE FED COM	Well Location: T23S / R33E / SEC 2 / SWSE / 32.328206 / -103.539618	County or Parish/State: LEA / NM
	Well Number: 33H	Type of Well: OIL WELL	Allottee or Tribe Name:
	Lease Number: NMNM113969	Unit or CA Name:	Unit or CA Number:
	US Well Number:	Operator: DEVON ENERGY PRODUCTION COMPANY LP	

Notice of Intent

BUREAU OF LAND MANAGEMENT

Sundry ID: 2858145

Type of Submission: Notice of Intent

Date Sundry Submitted: 06/14/2025

Date proposed operation will begin: 06/14/2025

Type of Action: APD Change Time Sundry Submitted: 03:48

Procedure Description: API 30-025-54681. Engineering Only - Devon Energy Production Company L.P. respectfully requests the following changes to the approved APD: KOP change from 45 FSL & 1650 FEL to 133 FSL & 1200 FEL, both 2-23S-33E FTP change from 100 FSL & 1650 FEL to 303 FSL & 1200 FEL, both 2-23S-33E Spacing, SHL, LTP, and BHL remain unchanged. TVD/MD Change from 9500'/14,698' to 9549'/21,242' Casing program change: Minor Production Casing depth change. Production cement volume changes to accommodate casing change. Stump variance request included. Please see attached revised C-102, drilling & directional plans, and supporting documentation.

NOI Attachments

Procedure Description

Plan_1_Geo_Report__1_Rev__20250614154449.pdf SERPENTINE_2_26_STATE_FEDERAL_COM_33H_C_102_WB_NOIpdf_20250614152726.pdf Break_Test_Variance_Offline_BOP_2_3_2025_20250614152724.pdf

SERPENTINE_2_35_STATE_FEDERAL_COM_33H_6_13_2025__1__20250614152722.pdf

Conditions of Approval

Specialist Review

Serpentine_2_26_State_Fed_Com_33H_Sundry_ID_2858145_20250616083131.pdf

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: REBECCA DEAL

Signed on: JUN 14, 2025 03:29 PM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Professional

Street Address: 333 W SHERIDAN AVE

City: OKLAHOMA CITY State: OK

Phone: (405) 228-8429

Email address: REBECCA.DEAL@DVN.COM

State:

Field

Representative Name:

Street Address:

Phone:

City:

Email address:

Zip:

BLM Point of Contact

BLM POC Name: LONG VO BLM POC Phone: 5759885402 Disposition: Approved Signature: Long Vo

BLM POC Title: Petroleum Engineer BLM POC Email Address: LVO@BLM.GOV Disposition Date: 06/16/2025

R

Received by OCD: 6/16/2025 9:0	97:02 AM				Page 3 of
	UNITED STATES ARTMENT OF THE INTE			ON	DRM APPROVED //B No. 1004-0137 res: October 31, 2021
	EAU OF LAND MANAGE			S. Lease Senar No. NN	/INM113969
Do not use this f	OTICES AND REPORT orm for proposals to d Jse Form 3160-3 (APD)	rill or to	re-enter an	6. If Indian, Allottee or Tribe N	ame
SUBMIT IN 1	RIPLICATE - Other instruction	ns on page	2	7. If Unit of CA/Agreement, Na	ame and/or No.
1. Type of Well Image: Oil Well Image: Gas Well				8. Well Name and No. SERPENTINE 2 26 STATE FED COM/33H	
2. Name of Operator DEVON ENERG	Y PRODUCTION COMPANY	LP		9. API Well No.	
3a. Address 333 WEST SHERIDAN	AVE, OKLAHOMA CITY, 3b. I		include area code) 1	10. Field and Pool or Explorato BRINNINSTOOL/BONE SPRING	ry Area
4. Location of Well <i>(Footage, Sec., T.,R</i> SEC 2/T23S/R33E/NMP	.,M., or Survey Description)			11. Country or Parish, State LEA/NM	
12. CHE0	CK THE APPROPRIATE BOX(E	ES) TO IND	DICATE NATURE	OF NOTICE, REPORT OR OTH	ER DATA
TYPE OF SUBMISSION			ТҮР	E OF ACTION	
V Notice of Intent	Acidize	_	ulic Fracturing	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity
Subsequent Report Final Abandonment Notice	Casing Repair Change Plans Convert to Injection		Construction and Abandon	Recomplete Temporarily Abandon Water Disposal	Other
the Bond under which the work will completion of the involved operatio	Ily or recomplete horizontally, giv I be perfonned or provide the Bon ns. If the operation results in a m ices must be filed only after all re g Only - Devon Energy Produc 550 FEL to 133 FSL & 1200 FE 650 FEL to 303 FSL & 1200 F remain unchanged. 4,698 to 9549/21,242 r Production Casing depth cha	ve subsurfac nd No. on fi ultiple com equirements ction Comp EL, both 2- FEL, both 2 ange. Prode	ee locations and m le with BLM/BIA. pletion or recompl , including reclam oany L.P. respect 23S-33E -23S-33E uction cement vo	easured and true vertical depths of Required subsequent reports mus- etion in a new interval, a Form 31 ation, have been completed and th fully requests the following cha lume changes to accommodate	all pertinent markers and zones. Attach t be filed within 30 days following 60-4 must be filed once testing has been e operator has detennined that the site inges to the approved
14. I hereby certify that the foregoing is REBECCA DEAL / Ph: (405) 228-8		/Typed)	Regulatory Title	Professional	

ectronic Submission)

Date

06/14/2025

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by		
LONG VO / Ph: (575) 988-5402 / Approved	Petroleum Engineer Title	06/16/2025 Date
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.	Office CARLSBAD	

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.

(Instructions on page 2)

Released to Imaging: 6/23/2025 1:37:16 PM

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

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

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

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

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

Additional Information

Location of Well

0. SHL: SWSE / 638 FSL / 1543 FEL / TWSP: 23S / RANGE: 33E / SECTION: 2 / LAT: 32.328206 / LONG: -103.539618 (TVD: 0 feet, MD: 0 feet) PPP: SWSE / 157 FSL / 1657 FEL / TWSP: 22S / RANGE: 33E / SECTION: 35 / LAT: 32.3413857 / LONG: -103.5399719 (TVD: 9500 feet, MD: 14700 feet) BHL: SWSE / 1300 FSL / 1650 FEL / TWSP: 22S / RANGE: 33E / SECTION: 26 / LAT: 32.359035 / LONG: -103.539974 (TVD: 9500 feet, MD: 21121 feet)

WCDSC Permian NM

Lea County (NAD83 New Mexico East) Sec 02-T23S-R33E SERPENTINE 2 26 STATE FEDERAL COM 33H WA022495087 Wellbore #1

Plan: MS DIR V1 (1650FEL) AVALON B

Standard Planning Report - Geographic

13 June, 2025

Database:	EDM_5000.1	17		Local Co-ord	inate Reference:	Well SERPEN COM 33H	ITINE 2 26	STATE FEDE	RAL
Company:	y: WCDSC Permian NM					645.70+26ft @ 3571.70ft (H&P265)			
Project:		NAD83 New I	Mexico East)	MD Reference	e:	GL:3545.70+2	26ft @ 3571	1.70ft (H&P26	5)
Site:	Sec 02-T23S			North Referen		Grid			
Well:	SERPENTIN 33H	IE 2 26 STATE	FEDERAL COM	Survey Calcu	lation Method:	Minimum Cur	vature		
Wellbore:	Wellbore #1								
Design:	MS DIR V1 (1650FEL) AV/	ALON B						
Project	Lea County (N	NAD83 New M	lexico East)						
Map System:	US State Plane	1983		System Datum	:	Mean Sea Leve	i		
	North American	Datum 1983							
Map Zone:	New Mexico Ea	stern Zone							
Site	Sec 02-T23S-	R33E							
Site Position:			Northing:	488,666	.43 usft Latitu	de:			32.3409939
From:	Мар		Easting:	782,735	.71 usft Longi	tude:			-103.5517032
Position Uncertainty:		5.00 ft	Slot Radius:	13	.20 in				
Well	SERPENTINE	2 26 STATE	FEDERAL COM 33H						
Well Position	+N/-S	0.00 ft	Northing:	2	184,041.56 usft	Latitude:			32.328205
	+E/-W	0.00 ft	Easting:	7	786,502.84 usft	Longitude:			-103.539617
Position Uncertainty		0.50 ft	Wellhead Elev	vation:	ft	Ground Level:			3,545.70 ft
Grid Convergence:		0.42 °							
Wellbore	Wellbore #1								
Magnetics	Model Na	ime	Sample Date	Declination (°)	I	Dip Angle (°)	F	ield Strength (nT)	
	IGI	RF2015	12/31/2019		6.67	60.13		47,741.4114	1181
Design	MS DIR V1 (1	650FEL) AVA	LON B						
Audit Notes:									
Version:			Phase:	PLAN	Tie On De	epth:	0.00		
Vertical Section:		Depth	From (TVD)	+N/-S	+E/-W		Direction		
			(ft)	(ft)	(ft)		(°)		
			0.00	0.00	0.00		359.01		
Plan Survey Tool Pro	gram	Date 6/13	/2025						
Depth From	Depth To								
(ft)	(ft)	Survey (Well	bore)	Tool Name	Ren	narks			
1 0.00	21,242.17	MS DIR V1 (1650FEL) AVALON	MWD+HDGM	DOM				
				OWSG MWD + H	L H SIM				

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well SERPENTINE 2 26 STATE FEDERAL COM 33H
Company:	WCDSC Permian NM	TVD Reference:	GL:3545.70+26ft @ 3571.70ft (H&P265)
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3545.70+26ft @ 3571.70ft (H&P265)
Site:	Sec 02-T23S-R33E	North Reference:	Grid
Well:	SERPENTINE 2 26 STATE FEDERAL COM 33H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	MS DIR V1 (1650FEL) AVALON B		

Plan Sections

Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,033.33	8.00	145.43	2,031.60	-30.61	21.09	1.50	1.50	0.00	145.43	
5,577.42	8.00	145.43	5,541.20	-436.78	300.94	0.00	0.00	0.00	0.00	
6,720.28	0.00	0.00	6,680.35	-502.37	346.14	0.70	-0.70	0.00	180.00	
9,176.47	0.00	0.00	9,136.54	-502.37	346.14	0.00	0.00	0.00	0.00	
9,926.47	90.00	359.64	9,614.01	-24.91	343.16	12.00	12.00	-0.05	359. <mark>64</mark>	
13,253.52	90.00	359.64	9,614.00	3,302.07	322.43	0.00	0.00	0.00	0.00	
13,410.26	93.13	359.64	9,609.71	3,458.73	321.45	2.00	2.00	0.00	0.00	
14,154.72	93.13	359.64	9,569.00	4,202.06	316.82	0.00	0.00	0.00	0.00	
15,104.93	90.85	335.98	9,535.47	5,123.61	117.64	2.50	-0.24	-2.49	-95.02	
15,305.01	90.85	335.98	9,532.50	5,306.34	36.21	0.00	0.00	0.00	0.00	
16,251.36	91.43	359.64	9,513.37	6,224.59	-162.18	2.50	0.06	2.50	88.37	
16,625.99	91.43	359.64	9,504.00	6,599.10	-164.55	0.00	0.00	0.00	0.00	
16,727.16	89.41	359.64	9,503.26	6,700.26	-165.18	2.00	-2.00	0.01	179.85	
21,162.17	89.41	359.64	9,549.00	11,134.95	-192.82	0.00	0.00	0.00	0.00	
21,242.17	89.41	359.64	9,549.83	11,214.94	-193.32	0.00	0.00	0.00	0.00	

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well SERPENTINE 2 26 STATE FEDERAL COM 33H
Company:	WCDSC Permian NM	TVD Reference:	GL:3545.70+26ft @ 3571.70ft (H&P265)
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3545.70+26ft @ 3571.70ft (H&P265)
Site:	Sec 02-T23S-R33E	North Reference:	Grid
Well:	SERPENTINE 2 26 STATE FEDERAL COM 33H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	MS DIR V1 (1650FEL) AVALON B		

Planned Survey

0.00 0.00 0.00 0.00 0.00 444,041 56 776,6022 b4 22.328058 +10.5386175 0.00 0.00 0.00 0.00 0.00 0.00 444,041 56 776,6022 b4 32.328058 +10.5386175 0.00 0.00 0.00 400.00 0.00 404,041 56 776,6022 b4 32.328058 +10.33386175 0.00 0.00 0.00 400.00 0.00 444,041 56 776,602 b4 32.328058 +10.33386175 0.00 0.00 0.00 0.00 444,041 56 776,502 b4 32.328058 +10.33586175 0.00 0.00 0.00 0.00 0.00 444,041 56 776,502 b4 32.328058 +10.33586175 0.00 0.00 0.00 0.00 0.00 444,041 56 776,502 b4 32.328058 +10.33586175 0.00 0.00 0.00 0.00 0.00 444,041 56 776,502 b4 32.328058 +10.33586175 1.00.00 0.00 0.00 0.00	Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
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6/13/2025 10:38:25AM

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well SERPENTINE 2 26 STATE FEDERAL COM 33H
Company:	WCDSC Permian NM	TVD Reference:	GL:3545.70+26ft @ 3571.70ft (H&P265)
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3545.70+26ft @ 3571.70ft (H&P265)
Site:	Sec 02-T23S-R33E	North Reference:	Grid
Well:	SERPENTINE 2 26 STATE FEDERAL COM 33H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	MS DIR V1 (1650FEL) AVALON B		

Planned Survey

Measu Dept (ft)	h	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5.20	00.00	8.00	145.43	5,167.45	-393.52	271.14	483,648.04	786,773.98	32.3271187	-103.5387492
	00.00	8.00	145.43	5,266.48	-404.98	279.04	483,636.58	786,781.88	32.3270870	-103.5387239
100000	00.00	8.00	145.43	5,365.50	-404.90	286.93	483,625.12	786,789.77	32.3270573	-103.5386986
704	00.00	8.00	145.43	5,464.53	-427.90	294.83	483,613.66	786,797.67	32.3270237	-103.5386733
500 CA 10 C	7.42	8.00	145.43	5,541.20	-436.78	300.94	483,604.79	786,803.78	32.3269992	-103.5386538
	00.00	7.84	145.43	5,563.56	-439.34	302.71	483,602.22	786,805.55	32.3269921	-103.5386481
10.000 TO	00.00	7.14	145.43	5,662.71	-450.07	310.11	483,591.49	786,812.94	32.3269624	-103.5386244
	00.00	6.44	145.43	5,762.01	-459.81	316.82	483,581.75	786,819.65	32.3269355	-103.5386029
	00.00	5.74	145.43	5,861.44	-468.55	322.84	483,573.01	786,825.68	32.3269114	-103.5385837
2445223	00.00	5.04	145.43	5,961.00	-476.29	328.17	483,565.27	786,831.01	32.3268900	-103.5385666
전 사	00.00	4.34	145.43	6,060.66	-483.03	332.81	483,558.54	786,835.65	32.3268714	-103.5385517
6,20	00.00	3.64	145.43	6,160.42	-488.76	336.76	483,552.80	786,839.60	32.3268556	-103.5385391
70.	00.00	2.94	145.43	6,260.25	-493.49	340.02	483,548.08	786,842.86	32.3268425	-103.5385286
6,40	00.00	2.24	145.43	6,360.15	-497.21	342.59	483,544.35	786,845.42	32.3268322	-103.5385204
6,50	00.00	1.54	145.43	6,460.09	-499.93	344.46	483,541.63	786,847.30	32.3268247	-103.5385144
6,60	00.00	0.84	145.43	6,560.07	-501.64	345.64	483,539.92	786,848.48	32.3268200	-103.5385106
6,70	00.00	0.14	145.43	6,660.07	-502.35	346.13	483,539.21	786,848.96	32.3268180	-103.5385091
6,72	20.28	0.00	0.00	6,680.35	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
6,80	00.00	0.00	0.00	6,760.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
6,90	00.00	0.00	0.00	6,860.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
7,00	00.00	0.00	0.00	6,960.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
7,10	00.00	0.00	0.00	7,060.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
7,20	00.00	0.00	0.00	7,160.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
	00.00	0.00	0.00	7,260.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
24.2 22.3	00.00	0.00	0.00	7,360.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
201	00.00	0.00	0.00	7,460.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
2.3323	00.00	0.00	0.00	7,560.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
10.	00.00	0.00	0.00	7,660.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
2.30.57	00.00	0.00	0.00	7,760.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
	00.00	0.00	0.00	7,860.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
	00.00	0.00	0.00	7,960.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
1000	00.00	0.00	0.00	8,060.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
227	00.00	0.00	0.00	8,160.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
1.000	00.00 00.00	0.00	0.00	8,260.07	-502.37 -502.37	346.14 346.14	483,539.19	786,848.98 786,848.98	32.3268180 32.3268180	-103.5385090 -103.5385090
704	00.00	0.00	0.00	8,360.07 8,460.07	-502.37	346.14	483,539.19 483,539.19	786,848.98	32.3268180	-103.5385090
20.2203	00.00	0.00	0.00	8,560.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
	00.00	0.00	0.00	8,660.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
	00.00	0.00	0.00	8,760.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
	00.00	0.00	0.00	8,860.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
	00.00	0.00	0.00	8,960.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
2010/06/2	00.00	0.00	0.00	9,060.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
22 A	6.47	0.00	0.00	9,136.54	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
125.20	00.00	2.82	359.64	9,160.06	-501.79	346.14	483,539.77	786,848.97	32.3268195	-103.5385090
	25.00	5.82	359.64	9,184.98	-499.91	346.12	483,541.66	786,848.96	32.3268247	-103.5385090
	50.00	8.82	359.64	9,209.78	-496.72	346.10	483,544.84	786,848.94	32.3268335	-103.5385090
	75.00	11.82	359.64	9,234.37	-492.24	346.08	483,549.32	786,848.91	32.3268458	-103.5385090
	00.00	14.82	359.64	9,258.69	-486.48	346.04	483,555.08	786,848.88	32.3268616	-103.5385090
and the second se	25.00	17.82	359.64	9,282.68	-479.45	346.00	483,562.11	786,848.83	32.3268809	-103.5385090
	50.00	20.82	359.64	9,306.27	-471.18	345.95	483,570.38	786,848.78	32.3269037	-103.5385089
100000	75.00	23.82	359.64	9,329.40	-461.69	345.89	483,579.87	786,848.72	32.3269298	-103.5385089
596	00.00	26.82	359.64	9,351.99	-451.00	345.82	483,590.56	786,848.66	32.3269592	-103.5385088
9,42	25.00	29.82	359.64	9,374.00	-439.14	345.75	483,602.42	786,848.58	32.3269918	-103.5385088

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COMPASS 5000.17 Build

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well SERPENTINE 2 26 STATE FEDERAL COM 33H
Company:	WCDSC Permian NM	TVD Reference:	GL:3545.70+26ft @ 3571.70ft (H&P265)
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3545.70+26ft @ 3571.70ft (H&P265)
Site:	Sec 02-T23S-R33E	North Reference:	Grid
Well:	SERPENTINE 2 26 STATE FEDERAL COM 33H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	MS DIR V1 (1650FEL) AVALON B		

Planned Survey

Measur Depti (ft)		Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,45	0.00	32.82	359.64	9,395.35	-426.14	345.66	483,615.42	786,848.50	32.3270275	-103.5385087
9,45		35.82	359.64	9,395.55	-420.14	345.58	483,629.51	786,848.41	32.3270275	-103.5385087
9,50		38.82	359.64	9,435.87	-396.89	345.48	483,644.67	786,848.32	32.3271079	-103.5385086
9,52		41.82	359.64	9,454.93	-380.72	345.38	483,660.85	786,848.22	32.3271523	-103.5385086
9,55		44.82	359.64	9,473.12	-363.57	345.27	483,678.00	786,848.11	32.3271995	-103.5385085
9,57		47.82	359.64	9,490.38	-345.49	345.16	483,696.07	786,848.00	32.3272492	-103.5385084
9,60		50.82	359.64	9,506.67	-326.53	345.04	483,715.03	786,847.88	32.3273013	-103.5385084
9,62		53.82	359.64	9,521.95	-306.75	344.92	483,734.82	786,847.76	32.3273557	-103.5385083
9,65		56.82	359.64	9,536.17	-286.19	344.79	483,755.37	786,847.63	32.3274122	-103.5385082
9,67	5.00	59.82	359.64	9,549.30	-264.92	344.66	483,776.65	786,847.50	32.3274706	-103.5385081
9,70	0.00	62.82	359.64	9,561.29	-242.99	344.52	483,798.58	786,847.36	32.3275309	-103.5385080
9,72	5.00	65.82	359.64	9,572.13	-220.46	344.38	483,821.10	786,847.22	32.3275929	-103.5385080
9,75	0.00	68.82	359.64	9,581.76	-197. <mark>3</mark> 9	344.24	483,844.17	786,847.08	32.3276562	-103.5385079
9,77		71.82	359.64	9,590.18	-173.86	344.09	483,867.71	786,846.93	32.3277209	-103.5385078
9,80		74.82	359.64	9,597.35	-149.91	343.94	483,891.65	786,846.78	32.3277868	-103.5385077
9,82		77.82	359.64	9,603.26	-125.62	343.79	483,915.94	786,846.63	32.3278535	-103.5385076
9,85		80.82	359.64	9,607.89	-101.06	343.64	483,940.50	786,846.48	32.3279210	-103.5385075
9,87		83.82	359.64	9,611.23	-76.29	343.48	483,965.27	786,846.32	32.3279891	-103.5385074
9,90		86.82	359.64	9,613.27	-51.37	343.33	483,990.19	786,846.17	32.3280576	-103.5385073
9,92		90.00	359.64	9,614.01	-24.91	343.16	484,016.65	786,846.00	32.3281303	-103.5385072
10,00		90.00	359.64	9,614.01	48.61	342.71	484,090.17	786,845.54	32.3283324	-103.5385069
10,10		90.00	359.64	9,614.01	148.61	342.08	484,190.17	786,844.92	32.3286073	-103.5385065
10,20		90.00 90.00	359.64 359.64	9,614.01 9,614.01	248.61 348.61	341.46 340.84	484,290.17 484,390.17	786,844.30 786,843.67	32.3288822 32.3291570	-103.5385062 -103.5385058
10,30		90.00	359.64	9,614.01	448.60	340.04	484,490.16	786,843.05	32.3291370	-103.5385058
10,40		90.00	359.64	9,614.00	548.60	339.59	484,590.16	786,842.43	32.3297068	-103.5385050
10,60		90.00	359.64	9,614.00	648.60	338.97	484,690.16	786,841.80	32.3299816	-103.5385046
10,70		90.00	359.64	9,614.00	748.60	338.34	484,790.16	786,841.18	32.3302565	-103.5385042
10,80		90.00	359.64	9,614.00	848.60	337.72	484,890.16	786,840.56	32.3305314	-103.5385038
10,90		90.00	359.64	9,614.00	948.59	337.10	484,990.15	786,839.93	32.3308062	-103.5385035
11,00		90.00	359.64	9,614.00	1,048.59	336.47	485,090.15	786,839.31	32.3310811	-103.5385031
11,10	0.00	90.00	359.64	9,614.00	1,148.59	335.85	485,190.15	786,838.69	32.3313560	-103.5385027
11,20	0.00	90.00	359.64	9,614.00	1,248.59	335.23	485,290.15	786,838.06	32.3316308	-103.5385023
11,30	0.00	90.00	359.64	9,614.00	1,348.59	334.60	485,390.14	786,837.44	32.3319057	-103.5385019
11,40	0.00	90.00	359.64	9,614.00	1,448.58	333.98	485,490.14	786,836.82	32.3321806	-103.5385015
11,50	0.00	90.00	359.64	9,614.00	1,548.58	333.36	485,590.14	786,836.19	32.3324554	-103.5385012
11,60	0.00	90.00	359.64	9,614.00	1,648.58	332.73	485,690.14	786,835.57	32.3327303	-103.5385008
11,70		90.00	359.64	9,614.00	1,748.58	332.1 <mark>1</mark>	485,790.14	786,834.95	32.3330052	-103.5385004
11,80		90.00	359.64	9,614.00	1,848.58	331.49	485,890.13	786,834.33	32.3332800	-103.5385000
11,90		90.00	359.64	9,614.00	1,948.57	330.87	485,990.13	786,833.70	32.3335549	-103.5384996
12,00		90.00	359.64	9,614.00	2,048.57	330.24	486,090.13	786,833.08	32.3338298	-103.5384992
12,10		90.00	359.64	9,614.00	2,148.57	329.62	486,190.13	786,832.46	32.3341046	-103.5384989
12,20		90.00	359.64	9,614.00	2,248.57	329.00	486,290.13	786,831.83 786,831.21	32.3343795	-103.5384985
12,30 12,40		90.00 90.00	359.64 359.64	9,614.00 9,614.00	2,348.57	328.37 327.75	486,390.12 486,490.12	786,830.59	32.3346544 32.3349292	-103.5384981 -103.5384977
12,40		90.00	359.64	9,614.00	2,448.57 2,548.56	327.13	486,590.12	786,829.96	32.3352041	-103.5384973
12,50		90.00	359.64	9,614.00	2,548.56	326.50	486,690.12	786,829.34	32.3354790	-103.5384969
12,00		90.00	359.64	9,614.00	2,748.56	325.88	486,790.11	786,828.72	32.3357538	-103.5384965
12,80		90.00	359.64	9,614.00	2,848.56	325.26	486,890.11	786,828.09	32.3360287	-103.5384962
12,90		90.00	359.64	9,614.00	2,948.56	324.63	486,990.11	786,827.47	32.3363036	-103.5384958
13,00		90.00	359.64	9,614.00	3,048.55	324.01	487,090.11	786,826.85	32.3365784	-103.5384954
13,10		90.00	359.64	9,614.00	3,148.55	323.39	487,190.11	786,826.22	32.3368533	-103.5384950
13,20	0.00	90.00	359.64	9,614.00	3,248.55	322.76	487,290.10	786,825.60	32.3371282	-103.5384946

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COMPASS 5000.17 Build

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well SERPENTINE 2 26 STATE FEDERAL COM 33H
Company:	WCDSC Permian NM	TVD Reference:	GL:3545.70+26ft @ 3571.70ft (H&P265)
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3545.70+26ft @ 3571.70ft (H&P265)
Site:	Sec 02-T23S-R33E	North Reference:	Grid
Well:	SERPENTINE 2 26 STATE FEDERAL COM 33H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	MS DIR V1 (1650FEL) AVALON B		

Planned Survey

19.28.52 90.00 89.64 91.64.00 8.20.07 822.14 447,743.62 796.813 92.337763 1.10.534491 13.300.00 82.33 396.4 9.610.27 3.446.4 321.5 447,700.29 796.82.29 32.3377769 1.10.5349495 13.410.06 9.31.3 396.4 9.604.81 3.466.31 300.27 447,690.34 766.82.29 32.337752 -10.55349393 13.600.00 93.13 399.64 9.694.81 3.468.13 300.27 447,699.3 766.82.14 32.337552 -10.55349393 13.600.00 93.13 399.64 9.682.93 3.447.72 316.41 447,799.58 766.82.16 32.339560 -10.55349491 14.000.00 93.13 399.64 9.682.44 (4.47.77 317.76 448,918.97 766.82.16 32.339549 -10.55349491 14.000.00 93.13 399.64 9.676.74 4.44.47 317.76 448,918.97 766.80.07 32.3395744 -10.55349492 14.000.00 92.81 36.66.2	Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
13,000,0 90,93 356.6 96.13.62 33.446.55 321.62 447,950.04 7766.624.35 32.377777 -100.5364493 13,400,00 92.33 3556.4 96.09.71 3.446.73 321.62 447,500.04 7766.624.35 32.3377059 -100.53644936 13,500,00 93.13 3556.4 96.09.71 3.446.18 320.91 447,699.7 7766.623.73 32.3377059 -100.53844936 13,700,00 93.13 3556.4 9,508.47 3.747.78 877.786.82 12.233820611 -100.53844921 13,900,00 93.13 3556.4 9,577.46 4.047.57 317.77 480,108.13 7766,822.00 32.3395001 -102.53844191 14,000,00 93.13 3556.4 9,571.96 4.147.42 317.78 480,108.97 7766,822.00 32.3395074 -102.53844191 14,000,00 93.13 3556.4 9,571.99 4.147.42 317.13 480,108.27 7766,810.93 32.3395741 -103.53844191 14,200.00 92.81 3566.12 9,567.64	13 253 52			9 614 00			487 343 62	786 825 27	30 3370753	103 5384044
113,410.20 92.93 358.64 9,610.22 3.448.48 321.45 487,400.04 766,624.29 32.377707 -100.5384433 13,500.00 93.13 358.64 9,604.81 3,448.33 320.09 447,509.88 766,623.71 32.337522 -100.53844335 13,600.00 93.13 358.64 9,593.47 3,748.03 319.55 447,769.58 7766,621.46 32.3385011 -100.53844327 13,800.00 93.13 359.64 9,578.23 3,947.72 318.41 447,769.58 766,621.24 32.3393245 -100.53844321 14,000.00 93.13 359.64 9,571.99 4,147.42 317.76 448,089.13 7766,821.06 22.3393245 -100.53844912 14,000.00 33.13 359.64 9,571.09 4,147.42 317.16 448,048.17 7766,821.06 22.3393245 -100.53844912 14,000.00 32.81 35.85.4 9,576.76 4,444.48 302.23 448,243.61 7766,814.17 22.3404742 -100.5386470 100.5386470 14,3					53 C					
13,400,26 93,13 396,64 9,608,71 3,488,73 321,45 447,509,29 778,622,37 323,377652 -103,5344335 13,600,00 93,13 356,64 9,608,44 3,448,18 300,97 447,699,78 7786,822,37 323,337562 -103,5344325 13,700,00 93,13 356,64 9,658,47 3,748,83 319,65 447,799,58 7786,822,449 323,3387056 -103,5344425 13,900,00 93,13 356,64 9,577,46 4,477,57 317,717 4480,199,13 7766,822,42 323,339500 -103,5344915 14,000,00 93,13 356,64 9,577,46 4,477,57 317,76 4482,188,97 7786,814,93 323,339734 -103,5344912 14,000,00 93,14 356,64 9,567,00 4,202,06 316,62 4482,248,61 7786,814,93 323,339741 -103,5343925 14,200,00 92,518 356,62 9,567,64 4,446,40 20,422,44 482,248,67,30 776,621,663 324,0422 +103,5349,556,77 323,404217 -103,5384912										
13,500,00 93,13 359,64 9,604,81 3,243 30,00 447,693,73 32,337922 -110,3544031 13,500,00 93,13 359,64 9,593,87 3,748,03 319,65 447,693,77 766,823,11 32,338266 -100,5344021 13,500,00 93,13 359,64 9,582,83 3,477,2 318,41 447,699,32 766,621,12 32,339564 -100,5344021 14,000,00 93,13 359,64 9,577,19 31,77,16 448,093,177,16 766,620,02 32,3395989 -100,5344019 14,150,00 93,13 359,64 9,567,00 4,202,07 316,69 448,248,17 766,614,17 32,339544 -100,5344021 14,200,00 92,81 353,53 9,556,76 4,444 288,82 766,611,93 32,3496147 -100,5345622 14,500,00 92,81 351,49 9,556,76 4,444 288,82 766,511,69 32,4469343 -100,5345624 -100,5345624 -100,5345624 -100,5345624 -100,5345624 -100,5345624 -100,5345624	704			2.	72					
15:00:00 93:13 359:64 9:59:34 6:48:16 320:27 447:789:57 776,622:49 32:3362266 -103:5344627 13:00:00 93:13 359:64 9:58:40 347:785 746,622:49 32:336071 -103:5344627 13:00:00 93:13 359:64 9:52:33 347:77 318:41 447:789:57 766,621:24 32:339050 -103:5344619 14:00:00 93:13 359:64 9:57:19 4.174:27 317.78 4480;189:17 766,620:02 32:339344 -103:5344612 14:40:00:00 93:13 359:64 9:56:10 4.02:06 316:82 476,6119:53 32:3397491 -103:5344622 14:40:00:00 92:81 356:00 9:56:64 4242:72 316:61 746,5119:51 32:3347491 -103:5344622 14:40:00:00 92:25 351:01 4,441:30 22:44 488,481:03 766,571:95 32:3449461 -103:5398726 14:40:00:00 92:13 36:60 9:55:16 4,445:41 22:84 488,481:03 766,571:95	2010 (2010) (2010) (2010)									
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14,300.00 92.81 366.02 9.561.46 4.347.01 311.33 488.388.67 766.814.17 32.2401476 -103.538502 14,500.00 92.35 351.53 9.555.76 4.446.48 302.23 488.480.33 766.690.07 32.2406936 -103.5385734 14,500.00 92.11 346.55 9.545.57 4.643.81 271.11 486.685.36 776,771.96 32.3406942 -103.5386734 14,000.00 91.87 346.56 9.545.17 4.271.13 249.14 488,772.85 776,771.96 32.341693 -103.5386755 14,900.00 91.62 343.57 9.542.64 4.337.75 222.96 488,873.30 776,751.96 32.3417607 -103.5389755 15,000.00 91.37 348.59 9.535.47 5,12.81 117.74 449.9165.16 786,650.48 32.3422193 -103.5389730 15,000.00 90.85 335.98 9.534.25 5,306.34 36.21 489,454.42 786,602.98 32.3427900 -103.5389750 15,000.00 90.99 340.85 9.532.50 5,307.87 -36.48 499,454.42 786,602.20 <td>14,154.72</td> <td>93.13</td> <td>359.64</td> <td>9,569.00</td> <td>4,202.06</td> <td>316.82</td> <td>488,243.61</td> <td>786,819.66</td> <td>32.3397491</td> <td>-103.5384910</td>	14,154.72	93.13	359.64	9,569.00	4,202.06	316.82	488,243.61	786,819.66	32.3397491	-103.5384910
14,400.00 92.58 353.33 9,565.76 4,446.48 202.23 488,687.03 766,605.07 32,2406212 -103,358523 14,600.00 92.11 346.55 9,564.57 4,643.81 271.11 488,665.36 766,773.95 32,340636 -103,3586734 14,600.00 91.87 346.56 9,544.57 4,643.81 271.11 488,665.36 766,773.95 32,340636 -103,3586734 14,900.00 91.87 341.06 9,542.06 4,837.75 222.96 488,873.30 766,552.80 32,3414983 -103,3586734 14,900.00 91.137 341.06 9,532.45 5,205.83 151.5 489,673.80 786,659.45 32,3417017 -103,3586754 15,000.00 90.85 335.98 9,532.46 5,205.83 151.5 489,051.66 98 32,422181 -103,5391373 15,503.05 32,422190 -103,5391373 15,503.05 32,442555 -103,5391373 15,503.05 32,442790 -103,5394373 15,503.05 32,442561 -103,5394373 153,596,75 133,545,922.97 7,56,582.72 -66,20 489,547.19 766,583.05	14,200.00	93.04	358.51	9,566.56	4,247.27	316.09	488,288.82	786,818.93	32.3398734	-103.5384922
14,500.00 92.35 351.04 9,552.46 4,564.88 228.82 488,587.03 776,791.66 32,2409536 -103,5366733 14,700.00 91.87 346.05 9,545.10 4,741.30 249.14 488,673.65 776,771.95 32,241932 -103,5366733 14,900.00 91.62 343.57 9,542.06 4,837.75 222.96 488,773.95 32,3417607 -103,538775 14,900.00 91.62 343.57 9,542.06 4,837.75 222.96 488,774.84 786,655.45 32,3417607 -103,5389756 15,000.00 91.12 338.59 9,553.47 5,123.61 117.76 4499,165.16 786,650.48 32,3422183 -103,5393730 15,200.00 90.85 335.98 9,532.05 5,036.34 352.1 489,357.42 786,501.79 32,3422561 -103,5393730 15,300.00 90.95 343.85 9,521.03 5,398.87 -0.64 499,521.37 786,457.43 32,442566 -103,5394070 15,500.00 90.99 340.85	14,300.00	92.81	356.02	9,561.46	4,347.01	311.33	488,388.57	786,814.17	32.3401476	-103.5385052
$ \begin{bmatrix} 14,600.00 & 92.11 & 348.55 & 9.548.57 & 4.643.81 & 271.11 & 488,685.35 & 766,773.95 & 32.340542 & -103.5366231 \\ 14,000.00 & 91.62 & 343.57 & 9.542.06 & 4,837.75 & 222.96 & 488,792.85 & 766,751.98 & 32.3412326 & -103.536775 \\ 14,900.00 & 91.37 & 341.08 & 9.539.44 & 4,932.99 & 192.61 & 488,974.36 & 766,654.5 & 32.3417607 & -103.5387756 \\ 15,000.00 & 91.37 & 341.08 & 9.539.44 & 4,932.99 & 192.61 & 488,974.36 & 766,654.5 & 32.3417607 & -103.5389749 \\ 15,104.93 & 90.85 & 335.98 & 9.537.45 & 5,123.61 & 117.64 & 489,165.16 & 766,620.48 & 32.3422861 & -103.539137 \\ 15,200.00 & 90.85 & 335.98 & 9.534.06 & 5,210.43 & 78.95 & 489,251.98 & 766,531.79 & 32.3422861 & -103.539137 \\ 15,305.01 & 90.85 & 335.98 & 9.523.25 & 5,306.34 & 36.21 & 489,347.89 & 766,530.55 & 32.3427900 & -103.53936791 \\ 15,300.00 & 90.92 & 338.36 & 9,521.03 & 5,393.87 & -0.64 & 489,347.84 & 766,502.20 & 32.3430314 & -103.5394072 \\ 15,500.00 & 90.99 & 340.85 & 9,527.95 & 5,582.72 & -66.20 & 489,624.27 & 766,436.64 & 32.3436518 & -103.5396077 \\ 15,600.00 & 91.05 & 343.35 & 9,527.95 & 5,582.72 & -66.20 & 489,720.66 & 766,410.99 & 32.3438174 & -103.5394705 \\ 15,500.00 & 91.18 & 348.35 & 9,525.66 & 5,776.56 & -115.06 & 489,781.41 & 766,387.78 & 32.3440855 & -103.5398715 \\ 15,800.00 & 91.18 & 348.35 & 9,521.86 & 5,776.56 & -115.06 & 489,781.41 & 766,387.78 & 32.3440855 & -103.5399476 \\ 16,200.00 & 91.30 & 353.35 & 9,519.36 & 5,973.90 & -146.83 & 490,015.45 & 766,356.01 & 32.3446286 & -103.5399476 \\ 16,200.00 & 91.43 & 359.64 & 9,519.36 & 5,973.90 & -146.83 & 490,015.45 & 786,330.66 & 32.343150 & -103.5399715 \\ 16,200.00 & 91.43 & 359.64 & 9,519.36 & 5,973.90 & -146.83 & 490,015.45 & 766,336.61 & 32.344023 & -103.5399916 \\ 16,251.36 & 91.43 & 359.64 & 9,501.45 & 6,773.10 & -163.72 & 490,214.81 & 766,330.86 & 32.345130 & -103.5399916 \\ 16,600.00 & 91.43 & 359.64 & 9,504.26 & 6,773.10 & -163.72 & 490,214.81 & 766,337.20 & 32.3464286 & -103.5399917 \\ 16,000.0 & 91.43 & 359.64 & 9,504.25 & 6,773.10 & -165.2 & 490,041.47 & 766,339.08 & 32.3461796 & -103.5399$	14,400.00	92.58	353.53	9,556.76	4,446.48	302.23	488,488.03	786,805.07	32.3404212	-103.5385323
14,700.00 91.67 346.06 9,542.06 4,837.75 222.96 488,793.30 786,725.80 32.3412326 -103.5386779 14,900.00 91.52 343.57 9,534.26 4,837.75 222.96 488,879.30 786,725.80 32.3414803 -103.5386755 15,000.00 91.12 338.95 9,537.26 5,026.83 156.15 489,085.36 786,620.48 32.3420193 -103.5386751 15,000.00 90.85 335.98 9,534.76 5,123.61 117.64 489,165.16 786,620.48 32.3422925 -103.5393137 15,200.00 90.85 335.98 9,534.76 5,306.34 36.21 489,347.89 786,591.05 32.3427900 -103.5393730 15,400.00 90.92 338.36 9,527.55 55.827.2 -66.20 489,524.27 786,47.36 32.343296 -103.5396079 15,500.00 91.12 348.85 9,527.55 55.827.2 -66.20 489,524.27 786,47.36 32.343296 -103.5396079 15,500.00 91.12 348.85 9,521.65 5,776.56 -115.66 489,524.37 786,340.61 <td>14,500.00</td> <td>92.35</td> <td>351.04</td> <td>9,552.46</td> <td>4,545.48</td> <td>288.82</td> <td>488,587.03</td> <td>786,791.66</td> <td>32.3406936</td> <td>-103.5385734</td>	14,500.00	92.35	351.04	9,552.46	4,545.48	288.82	488,587.03	786,791.66	32.3406936	-103.5385734
	14,600.00	92.11	348.55	9,548.57	4,643.81	271.11	488,685.36	786,773.95	32.3409642	-103.5386283
14,900.00 91.37 341.08 9.539.46 4,932.99 192.61 488.974.54 786,660.98 32.2417607 -103.5388755 15,000.00 91.12 338.59 9,535.47 5,123.61 117.64 489,165.16 786,520.48 32.242261 -103.5389149 15,100.00 90.85 335.98 9,536.47 5,210.43 789.5 449,2451.49 786,531.79 32.242255 -103.5393137 15,000.00 90.92 338.36 9,531.03 5,333.87 -0.64 4493,435.42 786,502.20 32.343296 -103.5394302 15,000.00 90.92 340.85 9,522.05 5,562.72 -62.02 499,524.27 786,467.36 32.343296 -103.539607 15,000.00 91.12 343.85 9,525.65 5,776.56 -115.06 489,218.11 786,366.73 32.343296 -103.5398715 15,000.00 91.12 345.85 9,525.87 5,776.56 -115.06 489,218.11 786,366.74 32.3436862 -103.5398715 15,000.00 91.24 350.85 9,517.05 6,073.43 -146.83 490.014.47 786,366.11 <td>14,700.00</td> <td>91.87</td> <td>346.06</td> <td>9,545.10</td> <td>4,741.30</td> <td>249.14</td> <td>488,782.85</td> <td>786,751.98</td> <td>32.3412326</td> <td>-103.5386971</td>	14,700.00	91.87	346.06	9,545.10	4,741.30	249.14	488,782.85	786,751.98	32.3412326	-103.5386971
15,000.00 91.12 338.59 9,537.28 5,026.83 158.15 489,068.38 766,660.98 32.3420133 -103.5389494 15,104.93 90.85 335.98 9,534.06 5,123.61 117.64 489,165.16 786,660.98 32.3422861 -103.5392369 15,305.01 90.85 335.98 9,532.50 5,306.64 382.21 489,247.89 786,581.79 32.3422865 -103.539370 15,400.00 90.92 338.68 9,522.50 5,308.67 -0.64 489,478.9 786,502.05 32.342790 -103.539402 15,500.00 90.99 340.85 9,522.59 5,582.72 -66.20 489,624.27 786,467.36 32.3438172 -103.5398701 15,600.00 91.18 348.35 9,523.69 5,776.56 -115.06 489,818.11 786,362.74 32.3440855 -103.5398701 15,000.00 91.24 550.85 9,517.05 6,773.43 -165.23 490,114.97 786,346.61 32.3446266 -103.539976 16,200.00 91.30 353.85 9,517.05 6,773.43 -165.23 490,114.97 786,346.61 32.344	14,800.00	91.62	343.57	9,542.06	4,837.75	222.96	488,879.30	786,725.80	32.3414983	-103.5387796
	14,900.00	91.37	341.08	9,539.45	4,932.99	192.61	488,974.54	786,695.45	32.3417607	-103.5388755
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	15,000.00	91.12	338.59	9,537.28	5,026.83	158.15	489,068.38	786,660.98	32.3420193	-103.5389849
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	15,104.93	90.85	335.98	9,535.47	5,123.61	117.64	489,165.16	786,620.48	32.3422861	-103.5391137
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	15,200.00	90.85	335.98	9,534.06	5,210.43	78.95	489,251.98	786,581.79	32.3425255	-103.5392369
15,500.00 90.99 340.85 9,529.37 5,487.58 -35.48 489,529.13 786,467.36 32.3432896 -103.5396077 15,600.00 91.05 343.35 9,527.59 5,582.72 -66.20 489,624.27 786,466.43 32.3432896 -103.539679 15,000.00 91.18 348.35 9,523.69 5,776.56 -115.06 489,818.11 786,367.78 32.3440855 -103.5398674 15,000.00 91.24 350.85 9,521.58 5,874.88 +133.10 489,916.43 786,369.74 32.344526 -103.5399456 16,000.00 91.35 355.85 9,517.05 6,073.43 -156.23 490,114.97 786,346.61 32.344526 -103.5399776 16,201.00 91.43 359.64 9,513.37 6,224.59 -161.28 490,214.81 786,340.66 32.3454516 -103.5399931 16,201.00 91.43 359.64 9,513.37 6,224.59 -161.28 490,214.81 786,340.61 32.3454516 -103.5399921 16,200.00 91.43	15,305.01	90.85	335.98	9,532.50	5,306.34	36.21	489,347.89	786,539.05	32.3427900	-103.5393730
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17,500.0089.41359.649,511.237,473.05-170.00491,514.59786,332.8432.3487496-103.539988617,600.0089.41359.649,512.267,573.04-170.62491,614.58786,332.2132.3490244-103.539988217,700.0089.41359.649,513.297,673.03-171.25491,714.58786,331.5932.3492993-103.539987917,800.0089.41359.649,514.327,773.02-171.87491,814.57786,330.9732.3495741-103.5399875	101 101 101 101 101 101									A CONTRACTOR OF
17,600.0089.41359.649,512.267,573.04-170.62491,614.58786,332.2132.3490244-103.539988217,700.0089.41359.649,513.297,673.03-171.25491,714.58786,331.5932.3492993-103.539987917,800.0089.41359.649,514.327,773.02-171.87491,814.57786,330.9732.3495741-103.5399875							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			104 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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17,800.00 89.41 359.64 9,514.32 7,773.02 -171.87 491,814.57 786,330.97 32.3495741 -103.5399875	이 옷 옷 가지 않는 것 같아. ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?									
	79									
	17,900.00	89.41	359.64	9,515.35	7,873.02	-172.49	491,914.56	786,330.34	32.3498490	-103.5399871

6/13/2025 10:38:25AM

COMPASS 5000.17 Build

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well SERPENTINE 2 26 STATE FEDERAL COM 33H
Company:	WCDSC Permian NM	TVD Reference:	GL:3545.70+26ft @ 3571.70ft (H&P265)
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3545.70+26ft @ 3571.70ft (H&P265)
Site:	Sec 02-T23S-R33E	North Reference:	Grid
Well:	SERPENTINE 2 26 STATE FEDERAL COM 33H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	MS DIR V1 (1650FEL) AVALON B		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
18,000.00	89.41	359.64	9,516.39	7,973.01	- <mark>173.1</mark> 2	492,014.55	786,329.72	32.3501239	-103.5399867
18,100.00	89.41	359.64	9,517.42	8,073.00	-173.74	492,114.55	786,329.10	32.3503987	-103.5399863
18,200.00	89.41	359.64	9,518.45	8,173.00	-174.36	492,214.54	786,328.48	32.3506736	-103.5399860
18,300.00	89.41	359.64	9,519.48	8,272.99	-174.99	492,314.53	786,327.85	32.3509484	-103.5399856
18,400.00	89.41	359.64	9,520.51	8,372.98	-175.61	492,414.53	786,327.23	32.3512233	-103.5399852
18,500.00	89.41	359.64	9,521.54	8,472.97	-176.23	492,514.52	786,326.61	32.3514981	-103.5399848
18,600.00	89.41	359.64	9,522.57	8,572.97	-176.85	492,614.51	786,325.98	32.3517730	-103.5399844
18,700.00	89.41	359.64	9,523.61	8,672.96	-177.48	492,714.50	786,325.36	32.3520478	-103.539984
18,800.00	89.41	359.64	9,524.64	8,772.95	-178.10	492,814.50	786,324.74	32.3523227	-103.5399837
18,900.00	89.41	359.64	9,525.67	8,872.94	-178.72	492,914.49	786,324.11	32.3525975	-103.5399833
19,000.00	89.41	359.64	9,526.70	8,972.94	-179.35	493,014.48	786,323.49	32.3528724	-103.5399829
19,100.00	89.41	359.64	9,527.73	9,072.93	-179.97	493,114.47	786,322.87	32.3531472	-103.5399825
19,200.00	89.41	359.64	9,528.76	9,172.92	-180.59	493,214.47	786,322.24	32.3534221	-103.5399821
19,300.00	89.41	359.64	9,529.79	9,272.92	-181.22	493,314.46	786,321.62	32.3536969	-103.5399818
19,400.00	89.41	359.64	9,530.83	9,372.91	-181.84	493,414.45	786,321.00	32.3539718	-103.5399814
19,500.00	89.41	359.64	9,531.86	9,472.90	-182.46	493,514.44	786,320.38	32.3542466	-103.5399810
19,600.00	89.41	359.64	9,532.89	9,572.89	-183.09	493,614.44	786,319.75	32.3545215	-103.5399800
19,700.00	89.41	359.64	9,533.92	9,672.89	-183.71	493,714.43	786,319.13	32.3547963	-103.5399802
19,800.00	89.41	359.64	9,534.95	9,772.88	-184.33	493,814.42	786,318.51	32.3550712	-103.5399799
19,900.00	89.41	359.64	9,535.98	9,872.87	-184.96	493,914,41	786,317,88	32.3553460	-103.539979
20,000.00	89.41	359.64	9,537.01	9,972.86	-185.58	494,014.41	786,317.26	32.3556209	-103.539979
20,100.00	89.41	359.64	9,538.04	10,072.86	-186.20	494,114.40	786,316.64	32.3558957	-103.539978
20,200.00	89.41	359.64	9,539.08	10,172.85	-186.82	494,214.39	786,316.01	32.3561706	-103.5399783
20,300.00	89.41	359.64	9,540,11	10,272.84	-187.45	494,314.38	786,315.39	32.3564454	-103.5399779
20,400.00	89.41	359.64	9,541.14	10,372.84	-188.07	494,414.38	786,314.77	32.3567203	-103.5399770
20,500.00	89.41	359.64	9,542.17	10,472.83	-188.69	494,514,37	786,314.14	32.3569951	-103.539977
20,600.00	89.41	359.64	9,543.20	10,572.82	-189.32	494,614.36	786,313.52	32.3572700	-103.539976
20,700.00	89.41	359.64	9,544.23	10,672.81	-189.94	494,714.35	786,312.90	32.3575448	-103.5399764
20,800.00	89.41	359.64	9,545.26	10,772.81	-190.56	494,814.35	786,312.27	32.3578197	-103.539976
20,900.00	89.41	359.64	9,546.30	10,872.80	-191.19	494,914.34	786,311.65	32.3580945	-103.539975
21,000.00	89.41	359.64	9,547.33	10,972.79	-191.81	495,014.33	786,311.03	32.3583694	-103.5399753
21,100.00	89.41	359.64	9,548.36	11,072.79	-192.43	495,114.32	786,310.41	32.3586442	-103.5399749
21,162.17	89.41	359.64	9,549.00	11,134.95	-192.82	495,176.49	786,310.02	32.3588151	-103.539974
21,200.00	89.41	359.64	9,549.39	11,172.78	-193.06	495,214.32	786,309.78	32.3589191	-103.539974
21,242.17	89.41	359,64	9,549.83	11,214,94	-193.32	495,256.48	786,309.52	32.3590350	-103.5399743

					ls & Nat	tural	New Mexico Resources Department FION DIVISION				ised July, 2024
	lectronically Permitting								Submittal	Initial Submittal	
							Type:			Amended Repor	t
										As Drilled	
				WI	ELL LOC		ON INFORMATIO	N			
	umber		Pool Cod	e 7321		P	ool Name BRIN	ININSTOO	L-BONE	SPRING	
	025-54681 rty Code		Property							Well Number	
	3116				PENTINE	2-2	26 STATE FEDERA	L COM		33H	
OGRID No. Operator Name 6137 DEVON ENERGY				Y PR	ODUCTION COMPA	NY. L.P.		Ground Level 3547.5'	Elevation		
Surface Owner: ZState DFee DTribal DFederal								Tribal XFederal			
							ce Location				1
	Section	Township	Range	Lot	Ft. fron			Latitude		Longitude	County
0	2	23–S	33-E		638'	2	1543' E	32.328	206	103.539618	LEA
							Hole Location	* *	I	• •	
	Section	Township	Range	Lot	Ft. fron	,	,	Latitude		Longitude	County
0	26	22–S	33-E		1300'	8	1650' E	32.359	035	103.539974	LEA
Dedicat	ed Acres	Infill or Def	ining Well	Defining	Well API	Overl	apping Spacing Uni	+ (Y/N)	Consolid	ation Code	
	9.58	X		30-025-		overn	N	. (1715)	consona	C	
	Numbers	N/A				W-11	setbacks are under	C	0		
order	liumbers	10/1				wen	setbacks are under	common	ownersn	ip. Ties Mile	
					Kic	k Off	Point (KOP)				
	Section	Township	Range	Lot	Ft. from	•	,	Latitude		Longitude	County
P	2	23–S	33-E		133'	S	1200'E	32.326	812	103.538509	LEA
	1	1					ke Point (FTP)				
	Section	Township	Range	Lot	Ft. fron	•	,	Latitude		Longitude	County
Р	2	23-S	33-E		303'	S	1200'E	32.327	280	103.538508	LEA
r	1	r	r				ke Point (LTP)				
	Section	Township	Range	Lot	Ft. fron	•		Latitude		Longitude	County
	26	22–S	33-E		1220'	5	1650' E	32.358	615	103.539975	LEA
					Spac	ing I	Jnit Type Horizon	tal Verti	ca) [(Ground Floor Elev	vation.
					opac	ing 0				N/A	acion.
									•		
		FICATIONS					SURVEYOR CERTIFIC	ATIONS			
of my kno	owledge and b	e information con belief, and, if the	well is a vertice	al or directio	onal well, that	t this	I hereby certify that the we of actual surveys made by				
		ns a working inte bottom hole loc				inu	correct to the best of my be		upervision, a		
		contract with an on voluntary pooli				rder				ERT R. D	EHOLOS CC
	e entered by t		ng agreement (n a compais	ory pooring o	luci				R'BEN MEX	
		tal well, I furthe									$\mathcal{O} \setminus \mathcal{O} \setminus \mathcal{O}$
		lessee or owner on the target pool								23261	
		be located or ob								PRX Opel	<u>ل</u> ک
							~				
	ture	$\sum_{i=1}^{n} 0$	Date			5	Signature and Seal	of Profe	ssional S	Surveyor ONAL	SUR
Drinte	ed Name	Istal		(6/14/2025		Certificate Number	Date of	C		
		latory Analyst					Jerumeate Number		•		
	Address						23261	03/21	/2025		
rebec	ca.deal@dvn.	com									

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.





Section 2 - Blowout Preventer Testing Procedure

Variance Request

Devon Energy requests to only test BOP connection breaks after drilling out of surface casing and while skidding between wells which conforms to API Standard 53 and industry standards. The initial BOP test will follow 43 CFR 3172, and subsequent tests following a skid will only test connections that are broken. This test will at minimum include the Top Pipe Ram, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and BOP shell of the 10M BOPE to 5M for 10 minutes. Additional pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. If a break to the flex hose that runs to the choke manifold is required due to repositioning from a skid, the HCR will remain open during the shell test to include that additional break. The variance only pertains to intermediate hole-sections. This variance will meet or exceed 43 CFR 3172 per the following: Devon Energy will perform a full BOP test per 43 CFR 3172 before drilling out of the intermediate casing string(s) and starting the production hole, testing the Annular during initial BOP testing to a minimum of 70% RWP and higher than MASP, and pressure testing at a 21-day interval frequency. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. In the event break testing is not utilized, then a full BOPE test would be conducted.

Devon Energy requests to perform offline BOP stump testing and offline BOPE testing. All pressurecontaining and pressure-controlling seals will be tested either online or offline as denoted in the table below and per BLM approval during initial BOP test following test pressure requirements set forth in 43 CFR 3172. Remaining components not tested offline or on the stump will be tested within 72-hours when the BOP is connected to the wellhead. If stump testing exceeds 72-hour window prior to connecting to the wellhead, the BLM will be notified and either stump testing restarted, or the BOP being tested online. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. In the event stump testing is not utilized, then a full BOPE test would be conducted.

Components	Offline	Offline, BOPE	Break	Online
Upper Rams		Х	Х	Х
Blind Rams		Х		Х
Lower Rams				Х
Outside Kill Valve		X	Х	Х
Inside Kill Valve		X	Х	Х
Kill Line Check Valve		X	Х	Х
Inside Choke Valve		X	Х	Х
HCR		X	Х	X
Kill Line	Х			X
Annular		X		Х
Choke Manifold Valves and Hose	Х			X
Mudline (Mud Pumps, Rig Floor Valves, Kelly Hose, Mud Line)	Х			X
Standpipe Valve	Х			X
IBOP (Upper and Lower)	Х			Х

Devon requests offline BOPE testing for the following components: Upper Rams, Blind Rams, Kill Valves, Choke Valves, and Annular Remaining well control equipment components will either be tested offline or online, per BLM approval

Remaining BOPE will be tested online within 72-hours form completing the offline BOPE component testing

Notify the BLM if the online BOPE testing exceeds 72-hours

All Full Tests not completed "Offline" or "Offline, BOPE" are required to be complete Online

Devon requests Break testing as stated above for 5K tests, not including production hole

Annular Preventer will be tested to minimum of 70% RWP and higher than MASP during initial BOP test

Pressure testing is required for pressure-containing connections if the integrity of a pressure seal is broken during a break test Full Tests required when entering production hole



Received by OCD: 6/16/2025 9:07:02 AM

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1. Geologic Formations

TVD of target	9549	Pilot hole depth	N/A
MD at TD:	21242	Deepest expected fresh water	

Basin

Formation	Depth (TVD)	Water/Mineral Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	952		
Salt	1233		
Base of Salt	5068		
Delaware	5068		
Cherry Canyon	5918		
Brushy Canyon	7319		
1st Bone Spring Lime	8981		
Avalon	9400		

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

SERPENTINE 2 35 STATE FEDERAL COM 33H

		Wt			Casing	Interval	Casing Interval		
Hole Size	Csg. Size	(PPF)	Grade	Grade Conn		To (MD)	From (TVD)	To (TVD)	
17 1/2	13 3/8	54 1/2	J-55	BTC	0	977	0	977	
12 1/4	9 5/8	40	J - 55	BTC	0	5168	0	5168	
8 3/4	5 1/2	20	P110	DWC / C-IS+	0	21242	0	9549	

2. Casing Program

•All casing strings will be tested in accordance with 43 CFR 3172. Must have table for contingency casing.

SERPENTINE 2 35 STATE FEDERAL COM 33H

Casing	# Sks	тос	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	746	Surf	13.2	1.4	Lead: Class C Cement + additives
Int 1	572	Surf	9.0	3.3	Lead: Class C Cement + additives
IIIU I	154	4668	13.2	1.4	Tail: Class H / C + additives
Int 1	744	Surf	9.0	3.3	Squeeze Lead: Class C Cement + additives
Intermediate	572	Surf	9.0	3.3	Lead: Class C Cement + additives
Squeeze	154	4668	13.2	1.4	Tail: Class H / C + additives
Production	384	4668	9.0	3.3	Lead: Class H /C + additives
Production	2328	9176	13.2	1.4	Tail: Class H / C + additives

3. Cementing Program (3-String Primary Design)

Devon Energy requests to offline cement on intermediate strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements

Casing String	% Excess
Surface	50%
Intermediate	30%
Production	10%

SERPENTINE 2 35 STATE FEDERAL COM 33H

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4. Pressure Control Equipment (Inree String Design)																																													
BOP installed and tested before drilling which hole?	Size?	Min. Required WP	T	уре	✓	Tested to:																																							
			Anı	nular	X	50% of rated working pressure																																							
L.4.1	12 501	514	Bline	d Ram	X																																								
Int 1	13-58"	5M	Pipe	Ram		5) (
			Doub	le Ram	Х	5M																																							
			Other*																																										
	13-5/8"			5M	5M	5M	5M	Am	nular	X	50% of rated working pressure																																		
Production		5M	5M					3-5/8" 5M	13-5/8" 5M	13-5/8" 5M Blind Pipe F Double	3" 5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	514	514	514	514	514	514	514	514	514	514	Bline	d Ram	Х	
Production																																Pipe	Ram		5M										
											le Ram	Х	JIVI																																
			Other*]																																							
			Annul	ar (5M)																																									
			Bline	d Ram																																									
			Pipe	Ram																																									
			Doub	le Ram]																																							
			Other*																																										

4. Pressure Control Equipment (Three String Design)

5. Mud Program (Three String Design)

Section	Туре	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	Brine	10-10.5
Production	WBM	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, Co	oring and Testing
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the
Х	Completion Report 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	
	Density	
Х	CBL	Production casing
Х	Mud log	KOP to TD
	PEX	

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	4469
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 concentrationsgreater than 100 ppm, the operator will comply with the provisions of 43 CFR 3176. If Hydrogen Sulfide is encounteredmeasured values and formations will be provided to the BLM.NH2S 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 (43 CFR 3172, all COAs and NMOCD regulations).

 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.

- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pad.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. At that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan Other, describe



Sundry Print Report 06/16/2025

Well Name: SERPENTINE 2 26 STATE FED COM	Well Location: T23S / R33E / SEC 2 / SWSE / 32.328206 / -103.539618	County or Parish/State: LEA / NM
Well Number: 33H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM113969	Unit or CA Name:	Unit or CA Number:
US Well Number:	Operator : DEVON ENERGY PRODUCTION COMPANY LP	

LONG VO Date: 2025.06.16 09:30:45 -05'00'

Notice of Intent

BUREAU OF LAND MANAGEMENT

Sundry ID: 2858145

Type of Submission: Notice of Intent

Date Sundry Submitted: 06/14/2025

Date proposed operation will begin: 06/14/2025

Type of Action: APD Change Time Sundry Submitted: 03:48

Procedure Description: API 30-025-54681. Engineering Only - Devon Energy Production Company L.P. respectfully requests the following changes to the approved APD: KOP change from 45 FSL & 1650 FEL to 133 FSL & 1200 FEL, both 2-23S-33E FTP change from 100 FSL & 1650 FEL to 303 FSL & 1200 FEL, both 2-23S-33E Spacing, SHL, LTP, and BHL remain unchanged. TVD/MD Change from 9500'/14,698' to 9549'/21,242' Casing program change: Minor Production Casing depth change. Production cement volume changes to accommodate casing change. Stump variance request included. Please see attached revised C-102, drilling & directional plans, and supporting documentation.

NOI Attachments

Procedure Description

Plan_1_Geo_Report__1_Rev__20250614154449.pdf SERPENTINE_2_26_STATE_FEDERAL_COM_33H_C_102_WB_NOIpdf_20250614152726.pdf Break_Test_Variance_Offline_BOP_2_3_2025_20250614152724.pdf

SERPENTINE_2_35_STATE_FEDERAL_COM_33H_6_13_2025__1_20250614152722.pdf

Received by OCI	FED COM	Well Location: T23S / R33E / SEC 2 / SWSE / 32.328206 / -103.539618	County or Parish/State: LEA / NM	Page 25 of 58
	Well Number: 33H	Type of Well: OIL WELL	Allottee or Tribe Name:	
	Lease Number: NMNM113969	Unit or CA Name:	Unit or CA Number:	
	US Well Number:	Operator: DEVON ENERGY PRODUCTION COMPANY LP		

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: REBECCA DEAL

Signed on: JUN 14, 2025 03:29 PM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Professional

Street Address: 333 W SHERIDAN AVE

City: OKLAHOMA CITY State: OK

Phone: (405) 228-8429

Email address: REBECCA.DEAL@DVN.COM

Field

Representative Name:	
Street Address:	
City:	State:
Phone:	
Email address:	

Zip:

APPROVED by Long Vo

Petroleum Engineer Carlsbad Field Office 575-988-50402 LVO@BLM.GOV

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company LP 🗸
LOCATION:	Section 2, T.23 S., R.33 E., NMPM
COUNTY:	Lea County, New Mexico 🔽

WELL NAME & NO.:	Serpentine 2 26 State Fed Com 33H
ATS/API ID:	3002554681
APD ID:	10400099895
Sundry ID:	2858145

COA

r			
H2S	No		
Potash	•	None	
Cave/Karst Potential	Low		
Cave/Karst Potential	Critical		
Variance	🖸 None	🖸 Flex Hose	C Other
Wellhead	Conventional and Multibowl	•	
Other	\Box 4 String \Box 5 String	Capitan Reef	□WIPP
		None 💌	
Other	Pilot Hole	🗖 Open Annulus	
	None 💌		
Cementing	Contingency Squeeze	Echo-Meter	Primary Cement
	Int 1	None 🔻	Squeeze
			None 👻
Special	□ Water Disposal/Injection	COM	Unit Unit
Requirements			
Special	Batch Sundry	Waste Prevention	
Requirements		Waste MP	
Special	☑ BOPE Break Testing	Offline Cementing	□ Casing Clearance
Requirements	Offline BOPE Testing		
Variance			

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet **43 CFR part 3170 Subpart 3176**, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

- The 13-3/8 inch surface casing shall be set at approximately 1150 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be 17 1/2 inch in diameter.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u>
 <u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Operator has proposed to pump down 13-3/8" X 9-5/8" annulus after primary cementing stage. <u>Operator must run a CBL from TD of the 9-5/8" casing to surface. Submit results to the BLM.</u> Operator may conduct a negative and positive pressure test during completion to remediate sustained casing pressure.

If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

- In <u>Ochoa Potash Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 500 feet into the previous casing string. Operator shall provide method of verification.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash. Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi. Annular which shall be tested to 2100 (70% Working Pressure) psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9-5/8** inch intermediate casing shoe shall be **5000 (5M)** psi.

Option 2:

- a. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 13-3/8 inch 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 43 CFR 3172.6(b)(9) must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR part 3170 Subpart 3171
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

BOPE Break Testing Variance (Approved)

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at **21**-day intervals.

- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR part 3170 Subpart 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline BOPE Testing

Operator has been (Approved) to test the BOPE offline.

The BOPE offline testing shall be stationary during pressure testing.

Online BOPE testing should commence within 72 hours of offline BOPE testing completion. Notify the BLM if interval exceeds 72 hours.

Notify the BLM 4hrs prior to offline BOPE testing at Lea County: 575-689-5981.

Offline Cementing

Operator has been (**Approved**) to pump the proposed cement program offline in the **Intermediate(s) interval**.

Offline cementing should commence within 24 hours of landing the casing for the interval.

Notify the BLM 4hrs prior to cementing offline at Lea County: 575-689-5981.

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)

Lea County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

- 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 **43 CFR part 3170 Subpart 3172** 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.

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.

- 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 of both lead and tail cement, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. The casing integrity 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 <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 integrity 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
- All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 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 43 CFR 3172.6(b)(9) 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 cement), 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 cement plug. The BOPE test can be

initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR part 3170
 Subpart 3172 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 8 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 43 CFR part 3170 Subpart 3172.

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

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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.

Long Vo (LVO) 6/16/2025

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eceived by OCD:	6/16/2025 9:	07:02 AM							Page 36 of 5	
Form 3160-5 (June 2019)	UNITED STATES DEPARTMENT OF THE INTERIOR					FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021				
	BUR		5. Lea	ase Serial No.	NMN	M113969				
SUNDRY NOTICES AND REPORTS ON WEL Do not use this form for proposals to drill or to re abandoned well. Use Form 3160-3 (APD) for such p					enter an			be Name		
	SUBMIT IN	TRIPLICATE - Other instru	ictions on page	ə 2	7. If U	Jnit of CA/Agree	ment, Nam	e and/or No.		
1. Type of Well						8. Well Name and No. SERPENTINE 2 26 STATE FED COM/33H				
2. Name of Operator	DEVON ENERG	GY PRODUCTION COMP	ANY LP		9. AP	9. API Well No.				
				(include area cod 1	·	10. Field and Pool or Exploratory Area BRINNINSTOOL/BONE SPRING				
4. Location of Well (<i>Footage, Sec., T.,R.,M., or Survey Description</i>) SEC 2/T23S/R33E/NMP						11. Country or Parish, State LEA/NM				
	12. CHE	ECK THE APPROPRIATE BO	OX(ES) TO INI	DICATE NATURI	e of not	TICE, REPORT C	OR OTHER	DATA		
TYPE OF SUE	MISSION			TY	PE OF A	CTION				
✓ Notice of Inter	t	Acidize	Deep	en aulic Fracturing		oduction (Start/Re clamation	esume)	Water Shut-Off Well Integrity		
Subsequent Re	port	Casing Repair Change Plans		Construction and Abandon	_	complete nporarily Abando) n	Other		
Final Abandon	ment Notice	Convert to Injection	Plug	Back	🗌 Wa	ter Disposal				
the proposal is to the Bond under w completion of the completed. Final <i>i</i> is ready for final i	deepen directiona hich the work wil involved operation Abandonment No nspection.)	Operation: Clearly state all per ally or recomplete horizontall Il be perfonned or provide the ons. If the operation results in stices must be filed only after ng Only - Devon Energy Pr	y, give subsurfa e Bond No. on fi a a multiple com all requirements	ce locations and 1 le with BLM/BIA pletion or recomp s, including reclar	neasured a A. Require pletion in mation, ha	and true vertical d ed subsequent rep a new interval, a we been complete	depths of al orts must b Form 3160 ed and the c	l pertinent markers a e filed within 30 days -4 must be filed once operator has detennin	nd zones. Attach s following e testing has been led that the site	
APD:										
FTP change fr	om 100 FSL & ⁻	650 FEL to 133 FSL & 120 1650 FEL to 303 FSL & 12 remain unchanged.								
	m change: Minc	4,698 to 9549/21,242 or Production Casing depth	ı change. Prod	uction cement v	olume cł	nanges to accor	nmodate c	asing change. Stur	mp	
Please see att	ached revised (C-102, drilling & directional	plans, and su	pporting docum	entation.					
14. I hereby certify that	t the foregoing is	s true and correct. Name (Pri	nted/Typed)							
REBECCA DEAL /			· · · /	Regulato	ry Profes	sional				

THE SPACE FOR FEDERAL OR STATE OFICE USE									
(Electronic Submission)	Date	06/14/2025							
REBECCA BEAE / 111. (403) 220-0423	Title	Title							

Approved by							
	Title	Date					
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.	Office						
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.							

(Instructions on page 2)

Released to Imaging: 6/23/2025 1:37:16 PM
This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

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

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

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

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

Additional Information

Location of Well

0. SHL: SWSE / 638 FSL / 1543 FEL / TWSP: 23S / RANGE: 33E / SECTION: 2 / LAT: 32.328206 / LONG: -103.539618 (TVD: 0 feet, MD: 0 feet) PPP: SWSE / 157 FSL / 1657 FEL / TWSP: 22S / RANGE: 33E / SECTION: 35 / LAT: 32.3413857 / LONG: -103.5399719 (TVD: 9500 feet, MD: 14700 feet) BHL: SWSE / 1300 FSL / 1650 FEL / TWSP: 22S / RANGE: 33E / SECTION: 26 / LAT: 32.359035 / LONG: -103.539974 (TVD: 9500 feet, MD: 21121 feet)

WCDSC Permian NM

Lea County (NAD83 New Mexico East) Sec 02-T23S-R33E SERPENTINE 2 26 STATE FEDERAL COM 33H WA022495087 Wellbore #1

Plan: MS DIR V1 (1650FEL) AVALON B

Standard Planning Report - Geographic

13 June, 2025

Database: Company: Project: Site: Well: Wellbore: Design:	Sec 02-T23S SERPENTIN 33H Wellbore #1	mian NM NAD83 New I I-R33E	FEDERAL COM	TVD Reference MD Reference North Reference	ə:	Well SERPEN COM 33H GL:3545.70+2 GL:3545.70+2 Grid Minimum Curv	6ft @ 3571 6ft @ 3571	1.70ft (H&P26	5)
Project	Lea County (N	AD83 New M	lexico East)						
Geo Datain.	US State Plane North American New Mexico Ea	Datum 1983		System Datum	:	Mean Sea Level			
Site	Sec 02-T23S-	R33E							
Site Position: From: Position Uncertainty:	Мар	5.00 ft	Northing: Easting: Slot Radius:	488,666 782,735 13				1	32.3409939 -103.5517032
Well	SERPENTINE	2 26 STATE	FEDERAL COM 33H	2					
Well Position Position Uncertainty	+N/-S +E/-W	0.00 ft 0.00 ft 0.50 ft	Northing: Easting: Wellhead Eley	5	84,041.56 usft 86,502.84 usft ft	Latitude: Longitude: Ground Level:			32.3282058 -103.5396175 3,545.70 ft
Grid Convergence:		0.42 °	Hennedd Eler		n	oround Level.			0,040.70 1
Wellbore	Wellbore #1								
Magnetics	Model Na	me	Sample Date	Declination (°)	1	Dip Angle (°)	F	ield Strength (nT)	
	IGI	RF2015	12/31/2019		6.67	60.13		47,741.4114	1181
Design	MS DIR V1 (1	650FEL) AVA	LON B						
Audit Notes:									
Version:			Phase:	PLAN	Tie On De	pth:	0.00		
Vertical Section:		Depth	From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	D	irection (°)		
			0.00	0.00	0.00		359.01		
Plan Survey Tool Pro Depth From (ft)	ogram Depth To (ft)	Date 6/13 Survey (Well		Tool Name	Rem	arks			
1 0.00	21,242.17	MS DIR V1 (1	650FEL) AVALON	MWD+HDGM OWSG MWD + H					

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well SERPENTINE 2 26 STATE FEDERAL COM 33H
Company:	WCDSC Permian NM	TVD Reference:	GL:3545.70+26ft @ 3571.70ft (H&P265)
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3545.70+26ft @ 3571.70ft (H&P265)
Site:	Sec 02-T23S-R33E	North Reference:	Grid
Well:	SERPENTINE 2 26 STATE FEDERAL COM 33H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	MS DIR V1 (1650FEL) AVALON B		

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,033.33	8.00	145.43	2,031.60	-30.61	21.09	1.50	1.50	0.00	145.43	
5,577.42	8.00	145.43	5,541.20	-436.78	300.94	0.00	0.00	0.00	0.00	
6,720.28	0.00	0.00	6,680.35	-502.37	346.14	0.70	-0.70	0.00	180.00	
9,176.47	0.00	0.00	9,136.54	-502.37	346.14	0.00	0.00	0.00	0.00	
9,926.47	90.00	359.64	9,614.01	-24.91	343.16	12.00	12.00	-0.05	359. <mark>64</mark>	
13,253.52	90.00	359.64	9,614.00	3,302.07	322.43	0.00	0.00	0.00	0.00	
13,410.26	93.13	359.64	9,609.71	3,458.73	321.45	2.00	2.00	0.00	0.00	
14,154.72	93.13	359.64	9,569.00	4,202.06	316.82	0.00	0.00	0.00	0.00	
15,104.93	90.85	335.98	9,535.47	5,123.61	117.64	2.50	-0.24	-2.49	-95.02	
15,305.01	90.85	335.98	9,532.50	5,306.34	36.21	0.00	0.00	0.00	0.00	
16,251.36	91.43	359.64	9,513.37	6,224.59	-162.18	2.50	0.06	2.50	88.37	
16,6 <mark>2</mark> 5.99	91.43	359.64	9,504.00	6,599.10	-164.55	0.00	0.00	0.00	0.00	
16,727.16	89.41	359.64	9,503.26	6,700.26	-165.18	2.00	-2.00	0.01	179.85	
21,162.17	89.41	359.64	9,549.00	11,134.95	-192.82	0.00	0.00	0.00	0.00	
21,242.17	89.41	359.64	9,549.83	11,214.94	-193.32	0.00	0.00	0.00	0.00	

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well SERPENTINE 2 26 STATE FEDERAL COM 33H
Company:	WCDSC Permian NM	TVD Reference:	GL:3545.70+26ft @ 3571.70ft (H&P265)
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3545.70+26ft @ 3571.70ft (H&P265)
Site:	Sec 02-T23S-R33E	North Reference:	Grid
Well:	SERPENTINE 2 26 STATE FEDERAL COM 33H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	MS DIR V1 (1650FEL) AVALON B		

Planned Survey

0.00 0.00 0.00 0.00 0.00 444,041 56 776,6022 b4 22.328058 +10.5386175 0.00 0.00 0.00 0.00 0.00 0.00 444,041 56 776,6022 b4 32.328058 +10.5386175 0.00 0.00 0.00 400.00 0.00 404,041 56 776,6022 b4 32.328058 +10.33386175 0.00 0.00 0.00 400.00 0.00 444,041 56 776,602 b4 32.328058 +10.33386175 0.00 0.00 0.00 0.00 444,041 56 776,502 b4 32.328058 +10.33586175 0.00 0.00 0.00 0.00 0.00 444,041 56 776,502 b4 32.328058 +10.33586175 0.00 0.00 0.00 0.00 0.00 444,041 56 776,502 b4 32.328058 +10.33586175 0.00 0.00 0.00 0.00 0.00 444,041 56 776,502 b4 32.328058 +10.33586175 1.00.00 0.00 0.00 0.00	Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
100.00 0.00 0.00 0.00 444.04156 765.02.84 32.2220268 -103.3398175 300.00 0.00 0.00 0.00 0.00 0.00 444.04156 765.02.84 32.2220268 -103.3398175 400.00 0.00 0.00 0.00 0.00 0.00 444.04156 765.502.84 32.2220268 -103.3398175 600.00 0.00 0.00 0.00 0.00 0.00 444.04156 765.502.84 32.2220268 -103.3398175 700.00 0.00 0.00 0.00 0.00 444.04156 776.502.84 32.282058 -103.3398175 900.00 0.00 0.00 0.00 444.04156 776.502.84 32.282058 -103.3398175 1,000.00 0.00 0.00 0.00 444.04156 776.502.84 32.282058 -103.3398175 1,000.00 0.00 1.000.00 0.00 0.00 444.04156 776.502.84 32.282058 -103.3398175 1,000.00 0.00 1.000.00	0.00			0.00	0.00	0.00	484 041 56	786 502 84	32 3282058	-103 5396175
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1,600,00 1.50 145,43 1,599,99 -1.08 0.74 484,037.25 786,505.81 32.222028 -103.539661 1,700,00 4.50 145,43 1,599,91 -4.31 2.97 484,037.25 786,505.81 32.2281780 -103.5395661 1,900,00 6.00 145,43 1,998,927 -17.23 11.87 484,014.65 786,509.52 32.2281782 -103.5395661 2,000,00 6.00 145,43 2,097.62 -38.25 2.63.6 484,010.45 786,522.93 32.2281715 -103.5395631 2,000,00 8.00 145,43 2,097.62 -38.25 2.63.6 484,010.31 786,522.91 32.2280065 -103.5395671 2,000,00 8.00 145,43 2,996.67 -61.17 42.15 483,960.39 786,542.99 32.280062 -103.5394672 2,000,00 8.00 145,43 2,994.70 -72.63 50.04 483,964.01 786,562.78 32.227913 -103.5394672 2,000,00 8.00 145,43 2,994.78 </td <td>1,400.00</td> <td>0.00</td> <td>0.00</td> <td>1,400.00</td> <td>0.00</td> <td>0.00</td> <td>484,041.56</td> <td>786,502.84</td> <td>32.3282058</td> <td>-103.5396175</td>	1,400.00	0.00	0.00	1,400.00	0.00	0.00	484,041.56	786,502.84	32.3282058	-103.5396175
1,700 00 3.00 145,43 1,599,91 -4.31 2.97 44,031,86 786,509,52 32.3281790 -103.5395661 1,900,00 6.00 145,43 1,999,67 -26,91 11.87 444,024.33 786,514,71 32.3281582 -103.5395795 2,000,00 7.50 145,43 1,999,67 -26,91 18.54 444,010,95 786,522,93 32.3281151 -103.5395500 2,000,00 8.00 145,43 2,097,62 -38.25 26.36 444,010,95 786,522,93 32.3281201 -103.5395076 2,000,00 8.00 145,43 2,996,65 -49.71 42.15 443,901,39 786,542,93 32.3280685 -103.5394320 2,000,00 8.00 145,43 2,996,75 -95.55 55.44 483,957,47 786,560,78 32.3279418 -103.5394320 2,600,00 8.00 145,43 2,992,75 -95.55 55.44 483,954,07 785,560,78 32.327146 -103.5394320 2,600,00 8.00 145,43 2,990,81<	1,500.00	0.00	0.00	1,500.00	0.00	0.00	484,041.56	786,502.84	32.3282058	-103.5396175
$ \left \begin{array}{cccccccccccccccccccccccccccccccccccc$	1,600.00	1.50	145.43	1,599.99	-1.08	0.74	484,040.48	786,503.58	32.3282028	-103.5396151
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4,200.00 8.00 145.43 4,177.18 -278.92 192.18 483,762.64 786,695.02 32.3274353 -103.5390021 4,300.00 8.00 145.43 4,276.21 -290.38 200.07 483,751.18 786,702.91 32.3274036 -103.5389768 4,400.00 8.00 145.43 4,375.24 -301.84 207.97 483,797.2 786,710.81 32.327319 -103.5389515 4,500.00 8.00 145.43 4,474.26 -313.30 215.87 483,728.26 786,718.70 32.3273403 -103.5389262 4,600.00 8.00 145.43 4,573.29 -324.76 223.76 483,716.80 786,726.60 32.3273086 -103.5389009 4,700.00 8.00 145.43 4,672.32 -336.22 231.66 483,705.34 786,734.50 32.327270 -103.5388756 4,800.00 8.00 145.43 4,672.32 -336.22 231.66 483,693.88 786,742.39 32.3272453 -103.5388504 4,900.00 8.00 145.43 4,870.37 -359.14 247.45 483,682.42 786,750.29 32.3272136<										
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4,400.00 8.00 145.43 4,375.24 -301.84 207.97 483,739.72 786,710.81 32.3273719 -103.5389515 4,500.00 8.00 145.43 4,474.26 -313.30 215.87 483,728.26 786,718.70 32.3273403 -103.5389515 4,600.00 8.00 145.43 4,474.26 -313.30 215.87 483,728.26 786,718.70 32.3273403 -103.5389262 4,600.00 8.00 145.43 4,573.29 -324.76 223.76 483,716.80 786,726.60 32.3273086 -103.5389009 4,700.00 8.00 145.43 4,672.32 -336.22 231.66 483,705.34 786,734.50 32.3272770 -103.5388756 4,800.00 8.00 145.43 4,771.34 -347.68 239.56 483,693.88 786,742.39 32.3272453 -103.5388504 4,900.00 8.00 145.43 4,870.37 -359.14 247.45 483,682.42 786,750.29 32.3272136 -103.5388251 5,000.00 8.00 145.43	(0)							15		
4,500.00 8.00 145.43 4,474.26 -313.30 215.87 483,728.26 786,718.70 32.3273403 -103.5389262 4,600.00 8.00 145.43 4,573.29 -324.76 223.76 483,716.80 786,726.60 32.3273086 -103.5389009 4,700.00 8.00 145.43 4,672.32 -336.22 231.66 483,705.34 786,734.50 32.3272770 -103.5388756 4,800.00 8.00 145.43 4,672.32 -336.22 231.66 483,705.34 786,734.50 32.3272770 -103.5388756 4,800.00 8.00 145.43 4,771.34 -347.68 239.56 483,693.88 786,742.39 32.3272453 -103.5388504 4,900.00 8.00 145.43 4,870.37 -359.14 247.45 483,682.42 786,750.29 32.3272136 -103.5388251 5,000.00 8.00 145.43 4,969.40 -370.60 255.35 483,670.96 786,758.19 32.3271820 -103.5387998	922 South Cold									
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4,700.008.00145.434,672.32-336.22231.66483,705.34786,734.5032.3272770-103.53887564,800.008.00145.434,771.34-347.68239.56483,693.88786,742.3932.3272453-103.53885044,900.008.00145.434,870.37-359.14247.45483,682.42786,750.2932.3272136-103.53882515,000.008.00145.434,969.40-370.60255.35483,670.96786,758.1932.3271820-103.5387988	2010/01/2017									
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	(9)							13		
j 5,100.00 8.00 145.43 5,068.42 -382.06 263.25 483,659.50 786,766.08 32.3271503 -103.5387745 l	5,100.00		145.43	5,068.42	-382.06	263.25	483,659.50	786,766.08	32.3271503	-103.5387745

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Database:	EDM_5000.17	Local Co-ordinate Reference:	Well SERPENTINE 2 26 STATE FEDERAL COM 33H
Company:	WCDSC Permian NM	TVD Reference:	GL:3545.70+26ft @ 3571.70ft (H&P265)
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3545.70+26ft @ 3571.70ft (H&P265)
Site:	Sec 02-T23S-R33E	North Reference:	Grid
Well:	SERPENTINE 2 26 STATE FEDERAL COM 33H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	MS DIR V1 (1650FEL) AVALON B		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,200.00		145.43	5,167.45	-393.52	271.14	483,648.04	786,773.98	32.3271187	-103.5387492
5,300.00		145.43	5,266.48	-404.98	279.04	483,636.58	786,781.88	32.3270870	-103.5387239
5,400.00		145.43	5,365.50	-404.90	286.93	483,625.12	786,789.77	32.3270570	-103.5386986
5,500.00		145.43	5,464.53	-410.44	294.83	483,613.66	786,797.67	32.3270333	-103.5386733
5,577.42		145.43	5,541.20	-436.78	300.94	483,604.79	786,803.78	32.3269992	-103.5386538
5,600.00		145.43	5,563.56	-439.34	302.71	483,602.22	786,805.55	32.3269921	-103.5386481
5,700.00		145.43	5,662.71	-450.07	310.11	483,591.49	786,812.94	32.3269624	-103.5386244
5,800.00		145.43	5,762.01	-459.81	316.82	483,581.75	786,819.65	32.3269355	-103.5386029
5,900.00		145.43	5,861.44	-468.55	322.84	483,573.01	786,825.68	32.3269114	-103.5385837
6,000.00		145.43	5,961.00	-476.29	328.17	483,565.27	786,831.01	32.3268900	-103.5385666
6,100.00		145.43	6,060.66	-483.03	332.81	483,558.54	786,835.65	32.3268714	-103.5385517
6,200.00		145.43	6,160.42	-488.76	336.76	483,552.80	786,839.60	32.3268556	-103.5385391
6,300.00		145.43	6,260.25	-493.49	340.02	483,548.08	786,842.86	32.3268425	-103.5385286
6,400.00		145.43	6,360.15	-497.21	342.59	483,544.35	786,845.42	32.3268322	-103.5385204
6,500.00		145.43	6,460.09	-499.93	344.46	483,541.63	786,847.30	32.3268247	-103.5385144
6,600.00		145.43	6,560.07	-501.64	345.64	483,539.92	786,848.48	32.3268200	-103.5385106
6,700.00		145.43	6,660.07	-502.35	346.13	483,539.21	786,848.96	32.3268180	-103.5385091
6,720.28		0.00	6,680.35	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
6,800.00		0.00	6,760.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
6,900.00	0.00	0.00	6,860.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
7,000.00	0.00	0.00	6,960.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
7,100.00	0.00	0.00	7,060.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
7,200.00	0.00	0.00	7,160.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
7,300.00	0.00	0.00	7,260.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
7,400.00	0.00	0.00	7,360.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
7,500.00	0.00	0.00	7,460.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
7,600.00	0.00	0.00	7,560.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
7,700.00	0.00	0.00	7,660.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
7,800.00	0.00	0.00	7,760.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
7,900.00	0.00	0.00	7,860.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
8,000.00	0.00	0.00	7,960.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
8,100.00		0.00	8,060.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
8,200.00		0.00	8,160.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
8,300.00		0.00	8,260.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
8,400.00		0.00	8,360.07	-502.37	346.14	483,5 <u>3</u> 9.19	786,848.98	32.3268180	-103.5385090
8,500.00		0.00	8,460.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
8,600.00		0.00	8,560.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
8,700.00		0.00	8,660.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
8,800.00		0.00	8,760.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
8,900.00		0.00	8,860.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
9,000.00		0.00	8,960.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
9,100.00		0.00	9,060.07	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
9,176.47		0.00	9,136.54	-502.37	346.14	483,539.19	786,848.98	32.3268180	-103.5385090
9,200.00		359.64	9,160.06	-501.79	346.14	483,539.77	786,848.97	32.3268195	-103.5385090
9,225.00		359.64	9,184.98	-499.91	346.12	483,541.66	786,848.96	32.3268247	-103.5385090
9,250.00		359.64	9,209.78	-496.72	346.10	483,544.84	786,848.94	32.3268335	-103.5385090
9,275.00		359.64	9,234.37	-492.24	346.08	483,549.32	786,848.91	32.3268458	-103.5385090
9,300.00		359.64	9,258.69	-486.48	346.04	483,555.08 483,562.11	786,848.88 786,848.83	32.3268616 32.3268809	-103.5385090
9,325.00		359.64	9,282.68	-479.45	346.00		3		-103.5385090
9,350.00 9,375.00		359.64 359.64	9,306.27 9,329.40	-471.18 -461.69	345.95 345.89	483,570.38 483,579.87	786,848.78 786,848.72	32.3269037 32.3269298	-103.5385089 -103.5385089
59		359.64					786,848.66		-103.5385088
9,400.00 9,425.00		359.64	9,351.99 9,374.00	-451.00 -439.14	345.82 345.75	483,590.56 483,602.42	786,848.58	32.3269592 32.3269918	-103.5385088
5,425.00	23.02	009.04	3,314.00	-403.14	040.10	400,002.42	100,040.00	JZ.J203310	-103.0000000

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COMPASS 5000.17 Build

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well SERPENTINE 2 26 STATE FEDERAL COM 33H
Company:	WCDSC Permian NM	TVD Reference:	GL:3545.70+26ft @ 3571.70ft (H&P265)
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3545.70+26ft @ 3571.70ft (H&P265)
Site:	Sec 02-T23S-R33E	North Reference:	Grid
Well:	SERPENTINE 2 26 STATE FEDERAL COM 33H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	MS DIR V1 (1650FEL) AVALON B		

Planned Survey

Dej	sured pth t)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
	450.00	32.82	359.64	9,395.35	-426.14	345.66	483,615.42	786,848.50	32.3270275	-103.5385087
	475.00	35.82	359.64	9,415.99	-412.05	345.58	483,629.51	786,848.41	32.3270662	-103.5385087
	500.00	38.82	359.64	9,435.87	-396.89	345.48	483,644.67	786,848.32	32.3271079	-103.5385086
	525.00	41.82	359.64	9,454.93	-380.72	345.38	483,660.85	786,848.22	32.3271523	-103.5385086
1000	550.00	44.82	359.64	9,473.12	-363.57	345.27	483,678.00	786,848.11	32.3271995	-103.5385085
	575.00	47.82	359.64	9,490.38	-345.49	345.16	483,696.07	786,848.00	32.3272492	-103.5385084
	600.00	50.82	359.64	9,506.67	-326.53	345.04	483,715.03	786,847.88	32.3273013	-103.5385084
	625.00	53.82	359.64	9,521.95	-306.75	344.92	483,734.82	786,847.76	32.3273557	-103.5385083
	650.00	56.82	359.64	9,536.17	-286.19	344.79	483,755.37	786,847.63	32.3274122	-103.5385082
9,	675.00	59.82	359.64	9,549.30	-264.92	344.66	483,776.65	786,847.50	32.3274706	-103.5385081
9,	700.00	62.82	359.64	9,561.29	-242.99	344.52	483,798.58	786,847.36	32.3275309	-103.5385080
9,	725.00	65.82	359.64	9,572.13	-220.46	344.38	483,821.10	786,847.22	32,3275929	-103.5385080
9,	750.00	68.82	359.64	9,581.76	-197.39	344.24	483,844.17	786,847.08	32.3276562	-103.5385079
9,	775.00	71.82	359.64	9,590.18	-173.86	344.09	483,867.71	786,846.93	32.3277209	-103.5385078
9,	800.00	74.82	359.64	9,597.35	-149.91	343.94	483,891.65	786,846.78	32.3277868	-103.5385077
9,	825.00	77.82	359.64	9,603.26	-125.62	343.79	483,915.94	786,846.63	32.3278535	-103.5385076
9,	850.00	80.82	359.64	9,607.89	-101.06	343.64	483,940.50	786,846.48	32.3279210	-103.5385075
9,	875.00	83.82	359.64	9,611.23	-76.29	343.48	483,965.27	786,846.32	32.3279891	-103.5385074
9,	900.00	86.82	359.64	9,613.27	-51.37	343.33	483,990.19	786,846.17	32.3280576	-103.5385073
9,	926.47	90.00	359.64	9,614.01	-24.91	343.16	484,016.65	786,846.00	32.3281303	-103.5385072
10,	000.000	90.00	359.64	9,614.01	48.61	342.71	484,090.17	786,845.54	32.3283324	-103.5385069
1767	100.00	90.00	359.64	9,614.01	148. <mark>61</mark>	342.08	484, <mark>190.17</mark>	786,844.92	32.3286073	-103.5385065
10,	200.00	90.00	359.64	9,614.01	248.61	341.46	484,290.17	786,844.30	32.3288822	-103.5385062
1.1.1.1	300.00	90.00	359.64	9,614.01	348.61	340.84	484,390.17	786,843.67	32.3291570	-103.5385058
1000	400.00	90.00	359.64	9,614.01	448.60	340.21	484,490.16	786,843.05	32.3294319	-103.5385054
	500.00	90.00	359.64	9,614.00	548.60	339.59	484,590.16	786,842.43	32.3297068	-103.5385050
10.6V-	600.00	90.00	359.64	9,614.00	648.60	338.97	484,690.16	786,841.80	32.3299816	-103.5385046
	700.00	90.00	359.64	9,614.00	748.60	338.34	484,790.16	786,841.18	32.3302565	-103.5385042
1000	800.00	90.00	359.64	9,614.00	848.60	337.72	484,890.16	786,840.56	32.3305314	-103.5385038
1.1	900.00	90.00	359.64	9,614.00	948.59	337.10	484,990.15	786,839.93	32.3308062	-103.5385035
2.15	000.00	90.00	359.64	9,614.00	1,048.59	336.47	485,090.15	786,839.31	32.3310811	-103.5385031
Sec. 7.1	100.00	90.00	359.64	9,614.00	1,148.59	335.85	485,190.15	786,838.69	32.3313560	-103.5385027
1	200.00	90.00	359.64	9,614.00	1,248.59	335.23	485,290.15	786,838.06	32.3316308	-103.5385023
2.372	300.00	90.00	359.64	9,614.00	1,348.59	334.60	485,390.14	786,837.44	32.3319057	-103.5385019
	400.00	90.00	359.64	9,614.00	1,448.58	333.98	485,490.14	786,836.82	32.3321806	-103.5385015
2.25	500.00	90.00	359.64	9,614.00	1,548.58	333.36	485,590.14	786,836.19	32.3324554	-103.5385012
	600.00	90.00	359.64	9,614.00 9.614.00	1,648.58	332.73	485,690.14	786,835.57	32.3327303	-103.5385008 -103.5385004
	700.00	90.00 90.00	359.64 359.64	9,614.00	1,748.58	332.11 331.49	485,790.14 485,890.13	786,834.95 786,834.33	32.3330052 32.3332800	-103.5385004
12.15	800.00 900.00	90.00	359.64	9,614.00	1,848.58	330.87	485,990.13	786,833.70	32.3335549	-103.5384996
	000.00	90.00	359.64	9,614.00	1,948.57 2,048.57	330.24	486,090.13	786,833.08	32.3338298	-103.5384992
	100.00	90.00	359.64	9,614.00	2,048.57	329.62	486,190.13	786,832.46	32.3341046	-103.5384989
	200.00	90.00	359.64	9,614.00	2,248.57	329.00	486,290.13	786,831.83	32.3343795	-103.5384985
319433	300.00	90.00	359.64	9,614.00	2,348.57	328.37	486,390.12	786,831.21	32.3346544	-103.5384981
	400.00	90.00	359.64	9,614.00	2,448.57	327.75	486,490.12	786,830.59	32.3349292	-103.5384977
2010	500.00	90.00	359.64	9,614.00	2,548.56	327.13	486,590.12	786,829.96	32.3352041	-103.5384973
10000	600.00	90.00	359.64	9,614.00	2,648.56	326.50	486,690.12	786,829.34	32.3354790	-103.5384969
10.00	700.00	90.00	359.64	9,614.00	2,748.56	325.88	486,790.11	786,828.72	32.3357538	-103.5384965
	800.00	90.00	359.64	9,614.00	2,848.56	325.26	486,890.11	786,828.09	32.3360287	-103.5384962
14	900.00	90.00	359.64	9,614.00	2,948.56	324.63	486,990.11	786,827.47	32.3363036	-103.5384958
72622	000.00	90.00	359.64	9,614.00	3,048.55	324.01	487,090.11	786,826.85	32.3365784	-103.5384954
	100.00	90.00	359.64	9,614.00	3,148.55	323.39	487,190.11	786,826.22	32.3368533	-103.5384950
1000	200.00	90.00	359.64	9,614.00	3,248.55	322.76	487,290.10	786,825.60	32.3371282	-103.5384946

6/13/2025 10:38:25AM

COMPASS 5000.17 Build

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well SERPENTINE 2 26 STATE FEDERAL COM 33H
Company:	WCDSC Permian NM	TVD Reference:	GL:3545.70+26ft @ 3571.70ft (H&P265)
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3545.70+26ft @ 3571.70ft (H&P265)
Site:	Sec 02-T23S-R33E	North Reference:	Grid
Well:	SERPENTINE 2 26 STATE FEDERAL COM 33H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	MS DIR V1 (1650FEL) AVALON B		

Planned Survey

13,300.00 90.93 359.64 9,613.62 3,348.55 322.14 487,390.10 786,824.98 32.3374030 -1 13,400.00 92.93 359.64 9,610.26 3,448.48 321.52 487,490.04 786,824.98 32.3376030 -1 13,400.00 92.93 359.64 9,610.26 3,448.48 321.52 487,490.04 786,824.35 32.3376777 -1 13,410.26 93.13 359.64 9,609.71 3,458.73 321.45 487,500.29 786,824.29 32.337059 -1 13,500.00 93.13 359.64 9,604.81 3,548.33 320.90 487,589.88 786,823.73 32.3379522 -1 13,600.00 93.13 359.64 9,599.34 3,648.18 320.27 487,689.73 786,823.11 32.3382266 -1 13,700.00 93.13 359.64 9,593.87 3,748.03 319.65 487,789.58 786,821.49 32.3385011 -1 13,800.00 93.13 359.64 9,588.40 3,847.88	03.5384944 03.5384942 03.5384939 03.5384938 03.5384938 03.5384935 03.5384931 03.5384927
13,300.00 90.93 359.64 9,613.62 3,348.55 322.14 487,390.10 786,824.98 32.3374030 -1 13,400.00 92.93 359.64 9,610.26 3,448.48 321.52 487,490.04 786,824.98 32.3376030 -1 13,400.00 92.93 359.64 9,610.26 3,448.48 321.52 487,490.04 786,824.35 32.3376777 -1 13,410.26 93.13 359.64 9,609.71 3,458.73 321.45 487,500.29 786,824.29 32.337059 -1 13,500.00 93.13 359.64 9,604.81 3,548.33 320.90 487,589.88 786,823.73 32.3379522 -1 13,600.00 93.13 359.64 9,599.34 3,648.18 320.27 487,689.73 786,823.11 32.3382266 -1 13,700.00 93.13 359.64 9,593.87 3,748.03 319.65 487,789.58 786,821.49 32.3385011 -1 13,800.00 93.13 359.64 9,588.40 3,847.88	03.5384942 03.5384939 03.5384938 03.5384935 03.5384935 03.5384931
13,400.00 92.93 359.64 9,610.26 3,448.48 321.52 487,490.04 786,824.35 32.3376777 -1 13,410.26 93.13 359.64 9,609.71 3,458.73 321.45 487,500.29 786,824.29 32.3370559 -1 13,500.00 93.13 359.64 9,604.81 3,548.33 320.90 487,589.88 786,823.73 32.3379522 -1 13,600.00 93.13 359.64 9,599.34 3,648.18 320.27 487,689.73 786,823.11 32.3382266 -1 13,700.00 93.13 359.64 9,593.87 3,748.03 319.65 487,789.58 786,822.49 32.3382011 -1 13,800.00 93.13 359.64 9,588.40 3,847.88 319.03 487,889.43 786,821.86 32.3387755 -1 13,900.00 93.13 359.64 9,582.93 3,947.72 318.41 487,989.28 786,821.24 32.3390500 -1	03.5384939 03.5384938 03.5384935 03.5384931
13,410.26 93.13 359.64 9,609.71 3,458.73 321.45 487,500.29 786,824.29 32.3377059 -1 13,500.00 93.13 359.64 9,604.81 3,548.33 320.90 487,589.88 786,823.73 32.3379522 -1 13,600.00 93.13 359.64 9,599.34 3,648.18 320.27 487,689.73 786,823.11 32.3382266 -1 13,700.00 93.13 359.64 9,593.87 3,748.03 319.65 487,789.58 786,822.49 32.3382011 -1 13,800.00 93.13 359.64 9,588.40 3,847.88 319.03 487,889.43 786,821.86 32.3387755 -1 13,900.00 93.13 359.64 9,582.93 3,947.72 318.41 487,989.28 786,821.24 32.3390500 -1	03.5384938 03.5384935 03.5384931
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13,600.00 93.13 359.64 9,599.34 3,648.18 320.27 487,689.73 786,823.11 32.3382266 -1 13,700.00 93.13 359.64 9,593.87 3,748.03 319.65 487,789.58 786,823.11 32.3382061 -1 13,800.00 93.13 359.64 9,588.40 3,847.88 319.03 487,889.43 786,821.86 32.3387755 -1 13,900.00 93.13 359.64 9,582.93 3,947.72 318.41 487,989.28 786,821.24 32.3390500 -1	03.5384931
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13,800.00 93.13 359.64 9,588.40 3,847.88 319.03 487,889.43 786,821.86 32.3387755 -1 13,900.00 93.13 359.64 9,582.93 3,947.72 318.41 487,989.28 786,821.24 32.3390500 -1	
13,900.00 93.13 359.64 9,582.93 3,947.72 318.41 487,989.28 786,821.24 32.3390500 -1	03.5384923
	03.5384919
14,000.00 93.13 359.64 9,577.46 4,047.57 317.78 488,089.13 786,820.62 32.3393245 -1	03.5384915
	03.5384912
14,154.72 93.13 359.64 9,569.00 4,202.06 316.82 488,243.61 786,819.66 32.3397491 -1	03.5384910
14,200.00 93.04 358.51 9,566.56 4,247.27 316.09 488,288.82 786,818.93 32.3398734 -1	03.5384922
14,300.00 92.81 356.02 9,561.46 4,347.01 311.33 488,388.57 786,814.17 32.3401476 -1	03.5385052
	03.5385323
14,500.00 92.35 351.04 9,552.46 4,545.48 288.82 488,587.03 786,791.66 32.3406936 -1	03.5385734
14,600.00 92.11 348.55 9,548.57 4,643.81 271.11 488,685.36 786,773.95 32.3409642 -1	03.5386283
14,700.00 91.87 346.06 9,545.10 4,741.30 249.14 488,782.85 786,751.98 32.3412326 -1	03.5386971
14,800.00 91.62 343.57 9,542.06 4,837.75 222.96 488,879.30 786,725.80 32.3414983 -1	03.5387796
14,900.00 91.37 341.08 9,539.45 4,932.99 192.61 488,974.54 786,695.45 32.3417607 -1	03.5388755
15,000.00 91.12 338.59 9,537.28 5,026.83 158.15 489,068.38 786,660.98 32.3420193 -1	03.5389849
15,104.93 90.85 335.98 9,535.47 5,123.61 117.64 489,165.16 786,620.48 32.3422861 -1	103.5391137
15,200.00 90.85 335.98 9,534.06 5,210.43 78.95 489,251.98 786,581.79 32.3425255 -1	03.5392369
15,305.01 90.85 335.98 9,532.50 5,306.34 36.21 489,347.89 786,539.05 32.3427900 -1	03.5393730
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COMPASS 5000.17 Build

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well SERPENTINE 2 26 STATE FEDERAL COM 33H
Company:	WCDSC Permian NM	TVD Reference:	GL:3545.70+26ft @ 3571.70ft (H&P265)
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3545.70+26ft @ 3571.70ft (H&P265)
Site:	Sec 02-T23S-R33E	North Reference:	Grid
Well:	SERPENTINE 2 26 STATE FEDERAL COM 33H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	MS DIR V1 (1650FEL) AVALON B		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
18,000.00	89.41	359.64	9,516.39	7,973.01	- <mark>173</mark> .12	492,014.55	786,329.72	32.3501239	-103.539986
18,100.00	89.41	359.64	9,517.42	8,073.00	-173.74	492,114.55	786,329.10	32.3503987	-103.539986
18,200.00	89.41	359.64	9,518.45	8,173.00	-174.36	492,214.54	786,328.48	32.3506736	-103,539986
18,300.00	89.41	359.64	9,519.48	8,272.99	-174.99	492,314.53	786,327.85	32.3509484	-103.539985
18,400.00	89.41	359.64	9,520.51	8,372.98	-175.61	492,414.53	786,327.23	32.3512233	-103.539985
18,500.00	89.41	359.64	9,521.54	8,472.97	-176.23	492,514.52	786,326.61	32.3514981	-103.539984
18,600.00	89.41	359.64	9,522.57	8,572.97	-176.85	492,614.51	786,325.98	32.3517730	-103.539984
18,700.00	89.41	359.64	9,523.61	8,672.96	-177.48	492,714.50	786,325.36	32.3520478	-103.539984
18,800.00	89.41	359.64	9,524.64	8,772.95	-178.10	492,814.50	786,324.74	32.3523227	-103.539983
18,900.00	89.41	359.64	9,525.67	8,872.94	-178.72	492,914.49	786,324.11	32.3525975	-103.539983
19,000.00	89.41	359.64	9,526.70	8,972.94	-179.35	493,014.48	786,323.49	32.3528724	-103.539982
19,100.00	89.41	359.64	9,527.73	9,072.93	-179.97	493,114.47	786,322.87	32.3531472	-103.539982
19,200.00	89.41	359.64	9,528.76	9,172.92	-180.59	493,214.47	786,322.24	32.3534221	-103.539982
19,300.00	89.41	359.64	9,529.79	9,272.92	-181.22	493,314.46	786,321.62	32.3536969	-103.539981
19,400.00	89.41	359.64	9,530.83	9,372.91	-181.84	493,414.45	786,321.00	32.3539718	-103.539981
19,500.00	89.41	359.64	9,531.86	9,472.90	-182.46	493,514.44	786,320.38	32.3542466	-103.539981
19,600.00	89.41	359.64	9,532.89	9,572.89	-183.09	493,614.44	786,319.75	32.3545215	-103.539980
19,700.00	89.41	359.64	9,533.92	9,672.89	-183.71	493,714.43	786,319.13	32.3547963	-103.539980
19,800.00	89.41	359.64	9,534.95	9,772.88	-184.33	493,814.42	786,318.51	32.3550712	-103.539979
19,900.00	89.41	359.64	9,535.98	9,872.87	-184.96	493,914.41	786,317.88	32.3553460	-103.539979
20,000.00	89.41	359.64	9,537.01	9,972.86	-185.58	494,014.41	786,317.26	32.3556209	-103.539979
20,100.00	89.41	359.64	9,538.04	10,072.86	-186.20	494,114.40	786,316.64	32.3558957	-103.539978
20,200.00	89.41	359.64	9,539.08	10,172.85	-186.82	494,214.39	786,316.01	32.3561706	-103.539978
20,300.00	89.41	359.64	9,540.11	10,272.84	-187.45	494,314.38	786,315.39	32.3564454	-103.539977
20,400.00	89.41	359.64	9,541.14	10,372.84	-188.07	494,414.38	786,314.77	32.3567203	-103.539977
20,500.00	89.41	359.64	9,542.17	10,472.83	-188.69	494,514.37	786,314.14	32.3569951	-103.539977
20,600.00	89.41	359.64	9,543.20	10,572.82	-189.32	494,614.36	786,313.52	32.3572700	-103.539976
20,700.00	89.41	359.64	9,544.23	10,672.81	-189.94	494,714.35	786,312.90	32.3575448	-103.539976
20,800.00	89.41	359.64	9,545.26	10,772.81	-190.56	494,814.35	786,312.27	32.3578197	-103.539976
20,900.00	89.41	359.64	9,546.30	10,872.80	-191.19	494,914.34	786,311.65	32.3580945	-103.539975
21,000.00	89.41	359.64	9,547.33	10,972.79	-191.81	495,014.33	786,311.03	32.3583694	-103.539975
21,100.00	89.41	359.64	9,548.36	11,072.79	-192.43	495,114.32	786,310.41	32.3586442	-103.539974
21,162.17	89.41	359.64	9,549.00	11,134.95	-192.82	495,176.49	786,310.02	32.3588151	-103.539974
21,200.00	89.41	359.64	9,549.39	11,172.78	-193.06	495,214.32	786,309.78	32.3589191	-103.539974
21,242.17	89.41	359.64	9,549.83	11,214.94	-193.32	495,256.48	786,309.52	32.3590350	-103.539974

Submit Electronically Energy, Minerals & Natural						ION DIVISION					
) Permitting								Submittal	Initial Submittal	
							Type:			Amended Repor	t
API N	umber		Pool Cod		ELL LOC		ON INFORMATIO ool Name	VIN			
30-0)25-54681			7321			BRIN	ININSTOO	L;BONE		
-	rty Code		Property		PENTINE	2-2	6 STATE FEDERA	L COM		Well Number 33H	
OGRID			Operator	Name						Ground Level	Elevation
	6137			DEVON	N ENERG	Y PR	ODUCTION COMPA	ANY, L.P.		3547.5'	
Surfac	ce Owner:	🛛 State 🗆	Fee 🗆 Tril	oal □Fee	deral		Mineral Owner:	□State		Fribal 🛛 Federal	
						Surfa	ce Location				
UL	Section	Township	Range	Lot	1		Ft. from E/W	Latitude		Longitude	County
0	2	23–S	33-E		638'	S	1543'E	32.328	206	103.539618	LEA
·	·		·	·	B	ottom	Hole Location	·			
UL	Section	Township	Range	Lot			Ft. from E/W	Latitude		Longitude	County
0	26	22–S	33-Е		1300'	S	1650'E	32.359	035	103.539974	LEA
Dedicat	ed Acres	Infill or Def	ining Well	Defining	Well API	Overla	apping Spacing Uni	t (Y/N)	Consolid	ation Code]
	9.58	X		30-025			N	. (-/-/		С	
Order	Numbers	NA				Well s	setbacks are under	Common	Ownersh	ip: □Yes ⊠No	
										-	
UL	Section	Township	Range	Lot	Kic. Ft. from		Point (KOP) Ft. from E/W	Latitude		Longitude	County
P	2	23-S	33-E	Lot	133'	•	1200' E	32.326		103.538509	LEA
							te Point (FTP)				
UL	Section	Township	Range	Lot	Ft. fron			Latitude		Longitude	County
P	2	23–S	33–E		303'	S	1200' E	32.327	280	103.538508	LEA
				ļ	Las	st Tak	e Point (LTP)		I		
UL	Section	Township	Range	Lot	Ft. fron		'	Latitude		Longitude	County
0	26	22–S	33-E		1220'	S	1650' E	32.358	815	103.539975	LEA
				•		. <u>.</u>	· · · · · · · · · · · · · · · · · · ·				
					Spac	ing U	nit Type Horizon [†] X	tal Verti		round Floor Ele [.] NA	vation:
									1	NA .	
I hereby of my kn organizat including location mineral i heretofor	OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the				e best t this and is rder ed the	SURVEYOR CERTIFIC I hereby certify that the we of actual surveys made by correct to the best of my be	ell location sho me or under s		and that the same is true	and E _{H0}	
consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division. Signature Date					ell's the	ignature and Seal	of Profe	ssional S	PR 23261	SUR	
\mathcal{P}	epili	1 Dea	l	6/14	1/2025					ONAL	5
Print	ed Name	0		0/17	., 2023	С	ertificate Number	Date of	Survey		
		l, Regulato	ry Analyst				23261	03/20	•		
ret	becca.deal	@dvn.com									

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.





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Section 2 - Blowout Preventer Testing Procedure

Variance Request

Devon Energy requests to only test BOP connection breaks after drilling out of surface casing and while skidding between wells which conforms to API Standard 53 and industry standards. The initial BOP test will follow 43 CFR 3172, and subsequent tests following a skid will only test connections that are broken. This test will at minimum include the Top Pipe Ram, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and BOP shell of the 10M BOPE to 5M for 10 minutes. Additional pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. If a break to the flex hose that runs to the choke manifold is required due to repositioning from a skid, the HCR will remain open during the shell test to include that additional break. The variance only pertains to intermediate hole-sections. This variance will meet or exceed 43 CFR 3172 per the following: Devon Energy will perform a full BOP test per 43 CFR 3172 before drilling out of the intermediate casing string(s) and starting the production hole, testing the Annular during initial BOP testing to a minimum of 70% RWP and higher than MASP, and pressure testing at a 21-day interval frequency. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. In the event break testing is not utilized, then a full BOPE test would be conducted.

Devon Energy requests to perform offline BOP stump testing and offline BOPE testing. All pressurecontaining and pressure-controlling seals will be tested either online or offline as denoted in the table below and per BLM approval during initial BOP test following test pressure requirements set forth in 43 CFR 3172. Remaining components not tested offline or on the stump will be tested within 72-hours when the BOP is connected to the wellhead. If stump testing exceeds 72-hour window prior to connecting to the wellhead, the BLM will be notified and either stump testing restarted, or the BOP being tested online. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. In the event stump testing is not utilized, then a full BOPE test would be conducted.

Components	Offline	Offline, BOPE	Break	Online
Upper Rams		Х	Х	Х
Blind Rams		Х		Х
Lower Rams				Х
Outside Kill Valve		X	Х	Х
Inside Kill Valve		X	Х	Х
Kill Line Check Valve		X	Х	Х
Inside Choke Valve		X	Х	Х
HCR		X	Х	X
Kill Line	Х			X
Annular		X		Х
Choke Manifold Valves and Hose	Х			X
Mudline (Mud Pumps, Rig Floor Valves, Kelly Hose, Mud Line)	Х			X
Standpipe Valve	Х			X
IBOP (Upper and Lower)	Х			Х

Devon requests offline BOPE testing for the following components: Upper Rams, Blind Rams, Kill Valves, Choke Valves, and Annular Remaining well control equipment components will either be tested offline or online, per BLM approval

- Remaining BOPE will be tested online within 72-hours form completing the offline BOPE component testing
- Notify the BLM if the online BOPE testing exceeds 72-hours
- All Full Tests not completed "Offline" or "Offline, BOPE" are required to be complete Online
- Devon requests Break testing as stated above for 5K tests, not including production hole
- Annular Preventer will be tested to minimum of 70% RWP and higher than MASP during initial BOP test
- Pressure testing is required for pressure-containing connections if the integrity of a pressure seal is broken during a break test Full Tests required when entering production hole



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1. Geologic Formations

TVD of target	9549	Pilot hole depth	N/A
MD at TD:	21242	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	952	Lone:	
Salt	1233		
Base of Salt	5068		
Delaware	5068		
Cherry Canyon	5918		
Brushy Canyon	7319		
1st Bone Spring Lime	8981		
Avalon	9400		

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

SERPENTINE 2 35 STATE FEDERAL COM 33H

		Wt			Casing		Casing Interval	
Hole Size	Csg. Size	(PPF)	Grade Conn		From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	54 1/2	J - 55	BTC	0	977	0	977
12 1/4	9 5/8	40	J-55	BTC	0	5168	0	5168
8 3/4	5 1/2	20	P110	DWC / C-IS+	0	21242	0	9549

2. Casing Program

•All casing strings will be tested in accordance with 43 CFR 3172. Must have table for contingency casing.

SERPENTINE 2 35 STATE FEDERAL COM 33H

Casing	# Sks	тос	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	746	Surf	13.2	1.4	Lead: Class C Cement + additives
Int 1	572	Surf	9.0	3.3	Lead: Class C Cement + additives
Int I	154	4668	13.2	1.4	Tail: Class H / C + additives
Int 1	744	Surf	9.0	3.3	Squeeze Lead: Class C Cement + additives
Intermediate	572	Surf	9.0	3.3	Lead: Class C Cement + additives
Squeeze	154	4668	13.2	1.4	Tail: Class H / C + additives
Production	384	4668	9.0	3.3	Lead: Class H /C + additives
Production	2328	9176	13.2	1.4	Tail: Class H / C + additives

3. Cementing Program (3-String Primary Design)

Devon Energy requests to offline cement on intermediate strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements

Casing String	% Excess
Surface	50%
Intermediate	30%
Production	10%

SERPENTINE 2 35 STATE FEDERAL COM 33H

.

4. Pressure Control Equipment (1 m	te buing D					
BOP installed and tested before drilling which hole?	Size?	Min. Required WP	T	уре	~	Tested to:
			Anı	Annular		50% of rated working pressure
T. (1	12 501	514	Bline	d Ram	X	
Int 1	13-58"	5M	Pipe Ram			5) (
			Double Ram		Х	5M
			Other*			
	12 5/01	5M	Annular		X	50% of rated working pressure
Production			Blind Ram		Х	
Production	13-5/8"		Pipe Ram			5M
			Double Ram		X	JIVI
			Other*			
			Annul	ar (5M)		
			Bline	d Ram		
			Pipe Ram			
			Doub	le Ram		
			Other*			

4. Pressure Control Equipment (Three String Design)

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5. Mud Program (Three String Design)

Section	Туре	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	Brine	10-10.5
Production	WBM	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, Co	oring and Testing
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the
Х	Completion Report 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	
	Density	
Х	CBL	Production casing
X	Mud log	KOP to TD
	PEX	

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	4469
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 concentrationsgreater than 100 ppm, the operator will comply with the provisions of 43 CFR 3176. If Hydrogen Sulfide is encounteredmeasured values and formations will be provided to the BLM.NH2S 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 (43 CFR 3172, all COAs and NMOCD regulations).

 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.

- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pad.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. At that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan Other, describe

Serpentine 2 26 State Fed Com 33H

13 3/8	surface csg in a 17 1/2 inch hole.			inch hole.	Design Factors					Surface		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	54.50		j 55	btc	13.61	2.1	0.97	1,150	5	1.62	3.97	62,675
"B"				btc				0				0
	w/8.4	#/g mud, 30min Sfc Csg Test p	sig: 1,409	Tail Cmt	does not	circ to sfc.	Totals:	1,150				62,675
Comparison of	f Proposed to I	Minimum Required Ceme	nt Volumes									
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
17 1/2	0.6946	746	1044	799	31	9.00	1682	2M				1.56

Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK.

Site plat (pipe racks S or E) as per O.O.1.III.D.4.i. not f

9 5/8	casi	ng inside the	13 3/8	_		<u>Design l</u>	actors			Int 1		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.00		j 55	btc	3.05	0.91	0.88	5,168	1	1.67	1.53	206,720
"B"								0				0
	w/8.4#,	/g mud, 30min Sfc Csg Test p	osig: 510				Totals:	5,168				206,720
		The cement vo	olume(s) are intend	ed to achieve a top of	0	ft from su	rface or a	1150				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cpl
12 1/4	0.3132	726	2103	1675	26	10.50	2364	3M				0.81
D V Tool(s):							sum of sx	<u>Σ CuFt</u>				Σ%excess
by stage % :		#VALUE!	#VALUE!				726	2103				26
lass 'C' tail cm	t yld > 1.35											

Burst Frac Gradient(s) for Segment(s): A, B, C, D = 0.76, b, c, d All > 0.70, OK.

5 1/2	casing	g inside the	9 5/8	_		Design Fac	ctors			Prod 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weigh
"A"	20.00		p 110	dwc/c is+	3.82	2.71	3.22	21,242	3	6.08	5.11	424,84
"B"								0				0
"C"								0				0
"D"								0				0
	w/8.4#/g	mud, 30min Sfc Csg Test	psig: 2,101				Totals:	21,242				424,84
		The cement v	olume(s) are intende	ed to achieve a top of	4668	ft from su	rface or a	500				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cp
8 3/4	0.2526	2712	4526	4191	8	9.00						1.23
#NI/Λ												
#N/A 0			5 1/2			<u>Design I</u>	actors		<c< th=""><th>hoose Ca</th><th>sing></th><th></th></c<>	hoose Ca	sing>	
0	#/ft	Grade	5 1/2	 Coupling	#N/A	<u>Design I</u> Collapse	- <u>actors</u> Burst	Length	<c B@s</c 	hoose Ca a - B	sing> a-C	Weigh
	#/ft	Grade	5 1/2	Coupling 0.00	#N/A			Length 0			-	Weigh 0
0 Segment	#/ft	Grade	5 1/2		#N/A			•			-	Weigh 0 0
0 Segment "A"		Grade mud, 30min Sfc Csg Test		0.00	#N/A			0			-	0
0 Segment "A"		mud, 30min Sfc Csg Test	psig:	0.00			Burst Totals:	0 0			-	0 0
0 Segment "A"		mud, 30min Sfc Csg Test	psig:	0.00 0.00		Collapse	Burst Totals:	0 0 0			-	0 0 0 overlap.
0 Segment "A" "B"	w/8.4#/g	mud, 30min Sfc Csg Test Cmt vol ca	^{psig:} Ic below includes th	0.00 0.00 is csg, TOC intended	#N/A	Collapse ft from su	Burst Totals: rface or a	0 0 0 #N/A			-	0 0 0
0 Segment "A" "B" Hole	w/8.4#/g Annular	mud, 30min Sfc Csg Test Cmt vol ca 1 Stage	^{psig:} Ic below includes th 1 Stage	0.00 0.00 is csg, TOC intended Min	#N/A 1 Stage	Collapse ft from su Drilling	Burst Totals: rface or a Calc	0 0 0 #N/A Req'd			-	0 0 overlap. Min Di

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Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	475201
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS		
Created By	Condition	Condition Date
matthew.gomez	Any previous COA's not addressed within the updated COA's still apply.	6/23/2025

banta i o, i ini

CONDITIONS

Action 475201