

Submit a Copy To Appropriate District
Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-53948
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Chieftain 18 State Com
8. Well Number 603H
9. OGRID Number 372165
10. Pool name or Wildcat Avalon; Bone Spring 96381

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☐ Gas Well ☒ Other	
2. Name of Operator Permian Resources Operating, LLC	
3. Address of Operator 300 N. Marienfeld St., Suite 1000 Midland, TX 79701	
4. Well Location Unit Letter <u>1</u> : <u>1250</u> feet from the <u>North</u> line and <u>357</u> feet from the <u>West</u> line Section <u>18</u> Township <u>21S</u> Range <u>26E</u> NMPM County <u>Eddy</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3275 GR	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
DOWNHOLE COMMINGLE ☐	P AND A ☐
CLOSED-LOOP SYSTEM ☐	CASING/CEMENT JOB ☐
OTHER: ☐	OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Permian Resources respectfully requests to drill and complete this well in the Wolfcamp. This well was originally drilled by Tasocsa and Permian Resources completed this well. We are attempting to make corrections.

This well was permitted to the Bone Spring, we would like approval to drill and complete in Wolfcamp. Please see details below.

Change From: Bone Springs TD 12,702, TVD 7851
To Wolfcamp: TD 12,760, TVD 8086

C-102 and directional survey is attached.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE K. Schlichting TITLE Regulatory Specialist DATE 03/04/2025

Type or print name Kanicia Schlichting E-mail address: kanicia.schlichting@permianres.com PHONE: 432-400-0185

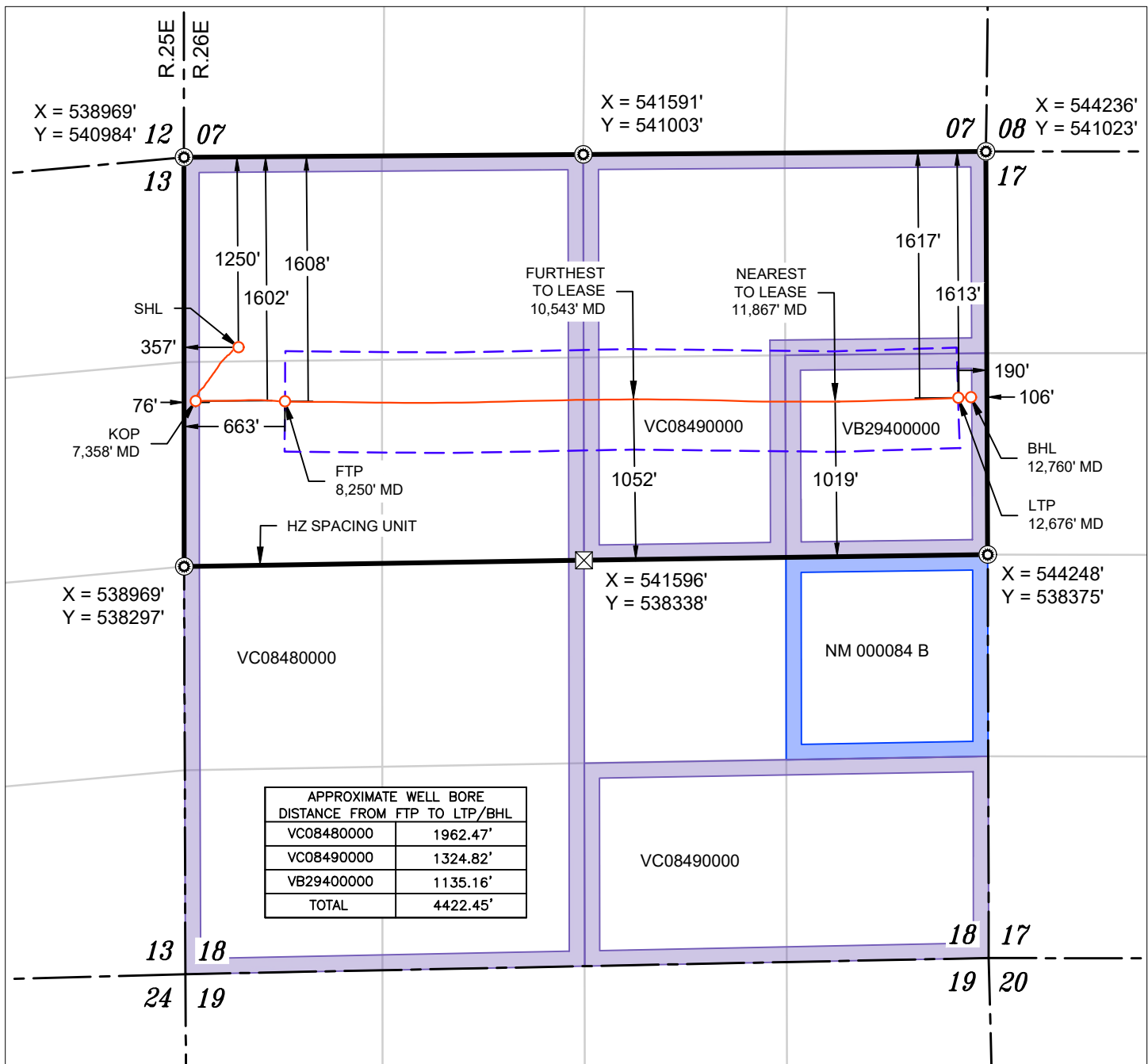
For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		Revised July 9, 2024						
	Submittal Type:	☐ Initial Submittal ☐ Amended Report ☒ As Drilled							
WELL LOCATION INFORMATION									
API Number 30-015-53948		Pool Code 71120	Pool Name Avalon; Wolfcamp (Gas)						
Property Code 335917		Property Name CHIEFTAIN 18 STATE COM		Well Number #603H					
OGRID No. 372165		Operator Name PERMIAN RESOURCES OPERATING, LLC		Ground Level Elevation 3275'					
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal			Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal						
Surface Location									
UL	Section 18	Township 21 S	Range 26 E	Lot LOT 1	Ft. from N/S 1250' FNL	Ft. from E/W 357' FWL	Latitude 32.483799°	Longitude -104.339856°	County EDDY
Bottom Hole Location									
UL	Section H	Township 21 S	Range 26 E	Lot	Ft. from N/S 1613' FNL	Ft. from E/W 106' FEL	Latitude 32.482897°	Longitude -104.324253°	County EDDY
Dedicated Acres 322.80		Infill or Defining Well Defining	Defining Well API		Overlapping Spacing Unit (Y/N) No		Consolidation Code C		
Order Numbers.					Well setbacks are under Common Ownership: ☒ Yes ☐ No				
Kick Off Point (KOP)									
UL	Section 18	Township 21 S	Range 26 E	Lot LOT 2	Ft. from N/S 1602' FNL	Ft. from E/W 76' FWL	Latitude 32.482827°	Longitude -104.340767°	County EDDY
First Take Point (FTP)									
UL	Section 18	Township 21 S	Range 26 E	Lot LOT 2	Ft. from N/S 1608' FNL	Ft. from E/W 663' FWL	Latitude 32.482821°	Longitude -104.338865°	County EDDY
Last Take Point (LTP)									
UL	Section H	Township 21 S	Range 26 E	Lot	Ft. from N/S 1617' FNL	Ft. from E/W 190' FEL	Latitude 32.482885°	Longitude -104.324525°	County EDDY
Unitized Area or Area of Uniform Interest		Spacing Unit Type ☒ Horizontal ☐ Vertical			Ground Floor Elevation: 3302'				
OPERATOR CERTIFICATIONS <i>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.</i> <i>If this well is a horizontal well, I further certify that this organization has received the 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.</i>  9/13/24					SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>  				
Signature Kanicia Schlichting					Signature and Seal of Professional Surveyor 23203 AUGUST 28, 2024				
Printed Name kanicia.schlichting@permianres.com					Certificate Number		Date of Survey		
Email Address									

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



WELL NAME: CHIEFTAIN 18 STATE COM #603H
ELEVATION: 3275'

NAD 83 (SHL) 1250' FNL & 357' FWL
LATITUDE = 32.483799°
LONGITUDE = -104.339856°
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32.483683°
LONGITUDE = -104.339345°
STATE PLANE NAD 83 (N.M. EAST)
N: 539736.92' E: 539326.34'
STATE PLANE NAD 27 (N.M. EAST)
N: 539677.00' E: 498146.38'

NAD 83 (KOP) 1602' FNL & 76' FWL
LATITUDE = 32.482827°
LONGITUDE = -104.340767°
NAD 27 (KOP)
LATITUDE = 32.482711°
LONGITUDE = -104.340256°
STATE PLANE NAD 83 (N.M. EAST)
N: 539383.45' E: 539045.23'
STATE PLANE NAD 27 (N.M. EAST)
N: 539323.55' E: 497865.27'

NAD 83 (FTP) 1608' FNL & 663' FWL
LATITUDE = 32.482821°
LONGITUDE = -104.338865°
NAD 27 (FTP)
LATITUDE = 32.482705°
LONGITUDE = -104.338354°
STATE PLANE NAD 83 (N.M. EAST)
N: 539381.01' E: 539631.89'
STATE PLANE NAD 27 (N.M. EAST)
N: 539321.10' E: 498451.91'

NAD 83 (LTP) 1617' FNL & 190' FEL
LATITUDE = 32.482885°
LONGITUDE = -104.324525°
NAD 27 (LTP)
LATITUDE = 32.482769°
LONGITUDE = -104.324015°
STATE PLANE NAD 83 (N.M. EAST)
N: 539404.68' E: 544053.49'
STATE PLANE NAD 27 (N.M. EAST)
N: 539344.69' E: 502873.40'

NAD 83 (BHL) 1613' FNL & 106' FEL
LATITUDE = 32.482897°
LONGITUDE = -104.324253°
NAD 27 (BHL)
LATITUDE = 32.482781°
LONGITUDE = -104.323743°
STATE PLANE NAD 83 (N.M. EAST)
N: 539408.78' E: 544137.38'
STATE PLANE NAD 27 (N.M. EAST)
N: 539348.79' E: 502957.28'

NOTES

- ALL COORDINATES, BEARINGS, AND DISTANCES CONTAINED HEREIN ARE GRID, BASED UPON THE NEW MEXICO STATE PLANE COORDINATES SYSTEM, NORTH AMERICAN DATUM 83, NEW MEXICO EAST (3001).
- THIS DOCUMENT IS BASED UPON AN ON THE GROUND SURVEY PERFORMED DURING AUGUST, 2024. CERTIFICATION OF THIS DOCUMENT IS ONLY TO THE LOCATION OF THIS EASEMENT IN RELATION TO RECORDED MONUMENT OF DEEDS PROVIDED BY THE CLIENT.
- ELEVATIONS MSL, DERIVED FROM G.N.S.S. OBSERVATION AND DERIVED FROM SAID ON-THE-GROUND SURVEY.

⊙ FND. U.S.G.L.O. MON.
UNLESS OTHERWISE
NOTED

⊠ CALC. CORNER

○ SHL/ KOP/ FTP / PPP/ LTP / BHL

— 330' BUFFER

— HORIZONTAL SPACING UNIT

— STATE OIL & GAS LEASE

— BLM OIL & GAS LEASE



SCALE: 1" = 1000'

Permian Resources - Chieftain 18 State 603H

1. Geologic Formations

Formation	Elevation	TVD	Lithology	Target
Rustler	NP	NP	Sandstone	No
Top of Salt	NP	NP	Salt	No
Tansill	NP	NP	Anhydrite/Shale	No
Yates	NP	NP	Anhydrite/Shale	No
Seven Rivers	NP	NP	Limestone	No
Queen	NP	NP	Limestone	No
Grayburg	NP	NP	Limestone	No
San Andres	NP	NP	Limestone	No
Cherry Canyon	-1369	1936	Sandstone	No
Brushy Canyon	-706	2599	Sandstone	No
Bone Spring Lime	651	3956	Limestone/Shale	No
1st Bone Spring Sand	2073	5378	Sandstone/Limestone/Shale	No
2nd Bone Spring Sand	2881	6186	Sandstone/Limestone/Shale	No
3rd Bone Spring Sand	4199	7504	Sandstone/Limestone/Shale	No
Wolfcamp	4618	7923	Shale	Yes

2. Blowout Prevention

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
12.25	13-5/8"	5M	Annular	x	2500 psi
			Blind Ram	x	5000 psi
			Pipe Ram	x	
			Double Ram		
			Other*		
8.75	13-5/8"	5M	Annular	x	2500 psi
			Blind Ram	x	5000 psi
			Pipe Ram	x	
			Double Ram		
			Other*		

Equipment: BOPE will meet all requirements for above listed system per 43 CFR 3172. BOPE with working pressure ratings in excess of anticipated maximum surface pressure will be utilized for well control from drill out of surface casing to TMD. The system may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all of the components installed will be functional, tested, and will meet all requirements per 43 CFR 3172. The wellhead will be a multibowl speed head allowing for hangoff of intermediate casing of the surface x intermediate annulus without breaking the connection between the BOP & wellhead. A variance is requested to utilize a flexible choke line (flexhose) from the BOP to choke manifold.

Requesting Variance? YES

Variance request: Multibowl Wellhead, Flexhose, Breaktesting, Offline Cementing Variances. Attachments in Section 8.

Testing Procedure: Operator requests to ONLY test broken pressure seals per API Standard 53 and the attachments in Section 8. The BOP test shall be performed before drilling out of the surface casing shoe and will occur at a minimum: a. when initially installed, b. whenever any seal subject to test pressure is broken, c. following related repairs, d. at 21-day intervals. Testing of the ram type preventer(s) and annular type preventer(s) shall be tested per 43 CFR 3172. The BOPE configuration, choke manifold layout, and accumulator system will be in compliance with 43 CFR 3172. Bleed lines will discharge 100' from wellhead in non-H2S scenarios and 150' from wellhead in H2S scenarios.

Choke Diagram Attachment: 5 M Choke Manifold
BOP Diagram Attachment: BOP Schematic

3. Casing

String	Hole Size	Casing Size	Top	Bottom	Top TVD	Bottom TVD	Length	Grade	Weight	Connection	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
Surface	17.5	13.375	0	535	0	535	535	H40	48	BTC	2.80	7.48	Dry	7.23	Dry	6.79
Intermediate	12.25	9.625	0	2000	0	2000	2000	J55	36	BTC	2.83	1.63	Dry	3.72	Dry	3.28
Production	8.75	5.5	0	8285	0	7946	8285	P110RY	20	GeoConn	1.78	1.86	Dry	2.09	Dry	2.09
Production	8.5	5.5	8285	12760	7946	8086	4475	P110RY	20	GeoConn	1.78	1.86	Dry	2.09	Dry	2.09
BLM Min Safety Factor											1.125	1		1.6		1.6

Non API casing spec sheets and casing design assumptions attached.

4. Cement

String	Lead/Tail	Top MD	Bottom MD	Quantity (sx)	Yield	Density	Cu Ft	Excess %	Cement Type	Additives
Surface	Tail	0	535	750	1.12	14.8	560	50%	Class C	Accelerator
Intermediate	Lead	0	1600	155	1.34	12.7	700	50%	Class C	Salt, Extender, and LCM
Intermediate	Tail	1600	2000	700	1.34	14.8	190	50%	Class C	Accelerator
Production	Lead	2000	8285	690	2.93	11.5	2230	40%	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder
Production	Tail	8285	12760	1255	1.73	12.5	1290	25%	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder

5. Circulating Medium

Mud System Type: Closed

Will an air or gas system be used: No

Describe what will be on location to control well or mitigate other conditions: Sufficient quantities of mud materials will be on the well site at all times for the purpose of assuring well control and maintaining wellbore integrity. Surface interval will employ fresh water mud. The intermediate hole will utilize a saturated brine fluid to inhibit salt washout. The production hole will employ brine based and oil base fluid to inhibit formation reactivity and of the appropriate density to maintain well control.

Describe the mud monitoring system utilized: Centrifuge separation system. Open tank monitoring with EDR will be used for drilling fluids and return volumes. Open tank monitoring will be used for cement and cuttings return volumes. Mud properties will be monitored at least every 24 hours using industry accepted

Cuttings Volume: 6490 Cu Ft

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight	Max Weight
0	535	Spud Mud	8.6	9.5
535	2000	Salt Saturated	10	10
2000	19038	Oil Based Mud	9	10

6. Test, Logging, Coring

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

Will utilize MWD/LWD from intermediate hole to TD of the well.

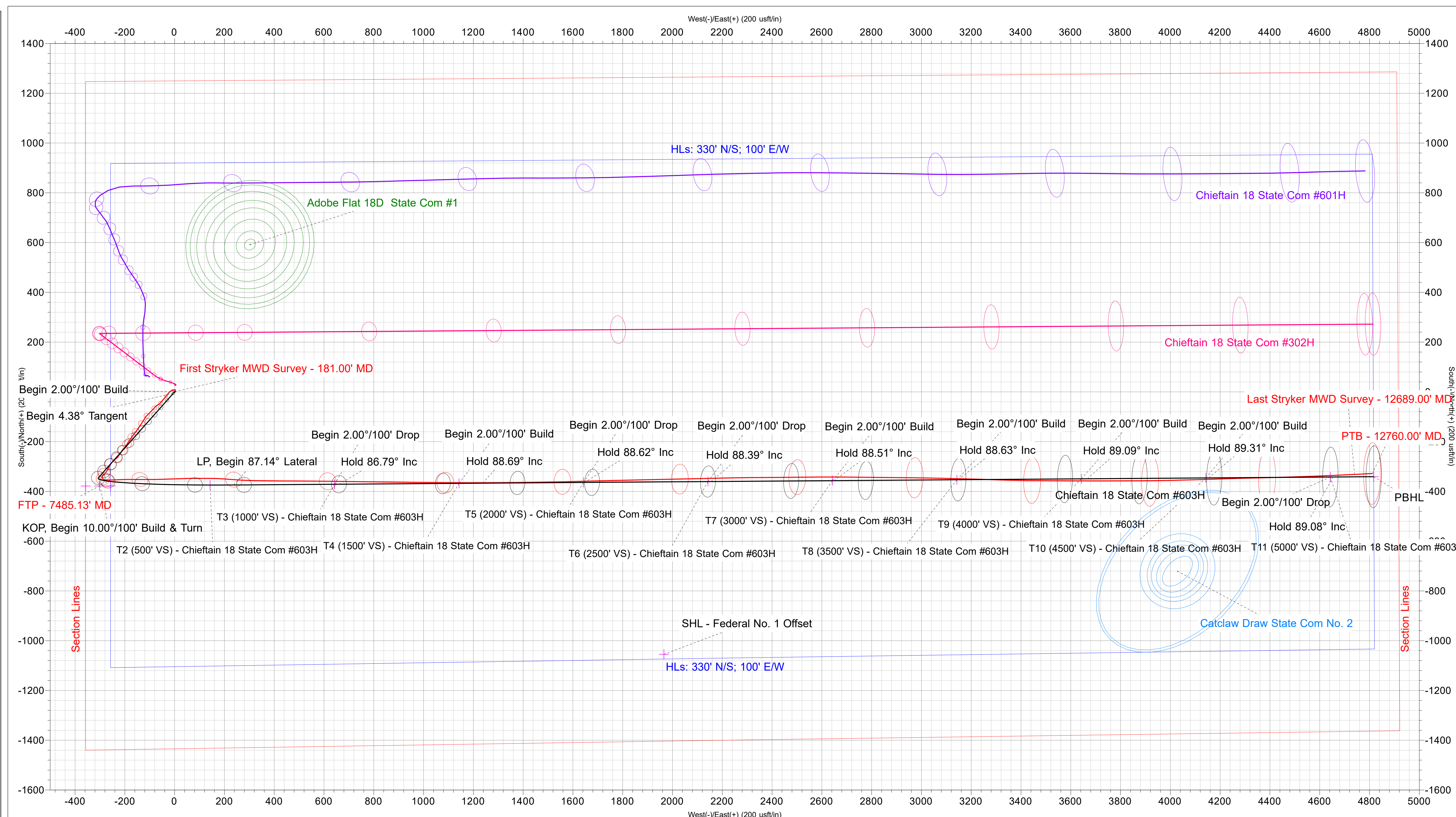
List of open and cased hole logs run in the well:

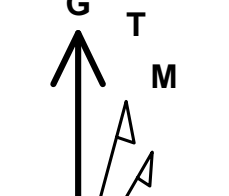
DIRECTIONAL SURVEY

Coring operation description for the well:

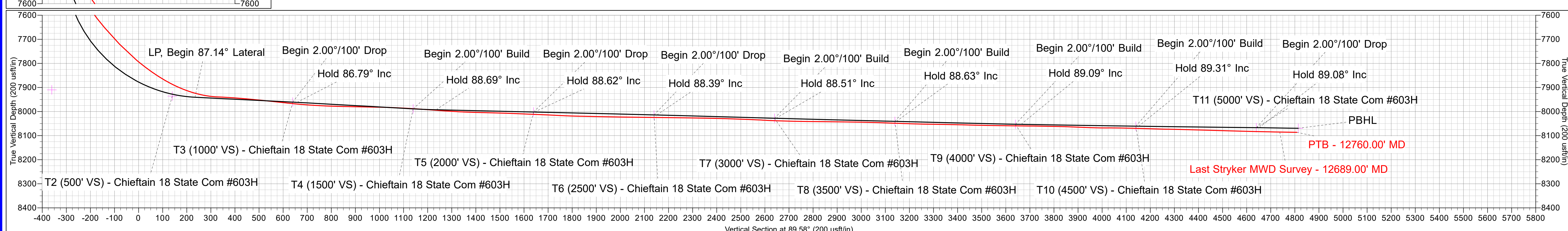
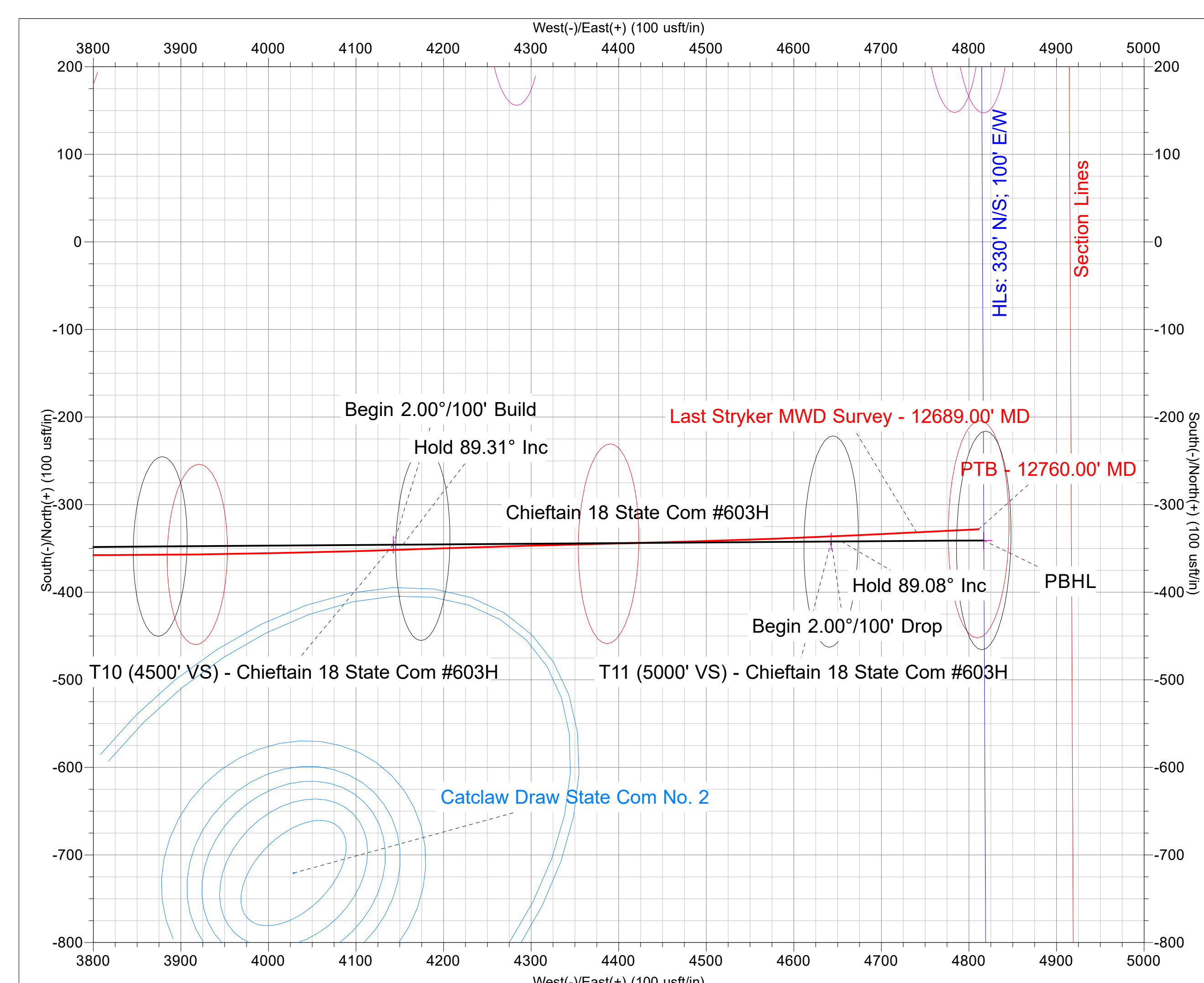
7. Pressure

Anticipated Bottom Hole Pressure	4210	psi
Anticipated Surface Pressure	2425.8	psi
Anticipated Bottom Hole Temperature	138	°F
Anticipated Abnormal pressure, temp, or geo hazards	No	



	Azimuths to Grid North True North: 0.00° Magnetic North: 6.60° Magnetic Field Strength: 47278.9nT Dip Angle: 59.93° Date: 4/1/2024 Model: IGRF2020
US State Plane 1983 New Mexico Eastern Zone	Created By: KEE Date: 14:27, April 09 2024 Plan: Design #1

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	Begin 2.00°/100' Build
1419.10	4.38	221.59	1418.89	-6.26	-5.56	-5.60	8.37	Begin 4.38° Tangent
7357.65	4.38	221.59	7340.07	-345.61	-306.76	-309.29	462.11	KOP, Begin 10.00°/100' Build & Turn
8258.41	87.14	89.58	7940.74	-374.19	237.13	234.38	1012.27	LP, Begin 87.14° Lateral
8664.46	87.14	89.58	7961.00	-371.22	642.66	639.92	1417.81	Begin 2.00°/100' Drop
8682.02	86.79	89.58	7961.93	-371.09	660.20	657.46	1435.35	Hold 86.79° Inc
9165.25	86.79	89.58	7989.00	-367.59	1142.66	1139.93	1917.82	Begin 2.00°/100' Build
9260.40	86.69	89.58	7992.75	-366.90	1237.73	1235.00	2012.89	Hold 86.69° Inc
9665.45	88.69	89.58	8002.00	-363.96	1642.66	1639.95	2417.84	Begin 2.00°/100' Drop
9668.78	88.62	89.58	8002.08	-363.93	1645.99	1643.28	2421.17	Hold 88.62° Inc
10165.61	88.62	89.58	8014.00	-360.32	2142.66	2139.96	2917.85	Begin 2.00°/100' Drop
10177.18	88.39	89.58	8014.30	-360.24	2154.23	2151.53	2929.42	Hold 88.39° Inc
10665.82	88.39	89.58	8028.00	-356.69	2642.66	2639.97	3417.86	Begin 2.00°/100' Build
10671.71	88.51	89.58	8028.16	-356.65	2648.55	2645.87	3423.76	Hold 88.51° Inc
11166.00	88.51	89.58	8041.00	-353.06	3142.66	3139.99	3917.88	Begin 2.00°/100' Build
11171.72	88.63	89.58	8041.14	-353.02	3148.38	3145.71	3923.60	Hold 88.63° Inc
11666.16	88.63	89.58	8053.00	-349.43	3642.66	3640.00	4417.89	Begin 2.00°/100' Build
11689.58	89.09	89.58	8053.47	-349.26	3666.08	3663.42	4441.31	Hold 89.09° Inc
12166.23	89.09	89.58	8061.00	-345.80	4142.66	4140.01	4917.90	Begin 2.00°/100' Build
12177.26	89.31	89.58	8061.15	-345.72	4153.69	4151.04	4928.93	Hold 89.31° Inc
12666.28	89.31	89.58	8067.00	-342.17	4642.66	4640.03	5417.92	Begin 2.00°/100' Drop
12677.94	89.08	89.58	8067.16	-342.08	4654.31	4651.68	5429.57	Hold 89.08° Inc
12840.63	89.08	89.58	8069.77	-340.90	4816.98	4814.35	5592.24	PBHL





Tascosa Energy Partners

Eddy County, NM (NAD83) NMEZ Grid

Chieftain 18

Chieftain 18 State Com #603H

Wellbore #1

Design: Surveys

Stryker Survey

09 April, 2024





Stryker Directional

Stryker Survey



Company:	Tascosa Energy Partners	Local Co-ordinate Reference:	Well Chieftain 18 State Com #603H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	GL: 3275' + 27' KB @ 3302.00usft (Scan Texas)
Site:	Chieftain 18	MD Reference:	GL: 3275' + 27' KB @ 3302.00usft (Scan Texas)
Well:	Chieftain 18 State Com #603H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM5000

Project	Eddy County, NM (NAD83) NMEZ Grid		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Chieftain 18				
Site Position:		Northing:	539,797.00 usft	Latitude:	32.483964
From:	Lat/Long	Easting:	539,226.34 usft	Longitude:	-104.340180
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.00 °

Well	Chieftain 18 State Com #603H					
Well Position	+N/-S	0.00 usft	Northing:	539,736.92 usft	Latitude:	32.483799
	+E/-W	0.00 usft	Easting:	539,326.34 usft	Longitude:	-104.339856
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,275.00 usft

Wellbore	Wellbore #1					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	IGRF2020	4/1/2024	6.59	59.93	47,278.87306884	

Design	Surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	89.58	

Survey Program	Date 4/9/2024				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
181.00	12,760.00	Stryker MWD (Wellbore #1)	MWD	OWSG MWD - Standard	



Stryker Directional

Stryker Survey



Company:	Tascosa Energy Partners	Local Co-ordinate Reference:	Well Chieftain 18 State Com #603H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	GL: 3275' + 27' KB @ 3302.00usft (Scan Texas)
Site:	Chieftain 18	MD Reference:	GL: 3275' + 27' KB @ 3302.00usft (Scan Texas)
Well:	Chieftain 18 State Com #603H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM5000

Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	Build (°/100usft)	Turn (°/100usft)	V. Sec (usft)
0.00	0.00	0.00	0.00	0.00	0.00	539,736.92	539,326.34	0.00	0.00	0.00
181.00	0.92	37.27	180.99	1.16	0.88	539,738.08	539,327.22	0.51	0.00	0.89
First Stryker MWD Survey - 181.00' MD										
241.00	1.10	27.25	240.98	2.05	1.44	539,738.97	539,327.78	0.30	-16.70	1.45
301.00	0.84	48.35	300.97	2.86	2.03	539,739.78	539,328.37	-0.43	35.17	2.05
362.00	0.97	35.16	361.97	3.58	2.66	539,740.50	539,329.00	0.21	-21.62	2.69
421.00	1.10	39.91	420.96	4.42	3.31	539,741.34	539,329.65	0.22	8.05	3.34
497.00	1.36	343.31	496.94	5.84	3.52	539,742.76	539,329.86	0.34	-74.47	3.56
575.00	1.27	353.33	574.92	7.59	3.15	539,744.51	539,329.49	-0.12	12.85	3.21
665.00	1.89	270.27	664.90	8.58	1.55	539,745.50	539,327.89	0.69	-92.29	1.62
755.00	3.25	257.00	754.80	8.02	-2.42	539,744.94	539,323.92	1.51	-14.74	-2.36
847.00	3.69	258.67	846.64	6.85	-7.86	539,743.77	539,318.48	0.48	1.82	-7.81
941.00	4.92	239.33	940.37	4.20	-14.29	539,741.12	539,312.05	1.31	-20.57	-14.26
1,036.00	6.29	224.22	1,034.92	-1.61	-21.43	539,735.31	539,304.91	1.44	-15.91	-21.44
1,130.00	5.32	215.78	1,128.44	-8.84	-27.57	539,728.08	539,298.77	-1.03	-8.98	-27.63
1,225.00	2.77	217.54	1,223.20	-14.23	-31.54	539,722.69	539,294.80	-2.68	1.85	-31.65
1,319.00	1.80	218.68	1,317.12	-17.18	-33.85	539,719.74	539,292.49	-1.03	1.21	-33.97
1,414.00	3.38	222.28	1,412.02	-20.42	-36.67	539,716.50	539,289.67	1.66	3.79	-36.81
1,508.00	4.22	219.91	1,505.81	-25.12	-40.75	539,711.80	539,285.59	0.89	-2.52	-40.93
1,603.00	4.62	219.21	1,600.53	-30.77	-45.41	539,706.15	539,280.93	0.42	-0.74	-45.63
1,697.00	5.71	220.09	1,694.15	-37.28	-50.82	539,699.64	539,275.52	1.16	0.94	-51.09
1,792.00	5.14	221.93	1,788.72	-44.06	-56.70	539,692.86	539,269.64	-0.60	1.94	-57.02
1,886.00	3.30	232.57	1,882.46	-48.84	-61.67	539,688.08	539,264.67	-1.96	11.32	-62.02
1,964.00	3.08	242.06	1,960.34	-51.19	-65.30	539,685.73	539,261.04	-0.28	12.17	-65.67
2,095.00	2.95	240.30	2,091.16	-54.50	-71.34	539,682.42	539,255.00	-0.10	-1.34	-71.73
2,190.00	4.84	222.46	2,185.94	-58.67	-76.17	539,678.25	539,250.17	1.99	-18.78	-76.59
2,284.00	5.14	222.90	2,279.59	-64.68	-81.71	539,672.24	539,244.63	0.32	0.47	-82.18



Stryker Directional

Stryker Survey



Company:	Tascosa Energy Partners	Local Co-ordinate Reference:	Well Chieftain 18 State Com #603H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	GL: 3275' + 27' KB @ 3302.00usft (Scan Texas)
Site:	Chieftain 18	MD Reference:	GL: 3275' + 27' KB @ 3302.00usft (Scan Texas)
Well:	Chieftain 18 State Com #603H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM5000

Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	Build (°/100usft)	Turn (°/100usft)	V. Sec (usft)
2,379.00	5.41	223.51	2,374.18	-71.05	-87.69	539,665.87	539,238.65	0.28	0.64	-88.21
2,473.00	5.23	225.36	2,467.78	-77.27	-93.79	539,659.65	539,232.55	-0.19	1.97	-94.35
2,568.00	5.36	224.04	2,562.37	-83.50	-99.95	539,653.42	539,226.39	0.14	-1.39	-100.56
2,663.00	5.10	224.31	2,656.98	-89.72	-105.99	539,647.20	539,220.35	-0.27	0.28	-106.64
2,756.00	5.32	226.33	2,749.59	-95.65	-111.99	539,641.27	539,214.35	0.24	2.17	-112.69
2,850.00	4.22	212.00	2,843.27	-101.59	-116.98	539,635.33	539,209.36	-1.17	-15.24	-117.72
2,945.00	4.48	209.28	2,938.00	-107.79	-120.65	539,629.13	539,205.69	0.27	-2.86	-121.43
3,039.00	4.70	211.47	3,031.69	-114.28	-124.45	539,622.64	539,201.89	0.23	2.33	-125.29
3,134.00	4.48	212.70	3,126.39	-120.72	-128.49	539,616.20	539,197.85	-0.23	1.29	-129.37
3,228.00	4.75	214.64	3,220.09	-127.01	-132.68	539,609.91	539,193.66	0.29	2.06	-133.61
3,323.00	4.84	213.49	3,314.75	-133.59	-137.13	539,603.33	539,189.21	0.09	-1.21	-138.11
3,417.00	5.10	214.29	3,408.40	-140.35	-141.67	539,596.57	539,184.67	0.28	0.85	-142.70
3,512.00	4.92	213.41	3,503.04	-147.24	-146.30	539,589.68	539,180.04	-0.19	-0.93	-147.37
3,606.00	5.14	214.81	3,596.67	-154.06	-150.92	539,582.86	539,175.42	0.23	1.49	-152.04
3,700.00	3.65	218.86	3,690.40	-159.85	-155.20	539,577.07	539,171.14	-1.59	4.31	-156.37
3,794.00	3.34	216.83	3,784.22	-164.37	-158.72	539,572.55	539,167.62	-0.33	-2.16	-159.92
3,888.00	3.08	218.24	3,878.07	-168.55	-161.92	539,568.37	539,164.42	-0.28	1.50	-163.15
3,983.00	3.25	216.92	3,972.93	-172.70	-165.12	539,564.22	539,161.22	0.18	-1.39	-166.38
4,077.00	2.90	214.64	4,066.79	-176.79	-168.07	539,560.13	539,158.27	-0.37	-2.43	-169.36
4,172.00	3.87	215.69	4,161.63	-181.37	-171.31	539,555.55	539,155.03	1.02	1.11	-172.63
4,266.00	4.57	216.83	4,255.37	-186.95	-175.40	539,549.97	539,150.94	0.74	1.21	-176.77
4,361.00	4.48	216.13	4,350.07	-192.97	-179.86	539,543.95	539,146.48	-0.09	-0.74	-181.27
4,455.00	4.18	213.58	4,443.81	-198.79	-183.92	539,538.13	539,142.42	-0.32	-2.71	-185.37
4,549.00	4.13	212.53	4,537.56	-204.50	-187.64	539,532.42	539,138.70	-0.05	-1.12	-189.13
4,644.00	3.82	212.79	4,632.33	-210.04	-191.19	539,526.88	539,135.15	-0.33	0.27	-192.72
4,738.00	3.69	206.64	4,726.13	-215.38	-194.24	539,521.54	539,132.10	-0.14	-6.54	-195.81
4,833.00	4.18	223.69	4,820.91	-220.62	-198.00	539,516.30	539,128.34	0.52	17.95	-199.62



Stryker Directional

Stryker Survey



Company:	Tascosa Energy Partners	Local Co-ordinate Reference:	Well Chieftain 18 State Com #603H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	GL: 3275' + 27' KB @ 3302.00usft (Scan Texas)
Site:	Chieftain 18	MD Reference:	GL: 3275' + 27' KB @ 3302.00usft (Scan Texas)
Well:	Chieftain 18 State Com #603H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM5000

Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	Build (°/100usft)	Turn (°/100usft)	V. Sec (usft)
4,927.00	3.96	224.57	4,914.67	-225.41	-202.65	539,511.51	539,123.69	-0.23	0.94	-204.29
5,021.00	3.82	219.56	5,008.45	-230.13	-206.92	539,506.79	539,119.42	-0.15	-5.33	-208.60
5,116.00	4.00	213.67	5,103.23	-235.33	-210.77	539,501.59	539,115.57	0.19	-6.20	-212.49
5,211.00	4.00	208.92	5,198.00	-240.99	-214.21	539,495.93	539,112.13	0.00	-5.00	-215.97
5,305.00	4.62	216.04	5,291.74	-246.92	-218.02	539,490.00	539,108.32	0.66	7.57	-219.83
5,400.00	4.70	213.14	5,386.42	-253.27	-222.40	539,483.65	539,103.94	0.08	-3.05	-224.25
5,494.00	4.40	211.21	5,480.13	-259.58	-226.38	539,477.34	539,099.96	-0.32	-2.05	-228.27
5,588.00	4.84	233.27	5,573.83	-265.04	-231.42	539,471.88	539,094.92	0.47	23.47	-233.36
5,683.00	4.70	231.07	5,668.50	-269.88	-237.66	539,467.04	539,088.68	-0.15	-2.32	-239.64
5,777.00	4.35	226.68	5,762.21	-274.74	-243.25	539,462.18	539,083.09	-0.37	-4.67	-245.26
5,871.00	4.00	222.20	5,855.96	-279.62	-248.05	539,457.30	539,078.29	-0.37	-4.77	-250.09
5,966.00	3.65	223.16	5,950.75	-284.28	-252.34	539,452.64	539,074.00	-0.37	1.01	-254.42
6,060.00	5.45	212.09	6,044.45	-290.24	-256.76	539,446.68	539,069.58	1.91	-11.78	-258.88
6,154.00	5.14	207.69	6,138.05	-297.75	-261.09	539,439.17	539,065.25	-0.33	-4.68	-263.27
6,249.00	4.75	204.35	6,232.69	-305.11	-264.69	539,431.81	539,061.65	-0.41	-3.52	-266.92
6,343.00	6.77	214.02	6,326.22	-313.24	-269.39	539,423.68	539,056.95	2.15	10.29	-271.68
6,438.00	7.08	213.32	6,420.52	-322.78	-275.74	539,414.14	539,050.60	0.33	-0.74	-278.10
6,532.00	5.63	232.74	6,513.95	-330.41	-282.60	539,406.51	539,043.74	-1.54	20.66	-285.01
6,626.00	4.00	224.48	6,607.62	-335.54	-288.56	539,401.38	539,037.78	-1.73	-8.79	-291.02
6,720.00	2.64	194.42	6,701.47	-339.98	-291.40	539,396.94	539,034.94	-1.45	-31.98	-293.88
6,814.00	2.81	142.48	6,795.37	-343.90	-290.54	539,393.02	539,035.80	0.18	-55.26	-293.05
6,909.00	1.67	156.89	6,890.30	-347.02	-288.57	539,389.90	539,037.77	-1.20	15.17	-291.11
7,004.00	1.05	169.02	6,985.27	-349.15	-287.87	539,387.77	539,038.47	-0.65	12.77	-290.42
7,098.00	1.23	149.86	7,079.25	-350.87	-287.19	539,386.05	539,039.15	0.19	-20.38	-289.76
7,192.00	0.84	105.74	7,173.24	-351.93	-286.02	539,384.99	539,040.32	-0.41	-46.94	-288.60
7,265.00	0.79	147.66	7,246.23	-352.50	-285.24	539,384.42	539,041.10	-0.07	57.42	-287.82
7,330.00	1.36	108.03	7,311.22	-353.12	-284.27	539,383.80	539,042.07	0.88	-60.97	-286.85



Stryker Directional

Stryker Survey



Company:	Tascosa Energy Partners	Local Co-ordinate Reference:	Well Chieftain 18 State Com #603H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	GL: 3275' + 27' KB @ 3302.00usft (Scan Texas)
Site:	Chieftain 18	MD Reference:	GL: 3275' + 27' KB @ 3302.00usft (Scan Texas)
Well:	Chieftain 18 State Com #603H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM5000

Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	Build (°/100usft)	Turn (°/100usft)	V. Sec (usft)
7,425.00	11.65	94.93	7,405.49	-354.29	-273.61	539,382.63	539,052.73	10.83	-13.79	-276.20
7,485.13	19.82	88.31	7,463.32	-354.51	-257.34	539,382.41	539,069.00	13.59	-11.01	-259.93
FTP - 7485.13' MD										
7,519.00	24.48	86.49	7,494.68	-353.92	-244.59	539,383.00	539,081.75	13.75	-5.37	-247.18
7,566.00	31.21	86.67	7,536.21	-352.61	-222.69	539,384.31	539,103.65	14.32	0.38	-225.27
7,613.00	34.81	89.74	7,575.62	-351.84	-197.11	539,385.08	539,129.23	7.66	6.53	-199.68
7,660.00	37.27	90.10	7,613.62	-351.81	-169.46	539,385.11	539,156.88	5.23	0.77	-172.03
7,708.00	40.48	90.80	7,650.99	-352.05	-139.34	539,384.87	539,187.00	6.69	1.46	-141.91
7,802.00	43.87	89.04	7,720.64	-351.93	-76.24	539,384.99	539,250.10	3.61	-1.87	-78.82
7,897.00	49.76	87.81	7,785.63	-349.99	-7.03	539,386.93	539,319.31	6.20	-1.29	-9.60
7,991.00	55.65	88.43	7,842.56	-347.55	67.68	539,389.37	539,394.02	6.27	0.66	65.13
8,086.00	63.69	91.59	7,890.51	-347.66	149.59	539,389.26	539,475.93	8.46	3.33	147.04
8,181.00	74.55	94.75	7,924.32	-352.65	238.06	539,384.27	539,564.40	11.43	3.33	235.47
8,218.00	79.21	92.56	7,932.72	-354.94	274.01	539,381.98	539,600.35	12.59	-5.92	271.40
8,278.00	87.69	90.97	7,939.56	-356.77	333.54	539,380.15	539,659.88	14.13	-2.65	330.91
8,372.00	85.10	90.45	7,945.47	-357.93	427.34	539,378.99	539,753.68	-2.76	-0.55	424.70
8,466.00	84.13	90.36	7,954.29	-358.59	520.92	539,378.33	539,847.26	-1.03	-0.10	518.28
8,561.00	83.69	90.45	7,964.37	-359.26	615.38	539,377.66	539,941.72	-0.46	0.09	612.73
8,656.00	85.93	90.71	7,972.96	-360.22	709.98	539,376.70	540,036.32	2.36	0.27	707.32
8,750.00	88.18	90.89	7,977.79	-361.53	803.84	539,375.39	540,130.18	2.39	0.19	801.17
8,845.00	88.97	90.89	7,980.15	-363.00	898.80	539,373.92	540,225.14	0.83	0.00	896.11
8,939.00	89.01	90.54	7,981.81	-364.18	992.78	539,372.74	540,319.12	0.04	-0.37	990.08
9,034.00	86.99	90.27	7,985.12	-364.85	1,087.71	539,372.07	540,414.05	-2.13	-0.28	1,085.01
9,128.00	86.07	90.18	7,990.81	-365.22	1,181.54	539,371.70	540,507.88	-0.98	-0.10	1,178.83
9,222.00	85.85	89.74	7,997.44	-365.15	1,275.30	539,371.77	540,601.64	-0.23	-0.47	1,272.59
9,317.00	87.91	89.39	8,002.61	-364.43	1,370.15	539,372.49	540,696.49	2.17	-0.37	1,367.45
9,411.00	88.75	89.22	8,005.35	-363.29	1,464.11	539,373.63	540,790.45	0.89	-0.18	1,461.40



Stryker Directional

Stryker Survey



Company:	Tascosa Energy Partners	Local Co-ordinate Reference:	Well Chieftain 18 State Com #603H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	GL: 3275' + 27' KB @ 3302.00usft (Scan Texas)
Site:	Chieftain 18	MD Reference:	GL: 3275' + 27' KB @ 3302.00usft (Scan Texas)
Well:	Chieftain 18 State Com #603H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM5000

Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	Build (°/100usft)	Turn (°/100usft)	V. Sec (usft)
9,505.00	87.69	88.60	8,008.27	-361.50	1,558.04	539,375.42	540,884.38	-1.13	-0.66	1,555.35
9,600.00	87.60	88.51	8,012.17	-359.11	1,652.93	539,377.81	540,979.27	-0.09	-0.09	1,650.25
9,694.00	87.21	88.25	8,016.42	-356.45	1,746.80	539,380.47	541,073.14	-0.41	-0.28	1,744.14
9,788.00	88.75	88.87	8,019.74	-354.09	1,840.71	539,382.83	541,167.05	1.64	0.66	1,838.06
9,882.00	89.01	88.95	8,021.58	-352.31	1,934.67	539,384.61	541,261.01	0.28	0.09	1,932.04
9,977.00	89.01	88.78	8,023.22	-350.42	2,029.64	539,386.50	541,355.98	0.00	-0.18	2,027.01
10,072.00	89.32	88.69	8,024.60	-348.33	2,124.60	539,388.59	541,450.94	0.33	-0.09	2,121.99
10,166.00	89.49	88.43	8,025.58	-345.97	2,218.57	539,390.95	541,544.91	0.18	-0.28	2,215.97
10,261.00	88.92	89.83	8,026.90	-344.52	2,313.55	539,392.40	541,639.89	-0.60	1.47	2,310.96
10,355.00	88.53	89.48	8,028.99	-343.96	2,407.52	539,392.96	541,733.86	-0.41	-0.37	2,404.94
10,449.00	88.13	89.22	8,031.73	-342.89	2,501.48	539,394.03	541,827.82	-0.43	-0.28	2,498.89
10,543.00	86.81	89.74	8,035.88	-342.04	2,595.38	539,394.88	541,921.72	-1.40	0.55	2,592.80
10,637.00	88.57	90.54	8,039.66	-342.27	2,689.30	539,394.65	542,015.64	1.87	0.85	2,686.71
10,732.00	89.32	90.71	8,041.41	-343.30	2,784.27	539,393.62	542,110.61	0.79	0.18	2,781.68
10,826.00	89.23	90.54	8,042.60	-344.33	2,878.26	539,392.59	542,204.60	-0.10	-0.18	2,875.66
10,921.00	89.36	90.54	8,043.77	-345.23	2,973.25	539,391.69	542,299.59	0.14	0.00	2,970.64
11,015.00	87.87	91.41	8,046.04	-346.82	3,067.20	539,390.10	542,393.54	-1.59	0.93	3,064.58
11,110.00	88.09	91.41	8,049.39	-349.16	3,162.12	539,387.76	542,488.46	0.23	0.00	3,159.47
11,204.00	88.57	91.68	8,052.13	-351.69	3,256.04	539,385.23	542,582.38	0.51	0.29	3,253.38
11,299.00	89.27	91.85	8,053.92	-354.62	3,350.98	539,382.30	542,677.32	0.74	0.18	3,348.29
11,393.00	88.44	90.36	8,055.80	-356.43	3,444.94	539,380.49	542,771.28	-0.88	-1.59	3,442.23
11,488.00	88.84	90.36	8,058.06	-357.03	3,539.91	539,379.89	542,866.25	0.42	0.00	3,537.20
11,583.00	89.54	90.36	8,059.40	-357.63	3,634.90	539,379.29	542,961.24	0.74	0.00	3,632.18
11,677.00	89.01	89.83	8,060.59	-357.78	3,728.89	539,379.14	543,055.23	-0.56	-0.56	3,726.17
11,772.00	88.84	89.92	8,062.37	-357.57	3,823.87	539,379.35	543,150.21	-0.18	0.09	3,821.15
11,867.00	87.16	89.22	8,065.69	-356.86	3,918.81	539,380.06	543,245.15	-1.77	-0.74	3,916.09
11,961.00	89.93	88.87	8,068.07	-355.30	4,012.76	539,381.62	543,339.10	2.95	-0.37	4,010.04



Stryker Directional

Stryker Survey



Company:	Tascosa Energy Partners	Local Co-ordinate Reference:	Well Chieftain 18 State Com #603H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	GL: 3275' + 27' KB @ 3302.00usft (Scan Texas)
Site:	Chieftain 18	MD Reference:	GL: 3275' + 27' KB @ 3302.00usft (Scan Texas)
Well:	Chieftain 18 State Com #603H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM5000

Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	Build (°/100usft)	Turn (°/100usft)	V. Sec (usft)
12,054.00	88.88	88.25	8,069.04	-352.96	4,105.72	539,383.96	543,432.06	-1.13	-0.67	4,103.02
12,148.00	88.09	87.99	8,071.52	-349.88	4,199.64	539,387.04	543,525.98	-0.84	-0.28	4,196.96
12,243.00	89.05	88.51	8,073.89	-346.98	4,294.56	539,389.94	543,620.90	1.01	0.55	4,291.90
12,337.00	88.22	88.69	8,076.13	-344.68	4,388.51	539,392.24	543,714.85	-0.88	0.19	4,385.86
12,432.00	88.35	88.16	8,078.98	-342.07	4,483.43	539,394.85	543,809.77	0.14	-0.56	4,480.80
12,526.00	88.62	87.99	8,081.46	-338.91	4,577.34	539,398.01	543,903.68	0.29	-0.18	4,574.73
12,621.00	88.53	87.20	8,083.82	-334.93	4,672.23	539,401.99	543,998.57	-0.09	-0.83	4,669.65
12,689.00	89.05	87.20	8,085.26	-331.61	4,740.13	539,405.31	544,066.47	0.76	0.00	4,737.57
Last Stryker MWD Survey - 12689.00' MD										
12,760.00	89.05	87.20	8,086.44	-328.14	4,811.04	539,408.78	544,137.38	0.00	0.00	4,808.50
PTB - 12760.00' MD										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
181.00	180.99	1.16	0.88	First Stryker MWD Survey - 181.00' MD
7,485.13	7,463.32	-354.51	-257.34	FTP - 7485.13' MD
12,689.00	8,085.26	-331.61	4,740.13	Last Stryker MWD Survey - 12689.00' MD
12,760.00	8,086.44	-328.14	4,811.04	PTB - 12760.00' MD

Checked By: _____ Approved By: _____ Date: _____

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

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

CONDITIONS

Action 438757

CONDITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 438757
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Accepted for the record. Tascosa drilled the well prior to Permian purchasing the property.	3/6/2025