

Santa Fe Main Office
Phone: (505) 476-3441State of New Mexico
Energy, Minerals and Natural ResourcesForm C-103
Revised July 18, 2013

Phone: (505) 629-6116

Online Phone Directory Visit:
<https://www.emnrd.nm.gov/ocd/contact-us/>OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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.)		WELL API NO. 30-015-55714
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease ☒ FEE ☐
2. Name of Operator Permian Resources Operating LLC		6. State Oil & Gas Lease No.
3. Address of Operator 300 N Marienfield St, Ste 1000, Midland, TX 79701		7. Lease Name or Unit Agreement Name Fred State Com
4. Well Location Unit Letter <u>E</u> : <u>1171</u> feet from the <u>North</u> line and <u>472</u> feet from the <u>West</u> line Section <u>33</u> Township <u>21S</u> Range <u>27E</u> NMPM County <u>Eddy</u>		8. Well Number 422H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3117'		9. OGRID Number 372165
10. Pool name or Wildcat (74160) Carlsbad; Wolfcamp, East (GAS)		

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
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 Operating, LLC requests permission to make the following changes to the original APD: Name Change, SHL/FTP/LTP/BHL Change, Total Depth (TVD/MD).

SHL Change:

From: 1711' FNL, 472' FWL, E Sec 33, T21S, R27E

To: 2299' FNL, 112' FWL, E Sec 33, T21S, R27E

FTP Change:

From: 2300' FNL, 100' FEL, H-Sec 32, T21S,

R27E

To: 2530' FNL, 100' FEL, H-Sec 32, T21S, R27E

LTP Change:

From: 2320' FNL, 100' FWL, E-Sec 36, T21S, R26E

To: 2530' FNL, 100' FWL, E-Sec 36, T21S, R26E

BHL Change:

From: 2320' FNL, 100' FWL, E-Sec 36, T21S, R26E

To: 2530' FNL, 100' FWL, E-Sec 36, T21S, R26E

Change TD/MD

From: 9300'TVD, 24,686'MD

To: 9300'TVD, 24,750'MD

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 _____ TITLE__Regulatory Supervisor_____ DATE__5/30/25_____

Type or print name _Cassie Evans_____ E-mail address: cassie.evans@permianres.com PHONE: _432-313-1732_____

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 30-015-55714	Pool Code 74160	Pool Name CARLSBAD; WOLFCAMP, EAST (GAS)
Property Code	Property Name FRED STATE COM	Well Number 422H
OGRID No. 372165	Operator Name PERMIAN RESOURCES OPERATING, LLC	Ground Level Elevation 3,121'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☒ State ☒ Fee ☐ Tribal ☐ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
E	33	21S	27E		2,299' FNL	1,172' FWL	32.437303°	-104.199694°	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
E	36	21S	26E		2,530' FNL	100' FWL	32.436706°	-104.254177°	EDDY

Dedicated Acres 1908.20	Infill or Defining Well Defining	Defining Well API	Overlapping Spacing Unit (Y/N) Y	Consolidation Code C, 0
Order Numbers.			Well setbacks are under Common Ownership: ☐ Yes ☒ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
E	33	21S	27E		2,299' FNL	1,172' FWL	32.437303°	-104.199694°	EDDY

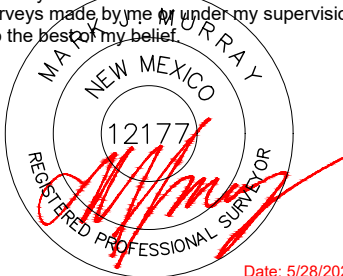
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	32	21S	27E		2,530' FNL	100' FEL	32.436630°	-104.203814°	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
E	36	21S	26E		2,530' FNL	100' FWL	32.436706°	-104.254177°	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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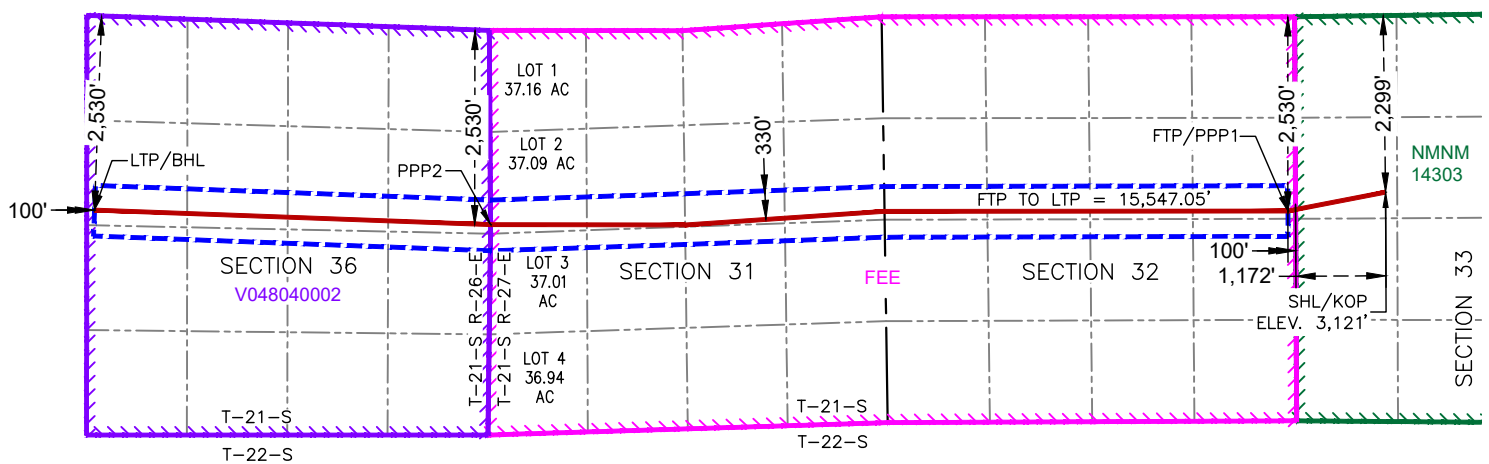
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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 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.		SURVEYOR CERTIFICATIONS 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.	
Signature <i>Cassie Evans</i> Date 5/28/25		Signature and Seal of Professional Surveyor 	
Printed Name Cassie Evans		Certificate Number 12177	Date of Survey 5/28/2025
Email Address cassie.evans@permianres.com			

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.

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.

**FRED STATE COM 422H**

**SURFACE HOLE LOCATION
& KICK-OFF POINT
2,299' FNL & 1,172' FWL
ELEV. = 3,121'**

NAD 83 X = 582,566.22'
NAD 83 Y = 522,847.74'
NAD 83 LAT = 32.437303°
NAD 83 LONG = -104.199694°
NAD 27 X = 541,385.07'
NAD 27 Y = 522,787.64'
NAD 27 LAT = 32.437185°
NAD 27 LONG = -104.199190°

**FIRST TAKE POINT &
PENETRATION POINT 1
2,530' FNL & 100' FEL**

NAD 83 X = 581,295.45'
NAD 83 Y = 522,601.27'
NAD 83 LAT = 32.436630°
NAD 83 LONG = -104.203814°
NAD 27 X = 540,114.31'
NAD 27 Y = 522,541.19'
NAD 27 LAT = 32.436512°
NAD 27 LONG = -104.203310°

**PENETRATION POINT 2
2,530' FNL & 0' FWL**

NAD 83 X = 570,914.40'
NAD 83 Y = 522,424.03'
NAD 83 LAT = 32.436173°
NAD 83 LONG = -104.237464°
NAD 27 X = 529,733.35'
NAD 27 Y = 522,364.07'
NAD 27 LAT = 32.436055°
NAD 27 LONG = -104.236959°

**LAST TAKE POINT &
BOTTOM HOLE LOCATION
2,530' FNL & 100' FWL**

NAD 83 X = 565,757.92'
NAD 83 Y = 522,613.75'
NAD 83 LAT = 32.436706°
NAD 83 LONG = -104.254177°
NAD 27 X = 524,576.94'
NAD 27 Y = 522,553.84'
NAD 27 LAT = 32.436588°
NAD 27 LONG = -104.253672°

1. Geologic Formations

2. Blowout Prevention

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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 annual 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: 5M Choke Manifold

BOP Diagram Attachment: BOP Schematics

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	300	0	300	300	J55	54.5	BTC	7.62	8.26	Dry	7.81	Dry	7.33
Intermediate 1	12.25	10.75	0	790	0	790	790	J55	45.5	BTC	12.14	3.36	Dry	7.82	Dry	5.26
Intermediate 2	9.875	8.625	0	2620	0	2620	2620	P110 HS	32	MO-FXL	5.51	2.47	Dry	4.29	Dry	6.22
Production	7.875	5.5	0	9685	0	9300	9685	P110RY	20	GeoConn	1.55	1.62	Dry	1.91	Dry	1.91
Production	7.875	5.5	9685	24750	9300	9300	15065	P110RY	20	GeoConn	1.55	1.62	Dry	1.91	Dry	1.91
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	300	240	1.34	14.8	320	50%	Class C	Accelerator
Intermediate 1	Lead	0	630	100	1.88	12.9	170	50%	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
Intermediate 1	Tail	630	790	40	1.34	14.8	50	50%	Class C	Retarder
Intermediate 2	Lead	0	2090	130	2.96	11	360	50%	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
Intermediate 2	Tail	2090	2620	70	1.33	14.8	90	25%	Class C	Salt
Production	Lead	2120	8935	680	2.41	11.5	1630	40%	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder
Production	Tail	8935	24750	1990	1.73	12.5	3430	25%	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder

Permian Resources requests to pump a two-stage cement job on the 8-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Cherry Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + Bentonite Gel (2.30 yld, 12.9 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

Permian Resources will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

Permian Resources will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

Permian Resources requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement inside the surface casing. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

Permian Resources requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

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 mud check practices.

Cuttings Volume: 9370 Cu Ft

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight	Max Weight
0	300	Spud Mud	8.6	9.5
300	790	Salt Saturated	10	10
790	2620	Fresh Water	8.6	9.5
2620	9685	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:

N/A

7. Pressure

Anticipated Bottom Hole Pressure	4840	psi
Anticipated Surface Pressure	2790	psi
Anticipated Bottom Hole Temperature	149	°F
Anticipated Abnormal pressure, temp, or geo hazards	No	

PERMIAN

R E S O U R C E S

NEW MEXICO

(SP) EDDY

FRED PROJECT

FRED STATE COM 422H

OWB

Plan: PWP0

Standard Planning Report - Geographic

28 May, 2025

PERMIAN

RESOURCES

Planning Report - Geographic

Database:	Compass_17	Local Co-ordinate Reference:	Well FRED STATE COM 422H
Company:	NEW MEXICO	TVD Reference:	KB @ 3151.0usft
Project:	(SP) EDDY	MD Reference:	KB @ 3151.0usft
Site:	FRED PROJECT	North Reference:	Grid
Well:	FRED STATE COM 422H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project	(SP) EDDY		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		FRED PROJECT			
Site Position:		Northing:	523,162.55 usft	Latitude:	32° 26' 17.407 N
From:	Map	Easting:	582,566.25 usft	Longitude:	104° 11' 58.894 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "		

Well	FRED STATE COM 422H					
Well Position	+N/-S	0.0 usft	Northing:	522,847.74 usft	Latitude:	32° 26' 14.291 N
	+E/-W	0.0 usft	Easting:	582,566.22 usft	Longitude:	104° 11' 58.899 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,121.0 usft
Grid Convergence:		0.07 °				

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	8.05	60.33	48,853.27000982

Design	PWP0			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	269.20

Plan Survey Tool Program	Date	5/28/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	24,749.6 PWP0 (OWB)	MWD	
			OWSG_Rev2_ MWD - Standal	

PERMIAN
RESOURCES

Planning Report - Geographic

Database:	Compass_17	Local Co-ordinate Reference:	Well FRED STATE COM 422H
Company:	NEW MEXICO	TVD Reference:	KB @ 3151.0usft
Project:	(SP) EDDY	MD Reference:	KB @ 3151.0usft
Site:	FRED PROJECT	North Reference:	Grid
Well:	FRED STATE COM 422H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,506.0	10.12	259.02	1,503.3	-8.5	-43.8	2.00	2.00	0.00	259.02	
8,366.0	10.12	259.02	8,256.7	-238.0	-1,227.0	0.00	0.00	0.00	0.00	
8,872.0	0.00	0.00	8,760.0	-246.5	-1,270.8	2.00	-2.00	0.00	180.00	
8,934.5	0.00	0.00	8,822.5	-246.5	-1,270.8	0.00	0.00	0.00	0.00	
9,684.5	90.00	269.02	9,300.0	-254.6	-1,748.2	12.00	12.00	-12.13	269.02	
19,589.6	90.00	269.02	9,300.0	-423.7	-11,651.8	0.00	0.00	0.00	0.00	PP2-FSC 422H
19,746.2	90.00	272.15	9,300.0	-422.1	-11,808.4	2.00	0.00	2.00	90.00	
24,749.6	90.00	272.15	9,300.0	-234.0	-16,808.3	0.00	0.00	0.00	0.00	LTP/BHL-FSC 422H

PERMIAN

RESOURCES

Planning Report - Geographic

Database:	Compass_17	Local Co-ordinate Reference:	Well FRED STATE COM 422H
Company:	NEW MEXICO	TVD Reference:	KB @ 3151.0usft
Project:	(SP) EDDY	MD Reference:	KB @ 3151.0usft
Site:	FRED PROJECT	North Reference:	Grid
Well:	FRED STATE COM 422H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	522,847.74	582,566.22	32° 26' 14.291 N	104° 11' 58.899 W
100.0	0.00	0.00	100.0	0.0	0.0	522,847.74	582,566.22	32° 26' 14.291 N	104° 11' 58.899 W
200.0	0.00	0.00	200.0	0.0	0.0	522,847.74	582,566.22	32° 26' 14.291 N	104° 11' 58.899 W
300.0	0.00	0.00	300.0	0.0	0.0	522,847.74	582,566.22	32° 26' 14.291 N	104° 11' 58.899 W
400.0	0.00	0.00	400.0	0.0	0.0	522,847.74	582,566.22	32° 26' 14.291 N	104° 11' 58.899 W
500.0	0.00	0.00	500.0	0.0	0.0	522,847.74	582,566.22	32° 26' 14.291 N	104° 11' 58.899 W
600.0	0.00	0.00	600.0	0.0	0.0	522,847.74	582,566.22	32° 26' 14.291 N	104° 11' 58.899 W
700.0	0.00	0.00	700.0	0.0	0.0	522,847.74	582,566.22	32° 26' 14.291 N	104° 11' 58.899 W
800.0	0.00	0.00	800.0	0.0	0.0	522,847.74	582,566.22	32° 26' 14.291 N	104° 11' 58.899 W
900.0	0.00	0.00	900.0	0.0	0.0	522,847.74	582,566.22	32° 26' 14.291 N	104° 11' 58.899 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	522,847.74	582,566.22	32° 26' 14.291 N	104° 11' 58.899 W
Start Build 2.00									
1,100.0	2.00	259.02	1,100.0	-0.3	-1.7	522,847.41	582,564.51	32° 26' 14.288 N	104° 11' 58.919 W
1,200.0	4.00	259.02	1,199.8	-1.3	-6.9	522,846.41	582,559.37	32° 26' 14.278 N	104° 11' 58.979 W
1,300.0	6.00	259.02	1,299.5	-3.0	-15.4	522,844.75	582,550.82	32° 26' 14.262 N	104° 11' 59.079 W
1,400.0	8.00	259.02	1,398.7	-5.3	-27.4	522,842.43	582,538.85	32° 26' 14.239 N	104° 11' 59.219 W
1,506.0	10.12	259.02	1,503.3	-8.5	-43.8	522,839.26	582,522.47	32° 26' 14.208 N	104° 11' 59.410 W
Start 6860.0 hold at 1506.0 MD									
1,600.0	10.12	259.02	1,595.9	-11.6	-60.0	522,836.11	582,506.25	32° 26' 14.177 N	104° 11' 59.599 W
1,700.0	10.12	259.02	1,694.4	-15.0	-77.2	522,832.77	582,489.01	32° 26' 14.144 N	104° 11' 59.800 W
1,800.0	10.12	259.02	1,792.8	-18.3	-94.5	522,829.42	582,471.76	32° 26' 14.111 N	104° 12' 0.002 W
1,900.0	10.12	259.02	1,891.2	-21.7	-111.7	522,826.07	582,454.51	32° 26' 14.078 N	104° 12' 0.203 W
2,000.0	10.12	259.02	1,989.7	-25.0	-129.0	522,822.73	582,437.26	32° 26' 14.045 N	104° 12' 0.404 W
2,100.0	10.12	259.02	2,088.1	-28.4	-146.2	522,819.38	582,420.01	32° 26' 14.012 N	104° 12' 0.606 W
2,200.0	10.12	259.02	2,186.6	-31.7	-163.5	522,816.04	582,402.76	32° 26' 13.980 N	104° 12' 0.807 W
2,300.0	10.12	259.02	2,285.0	-35.0	-180.7	522,812.69	582,385.51	32° 26' 13.947 N	104° 12' 1.008 W
2,400.0	10.12	259.02	2,383.5	-38.4	-198.0	522,809.35	582,368.26	32° 26' 13.914 N	104° 12' 1.210 W
2,500.0	10.12	259.02	2,481.9	-41.7	-215.2	522,806.00	582,351.02	32° 26' 13.881 N	104° 12' 1.411 W
2,600.0	10.12	259.02	2,580.4	-45.1	-232.5	522,802.66	582,333.77	32° 26' 13.848 N	104° 12' 1.612 W
2,700.0	10.12	259.02	2,678.8	-48.4	-249.7	522,799.31	582,316.52	32° 26' 13.815 N	104° 12' 1.814 W
2,800.0	10.12	259.02	2,777.2	-51.8	-267.0	522,795.97	582,299.27	32° 26' 13.782 N	104° 12' 2.015 W
2,900.0	10.12	259.02	2,875.7	-55.1	-284.2	522,792.62	582,282.02	32° 26' 13.749 N	104° 12' 2.216 W
3,000.0	10.12	259.02	2,974.1	-58.5	-301.5	522,789.27	582,264.77	32° 26' 13.716 N	104° 12' 2.418 W
3,100.0	10.12	259.02	3,072.6	-61.8	-318.7	522,785.93	582,247.52	32° 26' 13.684 N	104° 12' 2.619 W
3,200.0	10.12	259.02	3,171.0	-65.2	-335.9	522,782.58	582,230.27	32° 26' 13.651 N	104° 12' 2.820 W
3,300.0	10.12	259.02	3,269.5	-68.5	-353.2	522,779.24	582,213.03	32° 26' 13.618 N	104° 12' 3.022 W
3,400.0	10.12	259.02	3,367.9	-71.8	-370.4	522,775.89	582,195.78	32° 26' 13.585 N	104° 12' 3.223 W
3,500.0	10.12	259.02	3,466.4	-75.2	-387.7	522,772.55	582,178.53	32° 26' 13.552 N	104° 12' 3.424 W
3,600.0	10.12	259.02	3,564.8	-78.5	-404.9	522,769.20	582,161.28	32° 26' 13.519 N	104° 12' 3.626 W
3,700.0	10.12	259.02	3,663.2	-81.9	-422.2	522,765.86	582,144.03	32° 26' 13.486 N	104° 12' 3.827 W
3,800.0	10.12	259.02	3,761.7	-85.2	-439.4	522,762.51	582,126.78	32° 26' 13.453 N	104° 12' 4.028 W
3,900.0	10.12	259.02	3,860.1	-88.6	-456.7	522,759.17	582,109.53	32° 26' 13.420 N	104° 12' 4.230 W
4,000.0	10.12	259.02	3,958.6	-91.9	-473.9	522,755.82	582,092.28	32° 26' 13.387 N	104° 12' 4.431 W
4,100.0	10.12	259.02	4,057.0	-95.3	-491.2	522,752.47	582,075.04	32° 26' 13.355 N	104° 12' 4.632 W
4,200.0	10.12	259.02	4,155.5	-98.6	-508.4	522,749.13	582,057.79	32° 26' 13.322 N	104° 12' 4.834 W
4,300.0	10.12	259.02	4,253.9	-102.0	-525.7	522,745.78	582,040.54	32° 26' 13.289 N	104° 12' 5.035 W
4,400.0	10.12	259.02	4,352.4	-105.3	-542.9	522,742.44	582,023.29	32° 26' 13.256 N	104° 12' 5.236 W
4,500.0	10.12	259.02	4,450.8	-108.6	-560.2	522,739.09	582,006.04	32° 26' 13.223 N	104° 12' 5.438 W
4,600.0	10.12	259.02	4,549.2	-112.0	-577.4	522,735.75	581,988.79	32° 26' 13.190 N	104° 12' 5.639 W
4,700.0	10.12	259.02	4,647.7	-115.3	-594.7	522,732.40	581,971.54	32° 26' 13.157 N	104° 12' 5.840 W
4,800.0	10.12	259.02	4,746.1	-118.7	-611.9	522,729.06	581,954.29	32° 26' 13.124 N	104° 12' 6.042 W
4,900.0	10.12	259.02	4,844.6	-122.0	-629.2	522,725.71	581,937.05	32° 26' 13.091 N	104° 12' 6.243 W
5,000.0	10.12	259.02	4,943.0	-125.4	-646.4	522,722.37	581,919.80	32° 26' 13.059 N	104° 12' 6.444 W
5,100.0	10.12	259.02	5,041.5	-128.7	-663.7	522,719.02	581,902.55	32° 26' 13.026 N	104° 12' 6.646 W

PERMIAN

RESOURCES

Planning Report - Geographic

Database:	Compass_17	Local Co-ordinate Reference:	Well FRED STATE COM 422H
Company:	NEW MEXICO	TVD Reference:	KB @ 3151.0usft
Project:	(SP) EDDY	MD Reference:	KB @ 3151.0usft
Site:	FRED PROJECT	North Reference:	Grid
Well:	FRED STATE COM 422H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,200.0	10.12	259.02	5,139.9	-132.1	-680.9	522,715.67	581,885.30	32° 26' 12.993 N	104° 12' 6.847 W
5,300.0	10.12	259.02	5,238.4	-135.4	-698.2	522,712.33	581,868.05	32° 26' 12.960 N	104° 12' 7.048 W
5,400.0	10.12	259.02	5,336.8	-138.8	-715.4	522,708.98	581,850.80	32° 26' 12.927 N	104° 12' 7.249 W
5,500.0	10.12	259.02	5,435.2	-142.1	-732.7	522,705.64	581,833.55	32° 26' 12.894 N	104° 12' 7.451 W
5,600.0	10.12	259.02	5,533.7	-145.4	-749.9	522,702.29	581,816.30	32° 26' 12.861 N	104° 12' 7.652 W
5,700.0	10.12	259.02	5,632.1	-148.8	-767.2	522,698.95	581,799.06	32° 26' 12.828 N	104° 12' 7.853 W
5,800.0	10.12	259.02	5,730.6	-152.1	-784.4	522,695.60	581,781.81	32° 26' 12.795 N	104° 12' 8.055 W
5,900.0	10.12	259.02	5,829.0	-155.5	-801.7	522,692.26	581,764.56	32° 26' 12.762 N	104° 12' 8.256 W
6,000.0	10.12	259.02	5,927.5	-158.8	-818.9	522,688.91	581,747.31	32° 26' 12.730 N	104° 12' 8.457 W
6,100.0	10.12	259.02	6,025.9	-162.2	-836.2	522,685.57	581,730.06	32° 26' 12.697 N	104° 12' 8.659 W
6,200.0	10.12	259.02	6,124.4	-165.5	-853.4	522,682.22	581,712.81	32° 26' 12.664 N	104° 12' 8.860 W
6,300.0	10.12	259.02	6,222.8	-168.9	-870.7	522,678.87	581,695.56	32° 26' 12.631 N	104° 12' 9.061 W
6,400.0	10.12	259.02	6,321.2	-172.2	-887.9	522,675.53	581,678.31	32° 26' 12.598 N	104° 12' 9.263 W
6,500.0	10.12	259.02	6,419.7	-175.6	-905.2	522,672.18	581,661.07	32° 26' 12.565 N	104° 12' 9.464 W
6,600.0	10.12	259.02	6,518.1	-178.9	-922.4	522,668.84	581,643.82	32° 26' 12.532 N	104° 12' 9.665 W
6,700.0	10.12	259.02	6,616.6	-182.2	-939.7	522,665.49	581,626.57	32° 26' 12.499 N	104° 12' 9.867 W
6,800.0	10.12	259.02	6,715.0	-185.6	-956.9	522,662.15	581,609.32	32° 26' 12.466 N	104° 12' 10.068 W
6,900.0	10.12	259.02	6,813.5	-188.9	-974.2	522,658.80	581,592.07	32° 26' 12.433 N	104° 12' 10.269 W
7,000.0	10.12	259.02	6,911.9	-192.3	-991.4	522,655.46	581,574.82	32° 26' 12.401 N	104° 12' 10.471 W
7,100.0	10.12	259.02	7,010.3	-195.6	-1,008.7	522,652.11	581,557.57	32° 26' 12.368 N	104° 12' 10.672 W
7,200.0	10.12	259.02	7,108.8	-199.0	-1,025.9	522,648.77	581,540.32	32° 26' 12.335 N	104° 12' 10.873 W
7,300.0	10.12	259.02	7,207.2	-202.3	-1,043.1	522,645.42	581,523.08	32° 26' 12.302 N	104° 12' 11.075 W
7,400.0	10.12	259.02	7,305.7	-205.7	-1,060.4	522,642.07	581,505.83	32° 26' 12.269 N	104° 12' 11.276 W
7,500.0	10.12	259.02	7,404.1	-209.0	-1,077.6	522,638.73	581,488.58	32° 26' 12.236 N	104° 12' 11.477 W
7,600.0	10.12	259.02	7,502.6	-212.4	-1,094.9	522,635.38	581,471.33	32° 26' 12.203 N	104° 12' 11.679 W
7,700.0	10.12	259.02	7,601.0	-215.7	-1,112.1	522,632.04	581,454.08	32° 26' 12.170 N	104° 12' 11.880 W
7,800.0	10.12	259.02	7,699.5	-219.0	-1,129.4	522,628.69	581,436.83	32° 26' 12.137 N	104° 12' 12.081 W
7,900.0	10.12	259.02	7,797.9	-222.4	-1,146.6	522,625.35	581,419.58	32° 26' 12.105 N	104° 12' 12.283 W
8,000.0	10.12	259.02	7,896.3	-225.7	-1,163.9	522,622.00	581,402.33	32° 26' 12.072 N	104° 12' 12.484 W
8,100.0	10.12	259.02	7,994.8	-229.1	-1,181.1	522,618.66	581,385.09	32° 26' 12.039 N	104° 12' 12.685 W
8,200.0	10.12	259.02	8,093.2	-232.4	-1,198.4	522,615.31	581,367.84	32° 26' 12.006 N	104° 12' 12.887 W
8,300.0	10.12	259.02	8,191.7	-235.8	-1,215.6	522,611.97	581,350.59	32° 26' 11.973 N	104° 12' 13.088 W
8,366.0	10.12	259.02	8,256.7	-238.0	-1,227.0	522,609.76	581,339.20	32° 26' 11.951 N	104° 12' 13.221 W
Start Drop -2.00									
8,400.0	9.44	259.02	8,290.2	-239.1	-1,232.7	522,608.66	581,333.53	32° 26' 11.940 N	104° 12' 13.287 W
8,500.0	7.44	259.02	8,389.1	-241.9	-1,247.1	522,605.86	581,319.13	32° 26' 11.913 N	104° 12' 13.455 W
8,600.0	5.44	259.02	8,488.4	-244.0	-1,258.1	522,603.73	581,308.12	32° 26' 11.892 N	104° 12' 13.584 W
8,700.0	3.44	259.02	8,588.1	-245.5	-1,265.7	522,602.25	581,300.52	32° 26' 11.877 N	104° 12' 13.672 W
8,800.0	1.44	259.02	8,688.0	-246.3	-1,269.9	522,601.44	581,296.34	32° 26' 11.869 N	104° 12' 13.721 W
8,872.0	0.00	0.00	8,760.0	-246.5	-1,270.8	522,601.27	581,295.45	32° 26' 11.868 N	104° 12' 13.731 W
Start 62.5 hold at 8872.0 MD									
8,900.0	0.00	0.00	8,788.0	-246.5	-1,270.8	522,601.27	581,295.45	32° 26' 11.868 N	104° 12' 13.731 W
8,934.5	0.00	0.00	8,822.5	-246.5	-1,270.8	522,601.27	581,295.45	32° 26' 11.868 N	104° 12' 13.731 W
Start DLS 12.00 TFO 269.02									
8,950.0	1.86	269.02	8,838.0	-246.5	-1,271.0	522,601.27	581,295.20	32° 26' 11.868 N	104° 12' 13.734 W
8,975.0	4.86	269.02	8,863.0	-246.5	-1,272.5	522,601.24	581,293.73	32° 26' 11.868 N	104° 12' 13.751 W
9,000.0	7.86	269.02	8,887.8	-246.5	-1,275.3	522,601.20	581,290.96	32° 26' 11.867 N	104° 12' 13.784 W
9,025.0	10.86	269.02	8,912.5	-246.6	-1,279.3	522,601.13	581,286.90	32° 26' 11.866 N	104° 12' 13.831 W
9,050.0	13.86	269.02	8,936.9	-246.7	-1,284.7	522,601.03	581,281.55	32° 26' 11.866 N	104° 12' 13.894 W
9,075.0	16.86	269.02	8,961.0	-246.8	-1,291.3	522,600.92	581,274.92	32° 26' 11.865 N	104° 12' 13.971 W
9,100.0	19.86	269.02	8,984.7	-247.0	-1,299.2	522,600.79	581,267.05	32° 26' 11.863 N	104° 12' 14.063 W
9,125.0	22.86	269.02	9,008.0	-247.1	-1,308.3	522,600.63	581,257.95	32° 26' 11.862 N	104° 12' 14.169 W
9,150.0	25.86	269.02	9,030.8	-247.3	-1,318.6	522,600.46	581,247.64	32° 26' 11.860 N	104° 12' 14.289 W
9,175.0	28.86	269.02	9,053.0	-247.5	-1,330.1	522,600.26	581,236.15	32° 26' 11.858 N	104° 12' 14.423 W

PERMIAN

RESOURCES

Planning Report - Geographic

Database:	Compass_17	Local Co-ordinate Reference:	Well FRED STATE COM 422H
Company:	NEW MEXICO	TVD Reference:	KB @ 3151.0usft
Project:	(SP) EDDY	MD Reference:	KB @ 3151.0usft
Site:	FRED PROJECT	North Reference:	Grid
Well:	FRED STATE COM 422H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured			Vertical			Map	Map			
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
9,200.0	31.86	269.02	9,074.6	-247.7	-1,342.7	522,600.04	581,223.51	32° 26' 11.856 N	104° 12' 14.571 W	
9,225.0	34.86	269.02	9,095.4	-247.9	-1,356.5	522,599.81	581,209.77	32° 26' 11.854 N	104° 12' 14.731 W	
9,250.0	37.86	269.02	9,115.6	-248.2	-1,371.3	522,599.56	581,194.95	32° 26' 11.852 N	104° 12' 14.904 W	
9,275.0	40.86	269.02	9,134.9	-248.5	-1,387.1	522,599.29	581,179.10	32° 26' 11.850 N	104° 12' 15.089 W	
9,300.0	43.86	269.02	9,153.4	-248.7	-1,404.0	522,599.00	581,162.26	32° 26' 11.847 N	104° 12' 15.286 W	
9,308.2	44.85	269.02	9,159.2	-248.8	-1,409.7	522,598.90	581,156.50	32° 26' 11.846 N	104° 12' 15.353 W	
FTP-FSC 422H										
9,325.0	46.86	269.02	9,170.9	-249.0	-1,421.8	522,598.69	581,144.47	32° 26' 11.844 N	104° 12' 15.493 W	
9,350.0	49.86	269.02	9,187.5	-249.4	-1,440.4	522,598.37	581,125.79	32° 26' 11.841 N	104° 12' 15.711 W	
9,375.0	52.86	269.02	9,203.1	-249.7	-1,460.0	522,598.04	581,106.27	32° 26' 11.838 N	104° 12' 15.939 W	
9,400.0	55.86	269.02	9,217.7	-250.0	-1,480.3	522,597.69	581,085.96	32° 26' 11.835 N	104° 12' 16.176 W	
9,425.0	58.86	269.02	9,231.2	-250.4	-1,501.3	522,597.34	581,064.91	32° 26' 11.832 N	104° 12' 16.422 W	
9,450.0	61.86	269.02	9,243.5	-250.8	-1,523.0	522,596.96	581,043.19	32° 26' 11.828 N	104° 12' 16.675 W	
9,475.0	64.86	269.02	9,254.7	-251.2	-1,545.4	522,596.58	581,020.84	32° 26' 11.825 N	104° 12' 16.936 W	
9,500.0	67.86	269.02	9,264.8	-251.5	-1,568.3	522,596.19	580,997.95	32° 26' 11.821 N	104° 12' 17.203 W	
9,525.0	70.86	269.02	9,273.6	-251.9	-1,591.7	522,595.79	580,974.56	32° 26' 11.817 N	104° 12' 17.476 W	
9,550.0	73.86	269.02	9,281.2	-252.4	-1,615.5	522,595.39	580,950.74	32° 26' 11.814 N	104° 12' 17.754 W	
9,575.0	76.86	269.02	9,287.5	-252.8	-1,639.7	522,594.97	580,926.56	32° 26' 11.810 N	104° 12' 18.036 W	
9,600.0	79.86	269.02	9,292.5	-253.2	-1,664.1	522,594.56	580,902.08	32° 26' 11.806 N	104° 12' 18.322 W	
9,625.0	82.86	269.02	9,296.3	-253.6	-1,688.9	522,594.13	580,877.37	32° 26' 11.802 N	104° 12' 18.610 W	
9,650.0	85.86	269.02	9,298.7	-254.0	-1,713.7	522,593.71	580,852.49	32° 26' 11.798 N	104° 12' 18.900 W	
9,675.0	88.86	269.02	9,299.9	-254.5	-1,738.7	522,593.28	580,827.53	32° 26' 11.794 N	104° 12' 19.192 W	
9,684.5	90.00	269.02	9,300.0	-254.6	-1,748.2	522,593.12	580,818.06	32° 26' 11.793 N	104° 12' 19.302 W	
Start 9905.1 hold at 9684.5 MD										
9,700.0	90.00	269.02	9,300.0	-254.9	-1,763.7	522,592.86	580,802.53	32° 26' 11.790 N	104° 12' 19.483 W	
9,800.0	90.00	269.02	9,300.0	-256.6	-1,863.7	522,591.15	580,702.55	32° 26' 11.775 N	104° 12' 20.650 W	
9,900.0	90.00	269.02	9,300.0	-258.3	-1,963.7	522,589.44	580,602.56	32° 26' 11.759 N	104° 12' 21.817 W	
10,000.0	90.00	269.02	9,300.0	-260.0	-2,063.6	522,587.73	580,502.58	32° 26' 11.743 N	104° 12' 22.984 W	
10,100.0	90.00	269.02	9,300.0	-261.7	-2,163.6	522,586.03	580,402.59	32° 26' 11.728 N	104° 12' 24.150 W	
10,200.0	90.00	269.02	9,300.0	-263.4	-2,263.6	522,584.32	580,302.60	32° 26' 11.712 N	104° 12' 25.317 W	
10,300.0	90.00	269.02	9,300.0	-265.1	-2,363.6	522,582.61	580,202.62	32° 26' 11.696 N	104° 12' 26.484 W	
10,400.0	90.00	269.02	9,300.0	-266.8	-2,463.6	522,580.91	580,102.63	32° 26' 11.680 N	104° 12' 27.651 W	
10,500.0	90.00	269.02	9,300.0	-268.5	-2,563.6	522,579.20	580,002.65	32° 26' 11.665 N	104° 12' 28.817 W	
10,600.0	90.00	269.02	9,300.0	-270.2	-2,663.6	522,577.49	579,902.66	32° 26' 11.649 N	104° 12' 29.984 W	
10,700.0	90.00	269.02	9,300.0	-272.0	-2,763.5	522,575.78	579,802.68	32° 26' 11.633 N	104° 12' 31.151 W	
10,800.0	90.00	269.02	9,300.0	-273.7	-2,863.5	522,574.08	579,702.69	32° 26' 11.617 N	104° 12' 32.318 W	
10,900.0	90.00	269.02	9,300.0	-275.4	-2,963.5	522,572.37	579,602.71	32° 26' 11.602 N	104° 12' 33.484 W	
11,000.0	90.00	269.02	9,300.0	-277.1	-3,063.5	522,570.66	579,502.72	32° 26' 11.586 N	104° 12' 34.651 W	
11,100.0	90.00	269.02	9,300.0	-278.8	-3,163.5	522,568.96	579,402.74	32° 26' 11.570 N	104° 12' 35.818 W	
11,200.0	90.00	269.02	9,300.0	-280.5	-3,263.5	522,567.25	579,302.75	32° 26' 11.554 N	104° 12' 36.985 W	
11,300.0	90.00	269.02	9,300.0	-282.2	-3,363.5	522,565.54	579,202.76	32° 26' 11.539 N	104° 12' 38.151 W	
11,400.0	90.00	269.02	9,300.0	-283.9	-3,463.4	522,563.84	579,102.78	32° 26' 11.523 N	104° 12' 39.318 W	
11,500.0	90.00	269.02	9,300.0	-285.6	-3,563.4	522,562.13	579,002.79	32° 26' 11.507 N	104° 12' 40.485 W	
11,600.0	90.00	269.02	9,300.0	-287.3	-3,663.4	522,560.42	578,902.81	32° 26' 11.491 N	104° 12' 41.652 W	
11,700.0	90.00	269.02	9,300.0	-289.0	-3,763.4	522,558.71	578,802.82	32° 26' 11.476 N	104° 12' 42.818 W	
11,800.0	90.00	269.02	9,300.0	-290.7	-3,863.4	522,557.01	578,702.84	32° 26' 11.460 N	104° 12' 43.985 W	
11,900.0	90.00	269.02	9,300.0	-292.4	-3,963.4	522,555.30	578,602.85	32° 26' 11.444 N	104° 12' 45.152 W	
12,000.0	90.00	269.02	9,300.0	-294.1	-4,063.4	522,553.59	578,502.87	32° 26' 11.428 N	104° 12' 46.319 W	
12,100.0	90.00	269.02	9,300.0	-295.9	-4,163.3	522,551.89	578,402.88	32° 26' 11.413 N	104° 12' 47.485 W	
12,200.0	90.00	269.02	9,300.0	-297.6	-4,263.3	522,550.18	578,302.90	32° 26' 11.397 N	104° 12' 48.652 W	
12,300.0	90.00	269.02	9,300.0	-299.3	-4,363.3	522,548.47	578,202.91	32° 26' 11.381 N	104° 12' 49.819 W	
12,400.0	90.00	269.02	9,300.0	-301.0	-4,463.3	522,546.76	578,102.92	32° 26' 11.365 N	104° 12' 50.986 W	
12,500.0	90.00	269.02	9,300.0	-302.7	-4,563.3	522,545.06	578,002.94	32° 26' 11.349 N	104° 12' 52.152 W	
12,600.0	90.00	269.02	9,300.0	-304.4	-4,663.3	522,543.35	577,902.95	32° 26' 11.334 N	104° 12' 53.319 W	

PERMIAN

RESOURCES

Planning Report - Geographic

Database:	Compass_17	Local Co-ordinate Reference:	Well FRED STATE COM 422H
Company:	NEW MEXICO	TVD Reference:	KB @ 3151.0usft
Project:	(SP) EDDY	MD Reference:	KB @ 3151.0usft
Site:	FRED PROJECT	North Reference:	Grid
Well:	FRED STATE COM 422H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
12,700.0	90.00	269.02	9,300.0	-306.1	-4,763.3	522,541.64	577,802.97	32° 26' 11.318 N	104° 12' 54.486 W	
12,800.0	90.00	269.02	9,300.0	-307.8	-4,863.2	522,539.94	577,702.98	32° 26' 11.302 N	104° 12' 55.653 W	
12,900.0	90.00	269.02	9,300.0	-309.5	-4,963.2	522,538.23	577,603.00	32° 26' 11.286 N	104° 12' 56.819 W	
13,000.0	90.00	269.02	9,300.0	-311.2	-5,063.2	522,536.52	577,503.01	32° 26' 11.270 N	104° 12' 57.986 W	
13,100.0	90.00	269.02	9,300.0	-312.9	-5,163.2	522,534.81	577,403.03	32° 26' 11.255 N	104° 12' 59.153 W	
13,200.0	90.00	269.02	9,300.0	-314.6	-5,263.2	522,533.11	577,303.04	32° 26' 11.239 N	104° 13' 0.320 W	
13,300.0	90.00	269.02	9,300.0	-316.3	-5,363.2	522,531.40	577,203.06	32° 26' 11.223 N	104° 13' 1.486 W	
13,400.0	90.00	269.02	9,300.0	-318.0	-5,463.2	522,529.69	577,103.07	32° 26' 11.207 N	104° 13' 2.653 W	
13,500.0	90.00	269.02	9,300.0	-319.8	-5,563.1	522,527.99	577,003.09	32° 26' 11.191 N	104° 13' 3.820 W	
13,600.0	90.00	269.02	9,300.0	-321.5	-5,663.1	522,526.28	576,903.10	32° 26' 11.175 N	104° 13' 4.987 W	
13,700.0	90.00	269.02	9,300.0	-323.2	-5,763.1	522,524.57	576,803.11	32° 26' 11.160 N	104° 13' 6.153 W	
13,800.0	90.00	269.02	9,300.0	-324.9	-5,863.1	522,522.87	576,703.13	32° 26' 11.144 N	104° 13' 7.320 W	
13,900.0	90.00	269.02	9,300.0	-326.6	-5,963.1	522,521.16	576,603.14	32° 26' 11.128 N	104° 13' 8.487 W	
14,000.0	90.00	269.02	9,300.0	-328.3	-6,063.1	522,519.45	576,503.16	32° 26' 11.112 N	104° 13' 9.653 W	
14,100.0	90.00	269.02	9,300.0	-330.0	-6,163.1	522,517.74	576,403.17	32° 26' 11.096 N	104° 13' 10.820 W	
14,200.0	90.00	269.02	9,300.0	-331.7	-6,263.0	522,516.04	576,303.19	32° 26' 11.080 N	104° 13' 11.987 W	
14,300.0	90.00	269.02	9,300.0	-333.4	-6,363.0	522,514.33	576,203.20	32° 26' 11.065 N	104° 13' 13.154 W	
14,400.0	90.00	269.02	9,300.0	-335.1	-6,463.0	522,512.62	576,103.22	32° 26' 11.049 N	104° 13' 14.320 W	
14,500.0	90.00	269.02	9,300.0	-336.8	-6,563.0	522,510.92	576,003.23	32° 26' 11.033 N	104° 13' 15.487 W	
14,600.0	90.00	269.02	9,300.0	-338.5	-6,663.0	522,509.21	575,903.25	32° 26' 11.017 N	104° 13' 16.654 W	
14,700.0	90.00	269.02	9,300.0	-340.2	-6,763.0	522,507.50	575,803.26	32° 26' 11.001 N	104° 13' 17.821 W	
14,800.0	90.00	269.02	9,300.0	-341.9	-6,862.9	522,505.79	575,703.27	32° 26' 10.985 N	104° 13' 18.987 W	
14,900.0	90.00	269.02	9,300.0	-343.7	-6,962.9	522,504.09	575,603.29	32° 26' 10.969 N	104° 13' 20.154 W	
15,000.0	90.00	269.02	9,300.0	-345.4	-7,062.9	522,502.38	575,503.30	32° 26' 10.954 N	104° 13' 21.321 W	
15,100.0	90.00	269.02	9,300.0	-347.1	-7,162.9	522,500.67	575,403.32	32° 26' 10.938 N	104° 13' 22.488 W	
15,200.0	90.00	269.02	9,300.0	-348.8	-7,262.9	522,498.97	575,303.33	32° 26' 10.922 N	104° 13' 23.654 W	
15,300.0	90.00	269.02	9,300.0	-350.5	-7,362.9	522,497.26	575,203.35	32° 26' 10.906 N	104° 13' 24.821 W	
15,400.0	90.00	269.02	9,300.0	-352.2	-7,462.9	522,495.55	575,103.36	32° 26' 10.890 N	104° 13' 25.988 W	
15,500.0	90.00	269.02	9,300.0	-353.9	-7,562.8	522,493.84	575,003.38	32° 26' 10.874 N	104° 13' 27.155 W	
15,600.0	90.00	269.02	9,300.0	-355.6	-7,662.8	522,492.14	574,903.39	32° 26' 10.858 N	104° 13' 28.321 W	
15,700.0	90.00	269.02	9,300.0	-357.3	-7,762.8	522,490.43	574,803.41	32° 26' 10.842 N	104° 13' 29.488 W	
15,800.0	90.00	269.02	9,300.0	-359.0	-7,862.8	522,488.72	574,703.42	32° 26' 10.827 N	104° 13' 30.655 W	
15,900.0	90.00	269.02	9,300.0	-360.7	-7,962.8	522,487.02	574,603.43	32° 26' 10.811 N	104° 13' 31.822 W	
16,000.0	90.00	269.02	9,300.0	-362.4	-8,062.8	522,485.31	574,503.45	32° 26' 10.795 N	104° 13' 32.988 W	
16,100.0	90.00	269.02	9,300.0	-364.1	-8,162.8	522,483.60	574,403.46	32° 26' 10.779 N	104° 13' 34.155 W	
16,200.0	90.00	269.02	9,300.0	-365.8	-8,262.7	522,481.89	574,303.48	32° 26' 10.763 N	104° 13' 35.322 W	
16,300.0	90.00	269.02	9,300.0	-367.6	-8,362.7	522,480.19	574,203.49	32° 26' 10.747 N	104° 13' 36.489 W	
16,400.0	90.00	269.02	9,300.0	-369.3	-8,462.7	522,478.48	574,103.51	32° 26' 10.731 N	104° 13' 37.655 W	
16,500.0	90.00	269.02	9,300.0	-371.0	-8,562.7	522,476.77	574,003.52	32° 26' 10.715 N	104° 13' 38.822 W	
16,600.0	90.00	269.02	9,300.0	-372.7	-8,662.7	522,475.07	573,903.54	32° 26' 10.699 N	104° 13' 39.989 W	
16,700.0	90.00	269.02	9,300.0	-374.4	-8,762.7	522,473.36	573,803.55	32° 26' 10.683 N	104° 13' 41.156 W	
16,800.0	90.00	269.02	9,300.0	-376.1	-8,862.7	522,471.65	573,703.57	32° 26' 10.668 N	104° 13' 42.322 W	
16,900.0	90.00	269.02	9,300.0	-377.8	-8,962.6	522,469.95	573,603.58	32° 26' 10.652 N	104° 13' 43.489 W	
17,000.0	90.00	269.02	9,300.0	-379.5	-9,062.6	522,468.24	573,503.60	32° 26' 10.636 N	104° 13' 44.656 W	
17,100.0	90.00	269.02	9,300.0	-381.2	-9,162.6	522,466.53	573,403.61	32° 26' 10.620 N	104° 13' 45.823 W	
17,200.0	90.00	269.02	9,300.0	-382.9	-9,262.6	522,464.82	573,303.62	32° 26' 10.604 N	104° 13' 46.989 W	
17,300.0	90.00	269.02	9,300.0	-384.6	-9,362.6	522,463.12	573,203.64	32° 26' 10.588 N	104° 13' 48.156 W	
17,400.0	90.00	269.02	9,300.0	-386.3	-9,462.6	522,461.41	573,103.65	32° 26' 10.572 N	104° 13' 49.323 W	
17,500.0	90.00	269.02	9,300.0	-388.0	-9,562.6	522,459.70	573,003.67	32° 26' 10.556 N	104° 13' 50.489 W	
17,600.0	90.00	269.02	9,300.0	-389.7	-9,662.5	522,458.00	572,903.68	32° 26' 10.540 N	104° 13' 51.656 W	
17,700.0	90.00	269.02	9,300.0	-391.5	-9,762.5	522,456.29	572,803.70	32° 26' 10.524 N	104° 13' 52.823 W	
17,800.0	90.00	269.02	9,300.0	-393.2	-9,862.5	522,454.58	572,703.71	32° 26' 10.508 N	104° 13' 53.990 W	
17,900.0	90.00	269.02	9,300.0	-394.9	-9,962.5	522,452.87	572,603.73	32° 26' 10.492 N	104° 13' 55.156 W	
18,000.0	90.00	269.02	9,300.0	-396.6	-10,062.5	522,451.17	572,503.74	32° 26' 10.476 N	104° 13' 56.323 W	
18,100.0	90.00	269.02	9,300.0	-398.3	-10,162.5	522,449.46	572,403.76	32° 26' 10.460 N	104° 13' 57.490 W	

PERMIAN

RESOURCES

Planning Report - Geographic

Database:	Compass_17	Local Co-ordinate Reference:	Well FRED STATE COM 422H
Company:	NEW MEXICO	TVD Reference:	KB @ 3151.0usft
Project:	(SP) EDDY	MD Reference:	KB @ 3151.0usft
Site:	FRED PROJECT	North Reference:	Grid
Well:	FRED STATE COM 422H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
18,200.0	90.00	269.02	9,300.0	-400.0	-10,262.5	522,447.75	572,303.77	32° 26' 10.444 N	104° 13' 58.657 W	
18,300.0	90.00	269.02	9,300.0	-401.7	-10,362.4	522,446.05	572,203.78	32° 26' 10.428 N	104° 13' 59.823 W	
18,400.0	90.00	269.02	9,300.0	-403.4	-10,462.4	522,444.34	572,103.80	32° 26' 10.412 N	104° 14' 0.990 W	
18,500.0	90.00	269.02	9,300.0	-405.1	-10,562.4	522,442.63	572,003.81	32° 26' 10.396 N	104° 14' 2.157 W	
18,600.0	90.00	269.02	9,300.0	-406.8	-10,662.4	522,440.92	571,903.83	32° 26' 10.380 N	104° 14' 3.324 W	
18,700.0	90.00	269.02	9,300.0	-408.5	-10,762.4	522,439.22	571,803.84	32° 26' 10.364 N	104° 14' 4.490 W	
18,800.0	90.00	269.02	9,300.0	-410.2	-10,862.4	522,437.51	571,703.86	32° 26' 10.349 N	104° 14' 5.657 W	
18,900.0	90.00	269.02	9,300.0	-411.9	-10,962.4	522,435.80	571,603.87	32° 26' 10.333 N	104° 14' 6.824 W	
19,000.0	90.00	269.02	9,300.0	-413.6	-11,062.3	522,434.10	571,503.89	32° 26' 10.317 N	104° 14' 7.991 W	
19,100.0	90.00	269.02	9,300.0	-415.4	-11,162.3	522,432.39	571,403.90	32° 26' 10.301 N	104° 14' 9.157 W	
19,200.0	90.00	269.02	9,300.0	-417.1	-11,262.3	522,430.68	571,303.92	32° 26' 10.285 N	104° 14' 10.324 W	
19,300.0	90.00	269.02	9,300.0	-418.8	-11,362.3	522,428.97	571,203.93	32° 26' 10.269 N	104° 14' 11.491 W	
19,400.0	90.00	269.02	9,300.0	-420.5	-11,462.3	522,427.27	571,103.94	32° 26' 10.253 N	104° 14' 12.658 W	
19,500.0	90.00	269.02	9,300.0	-422.2	-11,562.3	522,425.56	571,003.96	32° 26' 10.237 N	104° 14' 13.824 W	
19,589.6	90.00	269.02	9,300.0	-423.7	-11,651.8	522,424.03	570,914.40	32° 26' 10.222 N	104° 14' 14.869 W	
Start DLS 2.00 TFO 90.00 - PP2-FSC 422H										
19,600.0	90.00	269.23	9,300.0	-423.9	-11,662.2	522,423.87	570,903.97	32° 26' 10.221 N	104° 14' 14.991 W	
19,700.0	90.00	271.23	9,300.0	-423.5	-11,762.2	522,424.27	570,803.98	32° 26' 10.226 N	104° 14' 16.158 W	
19,746.2	90.00	272.15	9,300.0	-422.1	-11,808.4	522,425.64	570,757.79	32° 26' 10.240 N	104° 14' 16.697 W	
Start 5003.4 hold at 19746.2 MD										
19,800.0	90.00	272.15	9,300.0	-420.1	-11,862.2	522,427.66	570,704.04	32° 26' 10.260 N	104° 14' 17.324 W	
19,900.0	90.00	272.15	9,300.0	-416.3	-11,962.1	522,431.42	570,604.11	32° 26' 10.298 N	104° 14' 18.490 W	
20,000.0	90.00	272.15	9,300.0	-412.6	-12,062.0	522,435.18	570,504.18	32° 26' 10.336 N	104° 14' 19.656 W	
20,100.0	90.00	272.15	9,300.0	-408.8	-12,162.0	522,438.94	570,404.25	32° 26' 10.374 N	104° 14' 20.822 W	
20,200.0	90.00	272.15	9,300.0	-405.0	-12,261.9	522,442.70	570,304.32	32° 26' 10.412 N	104° 14' 21.988 W	
20,300.0	90.00	272.15	9,300.0	-401.3	-12,361.8	522,446.46	570,204.39	32° 26' 10.450 N	104° 14' 23.154 W	
20,400.0	90.00	272.15	9,300.0	-397.5	-12,461.8	522,450.22	570,104.46	32° 26' 10.488 N	104° 14' 24.320 W	
20,500.0	90.00	272.15	9,300.0	-393.8	-12,561.7	522,453.98	570,004.53	32° 26' 10.527 N	104° 14' 25.486 W	
20,600.0	90.00	272.15	9,300.0	-390.0	-12,661.6	522,457.74	569,904.60	32° 26' 10.565 N	104° 14' 26.652 W	
20,700.0	90.00	272.15	9,300.0	-386.2	-12,761.5	522,461.50	569,804.67	32° 26' 10.603 N	104° 14' 27.818 W	
20,800.0	90.00	272.15	9,300.0	-382.5	-12,861.5	522,465.26	569,704.75	32° 26' 10.641 N	104° 14' 28.984 W	
20,900.0	90.00	272.15	9,300.0	-378.7	-12,961.4	522,469.02	569,604.82	32° 26' 10.679 N	104° 14' 30.150 W	
21,000.0	90.00	272.15	9,300.0	-375.0	-13,061.3	522,472.78	569,504.89	32° 26' 10.717 N	104° 14' 31.316 W	
21,100.0	90.00	272.15	9,300.0	-371.2	-13,161.3	522,476.54	569,404.96	32° 26' 10.755 N	104° 14' 32.482 W	
21,200.0	90.00	272.15	9,300.0	-367.4	-13,261.2	522,480.30	569,305.03	32° 26' 10.793 N	104° 14' 33.648 W	
21,300.0	90.00	272.15	9,300.0	-363.7	-13,361.1	522,484.06	569,205.10	32° 26' 10.831 N	104° 14' 34.814 W	
21,400.0	90.00	272.15	9,300.0	-359.9	-13,461.1	522,487.82	569,105.17	32° 26' 10.869 N	104° 14' 35.980 W	
21,500.0	90.00	272.15	9,300.0	-356.2	-13,561.0	522,491.58	569,005.24	32° 26' 10.907 N	104° 14' 37.147 W	
21,600.0	90.00	272.15	9,300.0	-352.4	-13,660.9	522,495.34	568,905.31	32° 26' 10.945 N	104° 14' 38.313 W	
21,700.0	90.00	272.15	9,300.0	-348.6	-13,760.8	522,499.10	568,805.38	32° 26' 10.983 N	104° 14' 39.479 W	
21,800.0	90.00	272.15	9,300.0	-344.9	-13,860.8	522,502.86	568,705.45	32° 26' 11.021 N	104° 14' 40.645 W	
21,900.0	90.00	272.15	9,300.0	-341.1	-13,960.7	522,506.62	568,605.52	32° 26' 11.059 N	104° 14' 41.811 W	
22,000.0	90.00	272.15	9,300.0	-337.4	-14,060.6	522,510.37	568,505.59	32° 26' 11.097 N	104° 14' 42.977 W	
22,100.0	90.00	272.15	9,300.0	-333.6	-14,160.6	522,514.13	568,405.66	32° 26' 11.135 N	104° 14' 44.143 W	
22,200.0	90.00	272.15	9,300.0	-329.8	-14,260.5	522,517.89	568,305.73	32° 26' 11.173 N	104° 14' 45.309 W	
22,300.0	90.00	272.15	9,300.0	-326.1	-14,360.4	522,521.65	568,205.81	32° 26' 11.211 N	104° 14' 46.475 W	
22,400.0	90.00	272.15	9,300.0	-322.3	-14,460.3	522,525.41	568,105.88	32° 26' 11.249 N	104° 14' 47.641 W	
22,500.0	90.00	272.15	9,300.0	-318.6	-14,560.3	522,529.17	568,005.95	32° 26' 11.287 N	104° 14' 48.807 W	
22,600.0	90.00	272.15	9,300.0	-314.8	-14,660.2	522,532.93	567,906.02	32° 26' 11.325 N	104° 14' 49.973 W	
22,700.0	90.00	272.15	9,300.0	-311.0	-14,760.1	522,536.69	567,806.09	32° 26' 11.363 N	104° 14' 51.139 W	
22,800.0	90.00	272.15	9,300.0	-307.3	-14,860.1	522,540.45	567,706.16	32° 26' 11.401 N	104° 14' 52.305 W	
22,900.0	90.00	272.15	9,300.0	-303.5	-14,960.0	522,544.21	567,606.23	32° 26' 11.439 N	104° 14' 53.471 W	
23,000.0	90.00	272.15	9,300.0	-299.8	-15,059.9	522,547.97	567,506.30	32° 26' 11.477 N	104° 14' 54.637 W	
23,100.0	90.00	272.15	9,300.0	-296.0	-15,159.9	522,551.73	567,406.37	32° 26' 11.515 N	104° 14' 55.803 W	

PERMIAN

RESOURCES

Planning Report - Geographic

Database:	Compass_17	Local Co-ordinate Reference:	Well FRED STATE COM 422H
Company:	NEW MEXICO	TVD Reference:	KB @ 3151.0usft
Project:	(SP) EDDY	MD Reference:	KB @ 3151.0usft
Site:	FRED PROJECT	North Reference:	Grid
Well:	FRED STATE COM 422H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
23,200.0	90.00	272.15	9,300.0	-292.3	-15,259.8	522,555.49	567,306.44	32° 26' 11.553 N	104° 14' 56.969 W	
23,300.0	90.00	272.15	9,300.0	-288.5	-15,359.7	522,559.25	567,206.51	32° 26' 11.591 N	104° 14' 58.135 W	
23,400.0	90.00	272.15	9,300.0	-284.7	-15,459.6	522,563.01	567,106.58	32° 26' 11.629 N	104° 14' 59.301 W	
23,500.0	90.00	272.15	9,300.0	-281.0	-15,559.6	522,566.77	567,006.65	32° 26' 11.667 N	104° 15' 0.467 W	
23,600.0	90.00	272.15	9,300.0	-277.2	-15,659.5	522,570.53	566,906.72	32° 26' 11.705 N	104° 15' 1.633 W	
23,700.0	90.00	272.15	9,300.0	-273.5	-15,759.4	522,574.29	566,806.80	32° 26' 11.743 N	104° 15' 2.799 W	
23,800.0	90.00	272.15	9,300.0	-269.7	-15,859.4	522,578.05	566,706.87	32° 26' 11.781 N	104° 15' 3.965 W	
23,900.0	90.00	272.15	9,300.0	-265.9	-15,959.3	522,581.81	566,606.94	32° 26' 11.819 N	104° 15' 5.131 W	
24,000.0	90.00	272.15	9,300.0	-262.2	-16,059.2	522,585.57	566,507.01	32° 26' 11.857 N	104° 15' 6.297 W	
24,100.0	90.00	272.15	9,300.0	-258.4	-16,159.1	522,589.33	566,407.08	32° 26' 11.895 N	104° 15' 7.463 W	
24,200.0	90.00	272.15	9,300.0	-254.7	-16,259.1	522,593.09	566,307.15	32° 26' 11.933 N	104° 15' 8.629 W	
24,300.0	90.00	272.15	9,300.0	-250.9	-16,359.0	522,596.85	566,207.22	32° 26' 11.971 N	104° 15' 9.796 W	
24,400.0	90.00	272.15	9,300.0	-247.1	-16,458.9	522,600.61	566,107.29	32° 26' 12.009 N	104° 15' 10.962 W	
24,500.0	90.00	272.15	9,300.0	-243.4	-16,558.9	522,604.37	566,007.36	32° 26' 12.047 N	104° 15' 12.128 W	
24,600.0	90.00	272.15	9,300.0	-239.6	-16,658.8	522,608.13	565,907.43	32° 26' 12.085 N	104° 15' 13.294 W	
24,700.0	90.00	272.15	9,300.0	-235.9	-16,758.7	522,611.89	565,807.50	32° 26' 12.123 N	104° 15' 14.460 W	
24,749.6	90.00	272.15	9,300.0	-234.0	-16,808.3	522,613.75	565,757.92	32° 26' 12.141 N	104° 15' 15.038 W	
TD at 24749.6 - LTP/BHL-FSC 422H										

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting		
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
FTP-FSC 422H	0.00	0.00	9,300.0	-246.5	-1,270.8	522,601.27	581,295.45	32° 26' 11.868 N	104° 12' 13.731 W
- plan misses target center by 197.8usft at 9308.2usft MD (9159.2 TVD, -248.8 N, -1409.7 E)									
- Point									
LTP/BHL-FSC 422H	0.00	0.01	9,300.0	-234.0	-16,808.3	522,613.75	565,757.92	32° 26' 12.141 N	104° 15' 15.038 W
- plan hits target center									
- Point									
PP2-FSC 422H	0.00	0.00	9,300.0	-423.7	-11,651.8	522,424.03	570,914.40	32° 26' 10.222 N	104° 14' 14.869 W
- plan hits target center									
- Point									

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,000.0	1,000.0	0.0	0.0	Start Build 2.00	
1,506.0	1,503.3	-8.5	-43.8	Start 6860.0 hold at 1506.0 MD	
8,366.0	8,256.7	-238.0	-1,227.0	Start Drop -2.00	
8,872.0	8,760.0	-246.5	-1,270.8	Start 62.5 hold at 8872.0 MD	
8,934.5	8,822.5	-246.5	-1,270.8	Start DLS 12.00 TFO 269.02	
9,684.5	9,300.0	-254.6	-1,748.2	Start 9905.1 hold at 9684.5 MD	
19,589.6	9,300.0	-423.7	-11,651.8	Start DLS 2.00 TFO 90.00	
19,746.2	9,300.0	-422.1	-11,808.4	Start 5003.4 hold at 19746.2 MD	
24,749.6	9,300.0	-234.0	-16,808.3	TD at 24749.6	

PERMIAN

R E S O U R C E S

NEW MEXICO

(SP) EDDY

FRED PROJECT

FRED STATE COM 422H

OWB

PWP0

Anticollision Report

28 May, 2025

PERMIAN**RESOURCES**

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well FRED STATE COM 422H
Project:	(SP) EDDY	TVD Reference:	KB @ 3151.0usft
Reference Site:	FRED PROJECT	MD Reference:	KB @ 3151.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FRED STATE COM 422H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass_17
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference	PWP0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.0usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	5/28/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	24,749.6	PWP0 (OWB)	MWD	OWSG_Rev2_ MWD - Standard	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
FRED PROJECT						
FRED STATE COM 421H - OWB - PWP0	1,000.0	1,000.0	33.0	26.0	4.745	CC, ES
FRED STATE COM 421H - OWB - PWP0	1,100.0	1,099.2	34.6	26.9	4.514	SF
FRED STATE COM 423H - OWB - PWP0	1,000.0	1,000.0	33.0	26.0	4.745	CC, ES
FRED STATE COM 423H - OWB - PWP0	1,200.0	1,198.3	36.7	28.4	4.413	SF
FRED STATE COM 424H - OWB - PWP0	1,000.0	1,000.0	66.0	59.0	9.490	CC, ES
FRED STATE COM 424H - OWB - PWP0	1,200.0	1,195.8	70.9	62.6	8.552	SF

Offset Design: FRED PROJECT - FRED STATE COM 421H - OWB - PWP0													Offset Site Error:	0.0 usft		
Survey Program:		0-MWD		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	0.0 usft	
Reference	Vertical	Measured	Vertical	Reference	Offset	Highside			Distance	Between	Between	Minimum	Separation	Warning		
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Ellipses	Separation	Factor				
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)					
0.0	0.0	0.0	0.0	0.0	0.0	0.00	33.0	0.0	33.0							
100.0	100.0	100.0	100.0	0.3	0.3	0.00	33.0	0.0	33.0	32.5	0.50	65.755				
200.0	200.0	200.0	200.0	0.6	0.6	0.00	33.0	0.0	33.0	31.8	1.22	27.076				
300.0	300.0	300.0	300.0	1.0	1.0	0.00	33.0	0.0	33.0	31.1	1.94	17.048				
400.0	400.0	400.0	400.0	1.3	1.3	0.00	33.0	0.0	33.0	30.3	2.65	12.440				
500.0	500.0	500.0	500.0	1.7	1.7	0.00	33.0	0.0	33.0	29.6	3.37	9.793				
600.0	600.0	600.0	600.0	2.0	2.0	0.00	33.0	0.0	33.0	28.9	4.09	8.075				
700.0	700.0	700.0	700.0	2.4	2.4	0.00	33.0	0.0	33.0	28.2	4.80	6.870				
800.0	800.0	800.0	800.0	2.8	2.8	0.00	33.0	0.0	33.0	27.5	5.52	5.978				
900.0	900.0	900.0	900.0	3.1	3.1	0.00	33.0	0.0	33.0	26.8	6.24	5.291				
1,000.0	1,000.0	1,000.0	1,000.0	3.5	3.5	0.00	33.0	0.0	33.0	26.0	6.95	4.745	CC, ES			
1,100.0	1,100.0	1,099.2	1,099.2	3.8	3.8	101.74	34.2	-1.2	34.6	26.9	7.65	4.514	SF			
1,200.0	1,199.8	1,198.2	1,198.0	4.2	4.2	103.66	37.8	-4.9	39.2	30.9	8.34	4.702				
1,300.0	1,299.5	1,296.9	1,296.4	4.5	4.5	105.98	43.8	-10.9	47.1	38.1	9.04	5.211				
1,400.0	1,398.7	1,395.1	1,393.9	4.9	4.9	108.13	52.1	-19.3	58.2	48.5	9.75	5.971				
1,506.0	1,503.3	1,498.6	1,496.1	5.3	5.3	109.97	63.4	-30.8	73.5	62.9	10.51	6.986				
1,600.0	1,595.9	1,589.8	1,585.6	5.6	5.6	110.59	75.6	-43.0	89.4	78.2	11.21	7.978				
1,700.0	1,694.4	1,686.1	1,679.6	6.0	6.0	109.63	90.5	-58.1	108.2	96.3	11.95	9.053				
1,800.0	1,792.8	1,783.3	1,773.7	6.4	6.5	108.01	107.3	-75.1	128.5	115.8	12.73	10.096				
1,900.0	1,891.2	1,881.1	1,868.5	6.9	6.9	106.78	124.4	-92.3	149.1	135.5	13.54	11.009				
2,000.0	1,989.7	1,978.9	1,963.3	7.3	7.4	105.85	141.4	-109.5	169.6	155.2	14.36	11.813				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

PERMIAN**RESOURCES****Anticollision Report**

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well FRED STATE COM 422H
Project:	(SP) EDDY	TVD Reference:	KB @ 3151.0usft
Reference Site:	FRED PROJECT	MD Reference:	KB @ 3151.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FRED STATE COM 422H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass_17
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FRED PROJECT - FRED STATE COM 421H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,100.0	2,088.1	2,076.8	2,058.1	7.7	7.8	105.12	158.4	-126.8	190.2	175.0	15.19	12.523	
2,200.0	2,186.6	2,174.6	2,152.9	8.1	8.3	104.53	175.5	-144.0	210.8	194.8	16.03	13.154	
2,300.0	2,285.0	2,272.4	2,247.7	8.6	8.7	104.04	192.5	-161.2	231.4	214.6	16.87	13.716	
2,400.0	2,383.5	2,370.3	2,342.5	9.0	9.2	103.64	209.5	-178.4	252.1	234.3	17.72	14.221	
2,500.0	2,481.9	2,468.1	2,437.2	9.4	9.7	103.30	226.6	-195.6	272.7	254.1	18.58	14.676	
2,600.0	2,580.4	2,565.9	2,532.0	9.9	10.2	103.00	243.6	-212.8	293.4	273.9	19.45	15.087	
2,700.0	2,678.8	2,663.7	2,626.8	10.3	10.7	102.75	260.7	-230.1	314.0	293.7	20.31	15.460	
2,800.0	2,777.2	2,761.6	2,721.6	10.7	11.2	102.52	277.7	-247.3	334.7	313.5	21.18	15.800	
2,900.0	2,875.7	2,859.4	2,816.4	11.2	11.7	102.32	294.7	-264.5	355.4	333.3	22.06	16.111	
3,000.0	2,974.1	2,957.2	2,911.2	11.6	12.2	102.15	311.8	-281.7	376.1	353.1	22.94	16.397	
3,100.0	3,072.6	3,055.1	3,006.0	12.1	12.7	101.99	328.8	-298.9	396.8	372.9	23.81	16.660	
3,200.0	3,171.0	3,152.9	3,100.7	12.5	13.2	101.84	345.8	-316.1	417.4	392.7	24.70	16.903	
3,300.0	3,269.5	3,250.7	3,195.5	13.0	13.7	101.72	362.9	-333.4	438.1	412.5	25.58	17.128	
3,400.0	3,367.9	3,348.6	3,290.3	13.4	14.2	101.60	379.9	-350.6	458.8	432.3	26.47	17.336	
3,500.0	3,466.4	3,446.4	3,385.1	13.9	14.7	101.49	397.0	-367.8	479.5	452.2	27.35	17.531	
3,600.0	3,564.8	3,544.2	3,479.9	14.3	15.2	101.39	414.0	-385.0	500.2	472.0	28.24	17.712	
3,700.0	3,663.2	3,642.1	3,574.7	14.7	15.7	101.30	431.0	-402.2	520.9	491.8	29.13	17.881	
3,800.0	3,761.7	3,739.9	3,669.5	15.2	16.2	101.22	448.1	-419.4	541.6	511.6	30.02	18.040	
3,900.0	3,860.1	3,837.7	3,764.2	15.6	16.7	101.14	465.1	-436.7	562.3	531.4	30.91	18.189	
4,000.0	3,958.6	3,935.6	3,859.0	16.1	17.2	101.07	482.1	-453.9	583.0	551.2	31.81	18.328	
4,100.0	4,057.0	4,033.4	3,953.8	16.5	17.7	101.00	499.2	-471.1	603.7	571.0	32.70	18.460	
4,200.0	4,155.5	4,131.2	4,048.6	17.0	18.3	100.94	516.2	-488.3	624.4	590.8	33.60	18.584	
4,300.0	4,253.9	4,229.1	4,143.4	17.5	18.8	100.88	533.3	-505.5	645.1	610.6	34.49	18.702	
4,400.0	4,352.4	4,326.9	4,238.2	17.9	19.3	100.83	550.3	-522.7	665.8	630.4	35.39	18.813	
4,500.0	4,450.8	4,424.7	4,333.0	18.4	19.8	100.77	567.3	-540.0	686.5	650.2	36.29	18.918	
4,600.0	4,549.2	4,522.6	4,427.8	18.8	20.3	100.73	584.4	-557.2	707.2	670.0	37.18	19.018	
4,700.0	4,647.7	4,620.4	4,522.5	19.3	20.8	100.68	601.4	-574.4	727.9	689.8	38.08	19.113	
4,800.0	4,746.1	4,718.2	4,617.3	19.7	21.3	100.64	618.4	-591.6	748.6	709.6	38.98	19.203	
4,900.0	4,844.6	4,816.1	4,712.1	20.2	21.9	100.59	635.5	-608.8	769.3	729.4	39.88	19.289	
5,000.0	4,943.0	4,913.9	4,806.9	20.6	22.4	100.56	652.5	-626.1	790.0	749.2	40.78	19.371	
5,100.0	5,041.5	5,011.7	4,901.7	21.1	22.9	100.52	669.6	-643.3	810.7	769.0	41.68	19.449	
5,200.0	5,139.9	5,109.6	4,996.5	21.5	23.4	100.48	686.6	-660.5	831.4	788.8	42.58	19.524	
5,300.0	5,238.4	5,207.4	5,091.3	22.0	23.9	100.45	703.6	-677.7	852.1	808.6	43.48	19.595	
5,400.0	5,336.8	5,305.2	5,186.0	22.4	24.4	100.42	720.7	-694.9	872.8	828.4	44.39	19.663	
5,500.0	5,435.2	5,403.1	5,280.8	22.9	25.0	100.39	737.7	-712.1	893.5	848.2	45.29	19.729	
5,600.0	5,533.7	5,500.9	5,375.6	23.3	25.5	100.36	754.7	-729.4	914.2	868.0	46.19	19.791	
5,700.0	5,632.1	5,598.7	5,470.4	23.8	26.0	100.33	771.8	-746.6	934.9	887.8	47.09	19.851	
5,800.0	5,730.6	5,696.5	5,565.2	24.3	26.5	100.31	788.8	-763.8	955.6	907.6	48.00	19.909	
5,900.0	5,829.0	5,794.4	5,660.0	24.7	27.0	100.28	805.9	-781.0	976.3	927.4	48.90	19.965	
6,000.0	5,927.5	5,892.2	5,754.8	25.2	27.5	100.26	822.9	-798.2	997.0	947.2	49.81	20.018	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

PERMIAN**RESOURCES****Anticollision Report**

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well FRED STATE COM 422H
Project:	(SP) EDDY	TVD Reference:	KB @ 3151.0usft
Reference Site:	FRED PROJECT	MD Reference:	KB @ 3151.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FRED STATE COM 422H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass_17
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FRED PROJECT - FRED STATE COM 423H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Rule Assigned:							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	180.00	-33.0	0.0	33.0				
100.0	100.0	100.0	100.0	0.3	0.3	180.00	-33.0	0.0	33.0	32.5	0.50	65.755	
200.0	200.0	200.0	200.0	0.6	0.6	180.00	-33.0	0.0	33.0	31.8	1.22	27.076	
300.0	300.0	300.0	300.0	1.0	1.0	180.00	-33.0	0.0	33.0	31.1	1.94	17.048	
400.0	400.0	400.0	400.0	1.3	1.3	180.00	-33.0	0.0	33.0	30.3	2.65	12.440	
500.0	500.0	500.0	500.0	1.7	1.7	180.00	-33.0	0.0	33.0	29.6	3.37	9.793	
600.0	600.0	600.0	600.0	2.0	2.0	180.00	-33.0	0.0	33.0	28.9	4.09	8.075	
700.0	700.0	700.0	700.0	2.4	2.4	180.00	-33.0	0.0	33.0	28.2	4.80	6.870	
800.0	800.0	800.0	800.0	2.8	2.8	180.00	-33.0	0.0	33.0	27.5	5.52	5.978	
900.0	900.0	900.0	900.0	3.1	3.1	180.00	-33.0	0.0	33.0	26.8	6.24	5.291	
1,000.0	1,000.0	1,000.0	1,000.0	3.5	3.5	180.00	-33.0	0.0	33.0	26.0	6.95	4.745 CC, ES	
1,100.0	1,100.0	1,099.2	1,099.2	3.8	3.8	-79.85	-34.2	-1.2	33.9	26.3	7.64	4.437	
1,200.0	1,199.8	1,198.3	1,198.1	4.2	4.1	-82.07	-37.9	-4.8	36.7	28.4	8.31	4.413 SF	
1,300.0	1,299.5	1,297.3	1,296.7	4.5	4.5	-85.10	-44.0	-10.8	41.4	32.4	8.99	4.604	
1,400.0	1,398.7	1,396.1	1,394.8	4.9	4.8	-88.31	-52.5	-19.1	48.1	38.4	9.68	4.969	
1,506.0	1,503.3	1,500.0	1,497.5	5.3	5.2	-91.42	-64.1	-30.4	57.5	47.1	10.44	5.510	
1,600.0	1,595.9	1,592.9	1,588.7	5.6	5.6	-92.71	-76.7	-42.7	67.7	56.6	11.15	6.075	
1,700.0	1,694.4	1,690.8	1,684.1	6.0	6.0	-91.69	-92.3	-57.9	80.3	68.4	11.90	6.748	
1,800.0	1,792.8	1,789.2	1,779.5	6.4	6.4	-89.62	-109.7	-75.0	94.4	81.7	12.69	7.438	
1,900.0	1,891.2	1,888.2	1,875.3	6.9	6.8	-88.00	-127.3	-92.2	108.6	95.1	13.50	8.047	
2,000.0	1,989.7	1,987.1	1,971.1	7.3	7.3	-86.76	-145.0	-109.4	122.9	108.6	14.32	8.583	
2,100.0	2,088.1	2,086.1	2,066.9	7.7	7.8	-85.78	-162.6	-126.7	137.3	122.1	15.16	9.058	
2,200.0	2,186.6	2,185.0	2,162.8	8.1	8.2	-84.98	-180.2	-143.9	151.7	135.7	16.00	9.479	
2,300.0	2,285.0	2,283.9	2,258.6	8.6	8.7	-84.33	-197.8	-161.1	166.1	149.2	16.85	9.855	
2,400.0	2,383.5	2,382.9	2,354.4	9.0	9.2	-83.77	-215.5	-178.4	180.5	162.8	17.71	10.192	
2,500.0	2,481.9	2,481.8	2,450.2	9.4	9.7	-83.30	-233.1	-195.6	195.0	176.4	18.57	10.496	
2,600.0	2,580.4	2,580.8	2,546.0	9.9	10.2	-82.90	-250.7	-212.8	209.4	190.0	19.44	10.771	
2,700.0	2,678.8	2,679.7	2,641.9	10.3	10.7	-82.54	-268.4	-230.1	223.9	203.6	20.32	11.020	
2,800.0	2,777.2	2,778.6	2,737.7	10.7	11.2	-82.23	-286.0	-247.3	238.3	217.2	21.19	11.247	
2,900.0	2,875.7	2,877.6	2,833.5	11.2	11.7	-81.96	-303.6	-264.5	252.8	230.8	22.07	11.455	
3,000.0	2,974.1	2,976.5	2,929.3	11.6	12.2	-81.71	-321.3	-281.8	267.3	244.4	22.95	11.645	
3,100.0	3,072.6	3,075.4	3,025.1	12.1	12.7	-81.49	-338.9	-299.0	281.8	258.0	23.84	11.821	
3,200.0	3,171.0	3,174.4	3,121.0	12.5	13.2	-81.30	-356.5	-316.2	296.3	271.6	24.73	11.983	
3,300.0	3,269.5	3,273.3	3,216.8	13.0	13.7	-81.12	-374.1	-333.5	310.8	285.2	25.61	12.133	
3,400.0	3,367.9	3,372.3	3,312.6	13.4	14.3	-80.95	-391.8	-350.7	325.3	298.8	26.51	12.272	
3,500.0	3,466.4	3,471.2	3,408.4	13.9	14.8	-80.80	-409.4	-367.9	339.8	312.4	27.40	12.402	
3,600.0	3,564.8	3,570.1	3,504.2	14.3	15.3	-80.66	-427.0	-385.2	354.3	326.0	28.29	12.522	
3,700.0	3,663.2	3,669.1	3,600.0	14.7	15.8	-80.54	-444.7	-402.4	368.8	339.6	29.19	12.635	
3,800.0	3,761.7	3,768.0	3,695.9	15.2	16.3	-80.42	-462.3	-419.6	383.3	353.2	30.08	12.741	
3,900.0	3,860.1	3,867.0	3,791.7	15.6	16.9	-80.31	-479.9	-436.9	397.8	366.8	30.98	12.840	
4,000.0	3,958.6	3,965.9	3,887.5	16.1	17.4	-80.21	-497.6	-454.1	412.3	380.4	31.88	12.933	
4,100.0	4,057.0	4,064.8	3,983.3	16.5	17.9	-80.12	-515.2	-471.4	426.8	394.0	32.78	13.021	
4,200.0	4,155.5	4,163.8	4,079.1	17.0	18.4	-80.03	-532.8	-488.6	441.3	407.6	33.68	13.104	
4,300.0	4,253.9	4,262.7	4,175.0	17.5	19.0	-79.95	-550.4	-505.8	455.8	421.2	34.58	13.182	
4,400.0	4,352.4	4,361.7	4,270.8	17.9	19.5	-79.87	-568.1	-523.1	470.3	434.8	35.48	13.256	
4,500.0	4,450.8	4,460.6	4,366.6	18.4	20.0	-79.80	-585.7	-540.3	484.8	448.5	36.38	13.326	
4,600.0	4,549.2	4,559.5	4,462.4	18.8	20.5	-79.73	-603.3	-557.5	499.4	462.1	37.28	13.393	
4,700.0	4,647.7	4,658.5	4,558.2	19.3	21.1	-79.66	-621.0	-574.8	513.9	475.7	38.19	13.456	
4,800.0	4,746.1	4,757.4	4,654.1	19.7	21.6	-79.60	-638.6	-592.0	528.4	489.3	39.09	13.516	
4,900.0	4,844.6	4,856.4	4,749.9	20.2	22.1	-79.54	-656.2	-609.2	542.9	502.9	40.00	13.574	
5,000.0	4,943.0	4,955.3	4,845.7	20.6	22.6	-79.49	-673.9	-626.5	557.4	516.5	40.90	13.628	
5,100.0	5,041.5	5,054.2	4,941.5	21.1	23.2	-79.44	-691.5	-643.7	571.9	530.1	41.81	13.680	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

PERMIAN

RESOURCES

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well FRED STATE COM 422H
Project:	(SP) EDDY	TVD Reference:	KB @ 3151.0usft
Reference Site:	FRED PROJECT	MD Reference:	KB @ 3151.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FRED STATE COM 422H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass_17
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FRED PROJECT - FRED STATE COM 423H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.0	5,139.9	5,153.2	5,037.3	21.5	23.7	-79.39	-709.1	-660.9	586.4	543.7	42.71	13.730	
5,300.0	5,238.4	5,252.1	5,133.1	22.0	24.2	-79.34	-726.7	-678.2	601.0	557.3	43.62	13.777	
5,400.0	5,336.8	5,351.1	5,229.0	22.4	24.8	-79.30	-744.4	-695.4	615.5	570.9	44.53	13.823	
5,500.0	5,435.2	5,450.0	5,324.8	22.9	25.3	-79.25	-762.0	-712.6	630.0	584.6	45.43	13.867	
5,600.0	5,533.7	5,548.9	5,420.6	23.3	25.8	-79.21	-779.6	-729.9	644.5	598.2	46.34	13.908	
5,700.0	5,632.1	5,647.9	5,516.4	23.8	26.4	-79.17	-797.3	-747.1	659.0	611.8	47.25	13.948	
5,800.0	5,730.6	5,746.8	5,612.2	24.3	26.9	-79.14	-814.9	-764.3	673.5	625.4	48.15	13.987	
5,900.0	5,829.0	5,845.8	5,708.1	24.7	27.4	-79.10	-832.5	-781.6	688.1	639.0	49.06	14.024	
6,000.0	5,927.5	5,944.7	5,803.9	25.2	27.9	-79.07	-850.2	-798.8	702.6	652.6	49.97	14.060	
6,100.0	6,025.9	6,043.6	5,899.7	25.6	28.5	-79.03	-867.8	-816.0	717.1	666.2	50.88	14.094	
6,200.0	6,124.4	6,142.6	5,995.5	26.1	29.0	-79.00	-885.4	-833.3	731.6	679.8	51.79	14.127	
6,300.0	6,222.8	6,241.5	6,091.3	26.5	29.5	-78.97	-903.0	-850.5	746.1	693.4	52.70	14.159	
6,400.0	6,321.2	6,340.5	6,187.2	27.0	30.1	-78.94	-920.7	-867.7	760.6	707.0	53.61	14.189	
6,500.0	6,419.7	6,439.4	6,283.0	27.4	30.6	-78.91	-938.3	-885.0	775.2	720.7	54.52	14.219	
6,600.0	6,518.1	6,538.3	6,378.8	27.9	31.1	-78.89	-955.9	-902.2	789.7	734.3	55.43	14.248	
6,700.0	6,616.6	6,637.3	6,474.6	28.4	31.7	-78.86	-973.6	-919.4	804.2	747.9	56.34	14.275	
6,800.0	6,715.0	6,736.2	6,570.4	28.8	32.2	-78.84	-991.2	-936.7	818.7	761.5	57.25	14.302	
6,900.0	6,813.5	6,835.2	6,666.2	29.3	32.7	-78.81	-1,008.8	-953.9	833.2	775.1	58.16	14.328	
7,000.0	6,911.9	6,934.1	6,762.1	29.7	33.3	-78.79	-1,026.5	-971.1	847.8	788.7	59.07	14.353	
7,100.0	7,010.3	7,033.0	6,857.9	30.2	33.8	-78.77	-1,044.1	-988.4	862.3	802.3	59.98	14.377	
7,200.0	7,108.8	7,132.0	6,953.7	30.6	34.3	-78.74	-1,061.7	-1,005.6	876.8	815.9	60.89	14.400	
7,300.0	7,207.2	7,230.9	7,049.5	31.1	34.9	-78.72	-1,079.3	-1,022.8	891.3	829.5	61.80	14.423	
7,400.0	7,305.7	7,329.9	7,145.3	31.5	35.4	-78.70	-1,097.0	-1,040.1	905.8	843.1	62.71	14.445	
7,500.0	7,404.1	7,428.8	7,241.2	32.0	35.9	-78.68	-1,114.6	-1,057.3	920.4	856.7	63.62	14.466	
7,600.0	7,502.6	7,527.7	7,337.0	32.5	36.5	-78.66	-1,132.2	-1,074.5	934.9	870.4	64.53	14.487	
7,700.0	7,601.0	7,626.7	7,432.8	32.9	37.0	-78.64	-1,149.9	-1,091.8	949.4	884.0	65.44	14.507	
7,800.0	7,699.5	7,725.6	7,528.6	33.4	37.5	-78.63	-1,167.5	-1,109.0	963.9	897.6	66.36	14.527	
7,900.0	7,797.9	7,824.6	7,624.4	33.8	38.1	-78.61	-1,185.1	-1,126.2	978.4	911.2	67.27	14.546	
8,000.0	7,896.3	7,923.5	7,720.3	34.3	38.6	-78.59	-1,202.8	-1,143.5	993.0	924.8	68.18	14.564	

PERMIAN**RESOURCES****Anticollision Report**

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well FRED STATE COM 422H
Project:	(SP) EDDY	TVD Reference:	KB @ 3151.0usft
Reference Site:	FRED PROJECT	MD Reference:	KB @ 3151.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FRED STATE COM 422H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass_17
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FRED PROJECT - FRED STATE COM 424H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Rule Assigned:							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	180.00	-66.0	0.0	66.0				
100.0	100.0	100.0	100.0	0.3	0.3	180.00	-66.0	0.0	66.0	65.5	0.50	131.511	
200.0	200.0	200.0	200.0	0.6	0.6	180.00	-66.0	0.0	66.0	64.8	1.22	54.151	
300.0	300.0	300.0	300.0	1.0	1.0	180.00	-66.0	0.0	66.0	64.1	1.94	34.095	
400.0	400.0	400.0	400.0	1.3	1.3	180.00	-66.0	0.0	66.0	63.3	2.65	24.880	
500.0	500.0	500.0	500.0	1.7	1.7	180.00	-66.0	0.0	66.0	62.6	3.37	19.587	
600.0	600.0	600.0	600.0	2.0	2.0	180.00	-66.0	0.0	66.0	61.9	4.09	16.150	
700.0	700.0	700.0	700.0	2.4	2.4	180.00	-66.0	0.0	66.0	61.2	4.80	13.740	
800.0	800.0	800.0	800.0	2.8	2.8	180.00	-66.0	0.0	66.0	60.5	5.52	11.956	
900.0	900.0	900.0	900.0	3.1	3.1	180.00	-66.0	0.0	66.0	59.8	6.24	10.581	
1,000.0	1,000.0	1,000.0	1,000.0	3.5	3.5	180.00	-66.0	0.0	66.0	59.0	6.95	9.490 CC, ES	
1,100.0	1,100.0	1,097.9	1,097.9	3.8	3.8	-79.80	-67.5	-0.7	67.2	59.6	7.64	8.803	
1,200.0	1,199.8	1,195.8	1,195.6	4.2	4.1	-81.98	-72.0	-2.9	70.9	62.6	8.29	8.552 SF	
1,300.0	1,299.5	1,293.3	1,292.8	4.5	4.5	-85.12	-79.5	-6.6	77.3	68.3	8.96	8.631	
1,400.0	1,398.7	1,390.4	1,389.2	4.9	4.8	-88.69	-89.9	-11.6	86.5	76.9	9.63	8.986	
1,506.0	1,503.3	1,492.8	1,490.4	5.3	5.2	-92.43	-104.0	-18.5	99.6	89.3	10.36	9.614	
1,600.0	1,595.9	1,583.1	1,579.0	5.6	5.5	-95.00	-119.1	-25.9	114.0	103.0	11.03	10.335	
1,700.0	1,694.4	1,678.5	1,672.2	6.0	5.9	-96.13	-137.9	-35.0	131.8	120.1	11.76	11.213	
1,800.0	1,792.8	1,773.1	1,763.7	6.4	6.3	-96.14	-159.2	-45.4	152.0	139.5	12.48	12.172	
1,900.0	1,891.2	1,866.6	1,853.5	6.9	6.7	-95.42	-182.9	-57.0	174.4	161.2	13.22	13.198	
2,000.0	1,989.7	1,959.0	1,941.2	7.3	7.2	-94.26	-208.9	-69.7	199.2	185.3	13.95	14.287	
2,100.0	2,088.1	2,050.0	2,026.7	7.7	7.7	-92.85	-237.0	-83.4	226.4	211.8	14.67	15.438	
2,200.0	2,186.6	2,139.6	2,109.7	8.1	8.2	-91.32	-267.1	-98.0	256.1	240.7	15.38	16.651	
2,300.0	2,285.0	2,231.0	2,193.7	8.6	8.7	-89.75	-299.8	-114.0	287.9	271.7	16.14	17.836	
2,400.0	2,383.5	2,325.5	2,280.2	9.0	9.3	-88.41	-333.8	-130.6	320.1	303.1	16.97	18.865	
2,500.0	2,481.9	2,419.9	2,366.7	9.4	9.9	-87.32	-367.8	-147.2	352.5	334.7	17.81	19.794	
2,600.0	2,580.4	2,514.3	2,453.2	9.9	10.5	-86.41	-401.9	-163.7	384.9	366.3	18.65	20.635	
2,700.0	2,678.8	2,608.7	2,539.7	10.3	11.1	-85.64	-435.9	-180.3	417.5	398.0	19.51	21.399	
2,800.0	2,777.2	2,703.1	2,626.2	10.7	11.7	-84.98	-469.9	-196.9	450.1	429.7	20.37	22.094	
2,900.0	2,875.7	2,797.6	2,712.7	11.2	12.4	-84.41	-504.0	-213.5	482.7	461.5	21.24	22.729	
3,000.0	2,974.1	2,892.0	2,799.2	11.6	13.0	-83.91	-538.0	-230.1	515.4	493.3	22.11	23.311	
3,100.0	3,072.6	2,986.4	2,885.7	12.1	13.7	-83.47	-572.0	-246.7	548.1	525.1	22.99	23.846	
3,200.0	3,171.0	3,080.8	2,972.2	12.5	14.3	-83.08	-606.0	-263.3	580.9	557.0	23.86	24.339	
3,300.0	3,269.5	3,175.2	3,058.6	13.0	15.0	-82.73	-640.1	-279.9	613.6	588.9	24.75	24.795	
3,400.0	3,367.9	3,269.7	3,145.1	13.4	15.7	-82.42	-674.1	-296.5	646.4	620.7	25.63	25.217	
3,500.0	3,466.4	3,364.1	3,231.6	13.9	16.3	-82.14	-708.1	-313.1	679.2	652.7	26.52	25.609	
3,600.0	3,564.8	3,458.5	3,318.1	14.3	17.0	-81.88	-742.2	-329.7	712.0	684.6	27.41	25.973	
3,700.0	3,663.2	3,552.9	3,404.6	14.7	17.7	-81.65	-776.2	-346.3	744.8	716.5	28.30	26.314	
3,800.0	3,761.7	3,647.3	3,491.1	15.2	18.3	-81.43	-810.2	-362.8	777.6	748.4	29.20	26.632	
3,900.0	3,860.1	3,741.8	3,577.6	15.6	19.0	-81.24	-844.3	-379.4	810.5	780.4	30.10	26.930	
4,000.0	3,958.6	3,836.2	3,664.1	16.1	19.7	-81.06	-878.3	-396.0	843.3	812.3	30.99	27.209	
4,100.0	4,057.0	3,930.6	3,750.6	16.5	20.4	-80.89	-912.3	-412.6	876.1	844.3	31.89	27.472	
4,200.0	4,155.5	4,025.0	3,837.1	17.0	21.0	-80.73	-946.4	-429.2	909.0	876.2	32.79	27.719	
4,300.0	4,253.9	4,119.5	3,923.6	17.5	21.7	-80.59	-980.4	-445.8	941.9	908.2	33.69	27.953	
4,400.0	4,352.4	4,213.9	4,010.1	17.9	22.4	-80.45	-1,014.4	-462.4	974.7	940.1	34.60	28.173	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

PERMIAN**RESOURCES**

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well FRED STATE COM 422H
Project:	(SP) EDDY	TVD Reference:	KB @ 3151.0usft
Reference Site:	FRED PROJECT	MD Reference:	KB @ 3151.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FRED STATE COM 422H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass_17
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3151.0usft

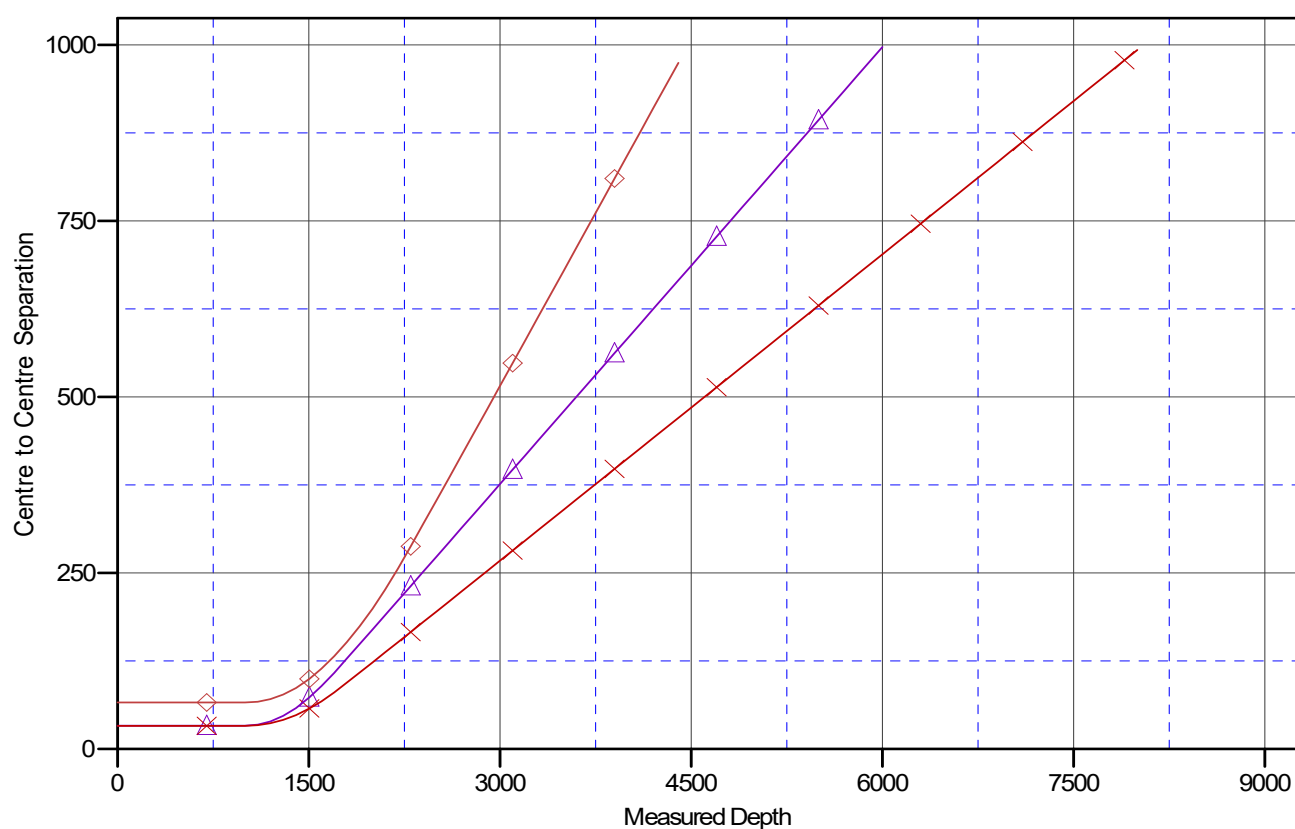
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FRED STATE COM 422H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.07°

Ladder Plot**LEGEND**

▲ FRED STATECOM421H,OWB,PWP0V0
 ◆ FRED STATECOM424H,OWB,PWP0V0
 ✕ FRED STATECOM423H,OWB,PWP0V0

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

PERMIAN

RESOURCES

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well FRED STATE COM 422H
Project:	(SP) EDDY	TVD Reference:	KB @ 3151.0usft
Reference Site:	FRED PROJECT	MD Reference:	KB @ 3151.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FRED STATE COM 422H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass_17
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3151.0usft

Offset Depths are relative to Offset Datum

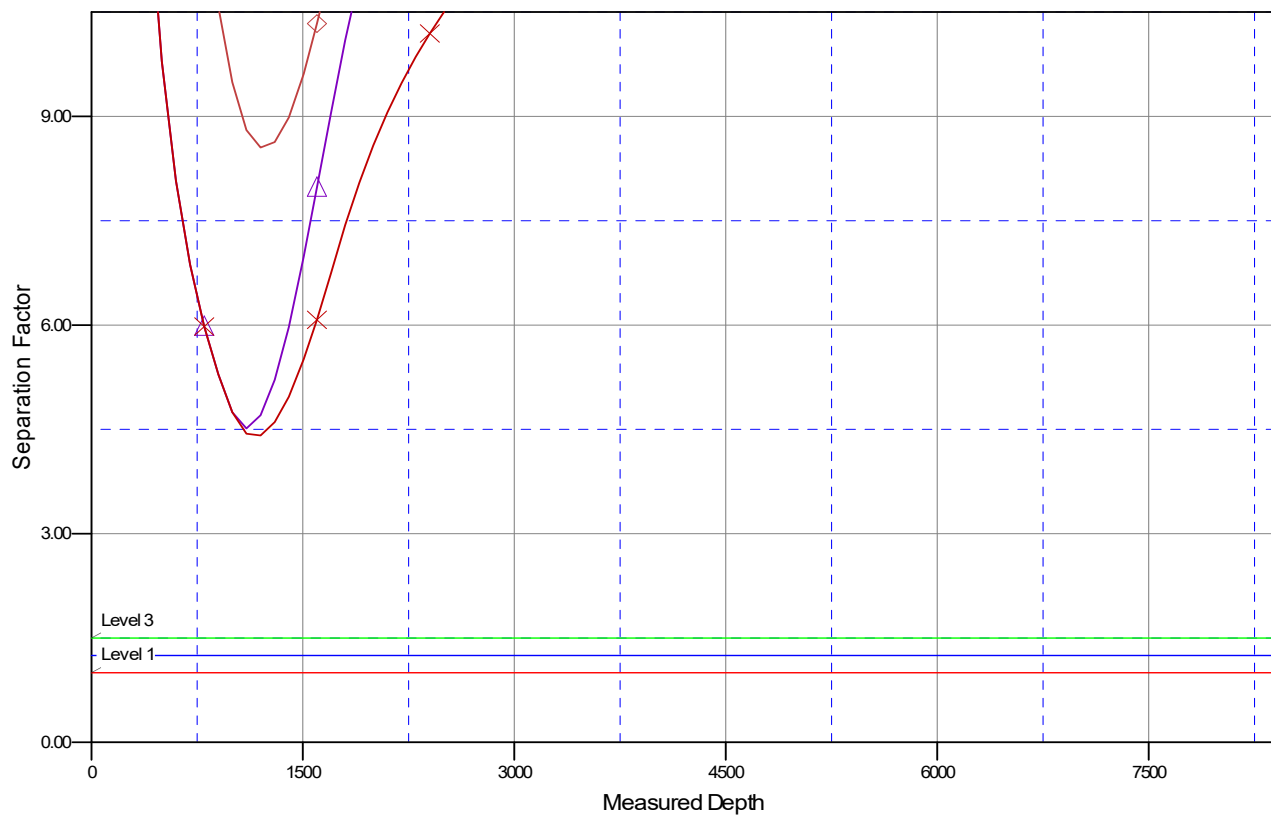
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FRED STATE COM 422H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.07°

Separation Factor Plot



LEGEND

▲ FRED STATECOM421H, OWB/PWP0/0
 ◆ FRED STATECOM424H, OWB/PWP0/0
 ✕ FRED STATECOM423H, OWB/PWP0/0

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

CONDITIONS

Action 469362

CONDITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 469362
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	7/10/2025