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State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

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.) 1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		WELL API NO. 30-015-56099
2. Name of Operator Permian Resources Operating, LLC		5. Indicate Type of Lease STATE ☐ FEE ☒
3. Address of Operator 300 N. Marienfield St, Ste 1000 Midland, Tx 79701		6. State Oil & Gas Lease No.
4. Well Location Unit Letter F : 1663 feet from the North line and 1756 feet from the West line Section 8 Township 23S Range 29E NMPM County Eddy		7. Lease Name or Unit Agreement Name Astrodog 0810
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 2984'		8. Well Number #121H
9. OGRID Number 372165		10. Pool name or Wildcat 15011; Culebra Bluff; Bone spring, South

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
 DOWNHOLE COMMINGLE ☐
 CLOSED-LOOP SYSTEM ☐
 OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING OPNS. ☐ P AND A ☐
 CASING/CEMENT JOB ☐
 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: SHL, Total Depth (TVD/MD).

Well Name/Number: No Change
API# 30-015-56099

SHL Change:
From: 1663' FNL, 1756' FWL, Sec. 8, T23S, R29E
To: 1647' FNL, 1764' FWL, Sec. 8, T23S, R29E

Change TD/MD From: 8,550'TVD, 18, 986'MD
Change TD/MD To: 8,550'TVD, 18,981'MD

Updated Drilling Program reflecting casing / cement / mud circulation depth changes attached along with the variance requests.

Attachments:

- Updated C102
- Drilling Program R-111Q
- WBD
- Directional Plan & Anticollision Report

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 Cassie Evans TITLE Regulatory DATE 8/2/25

Type or print name Cassie Evans E-mail address: cassie.evans@permianres.com PHONE: 432-313-1736

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 30-015-56099	Pool Code 15011	Pool Name CULEBRA BLUFF; BONE SPRING, SOUTH
Property Code 336880	Property Name ASTRODOG 0810	Well Number 121H
OGRID No. 372165	Operator Name PERMIAN RESOURCES OPERATING, LLC	Ground Level Elevation 2,984'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal

Surface Location

UL F	Section 8	Township 23S	Range 29E	Lot	Ft. from N/S 1,647' FNL	Ft. from E/W 1,764' FWL	Latitude 32.322483°	Longitude -104.009905°	County EDDY
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Bottom Hole Location

UL C	Section 10	Township 23S	Range 29E	Lot	Ft. from N/S 330' FNL	Ft. from E/W 2,555' FWL	Latitude 32.326152°	Longitude -103.973009°	County EDDY
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Dedicated Acres 640	Infill or Defining Well Defining	Defining Well API	Overlapping Spacing Unit (Y/N) N	Consolidation Code F
Order Numbers. TBD			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL F	Section 8	Township 23S	Range 29E	Lot	Ft. from N/S 1,647' FNL	Ft. from E/W 1,764' FWL	Latitude 32.322483°	Longitude -104.009905°	County EDDY
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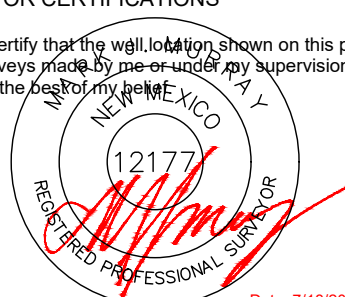
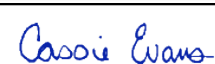
First Take Point (FTP)

UL B	Section 8	Township 23S	Range 29E	Lot	Ft. from N/S 330' FNL	Ft. from E/W 2,557' FEL	Latitude 32.326134°	Longitude -104.006785°	County EDDY
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Last Take Point (LTP)

UL C	Section 10	Township 23S	Range 29E	Lot	Ft. from N/S 330' FNL	Ft. from E/W 2,555' FWL	Latitude 32.326152°	Longitude -103.973009°	County EDDY
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Unitized Area or Area of Uniform Interest NA	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: TBD
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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.  Date: 7/18/2025	
Signature  Date 8/2/25		Signature and Seal of Professional Surveyor	
Printed Name Cassie Evans		Certificate Number 12177	Date of Survey 7/18/2025
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.

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.

The plan view shows the proposed 10.4-mile section of the Foothill Transportation Project (FTP) alignment. Key features include:

- Alignment:** A red line representing the proposed FTP alignment, starting at point A and ending at point E.
- Stationing:** Stationing is marked along the alignment, including 330' intervals and a total length of 10,433.12' from FTP TO LTP.
- Offsets:** Offsets are shown for the alignment, including 100' and 330' offsets from the centerline.
- Key Points:**
 - NMNM 121951:** National Map Maintenance point.
 - SHL/KOP ELEV. 2,984':** Station House Location/Key of Point elevation.
 - FTP/PPP1:** Foothill Transportation Project/Proposed Project 1.
 - LTP/BHL:** Local Transportation Project/Business Highway Location.
- Sections:** The alignment is divided into three sections: SECTION 8, SECTION 9, and SECTION 10.
- Grid:** A grid system is used to locate the alignment, with letters A through J and numbers 1 through 10.

POINT	NORTHING/EASTING
A	N:482,862.37° E:642,095.48°
B	N:482,886.24° E:644,754.07°
C	N:482,895.35° E:647,415.75°
D	N:482,904.46° E:650,077.43°
E	N:482,903.50° E:652,734.15°
F	N:480,246.06° E:652,756.72°
G	N:480,244.34° E:650,110.86°
H	N:480,235.32° E:647,460.32°
I	N:480,226.30° E:644,809.79°
J	N:480,194.51° E:642,164.05°

Permian Resources - Astrodog 0810 121H

1. Geologic Formations

Formation	Lithology	Elevation	TVD	Target
Rustler	Sandstone	2709	305	No
Top of Salt	Salt	2574	440	No
Lamar	Anhydrite/Shale	126	2888	No
BLCN	Limestone	94	2920	No
Cherry Canyon	Sandstone	-751	3765	No
Brushy Canyon	Sandstone	-2002	5016	No
Bone Spring Lime	Limestone	-3469	6483	No
1st Bone Spring Sand	Sandstone/Limestone/Shale	-4538	7552	No
2nd Bone Spring Carb	Sandstone/Limestone/Shale	-4811	7825	No
2nd Bone Spring Sand	Sandstone/Limestone/Shale	-5302	8316	Yes
0	Sandstone/Limestone/Shale	0	0	No
0	Sandstone/Limestone/Shale	0	0	No

2. Blowout Prevention

ROP 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	50% testing pressure
			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 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: 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	355	0	355	355	J55	54.5	BTC	6.44	10.39	Dry	7.62	Dry	7.15
Intermediate	12.25	9.625	0	3085	0	3085	3085	J55	36	BTC	1.18	3.64	Dry	3.97	Dry	3.96
Production	8.75	5.5	0	2585	0	8550	2585	P110RY	20	Bushmaster SP	1.85	2.36	Dry	2.90	Dry	2.90
Production	8.75	5.5	2585	18981	8550	8550	16396	P110RY	20	Bushmaster SP	1.85	2.36	Dry	2.90	Dry	2.90
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	Lead	0	280	210	1.88	12.9	390	100%	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
Surface	Tail	280	355	60	1.34	14.8	80	50%	Class C	Accelerator
Intermediate	Lead	0	2460	620	1.88	12.9	1160	50%	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
Intermediate	Tail	2460	3085	230	1.34	14.8	300	50%	Class C	Retarder
Production	Lead	2585	8277	670	3.29	10.7	2190	40%	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder
Production	Tail	8277	18981	1960	1.73	12.5	3390	25%	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder

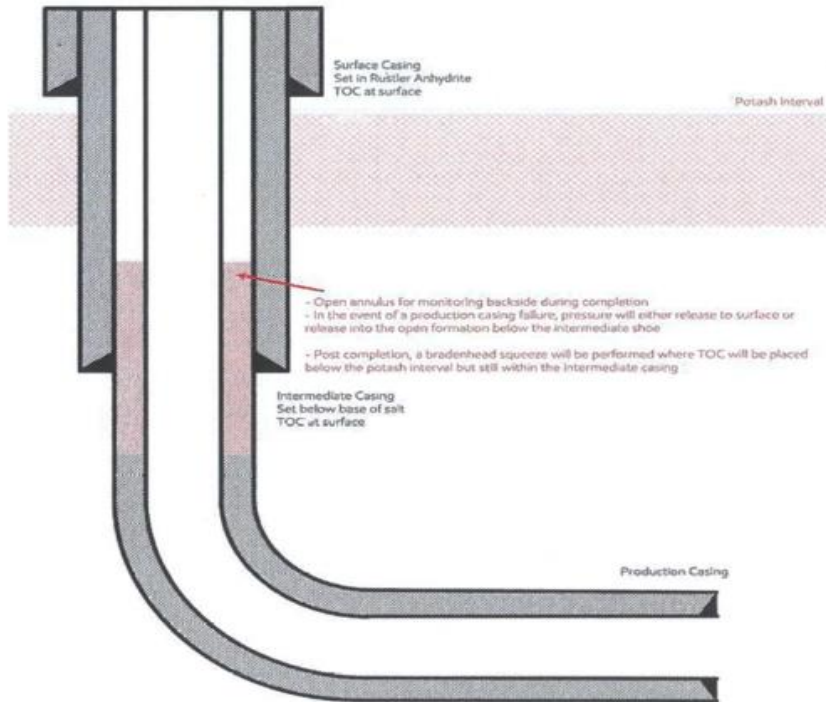
R-111-Q Requirements**3-String Design, Open Production Casing Annulus Procedure Description**

The annulus between the production and intermediate casing strings shall be actively monitored for pressure during hydraulic fracturing operations. If pressure communication is observed, indicating a possible production casing failure, hydraulic fracturing operations must immediately cease, and source of the pressure increase shall be investigated. During hydraulic fracturing operations, a pressure relief valve or appropriate venting system shall be installed to relieve pressure in the event of a production casing failure. The opening pressure of any pressure relief valves must be set below 50% of the intermediate casing burst rating. If the well design features an uncemented intermediate casing shoe (for example as shown in Exhibit B, Figure B) and the well approaches to within ¼ mile of an offset well drilling, completing or producing from the Delaware Mountain Group, then the pressure relief valve opening pressure shall be set no more than 1000 psi and at no time shall the pressure on the annulus be allowed to exceed 1000 psi. This requirement can be waived by the offset well operator.

Production cement will be 500' below the intermediate shoe with 0% excess leaving the DMG uncemented as a pressure relief zone.

Bradenhead operations will be performed within 180 days of completing hydraulic fracturing operations, tying back cement at least 500' inside the intermediate shoe but below Marker Bed 126.

3-String Design – Open Production Casing Annulus



[Figure B] 3 String - Uncemented production casing annulus

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: 9470 Cu Ft

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight	Max Weight
0	355	Spud Mud	8.6	9.5
355	3085	Water Based Mud	10	10
3085	22716	OBM	9	13.5

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	6010	psi
Anticipated Surface Pressure	4121	psi
Anticipated Bottom Hole Temperature	142	°F
Anticipated Abnormal pressure, temp, or geo hazards	No	

8. Other Information

Well Plan and AC Report: attached

Batching Drilling Procedure: attached

WBD: attached

Flex Hose Specs: attached

Offline Cementing Procedure Attached:

PERMIAN

R E S O U R C E S

NEW MEXICO

(SP) EDDY

ASTRODOG

ASTRODOG 0810 121H

OWB

Plan: PWP0

Standard Planning Report - Geographic

29 July, 2025

PERMIAN

RESOURCES

Planning Report - Geographic

Database:	Compass_17	Local Co-ordinate Reference:	Well ASTRODOG 0810 121H
Company:	NEW MEXICO	TVD Reference:	KB @ 3014.0usft
Project:	(SP) EDDY	MD Reference:	KB @ 3014.0usft
Site:	ASTRODOG	North Reference:	Grid
Well:	ASTRODOG 0810 121H	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		ASTRODOG			
Site Position:		Northing:	480,178.09 usft	Latitude:	32° 19' 10.887 N
From:	Map	Easting:	638,403.69 usft	Longitude:	104° 1' 8.796 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "		

Well	ASTRODOG 0810 121H					
Well Position	+N/-S	0.0 usft	Northing:	481,202.26 usft	Latitude:	32° 19' 20.938 N
	+E/-W	0.0 usft	Easting:	641,244.09 usft	Longitude:	104° 0' 35.659 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	2,984.0 usft
Grid Convergence:		0.17 °				

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.96	60.26	48,806.80174772

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	83.14

Plan Survey Tool Program	Date	7/29/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	18,981.1 PWP0 (OWB)	MWD	
			OWSG_Rev2_ MWD - Standal	

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	
1,733.0	14.66	35.80	1,725.1	75.7	54.6	2.00	2.00	0.00	35.80	
7,480.0	14.66	35.80	7,284.9	1,255.4	905.3	0.00	0.00	0.00	0.00	
8,213.1	0.00	0.00	8,010.0	1,331.1	959.9	2.00	-2.00	0.00	180.00	
8,275.6	0.00	0.00	8,072.5	1,331.1	959.9	0.00	0.00	0.00	0.00	
9,025.6	90.00	89.78	8,550.0	1,332.9	1,437.3	12.00	12.00	11.97	89.78	
18,981.1	90.00	89.78	8,550.0	1,371.3	11,392.9	0.00	0.00	0.00	0.00	LTP/BHL A0810 121H

PERMIAN

RESOURCES

Planning Report - Geographic

Database:	Compass_17	Local Co-ordinate Reference:	Well ASTRODOG 0810 121H
Company:	NEW MEXICO	TVD Reference:	KB @ 3014.0usft
Project:	(SP) EDDY	MD Reference:	KB @ 3014.0usft
Site:	ASTRODOG	North Reference:	Grid
Well:	ASTRODOG 0810 121H	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	481,202.26	641,244.09	32° 19' 20.938 N	104° 0' 35.659 W
100.0	0.00	0.00	100.0	0.0	0.0	481,202.26	641,244.09	32° 19' 20.938 N	104° 0' 35.659 W
200.0	0.00	0.00	200.0	0.0	0.0	481,202.26	641,244.09	32° 19' 20.938 N	104° 0' 35.659 W
300.0	0.00	0.00	300.0	0.0	0.0	481,202.26	641,244.09	32° 19' 20.938 N	104° 0' 35.659 W
400.0	0.00	0.00	400.0	0.0	0.0	481,202.26	641,244.09	32° 19' 20.938 N	104° 0' 35.659 W
500.0	0.00	0.00	500.0	0.0	0.0	481,202.26	641,244.09	32° 19' 20.938 N	104° 0' 35.659 W
600.0	0.00	0.00	600.0	0.0	0.0	481,202.26	641,244.09	32° 19' 20.938 N	104° 0' 35.659 W
700.0	0.00	0.00	700.0	0.0	0.0	481,202.26	641,244.09	32° 19' 20.938 N	104° 0' 35.659 W
800.0	0.00	0.00	800.0	0.0	0.0	481,202.26	641,244.09	32° 19' 20.938 N	104° 0' 35.659 W
900.0	0.00	0.00	900.0	0.0	0.0	481,202.26	641,244.09	32° 19' 20.938 N	104° 0' 35.659 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	481,202.26	641,244.09	32° 19' 20.938 N	104° 0' 35.659 W
Start Build 2.00									
1,100.0	2.00	35.80	1,100.0	1.4	1.0	481,203.68	641,245.12	32° 19' 20.952 N	104° 0' 35.647 W
1,200.0	4.00	35.80	1,199.8	5.7	4.1	481,207.92	641,248.18	32° 19' 20.994 N	104° 0' 35.611 W
1,300.0	6.00	35.80	1,299.5	12.7	9.2	481,214.99	641,253.27	32° 19' 21.064 N	104° 0' 35.551 W
1,400.0	8.00	35.80	1,398.7	22.6	16.3	481,224.87	641,260.40	32° 19' 21.162 N	104° 0' 35.468 W
1,500.0	10.00	35.80	1,497.5	35.3	25.5	481,237.56	641,269.55	32° 19' 21.287 N	104° 0' 35.361 W
1,600.0	12.00	35.80	1,595.6	50.8	36.6	481,253.04	641,280.71	32° 19' 21.440 N	104° 0' 35.230 W
1,700.0	14.00	35.80	1,693.1	69.0	49.8	481,271.28	641,293.87	32° 19' 21.620 N	104° 0' 35.076 W
1,733.0	14.66	35.80	1,725.1	75.7	54.6	481,277.91	641,298.65	32° 19' 21.685 N	104° 0' 35.020 W
Start 5747.0 hold at 1733.0 MD									
1,800.0	14.66	35.80	1,789.8	89.4	64.5	481,291.66	641,308.56	32° 19' 21.821 N	104° 0' 34.904 W
1,900.0	14.66	35.80	1,886.6	109.9	79.3	481,312.19	641,323.37	32° 19' 22.024 N	104° 0' 34.731 W
2,000.0	14.66	35.80	1,983.3	130.5	94.1	481,332.72	641,338.17	32° 19' 22.226 N	104° 0' 34.558 W
2,100.0	14.66	35.80	2,080.1	151.0	108.9	481,353.25	641,352.98	32° 19' 22.429 N	104° 0' 34.385 W
2,200.0	14.66	35.80	2,176.8	171.5	123.7	481,373.77	641,367.78	32° 19' 22.632 N	104° 0' 34.211 W
2,300.0	14.66	35.80	2,273.6	192.0	138.5	481,394.30	641,382.58	32° 19' 22.835 N	104° 0' 34.038 W
2,400.0	14.66	35.80	2,370.3	212.6	153.3	481,414.83	641,397.39	32° 19' 23.037 N	104° 0' 33.865 W
2,500.0	14.66	35.80	2,467.1	233.1	168.1	481,435.36	641,412.19	32° 19' 23.240 N	104° 0' 33.692 W
2,600.0	14.66	35.80	2,563.8	253.6	182.9	481,455.89	641,426.99	32° 19' 23.443 N	104° 0' 33.518 W
2,700.0	14.66	35.80	2,660.5	274.2	197.7	481,476.42	641,441.80	32° 19' 23.645 N	104° 0' 33.345 W
2,800.0	14.66	35.80	2,757.3	294.7	212.5	481,496.94	641,456.60	32° 19' 23.848 N	104° 0' 33.172 W
2,900.0	14.66	35.80	2,854.0	315.2	227.3	481,517.47	641,471.40	32° 19' 24.051 N	104° 0' 32.999 W
3,000.0	14.66	35.80	2,950.8	335.7	242.1	481,538.00	641,486.21	32° 19' 24.253 N	104° 0' 32.825 W
3,100.0	14.66	35.80	3,047.5	356.3	256.9	481,558.53	641,501.01	32° 19' 24.456 N	104° 0' 32.652 W
3,200.0	14.66	35.80	3,144.3	376.8	271.7	481,579.06	641,515.82	32° 19' 24.659 N	104° 0' 32.479 W
3,300.0	14.66	35.80	3,241.0	397.3	286.5	481,599.59	641,530.62	32° 19' 24.862 N	104° 0' 32.306 W
3,400.0	14.66	35.80	3,337.8	417.9	301.3	481,620.12	641,545.42	32° 19' 25.064 N	104° 0' 32.132 W
3,500.0	14.66	35.80	3,434.5	438.4	316.1	481,640.64	641,560.23	32° 19' 25.267 N	104° 0' 31.959 W
3,600.0	14.66	35.80	3,531.2	458.9	330.9	481,661.17	641,575.03	32° 19' 25.470 N	104° 0' 31.786 W
3,700.0	14.66	35.80	3,628.0	479.4	345.7	481,681.70	641,589.83	32° 19' 25.672 N	104° 0' 31.613 W
3,800.0	14.66	35.80	3,724.7	500.0	360.5	481,702.23	641,604.64	32° 19' 25.875 N	104° 0' 31.439 W
3,900.0	14.66	35.80	3,821.5	520.5	375.3	481,722.76	641,619.44	32° 19' 26.078 N	104° 0' 31.266 W
4,000.0	14.66	35.80	3,918.2	541.0	390.2	481,743.29	641,634.25	32° 19' 26.280 N	104° 0' 31.093 W
4,100.0	14.66	35.80	4,015.0	561.6	405.0	481,763.81	641,649.05	32° 19' 26.483 N	104° 0' 30.920 W
4,200.0	14.66	35.80	4,111.7	582.1	419.8	481,784.34	641,663.85	32° 19' 26.686 N	104° 0' 30.746 W
4,300.0	14.66	35.80	4,208.5	602.6	434.6	481,804.87	641,678.66	32° 19' 26.889 N	104° 0' 30.573 W
4,400.0	14.66	35.80	4,305.2	623.1	449.4	481,825.40	641,693.46	32° 19' 27.091 N	104° 0' 30.400 W
4,500.0	14.66	35.80	4,401.9	643.7	464.2	481,845.93	641,708.26	32° 19' 27.294 N	104° 0' 30.227 W
4,600.0	14.66	35.80	4,498.7	664.2	479.0	481,866.46	641,723.07	32° 19' 27.497 N	104° 0' 30.053 W
4,700.0	14.66	35.80	4,595.4	684.7	493.8	481,886.98	641,737.87	32° 19' 27.699 N	104° 0' 29.880 W
4,800.0	14.66	35.80	4,692.2	705.3	508.6	481,907.51	641,752.68	32° 19' 27.902 N	104° 0' 29.707 W
4,900.0	14.66	35.80	4,788.9	725.8	523.4	481,928.04	641,767.48	32° 19' 28.105 N	104° 0' 29.533 W
5,000.0	14.66	35.80	4,885.7	746.3	538.2	481,948.57	641,782.28	32° 19' 28.307 N	104° 0' 29.360 W

PERMIAN

RESOURCES

Planning Report - Geographic

Database:	Compass_17	Local Co-ordinate Reference:	Well ASTRODOG 0810 121H
Company:	NEW MEXICO	TVD Reference:	KB @ 3014.0usft
Project:	(SP) EDDY	MD Reference:	KB @ 3014.0usft
Site:	ASTRODOG	North Reference:	Grid
Well:	ASTRODOG 0810 121H	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	
5,100.0	14.66	35.80	4,982.4	766.8	553.0	481,969.10	641,797.09	32° 19' 28.510 N	104° 0' 29.187 W	
5,200.0	14.66	35.80	5,079.1	787.4	567.8	481,989.63	641,811.89	32° 19' 28.713 N	104° 0' 29.014 W	
5,300.0	14.66	35.80	5,175.9	807.9	582.6	482,010.15	641,826.69	32° 19' 28.916 N	104° 0' 28.840 W	
5,400.0	14.66	35.80	5,272.6	828.4	597.4	482,030.68	641,841.50	32° 19' 29.118 N	104° 0' 28.667 W	
5,500.0	14.66	35.80	5,369.4	849.0	612.2	482,051.21	641,856.30	32° 19' 29.321 N	104° 0' 28.494 W	
5,600.0	14.66	35.80	5,466.1	869.5	627.0	482,071.74	641,871.10	32° 19' 29.524 N	104° 0' 28.321 W	
5,700.0	14.66	35.80	5,562.9	890.0	641.8	482,092.27	641,885.91	32° 19' 29.726 N	104° 0' 28.147 W	
5,800.0	14.66	35.80	5,659.6	910.5	656.6	482,112.80	641,900.71	32° 19' 29.929 N	104° 0' 27.974 W	
5,900.0	14.66	35.80	5,756.4	931.1	671.4	482,133.32	641,915.52	32° 19' 30.132 N	104° 0' 27.801 W	
6,000.0	14.66	35.80	5,853.1	951.6	686.2	482,153.85	641,930.32	32° 19' 30.334 N	104° 0' 27.628 W	
6,100.0	14.66	35.80	5,949.8	972.1	701.0	482,174.38	641,945.12	32° 19' 30.537 N	104° 0' 27.454 W	
6,200.0	14.66	35.80	6,046.6	992.6	715.8	482,194.91	641,959.93	32° 19' 30.740 N	104° 0' 27.281 W	
6,300.0	14.66	35.80	6,143.3	1,013.2	730.6	482,215.44	641,974.73	32° 19' 30.943 N	104° 0' 27.108 W	
6,400.0	14.66	35.80	6,240.1	1,033.7	745.4	482,235.97	641,989.53	32° 19' 31.145 N	104° 0' 26.935 W	
6,500.0	14.66	35.80	6,336.8	1,054.2	760.2	482,256.49	642,004.34	32° 19' 31.348 N	104° 0' 26.761 W	
6,600.0	14.66	35.80	6,433.6	1,074.8	775.0	482,277.02	642,019.14	32° 19' 31.551 N	104° 0' 26.588 W	
6,700.0	14.66	35.80	6,530.3	1,095.3	789.9	482,297.55	642,033.95	32° 19' 31.753 N	104° 0' 26.415 W	
6,800.0	14.66	35.80	6,627.1	1,115.8	804.7	482,318.08	642,048.75	32° 19' 31.956 N	104° 0' 26.242 W	
6,900.0	14.66	35.80	6,723.8	1,136.3	819.5	482,338.61	642,063.55	32° 19' 32.159 N	104° 0' 26.068 W	
7,000.0	14.66	35.80	6,820.5	1,156.9	834.3	482,359.14	642,078.36	32° 19' 32.361 N	104° 0' 25.895 W	
7,100.0	14.66	35.80	6,917.3	1,177.4	849.1	482,379.66	642,093.16	32° 19' 32.564 N	104° 0' 25.722 W	
7,200.0	14.66	35.80	7,014.0	1,197.9	863.9	482,400.19	642,107.96	32° 19' 32.767 N	104° 0' 25.549 W	
7,300.0	14.66	35.80	7,110.8	1,218.5	878.7	482,420.72	642,122.77	32° 19' 32.970 N	104° 0' 25.375 W	
7,400.0	14.66	35.80	7,207.5	1,239.0	893.5	482,441.25	642,137.57	32° 19' 33.172 N	104° 0' 25.202 W	
7,480.0	14.66	35.80	7,284.9	1,255.4	905.3	482,457.68	642,149.42	32° 19' 33.334 N	104° 0' 25.063 W	
Start Drop -2.00										
7,500.0	14.26	35.80	7,304.3	1,259.5	908.2	482,461.72	642,152.34	32° 19' 33.374 N	104° 0' 25.029 W	
7,600.0	12.26	35.80	7,401.6	1,278.1	921.7	482,480.33	642,165.75	32° 19' 33.558 N	104° 0' 24.872 W	
7,700.0	10.26	35.80	7,499.7	1,293.9	933.1	482,496.17	642,177.17	32° 19' 33.714 N	104° 0' 24.739 W	
7,800.0	8.26	35.80	7,598.4	1,307.0	942.5	482,509.22	642,186.59	32° 19' 33.843 N	104° 0' 24.628 W	
7,900.0	6.26	35.80	7,697.6	1,317.2	949.9	482,519.47	642,193.98	32° 19' 33.945 N	104° 0' 24.542 W	
8,000.0	4.26	35.80	7,797.1	1,324.6	955.2	482,526.91	642,199.34	32° 19' 34.018 N	104° 0' 24.479 W	
8,100.0	2.26	35.80	7,897.0	1,329.3	958.6	482,531.52	642,202.67	32° 19' 34.064 N	104° 0' 24.440 W	
8,200.0	0.26	35.80	7,996.9	1,331.0	959.9	482,533.31	642,203.96	32° 19' 34.081 N	104° 0' 24.425 W	
8,213.1	0.00	0.00	8,010.0	1,331.1	959.9	482,533.33	642,203.97	32° 19' 34.081 N	104° 0' 24.425 W	
Start 62.5 hold at 8213.1 MD										
8,275.6	0.00	0.00	8,072.5	1,331.1	959.9	482,533.33	642,203.97	32° 19' 34.081 N	104° 0' 24.425 W	
Start DLS 12.00 TFO 89.78										
8,300.0	2.93	89.78	8,096.9	1,331.1	960.5	482,533.33	642,204.60	32° 19' 34.081 N	104° 0' 24.418 W	
8,325.0	5.93	89.78	8,121.9	1,331.1	962.4	482,533.34	642,206.53	32° 19' 34.081 N	104° 0' 24.395 W	
8,350.0	8.93	89.78	8,146.6	1,331.1	965.7	482,533.35	642,209.77	32° 19' 34.081 N	104° 0' 24.357 W	
8,375.0	11.93	89.78	8,171.2	1,331.1	970.2	482,533.37	642,214.29	32° 19' 34.081 N	104° 0' 24.305 W	
8,400.0	14.93	89.78	8,195.5	1,331.1	976.0	482,533.39	642,220.10	32° 19' 34.082 N	104° 0' 24.237 W	
8,425.0	17.93	89.78	8,219.5	1,331.2	983.1	482,533.42	642,227.17	32° 19' 34.082 N	104° 0' 24.155 W	
8,450.0	20.93	89.78	8,243.1	1,331.2	991.4	482,533.45	642,235.49	32° 19' 34.082 N	104° 0' 24.058 W	
8,475.0	23.93	89.78	8,266.2	1,331.2	1,000.9	482,533.49	642,245.03	32° 19' 34.082 N	104° 0' 23.946 W	
8,500.0	26.93	89.78	8,288.8	1,331.3	1,011.7	482,533.53	642,255.76	32° 19' 34.082 N	104° 0' 23.821 W	
8,525.0	29.93	89.78	8,310.7	1,331.3	1,023.6	482,533.58	642,267.66	32° 19' 34.082 N	104° 0' 23.683 W	
8,550.0	32.93	89.78	8,332.1	1,331.4	1,036.6	482,533.63	642,280.70	32° 19' 34.082 N	104° 0' 23.531 W	
8,575.0	35.93	89.78	8,352.7	1,331.4	1,050.7	482,533.68	642,294.83	32° 19' 34.082 N	104° 0' 23.366 W	
8,600.0	38.93	89.78	8,372.5	1,331.5	1,065.9	482,533.74	642,310.03	32° 19' 34.082 N	104° 0' 23.189 W	
8,625.0	41.93	89.78	8,391.6	1,331.5	1,082.1	482,533.80	642,326.24	32° 19' 34.082 N	104° 0' 23.000 W	
8,650.0	44.93	89.78	8,409.7	1,331.6	1,099.3	482,533.87	642,343.43	32° 19' 34.083 N	104° 0' 22.800 W	
FTP A0810 121H										

PERMIAN

RESOURCES

Planning Report - Geographic

Database:	Compass_17	Local Co-ordinate Reference:	Well ASTRODOG 0810 121H
Company:	NEW MEXICO	TVD Reference:	KB @ 3014.0usft
Project:	(SP) EDDY	MD Reference:	KB @ 3014.0usft
Site:	ASTRODOG	North Reference:	Grid
Well:	ASTRODOG 0810 121H	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
8,675.0	47.93	89.78	8,427.0	1,331.7	1,117.4	482,533.94	642,361.54	32° 19' 34.083 N	104° 0' 22.589 W
8,700.0	50.93	89.78	8,443.2	1,331.8	1,136.4	482,534.01	642,380.53	32° 19' 34.083 N	104° 0' 22.367 W
8,725.0	53.93	89.78	8,458.4	1,331.8	1,156.2	482,534.09	642,400.34	32° 19' 34.083 N	104° 0' 22.136 W
8,750.0	56.93	89.78	8,472.6	1,331.9	1,176.8	482,534.17	642,420.92	32° 19' 34.083 N	104° 0' 21.896 W
8,775.0	59.93	89.78	8,485.7	1,332.0	1,198.1	482,534.25	642,442.22	32° 19' 34.083 N	104° 0' 21.648 W
8,800.0	62.93	89.78	8,497.7	1,332.1	1,220.1	482,534.33	642,464.18	32° 19' 34.083 N	104° 0' 21.392 W
8,825.0	65.93	89.78	8,508.5	1,332.2	1,242.6	482,534.42	642,486.73	32° 19' 34.084 N	104° 0' 21.130 W
8,850.0	68.93	89.78	8,518.1	1,332.2	1,265.7	482,534.51	642,509.81	32° 19' 34.084 N	104° 0' 20.860 W
8,875.0	71.93	89.78	8,526.4	1,332.3	1,289.3	482,534.60	642,533.36	32° 19' 34.084 N	104° 0' 20.586 W
8,900.0	74.93	89.78	8,533.6	1,332.4	1,313.2	482,534.69	642,557.32	32° 19' 34.084 N	104° 0' 20.307 W
8,925.0	77.93	89.78	8,539.4	1,332.5	1,337.5	482,534.79	642,581.62	32° 19' 34.084 N	104° 0' 20.024 W
8,950.0	80.93	89.78	8,544.0	1,332.6	1,362.1	482,534.88	642,606.19	32° 19' 34.085 N	104° 0' 19.737 W
8,975.0	83.93	89.78	8,547.3	1,332.7	1,386.9	482,534.98	642,630.97	32° 19' 34.085 N	104° 0' 19.448 W
9,000.0	86.93	89.78	8,549.3	1,332.8	1,411.8	482,535.07	642,655.89	32° 19' 34.085 N	104° 0' 19.158 W
9,025.6	90.00	89.78	8,550.0	1,332.9	1,437.3	482,535.17	642,681.43	32° 19' 34.085 N	104° 0' 18.860 W
Start 9955.6 hold at 9025.6 MD									
9,100.0	90.00	89.78	8,550.0	1,333.2	1,511.8	482,535.46	642,755.88	32° 19' 34.086 N	104° 0' 17.993 W
9,200.0	90.00	89.78	8,550.0	1,333.6	1,611.8	482,535.84	642,855.88	32° 19' 34.087 N	104° 0' 16.827 W
9,300.0	90.00	89.78	8,550.0	1,334.0	1,711.8	482,536.23	642,955.88	32° 19' 34.087 N	104° 0' 15.662 W
9,400.0	90.00	89.78	8,550.0	1,334.4	1,811.8	482,536.61	643,055.88	32° 19' 34.088 N	104° 0' 14.496 W
9,500.0	90.00	89.78	8,550.0	1,334.7	1,911.8	482,537.00	643,155.87	32° 19' 34.089 N	104° 0' 13.331 W
9,600.0	90.00	89.78	8,550.0	1,335.1	2,011.8	482,537.38	643,255.87	32° 19' 34.090 N	104° 0' 12.165 W
9,700.0	90.00	89.78	8,550.0	1,335.5	2,111.8	482,537.77	643,355.87	32° 19' 34.090 N	104° 0' 11.000 W
9,800.0	90.00	89.78	8,550.0	1,335.9	2,211.8	482,538.16	643,455.87	32° 19' 34.091 N	104° 0' 9.834 W
9,900.0	90.00	89.78	8,550.0	1,336.3	2,311.8	482,538.54	643,555.87	32° 19' 34.092 N	104° 0' 8.669 W
10,000.0	90.00	89.78	8,550.0	1,336.7	2,411.8	482,538.93	643,655.87	32° 19' 34.093 N	104° 0' 7.503 W
10,100.0	90.00	89.78	8,550.0	1,337.1	2,511.8	482,539.31	643,755.87	32° 19' 34.093 N	104° 0' 6.338 W
10,200.0	90.00	89.78	8,550.0	1,337.4	2,611.8	482,539.70	643,855.87	32° 19' 34.094 N	104° 0' 5.172 W
10,300.0	90.00	89.78	8,550.0	1,337.8	2,711.8	482,540.08	643,955.87	32° 19' 34.095 N	104° 0' 4.007 W
10,400.0	90.00	89.78	8,550.0	1,338.2	2,811.8	482,540.47	644,055.87	32° 19' 34.096 N	104° 0' 2.842 W
10,500.0	90.00	89.78	8,550.0	1,338.6	2,911.8	482,540.85	644,155.87	32° 19' 34.096 N	104° 0' 1.676 W
10,600.0	90.00	89.78	8,550.0	1,339.0	3,011.8	482,541.24	644,255.87	32° 19' 34.097 N	104° 0' 0.511 W
10,700.0	90.00	89.78	8,550.0	1,339.4	3,111.8	482,541.62	644,355.87	32° 19' 34.098 N	103° 59' 59.345 W
10,800.0	90.00	89.78	8,550.0	1,339.7	3,211.8	482,542.01	644,455.87	32° 19' 34.099 N	103° 59' 58.180 W
10,900.0	90.00	89.78	8,550.0	1,340.1	3,311.8	482,542.40	644,555.86	32° 19' 34.099 N	103° 59' 57.014 W
11,000.0	90.00	89.78	8,550.0	1,340.5	3,411.8	482,542.78	644,655.86	32° 19' 34.100 N	103° 59' 55.849 W
11,100.0	90.00	89.78	8,550.0	1,340.9	3,511.8	482,543.17	644,755.86	32° 19' 34.101 N	103° 59' 54.683 W
11,200.0	90.00	89.78	8,550.0	1,341.3	3,611.8	482,543.55	644,855.86	32° 19' 34.102 N	103° 59' 53.518 W
11,300.0	90.00	89.78	8,550.0	1,341.7	3,711.8	482,543.94	644,955.86	32° 19' 34.102 N	103° 59' 52.352 W
11,400.0	90.00	89.78	8,550.0	1,342.1	3,811.8	482,544.32	645,055.86	32° 19' 34.103 N	103° 59' 51.187 W
11,500.0	90.00	89.78	8,550.0	1,342.4	3,911.8	482,544.71	645,155.86	32° 19' 34.104 N	103° 59' 50.021 W
11,600.0	90.00	89.78	8,550.0	1,342.8	4,011.8	482,545.09	645,255.86	32° 19' 34.104 N	103° 59' 48.856 W
11,700.0	90.00	89.78	8,550.0	1,343.2	4,111.8	482,545.48	645,355.86	32° 19' 34.105 N	103° 59' 47.691 W
11,800.0	90.00	89.78	8,550.0	1,343.6	4,211.8	482,545.86	645,455.86	32° 19' 34.106 N	103° 59' 46.525 W
11,900.0	90.00	89.78	8,550.0	1,344.0	4,311.8	482,546.25	645,555.86	32° 19' 34.106 N	103° 59' 45.360 W
12,000.0	90.00	89.78	8,550.0	1,344.4	4,411.8	482,546.63	645,655.86	32° 19' 34.107 N	103° 59' 44.194 W
12,100.0	90.00	89.78	8,550.0	1,344.8	4,511.8	482,547.02	645,755.86	32° 19' 34.108 N	103° 59' 43.029 W
12,200.0	90.00	89.78	8,550.0	1,345.1	4,611.8	482,547.41	645,855.85	32° 19' 34.109 N	103° 59' 41.863 W
12,300.0	90.00	89.78	8,550.0	1,345.5	4,711.8	482,547.79	645,955.85	32° 19' 34.109 N	103° 59' 40.698 W
12,400.0	90.00	89.78	8,550.0	1,345.9	4,811.8	482,548.18	646,055.85	32° 19' 34.110 N	103° 59' 39.532 W
12,500.0	90.00	89.78	8,550.0	1,346.3	4,911.8	482,548.56	646,155.85	32° 19' 34.111 N	103° 59' 38.367 W
12,600.0	90.00	89.78	8,550.0	1,346.7	5,011.8	482,548.95	646,255.85	32° 19' 34.111 N	103° 59' 37.201 W
12,700.0	90.00	89.78	8,550.0	1,347.1	5,111.8	482,549.33	646,355.85	32° 19' 34.112 N	103° 59' 36.036 W
12,800.0	90.00	89.78	8,550.0	1,347.5	5,211.8	482,549.72	646,455.85	32° 19' 34.113 N	103° 59' 34.870 W

PERMIAN

RESOURCES

Planning Report - Geographic

Database:	Compass_17	Local Co-ordinate Reference:	Well ASTRODOG 0810 121H
Company:	NEW MEXICO	TVD Reference:	KB @ 3014.0usft
Project:	(SP) EDDY	MD Reference:	KB @ 3014.0usft
Site:	ASTRODOG	North Reference:	Grid
Well:	ASTRODOG 0810 121H	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	
12,900.0	90.00	89.78	8,550.0	1,347.8	5,311.8	482,550.10	646,555.85	32° 19' 34.113 N	103° 59' 33.705 W	
13,000.0	90.00	89.78	8,550.0	1,348.2	5,411.8	482,550.49	646,655.85	32° 19' 34.114 N	103° 59' 32.539 W	
13,100.0	90.00	89.78	8,550.0	1,348.6	5,511.8	482,550.87	646,755.85	32° 19' 34.115 N	103° 59' 31.374 W	
13,200.0	90.00	89.78	8,550.0	1,349.0	5,611.8	482,551.26	646,855.85	32° 19' 34.115 N	103° 59' 30.209 W	
13,300.0	90.00	89.78	8,550.0	1,349.4	5,711.8	482,551.65	646,955.85	32° 19' 34.116 N	103° 59' 29.043 W	
13,400.0	90.00	89.78	8,550.0	1,349.8	5,811.8	482,552.03	647,055.85	32° 19' 34.117 N	103° 59' 27.878 W	
13,500.0	90.00	89.78	8,550.0	1,350.2	5,911.8	482,552.42	647,155.85	32° 19' 34.117 N	103° 59' 26.712 W	
13,600.0	90.00	89.78	8,550.0	1,350.5	6,011.7	482,552.80	647,255.84	32° 19' 34.118 N	103° 59' 25.547 W	
13,700.0	90.00	89.78	8,550.0	1,350.9	6,111.7	482,553.19	647,355.84	32° 19' 34.119 N	103° 59' 24.381 W	
13,800.0	90.00	89.78	8,550.0	1,351.3	6,211.7	482,553.57	647,455.84	32° 19' 34.119 N	103° 59' 23.216 W	
13,900.0	90.00	89.78	8,550.0	1,351.7	6,311.7	482,553.96	647,555.84	32° 19' 34.120 N	103° 59' 22.050 W	
14,000.0	90.00	89.78	8,550.0	1,352.1	6,411.7	482,554.34	647,655.84	32° 19' 34.120 N	103° 59' 20.885 W	
14,100.0	90.00	89.78	8,550.0	1,352.5	6,511.7	482,554.73	647,755.84	32° 19' 34.121 N	103° 59' 19.719 W	
14,200.0	90.00	89.78	8,550.0	1,352.9	6,611.7	482,555.11	647,855.84	32° 19' 34.122 N	103° 59' 18.554 W	
14,300.0	90.00	89.78	8,550.0	1,353.2	6,711.7	482,555.50	647,955.84	32° 19' 34.122 N	103° 59' 17.388 W	
14,400.0	90.00	89.78	8,550.0	1,353.6	6,811.7	482,555.88	648,055.84	32° 19' 34.123 N	103° 59' 16.223 W	
14,500.0	90.00	89.78	8,550.0	1,354.0	6,911.7	482,556.27	648,155.84	32° 19' 34.124 N	103° 59' 15.058 W	
14,600.0	90.00	89.78	8,550.0	1,354.4	7,011.7	482,556.66	648,255.84	32° 19' 34.124 N	103° 59' 13.892 W	
14,700.0	90.00	89.78	8,550.0	1,354.8	7,111.7	482,557.04	648,355.84	32° 19' 34.125 N	103° 59' 12.727 W	
14,800.0	90.00	89.78	8,550.0	1,355.2	7,211.7	482,557.43	648,455.84	32° 19' 34.125 N	103° 59' 11.561 W	
14,900.0	90.00	89.78	8,550.0	1,355.6	7,311.7	482,557.81	648,555.83	32° 19' 34.126 N	103° 59' 10.396 W	
15,000.0	90.00	89.78	8,550.0	1,355.9	7,411.7	482,558.20	648,655.83	32° 19' 34.127 N	103° 59' 9.230 W	
15,100.0	90.00	89.78	8,550.0	1,356.3	7,511.7	482,558.58	648,755.83	32° 19' 34.127 N	103° 59' 8.065 W	
15,200.0	90.00	89.78	8,550.0	1,356.7	7,611.7	482,558.97	648,855.83	32° 19' 34.128 N	103° 59' 6.899 W	
15,300.0	90.00	89.78	8,550.0	1,357.1	7,711.7	482,559.35	648,955.83	32° 19' 34.128 N	103° 59' 5.734 W	
15,400.0	90.00	89.78	8,550.0	1,357.5	7,811.7	482,559.74	649,055.83	32° 19' 34.129 N	103° 59' 4.568 W	
15,500.0	90.00	89.78	8,550.0	1,357.9	7,911.7	482,560.12	649,155.83	32° 19' 34.130 N	103° 59' 3.403 W	
15,600.0	90.00	89.78	8,550.0	1,358.2	8,011.7	482,560.51	649,255.83	32° 19' 34.130 N	103° 59' 2.237 W	
15,700.0	90.00	89.78	8,550.0	1,358.6	8,111.7	482,560.89	649,355.83	32° 19' 34.131 N	103° 59' 1.072 W	
15,800.0	90.00	89.78	8,550.0	1,359.0	8,211.7	482,561.28	649,455.83	32° 19' 34.131 N	103° 58' 59.906 W	
15,900.0	90.00	89.78	8,550.0	1,359.4	8,311.7	482,561.67	649,555.83	32° 19' 34.132 N	103° 58' 58.741 W	
16,000.0	90.00	89.78	8,550.0	1,359.8	8,411.7	482,562.05	649,655.83	32° 19' 34.133 N	103° 58' 57.576 W	
16,100.0	90.00	89.78	8,550.0	1,360.2	8,511.7	482,562.44	649,755.83	32° 19' 34.133 N	103° 58' 56.410 W	
16,200.0	90.00	89.78	8,550.0	1,360.6	8,611.7	482,562.82	649,855.83	32° 19' 34.134 N	103° 58' 55.245 W	
16,300.0	90.00	89.78	8,550.0	1,360.9	8,711.7	482,563.21	649,955.82	32° 19' 34.134 N	103° 58' 54.079 W	
16,400.0	90.00	89.78	8,550.0	1,361.3	8,811.7	482,563.59	650,055.82	32° 19' 34.135 N	103° 58' 52.914 W	
16,500.0	90.00	89.78	8,550.0	1,361.7	8,911.7	482,563.98	650,155.82	32° 19' 34.135 N	103° 58' 51.748 W	
16,600.0	90.00	89.78	8,550.0	1,362.1	9,011.7	482,564.36	650,255.82	32° 19' 34.136 N	103° 58' 50.583 W	
16,700.0	90.00	89.78	8,550.0	1,362.5	9,111.7	482,564.75	650,355.82	32° 19' 34.137 N	103° 58' 49.417 W	
16,800.0	90.00	89.78	8,550.0	1,362.9	9,211.7	482,565.13	650,455.82	32° 19' 34.137 N	103° 58' 48.252 W	
16,900.0	90.00	89.78	8,550.0	1,363.3	9,311.7	482,565.52	650,555.82	32° 19' 34.138 N	103° 58' 47.086 W	
17,000.0	90.00	89.78	8,550.0	1,363.6	9,411.7	482,565.91	650,655.82	32° 19' 34.138 N	103° 58' 45.921 W	
17,100.0	90.00	89.78	8,550.0	1,364.0	9,511.7	482,566.29	650,755.82	32° 19' 34.139 N	103° 58' 44.755 W	
17,200.0	90.00	89.78	8,550.0	1,364.4	9,611.7	482,566.68	650,855.82	32° 19' 34.139 N	103° 58' 43.590 W	
17,300.0	90.00	89.78	8,550.0	1,364.8	9,711.7	482,567.06	650,955.82	32° 19' 34.140 N	103° 58' 42.425 W	
17,400.0	90.00	89.78	8,550.0	1,365.2	9,811.7	482,567.45	651,055.82	32° 19' 34.140 N	103° 58' 41.259 W	
17,500.0	90.00	89.78	8,550.0	1,365.6	9,911.7	482,567.83	651,155.82	32° 19' 34.141 N	103° 58' 40.094 W	
17,600.0	90.00	89.78	8,550.0	1,366.0	10,011.7	482,568.22	651,255.81	32° 19' 34.141 N	103° 58' 38.928 W	
17,700.0	90.00	89.78	8,550.0	1,366.3	10,111.7	482,568.60	651,355.81	32° 19' 34.142 N	103° 58' 37.763 W	
17,800.0	90.00	89.78	8,550.0	1,366.7	10,211.7	482,568.99	651,455.81	32° 19' 34.142 N	103° 58' 36.597 W	
17,900.0	90.00	89.78	8,550.0	1,367.1	10,311.7	482,569.37	651,555.81	32° 19' 34.143 N	103° 58' 35.432 W	
18,000.0	90.00	89.78	8,550.0	1,367.5	10,411.7	482,569.76	651,655.81	32° 19' 34.143 N	103° 58' 34.266 W	
18,100.0	90.00	89.78	8,550.0	1,367.9	10,511.7	482,570.14	651,755.81	32° 19' 34.144 N	103° 58' 33.101 W	
18,200.0	90.00	89.78	8,550.0	1,368.3	10,611.7	482,570.53	651,855.81	32° 19' 34.145 N	103° 58' 31.935 W	
18,300.0	90.00	89.78	8,550.0	1,368.7	10,711.7	482,570.92	651,955.81	32° 19' 34.145 N	103° 58' 30.770 W	

PERMIAN

RESOURCES

Planning Report - Geographic

Database:	Compass_17	Local Co-ordinate Reference:	Well ASTRODOG 0810 121H
Company:	NEW MEXICO	TVD Reference:	KB @ 3014.0usft
Project:	(SP) EDDY	MD Reference:	KB @ 3014.0usft
Site:	ASTRODOG	North Reference:	Grid
Well:	ASTRODOG 0810 121H	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	
18,400.0	90.00	89.78	8,550.0	1,369.0	10,811.7	482,571.30	652,055.81	32° 19' 34.146 N	103° 58' 29.604 W	
18,500.0	90.00	89.78	8,550.0	1,369.4	10,911.7	482,571.69	652,155.81	32° 19' 34.146 N	103° 58' 28.439 W	
18,600.0	90.00	89.78	8,550.0	1,369.8	11,011.7	482,572.07	652,255.81	32° 19' 34.147 N	103° 58' 27.274 W	
18,700.0	90.00	89.78	8,550.0	1,370.2	11,111.7	482,572.46	652,355.81	32° 19' 34.147 N	103° 58' 26.108 W	
18,800.0	90.00	89.78	8,550.0	1,370.6	11,211.7	482,572.84	652,455.81	32° 19' 34.148 N	103° 58' 24.943 W	
18,900.0	90.00	89.78	8,550.0	1,371.0	11,311.7	482,573.23	652,555.81	32° 19' 34.148 N	103° 58' 23.777 W	
18,981.1	90.00	89.78	8,550.0	1,371.3	11,392.9	482,573.54	652,636.95	32° 19' 34.148 N	103° 58' 22.831 W	
TD at 18981.2 - LTP/BHL A0810 121H										

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
LTP/BHL A0810 121H - plan hits target center - Point	0.00	0.00	8,550.0	1,371.3	11,392.9	482,573.54	652,636.95	32° 19' 34.148 N	103° 58' 22.831 W	
FTP A0810 121H - plan misses target center by 197.8usft at 8650.0usft MD (8409.7 TVD, 1331.6 N, 1099.3 E) - Point	0.00	0.00	8,550.0	1,331.1	959.9	482,533.33	642,203.97	32° 19' 34.081 N	104° 0' 24.425 W	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
304.8	304.8	RSLR				
440.1	440.1	SLDO				
2,935.1	2,888.0	LMAR				
2,968.6	2,920.4	BLCN				
3,841.3	3,764.7	CYCN				
5,134.6	5,015.9	BYCN				
6,650.7	6,482.6	BSDL				
7,752.7	7,551.6	FBSG Sand				
8,028.0	7,825.1	SBSG Carb				
8,531.4	8,316.2	SBSG Sand				

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	
1,733.0	1,725.1	75.7	54.6	Start 5747.0 hold at 1733.0 MD	
7,480.0	7,284.9	1,255.4	905.3	Start Drop -2.00	
8,213.1	8,010.0	1,331.1	959.9	Start 62.5 hold at 8213.1 MD	
8,275.6	8,072.5	1,331.1	959.9	Start DLS 12.00 TFO 89.78	
9,025.6	8,550.0	1,332.9	1,437.3	Start 9955.6 hold at 9025.6 MD	
18,981.1	8,550.0	1,371.3	11,392.9	TD at 18981.2	

PERMIAN

RESOURCES

County: (SP) EDDY
 Site: ASTRODOG
 Well: ASTRODOG 0810 121H
 GE: 2984.0
 Plan: PWP0

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP A0810 121H	8550.0	1331.1	959.9	482533.33	642203.97
LTP/BHL A0810 121H	8550.0	1371.3	11392.9	482573.54	652636.95

SECTION DETAILS

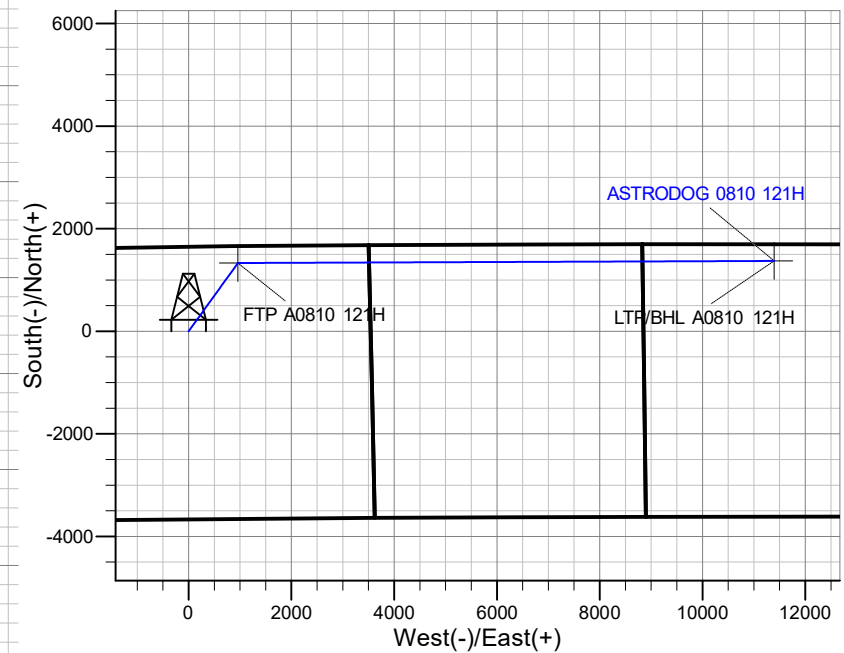
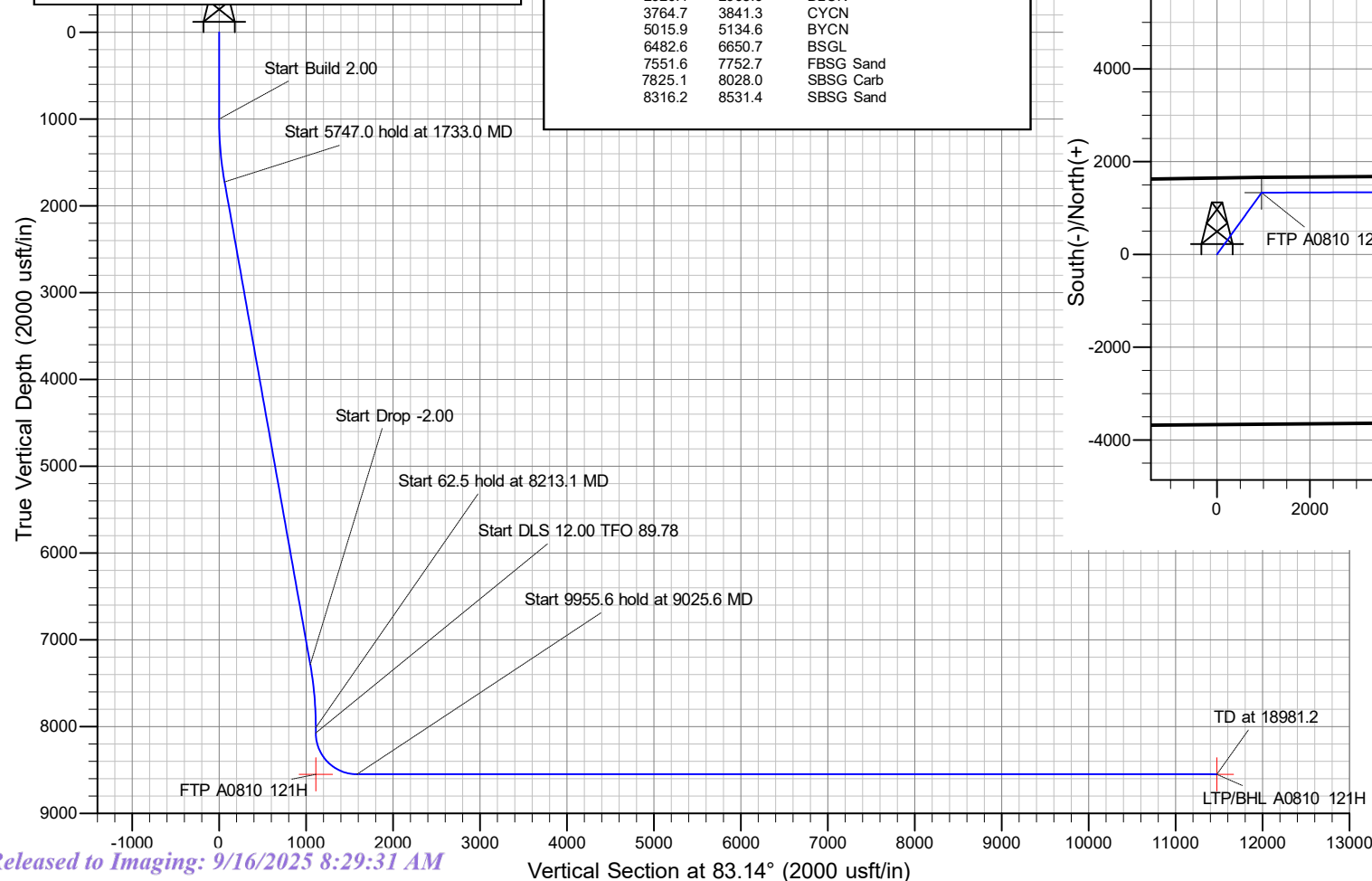
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.0	
1000.0	0.00	0.00	1000.0	0.0	0.0	0.0	Start Build 2.00
1733.0	14.66	35.80	1725.1	75.7	54.6	63.2	Start 5747.0 hold at 1733.0 MD
7480.0	14.66	35.80	7284.9	1255.4	905.3	1048.9	Start Drop -2.00
8213.1	0.00	0.00	8010.0	1331.1	959.9	1112.1	Start 62.5 hold at 8213.1 MD
8275.6	0.00	0.00	8072.5	1331.1	959.9	1112.1	Start DLS 12.00 TFO 89.78
9025.6	90.00	89.78	8550.0	1332.9	1437.3	1586.3	Start 9955.6 hold at 9025.6 MD
18981.2	90.00	89.78	8550.0	1371.3	11392.9	11475.1	TD at 18981.2

WELL DETAILS: ASTRODOG 0810 121H

Northing	Easting	Latitude	Longitude
481202.26	641244.09	32° 19' 20.938 N	104° 0' 35.659 W

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
304.8	304.8	RSLR
440.1	440.1	SLDO
2888.0	2935.1	LMAR
2920.4	2968.6	BLCN
3764.7	3841.3	CYCN
5015.9	5134.6	BYCN
6482.6	6650.7	BSSL
7551.6	7752.7	FBSG Sand
7825.1	8028.0	SBSG Carb
8316.2	8531.4	SBSG Sand



PERMIAN

R E S O U R C E S

NEW MEXICO

(SP) EDDY

ASTRODOG

ASTRODOG 0810 121H

OWB

PWP0

Anticollision Report

29 July, 2025

PERMIAN

RESOURCES

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well ASTRODOG 0810 121H
Project:	(SP) EDDY	TVD Reference:	KB @ 3014.0usft
Reference Site:	ASTRODOG	MD Reference:	KB @ 3014.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ASTRODOG 0810 121H	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	7/29/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	18,981.1	PWP0 (OWB)	MWD	OWSG_Rev2_ MWD - Standard	

Summary						
Site Name Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation	Warning
	Measured	Measured	Between	Between		
	Depth	Depth	Centres	Ellipses	Factor	
	(usft)	(usft)	(usft)	(usft)		
ASTRODOG						
ASTRODOG 0810 161H - OWB - PWP0	1,000.0	1,000.0	33.0	26.0	4.745	CC
ASTRODOG 0810 161H - OWB - PWP0	1,200.0	1,202.0	33.7	25.4	4.030	ES
ASTRODOG 0810 161H - OWB - PWP0	18,981.1	19,533.1	940.5	547.2	2.391	SF

Offset Design:	ASTRODOG - ASTRODOG 0810 161H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program:	0-MWD											Offset Well Error:	0.0 usft
Reference	Vertical	Offset	Vertical	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
0.0	0.0	0.0	0.0	0.0	0.0	-153.18	-29.4	-14.9	33.0				
100.0	100.0	100.0	100.0	0.3	0.3	-153.18	-29.4	-14.9	33.0	32.5	0.50	65.756	
200.0	200.0	200.0	200.0	0.6	0.6	-153.18	-29.4	-14.9	33.0	31.8	1.22	27.076	
300.0	300.0	300.0	300.0	1.0	1.0	-153.18	-29.4	-14.9	33.0	31.1	1.94	17.048	
400.0	400.0	400.0	400.0	1.3	1.3	-153.18	-29.4	-14.9	33.0	30.3	2.65	12.440	
500.0	500.0	500.0	500.0	1.7	1.7	-153.18	-29.4	-14.9	33.0	29.6	3.37	9.793	
600.0	600.0	600.0	600.0	2.0	2.0	-153.18	-29.4	-14.9	33.0	28.9	4.09	8.075	
700.0	700.0	700.0	700.0	2.4	2.4	-153.18	-29.4	-14.9	33.0	28.2	4.80	6.870	
800.0	800.0	800.0	800.0	2.8	2.8	-153.18	-29.4	-14.9	33.0	27.5	5.52	5.978	
900.0	900.0	900.0	900.0	3.1	3.1	-153.18	-29.4	-14.9	33.0	26.8	6.24	5.291	
1,000.0	1,000.0	1,000.0	1,000.0	3.5	3.5	-153.18	-29.4	-14.9	33.0	26.0	6.95	4.745	CC
1,100.0	1,100.0	1,101.0	1,101.0	3.8	3.8	170.06	-28.4	-13.4	33.2	25.5	7.67	4.326	
1,200.0	1,199.8	1,202.0	1,201.9	4.2	4.2	167.22	-25.3	-9.1	33.7	25.4	8.37	4.030	ES
1,300.0	1,299.5	1,303.0	1,302.4	4.6	4.6	162.72	-20.2	-1.8	34.9	25.8	9.08	3.841	
1,400.0	1,398.7	1,403.9	1,402.5	4.9	4.9	156.95	-13.0	8.3	36.7	27.0	9.79	3.755	
1,500.0	1,497.5	1,504.5	1,501.9	5.3	5.3	150.57	-4.0	21.2	39.7	29.2	10.52	3.776	
1,600.0	1,595.6	1,604.2	1,600.3	5.7	5.7	146.67	5.6	34.8	45.4	34.2	11.28	4.027	
1,700.0	1,693.1	1,703.9	1,698.5	6.1	6.1	145.79	15.2	48.3	54.1	42.1	12.05	4.493	
1,733.0	1,725.1	1,736.7	1,730.9	6.2	6.2	145.98	18.3	52.7	57.6	45.3	12.31	4.684	
1,800.0	1,789.8	1,803.3	1,796.5	6.5	6.5	146.55	24.7	61.8	65.1	52.3	12.82	5.076	
1,900.0	1,886.6	1,902.6	1,894.5	7.0	6.9	147.20	34.3	75.3	76.2	62.6	13.60	5.602	
2,000.0	1,983.3	2,002.0	1,992.5	7.4	7.3	147.68	43.8	88.8	87.3	72.9	14.39	6.068	
2,100.0	2,080.1	2,101.4	2,090.5	7.9	7.7	148.05	53.3	102.3	98.4	83.3	15.18	6.484	
2,200.0	2,176.8	2,200.8	2,188.5	8.4	8.1	148.35	62.9	115.8	109.6	93.6	15.98	6.856	

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 ASTRODOG 0810 121H
Project:	(SP) EDDY	TVD Reference:	KB @ 3014.0usft
Reference Site:	ASTRODOG	MD Reference:	KB @ 3014.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ASTRODOG 0810 121H	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: ASTRODOG - ASTRODOG 0810 161H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-MWD													Offset Well Error: 0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
2,300.0	2,273.6	2,300.1	2,286.5	8.9	8.5	148.59	72.4	129.3	120.7	103.9	16.79	7.190	
2,400.0	2,370.3	2,399.5	2,384.5	9.3	9.0	148.80	81.9	142.8	131.8	114.2	17.59	7.493	
2,500.0	2,467.1	2,498.9	2,482.5	9.8	9.4	148.97	91.5	156.3	143.0	124.6	18.41	7.767	
2,600.0	2,563.8	2,598.3	2,580.5	10.3	9.8	149.11	101.0	169.8	154.1	134.9	19.22	8.017	
2,700.0	2,660.5	2,697.7	2,678.5	10.8	10.2	149.24	110.5	183.3	165.2	145.2	20.04	8.245	
2,800.0	2,757.3	2,797.0	2,776.4	11.3	10.6	149.35	120.1	196.8	176.4	155.5	20.86	8.455	
2,900.0	2,854.0	2,896.4	2,874.4	11.8	11.1	149.45	129.6	210.2	187.5	165.8	21.68	8.648	
3,000.0	2,950.8	2,995.8	2,972.4	12.3	11.5	149.53	139.1	223.7	198.6	176.1	22.51	8.826	
3,100.0	3,047.5	3,095.2	3,070.4	12.9	11.9	149.61	148.7	237.2	209.8	186.4	23.33	8.990	
3,200.0	3,144.3	3,194.5	3,168.4	13.4	12.4	149.68	158.2	250.7	220.9	196.8	24.16	9.143	
3,300.0	3,241.0	3,293.9	3,266.4	13.9	12.8	149.74	167.8	264.2	232.0	207.1	24.99	9.286	
3,400.0	3,337.8	3,393.3	3,364.4	14.4	13.2	149.80	177.3	277.7	243.2	217.4	25.82	9.418	
3,500.0	3,434.5	3,492.7	3,462.4	14.9	13.6	149.85	186.8	291.2	254.3	227.7	26.65	9.543	
3,600.0	3,531.2	3,592.1	3,560.4	15.4	14.1	149.90	196.4	304.7	265.5	238.0	27.48	9.659	
3,700.0	3,628.0	3,691.4	3,658.4	16.0	14.5	149.94	205.9	318.2	276.6	248.3	28.32	9.768	
3,800.0	3,724.7	3,790.8	3,756.4	16.5	14.9	149.98	215.4	331.7	287.7	258.6	29.15	9.870	
3,900.0	3,821.5	3,890.2	3,854.4	17.0	15.4	150.02	225.0	345.2	298.9	268.9	29.99	9.967	
4,000.0	3,918.2	3,989.6	3,952.4	17.5	15.8	150.05	234.5	358.7	310.0	279.2	30.82	10.058	
4,100.0	4,015.0	4,088.9	4,050.4	18.0	16.2	150.09	244.0	372.2	321.2	289.5	31.66	10.144	
4,200.0	4,111.7	4,188.3	4,148.4	18.6	16.7	150.12	253.6	385.7	332.3	299.8	32.50	10.226	
4,300.0	4,208.5	4,287.7	4,246.4	19.1	17.1	150.14	263.1	399.2	343.4	310.1	33.33	10.303	
4,400.0	4,305.2	4,387.1	4,344.4	19.6	17.5	150.17	272.6	412.7	354.6	320.4	34.17	10.376	
4,500.0	4,401.9	4,486.4	4,442.3	20.1	18.0	150.20	282.2	426.2	365.7	330.7	35.01	10.446	
4,600.0	4,498.7	4,585.8	4,540.3	20.7	18.4	150.22	291.7	439.7	376.9	341.0	35.85	10.512	
4,700.0	4,595.4	4,685.2	4,638.3	21.2	18.8	150.24	301.3	453.2	388.0	351.3	36.69	10.575	
4,800.0	4,692.2	4,784.6	4,736.3	21.7	19.3	150.26	310.8	466.7	399.1	361.6	37.53	10.635	
4,900.0	4,788.9	4,884.0	4,834.3	22.2	19.7	150.28	320.3	480.2	410.3	371.9	38.37	10.692	
5,000.0	4,885.7	4,983.3	4,932.3	22.8	20.2	150.30	329.9	493.7	421.4	382.2	39.21	10.747	
5,100.0	4,982.4	5,082.7	5,030.3	23.3	20.6	150.32	339.4	507.2	432.6	392.5	40.05	10.800	
5,200.0	5,079.1	5,182.1	5,128.3	23.8	21.0	150.33	348.9	520.7	443.7	402.8	40.89	10.850	
5,300.0	5,175.9	5,281.5	5,226.3	24.3	21.5	150.35	358.5	534.2	454.8	413.1	41.73	10.898	
5,400.0	5,272.6	5,380.8	5,324.3	24.9	21.9	150.37	368.0	547.7	466.0	423.4	42.58	10.944	
5,500.0	5,369.4	5,480.2	5,422.3	25.4	22.3	150.38	377.5	561.2	477.1	433.7	43.42	10.989	
5,600.0	5,466.1	5,579.6	5,520.3	25.9	22.8	150.39	387.1	574.7	488.2	444.0	44.26	11.031	
5,700.0	5,562.9	5,679.0	5,618.3	26.4	23.2	150.41	396.6	588.2	499.4	454.3	45.10	11.072	
5,800.0	5,659.6	5,778.4	5,716.3	27.0	23.6	150.42	406.1	601.7	510.5	464.6	45.95	11.111	
5,900.0	5,756.4	5,877.7	5,814.3	27.5	24.1	150.43	415.7	615.2	521.7	474.9	46.79	11.149	
6,000.0	5,853.1	5,977.1	5,912.3	28.0	24.5	150.44	425.2	628.7	532.8	485.2	47.63	11.186	
6,100.0	5,949.8	6,076.5	6,010.2	28.6	25.0	150.45	434.8	642.2	543.9	495.5	48.48	11.221	
6,200.0	6,046.6	6,175.9	6,108.2	29.1	25.4	150.46	444.3	655.7	555.1	505.8	49.32	11.255	
6,300.0	6,143.3	6,275.2	6,206.2	29.6	25.8	150.47	453.8	669.2	566.2	516.1	50.16	11.287	
6,400.0	6,240.1	6,374.6	6,304.2	30.1	26.3	150.48	463.4	682.7	577.4	526.4	51.01	11.319	
6,500.0	6,336.8	6,474.0	6,402.2	30.7	26.7	150.49	472.9	696.1	588.5	536.7	51.85	11.350	
6,600.0	6,433.6	6,573.4	6,500.2	31.2	27.1	150.50	482.4	709.6	599.6	547.0	52.70	11.379	
6,700.0	6,530.3	6,672.8	6,598.2	31.7	27.6	150.51	492.0	723.1	610.8	557.2	53.54	11.408	
6,800.0	6,627.1	6,772.1	6,696.2	32.3	28.0	150.52	501.5	736.6	621.9	567.5	54.39	11.436	
6,900.0	6,723.8	6,871.5	6,794.2	32.8	28.5	150.53	511.0	750.1	633.1	577.8	55.23	11.462	
7,000.0	6,820.5	6,970.9	6,892.2	33.3	28.9	150.54	520.6	763.6	644.2	588.1	56.08	11.488	
7,100.0	6,917.3	7,070.3	6,990.2	33.9	29.3	150.54	530.1	777.1	655.3	598.4	56.92	11.513	
7,200.0	7,014.0	7,169.6	7,088.2	34.4	29.8	150.55	539.6	790.6	666.5	608.7	57.77	11.538	
7,300.0	7,110.8	7,269.0	7,186.2	34.9	30.2	150.56	549.2	804.1	677.6	619.0	58.61	11.562	
7,400.0	7,207.5	7,368.4	7,284.2	35.4	30.6	150.57	558.7	817.6	688.8	629.3	59.46	11.585	

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 ASTRODOG 0810 121H
Project:	(SP) EDDY	TVD Reference:	KB @ 3014.0usft
Reference Site:	ASTRODOG	MD Reference:	KB @ 3014.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ASTRODOG 0810 121H	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: ASTRODOG - ASTRODOG 0810 161H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Highside	Distance				Rule Assigned:					Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
7,480.0	7,284.9	7,447.9	7,362.6	35.9	31.0	150.57	566.3	828.4	697.7	637.6	60.13	11.602	
7,500.0	7,304.3	7,467.8	7,382.2	36.0	31.1	150.59	568.3	831.1	699.8	639.5	60.30	11.606	
7,600.0	7,401.6	7,567.4	7,480.4	36.5	31.5	150.59	577.8	844.6	708.9	647.7	61.15	11.592	
7,700.0	7,499.7	7,667.1	7,578.7	37.0	32.0	150.42	587.4	858.2	714.9	652.9	62.02	11.527	
7,800.0	7,598.4	7,767.0	7,677.2	37.4	32.4	150.09	597.0	871.8	717.9	655.0	62.89	11.415	
7,900.0	7,697.6	7,866.8	7,775.6	37.8	32.8	149.59	606.5	885.3	717.9	654.1	63.77	11.258	
8,000.0	7,797.1	7,966.4	7,873.9	38.1	33.3	148.92	616.1	898.8	714.9	650.3	64.65	11.058	
8,100.0	7,897.0	8,065.8	7,971.8	38.5	33.7	148.07	625.6	912.3	709.1	643.6	65.55	10.817	
8,200.0	7,996.9	8,164.7	8,069.4	38.7	34.2	147.02	635.1	925.8	700.5	634.1	66.46	10.540	
8,213.1	8,010.0	8,177.6	8,082.1	38.8	34.2	-177.33	636.4	927.5	699.2	632.6	66.58	10.501	
8,275.6	8,072.5	8,239.2	8,142.8	38.9	34.5	-178.01	642.3	935.9	692.8	625.6	67.16	10.316	
8,300.0	8,096.9	8,263.4	8,166.7	39.0	34.6	92.30	644.6	939.2	690.3	623.0	67.37	10.246	
8,325.0	8,121.9	8,288.2	8,191.2	39.1	34.7	92.48	647.0	942.5	687.9	620.3	67.59	10.178	
8,350.0	8,146.6	8,311.5	8,214.2	39.2	34.8	92.76	649.2	945.7	685.5	617.7	67.77	10.115	
8,375.0	8,171.2	8,333.2	8,235.6	39.2	34.9	93.12	651.2	948.5	683.3	615.4	67.94	10.058	
8,400.0	8,195.5	8,354.9	8,257.0	39.3	35.0	93.57	653.1	951.2	681.3	613.2	68.08	10.007	
8,425.0	8,219.5	8,376.3	8,278.2	39.5	35.1	94.10	654.9	953.7	679.5	611.3	68.21	9.962	
8,450.0	8,243.1	8,400.0	8,301.7	39.6	35.2	94.75	656.7	956.3	677.9	609.6	68.34	9.920	
8,475.0	8,266.2	8,418.3	8,319.8	39.7	35.3	95.36	658.1	958.3	676.6	608.2	68.41	9.891	
8,500.0	8,288.8	8,438.7	8,340.1	39.8	35.3	96.06	659.5	960.3	675.7	607.2	68.48	9.867	
8,525.0	8,310.7	8,458.7	8,359.9	40.0	35.4	96.80	660.8	962.2	675.1	606.5	68.53	9.851	
8,547.2	8,329.7	8,475.9	8,377.0	40.1	35.5	97.47	661.9	963.7	674.9	606.3	68.55	9.844	
8,550.0	8,332.1	8,478.0	8,379.1	40.1	35.5	97.56	662.1	963.9	674.9	606.3	68.56	9.844	
8,575.0	8,352.7	8,500.0	8,401.0	40.2	35.6	98.46	663.3	965.7	675.2	606.6	68.60	9.843	
8,600.0	8,372.5	8,514.8	8,415.7	40.4	35.6	99.05	664.2	966.9	676.0	607.5	68.56	9.860	
8,625.0	8,391.6	8,532.1	8,432.9	40.6	35.7	99.74	665.0	968.1	677.4	608.9	68.53	9.885	
8,650.0	8,409.7	8,548.5	8,449.3	40.7	35.8	100.38	665.8	969.2	679.5	611.0	68.49	9.922	
8,675.0	8,427.0	8,564.1	8,464.9	40.9	35.8	100.95	666.5	970.2	682.3	613.9	68.43	9.971	
8,700.0	8,443.2	8,578.8	8,479.6	41.1	35.9	101.41	667.1	971.1	685.8	617.5	68.35	10.034	
8,725.0	8,458.4	8,600.0	8,500.7	41.3	35.9	102.25	668.0	972.3	690.2	621.8	68.34	10.099	
8,750.0	8,472.6	8,600.0	8,500.7	41.5	35.9	101.63	668.0	972.3	695.3	627.2	68.10	10.210	
8,775.0	8,485.7	8,617.2	8,517.8	41.7	36.0	102.08	668.5	973.1	701.3	633.3	68.05	10.305	
8,800.0	8,497.7	8,627.9	8,528.6	41.9	36.0	102.01	668.9	973.6	708.2	640.3	67.93	10.425	
8,825.0	8,508.5	8,637.7	8,538.3	42.1	36.1	101.76	669.2	974.0	716.0	648.2	67.81	10.558	
8,850.0	8,518.1	8,646.3	8,546.9	42.3	36.1	101.33	669.4	974.3	724.6	657.0	67.68	10.706	
8,875.0	8,526.4	8,653.9	8,554.5	42.6	36.1	100.70	669.6	974.6	734.2	666.6	67.56	10.868	
8,900.0	8,533.6	8,660.4	8,560.9	42.8	36.1	99.87	669.8	974.8	744.6	677.1	67.43	11.043	
8,925.0	8,539.4	8,665.8	8,566.4	43.1	36.2	98.83	669.9	975.0	755.8	688.5	67.30	11.231	
8,950.0	8,544.0	8,670.1	8,570.7	43.3	36.2	97.56	670.0	975.1	767.8	700.6	67.17	11.430	
8,975.0	8,547.3	8,673.3	8,573.9	43.6	36.2	96.07	670.1	975.2	780.6	713.5	67.05	11.642	
9,000.0	8,549.3	8,675.5	8,576.1	43.8	36.2	94.35	670.1	975.3	794.0	727.1	66.93	11.863	
9,025.6	8,550.0	8,676.7	8,577.2	44.1	36.2	92.36	670.1	975.3	808.4	741.6	66.81	12.100	
9,100.0	8,550.0	8,678.4	8,578.9	45.0	36.2	92.51	670.2	975.4	853.3	786.8	66.52	12.829	
9,200.0	8,550.0	8,680.5	8,581.1	46.2	36.2	92.70	670.2	975.4	919.8	853.5	66.25	13.882	
9,300.0	8,550.0	9,852.0	9,220.0	47.5	46.0	135.43	674.0	1,714.3	940.4	868.6	71.84	13.091	
9,400.0	8,550.0	9,952.0	9,220.0	48.8	47.5	135.43	674.4	1,814.3	940.4	866.4	74.04	12.701	
9,500.0	8,550.0	10,052.0	9,220.0	50.3	49.0	135.43	674.8	1,914.3	940.4	864.1	76.36	12.316	
9,600.0	8,550.0	10,152.0	9,220.0	51.8	50.7	135.43	675.2	2,014.3	940.4	861.7	78.76	11.940	
9,700.0	8,550.0	10,252.0	9,220.0	53.4	52.3	135.43	675.6	2,114.3	940.4	859.2	81.25	11.574	
9,800.0	8,550.0	10,352.0	9,220.0	55.1	54.1	135.43	676.0	2,214.3	940.4	856.6	83.82	11.219	
9,900.0	8,550.0	10,452.0	9,220.0	56.8	55.8	135.43	676.3	2,314.3	940.4	854.0	86.47	10.876	
10,000.0	8,550.0	10,552.0	9,220.0	58.6	57.7	135.43	676.7	2,414.3	940.4	851.3	89.17	10.546	

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 ASTRODOG 0810 121H
Project:	(SP) EDDY	TVD Reference:	KB @ 3014.0usft
Reference Site:	ASTRODOG	MD Reference:	KB @ 3014.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ASTRODOG 0810 121H	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: ASTRODOG - ASTRODOG 0810 161H - 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	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,100.0	8,550.0	10,652.0	9,220.0	60.4	59.5	135.43	677.1	2,514.3	940.4	848.5	91.94	10.229	
10,200.0	8,550.0	10,752.0	9,220.0	62.3	61.4	135.43	677.5	2,614.3	940.4	845.7	94.76	9.925	
10,300.0	8,550.0	10,852.0	9,220.0	64.2	63.4	135.43	677.9	2,714.3	940.4	842.8	97.62	9.633	
10,400.0	8,550.0	10,952.0	9,220.0	66.1	65.4	135.43	678.3	2,814.3	940.4	839.9	100.54	9.354	
10,500.0	8,550.0	11,052.0	9,220.0	68.1	67.4	135.43	678.6	2,914.3	940.4	837.0	103.49	9.087	
10,600.0	8,550.0	11,152.0	9,220.0	70.1	69.4	135.43	679.0	3,014.3	940.4	834.0	106.48	8.832	
10,700.0	8,550.0	11,252.0	9,220.0	72.1	71.4	135.43	679.4	3,114.3	940.4	830.9	109.51	8.588	
10,800.0	8,550.0	11,352.0	9,220.0	74.1	73.5	135.43	679.8	3,214.3	940.4	827.9	112.57	8.354	
10,900.0	8,550.0	11,452.0	9,220.0	76.2	75.6	135.43	680.2	3,314.3	940.4	824.8	115.66	8.131	
11,000.0	8,550.0	11,552.0	9,220.0	78.3	77.7	135.43	680.6	3,414.3	940.4	821.7	118.78	7.918	
11,100.0	8,550.0	11,652.0	9,220.0	80.4	79.8	135.43	681.0	3,514.3	940.4	818.5	121.92	7.714	
11,200.0	8,550.0	11,752.0	9,220.0	82.5	82.0	135.43	681.3	3,614.3	940.4	815.4	125.08	7.519	
11,300.0	8,550.0	11,852.0	9,220.0	84.7	84.2	135.43	681.7	3,714.3	940.4	812.2	128.27	7.332	
11,400.0	8,550.0	11,952.0	9,220.0	86.8	86.3	135.43	682.1	3,814.3	940.4	809.0	131.47	7.153	
11,500.0	8,550.0	12,052.0	9,220.0	89.0	88.5	135.43	682.5	3,914.3	940.4	805.8	134.69	6.982	
11,600.0	8,550.0	12,152.0	9,220.0	91.2	90.7	135.43	682.9	4,014.3	940.4	802.5	137.94	6.818	
11,700.0	8,550.0	12,252.0	9,220.0	93.4	92.9	135.43	683.3	4,114.3	940.5	799.3	141.19	6.661	
11,800.0	8,550.0	12,352.0	9,220.0	95.6	95.1	135.43	683.6	4,214.3	940.5	796.0	144.46	6.510	
11,900.0	8,550.0	12,452.0	9,220.0	97.8	97.4	135.43	684.0	4,314.3	940.5	792.7	147.75	6.365	
12,000.0	8,550.0	12,552.0	9,220.0	100.0	99.6	135.43	684.4	4,414.3	940.5	789.4	151.05	6.226	
12,100.0	8,550.0	12,652.0	9,220.0	102.2	101.8	135.43	684.8	4,514.3	940.5	786.1	154.36	6.093	
12,200.0	8,550.0	12,752.0	9,220.0	104.5	104.1	135.43	685.2	4,614.3	940.5	782.8	157.68	5.964	
12,300.0	8,550.0	12,852.0	9,220.0	106.7	106.4	135.43	685.6	4,714.3	940.5	779.4	161.01	5.841	
12,400.0	8,550.0	12,952.0	9,220.0	109.0	108.6	135.43	686.0	4,814.3	940.5	776.1	164.36	5.722	
12,500.0	8,550.0	13,052.0	9,220.0	111.2	110.9	135.43	686.3	4,914.3	940.5	772.7	167.71	5.608	
12,600.0	8,550.0	13,152.0	9,220.0	113.5	113.2	135.43	686.7	5,014.3	940.5	769.4	171.07	5.497	
12,700.0	8,550.0	13,252.0	9,220.0	115.8	115.5	135.43	687.1	5,114.3	940.5	766.0	174.44	5.391	
12,800.0	8,550.0	13,352.0	9,220.0	118.1	117.7	135.43	687.5	5,214.3	940.5	762.6	177.82	5.289	
12,900.0	8,550.0	13,452.0	9,220.0	120.4	120.0	135.43	687.9	5,314.3	940.5	759.3	181.20	5.190	
13,000.0	8,550.0	13,552.0	9,220.0	122.6	122.3	135.43	688.3	5,414.3	940.5	755.9	184.59	5.095	
13,100.0	8,550.0	13,652.0	9,220.0	124.9	124.6	135.43	688.6	5,514.3	940.5	752.5	187.99	5.003	
13,200.0	8,550.0	13,752.0	9,220.0	127.2	126.9	135.43	689.0	5,614.3	940.5	749.1	191.40	4.914	
13,300.0	8,550.0	13,852.0	9,220.0	129.5	129.3	135.43	689.4	5,714.3	940.5	745.7	194.81	4.828	
13,400.0	8,550.0	13,952.0	9,220.0	131.9	131.6	135.43	689.8	5,814.3	940.5	742.2	198.23	4.744	
13,500.0	8,550.0	14,052.0	9,220.0	134.2	133.9	135.43	690.2	5,914.3	940.5	738.8	201.65	4.664	
13,600.0	8,550.0	14,152.0	9,220.0	136.5	136.2	135.43	690.6	6,014.3	940.5	735.4	205.08	4.586	
13,700.0	8,550.0	14,252.0	9,220.0	138.8	138.5	135.43	691.0	6,114.3	940.5	732.0	208.51	4.510	
13,800.0	8,550.0	14,352.0	9,220.0	141.1	140.9	135.43	691.3	6,214.3	940.5	728.5	211.94	4.437	
13,900.0	8,550.0	14,452.0	9,220.0	143.4	143.2	135.43	691.7	6,314.3	940.5	725.1	215.38	4.366	
14,000.0	8,550.0	14,552.0	9,220.0	145.8	145.5	135.43	692.1	6,414.3	940.5	721.6	218.83	4.298	
14,100.0	8,550.0	14,652.0	9,220.0	148.1	147.9	135.43	692.5	6,514.3	940.5	718.2	222.28	4.231	
14,200.0	8,550.0	14,752.0	9,220.0	150.4	150.2	135.43	692.9	6,614.3	940.5	714.7	225.73	4.166	
14,300.0	8,550.0	14,852.0	9,220.0	152.8	152.5	135.43	693.3	6,714.3	940.5	711.3	229.19	4.103	
14,400.0	8,550.0	14,952.0	9,220.0	155.1	154.9	135.43	693.6	6,814.3	940.5	707.8	232.65	4.042	
14,500.0	8,550.0	15,052.0	9,220.0	157.4	157.2	135.43	694.0	6,914.3	940.5	704.4	236.11	3.983	
14,600.0	8,550.0	15,152.0	9,220.0	159.8	159.6	135.43	694.4	7,014.3	940.5	700.9	239.58	3.925	
14,700.0	8,550.0	15,252.0	9,220.0	162.1	161.9	135.43	694.8	7,114.3	940.5	697.4	243.05	3.869	
14,800.0	8,550.0	15,352.0	9,220.0	164.5	164.3	135.43	695.2	7,214.3	940.5	693.9	246.52	3.815	
14,900.0	8,550.0	15,452.0	9,220.0	166.8	166.6	135.43	695.6	7,314.3	940.5	690.5	250.00	3.762	
15,000.0	8,550.0	15,552.0	9,220.0	169.2	169.0	135.43	696.0	7,414.3	940.5	687.0	253.48	3.710	
15,100.0	8,550.0	15,652.0	9,220.0	171.5	171.3	135.43	696.3	7,514.3	940.5	683.5	256.96	3.660	
15,200.0	8,550.0	15,752.0	9,220.0	173.9	173.7	135.43	696.7	7,614.3	940.5	680.0	260.44	3.611	

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 ASTRODOG 0810 121H
Project:	(SP) EDDY	TVD Reference:	KB @ 3014.0usft
Reference Site:	ASTRODOG	MD Reference:	KB @ 3014.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ASTRODOG 0810 121H	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: ASTRODOG - ASTRODOG 0810 161H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,300.0	8,550.0	15,852.0	9,220.0	176.2	176.0	135.43	697.1	7,714.3	940.5	676.5	263.92	3.563	
15,400.0	8,550.0	15,952.0	9,220.0	178.6	178.4	135.43	697.5	7,814.3	940.5	673.1	267.41	3.517	
15,500.0	8,550.0	16,052.0	9,220.0	181.0	180.8	135.43	697.9	7,914.3	940.5	669.6	270.90	3.472	
15,600.0	8,550.0	16,152.0	9,220.0	183.3	183.1	135.43	698.3	8,014.3	940.5	666.1	274.39	3.427	
15,700.0	8,550.0	16,252.0	9,220.0	185.7	185.5	135.43	698.6	8,114.3	940.5	662.6	277.89	3.384	
15,800.0	8,550.0	16,352.0	9,220.0	188.0	187.8	135.43	699.0	8,214.3	940.5	659.1	281.39	3.342	
15,900.0	8,550.0	16,452.0	9,220.0	190.4	190.2	135.43	699.4	8,314.3	940.5	655.6	284.88	3.301	
16,000.0	8,550.0	16,552.0	9,220.0	192.8	192.6	135.43	699.8	8,414.3	940.5	652.1	288.38	3.261	
16,100.0	8,550.0	16,652.0	9,220.0	195.1	194.9	135.43	700.2	8,514.3	940.5	648.6	291.88	3.222	
16,200.0	8,550.0	16,752.0	9,220.0	197.5	197.3	135.43	700.6	8,614.3	940.5	645.1	295.39	3.184	
16,300.0	8,550.0	16,852.0	9,220.0	199.9	199.7	135.43	700.9	8,714.3	940.5	641.6	298.89	3.147	
16,400.0	8,550.0	16,952.0	9,220.0	202.2	202.1	135.43	701.3	8,814.3	940.5	638.1	302.40	3.110	
16,500.0	8,550.0	17,052.0	9,220.0	204.6	204.4	135.43	701.7	8,914.3	940.5	634.6	305.91	3.074	
16,600.0	8,550.0	17,152.0	9,220.0	207.0	206.8	135.43	702.1	9,014.3	940.5	631.1	309.42	3.040	
16,700.0	8,550.0	17,252.0	9,220.0	209.3	209.2	135.43	702.5	9,114.3	940.5	627.6	312.93	3.005	
16,800.0	8,550.0	17,352.0	9,220.0	211.7	211.6	135.43	702.9	9,214.3	940.5	624.0	316.44	2.972	
16,900.0	8,550.0	17,452.0	9,220.0	214.1	213.9	135.43	703.3	9,314.3	940.5	620.5	319.95	2.939	
17,000.0	8,550.0	17,552.0	9,220.0	216.5	216.3	135.43	703.6	9,414.3	940.5	617.0	323.47	2.908	
17,100.0	8,550.0	17,652.0	9,220.0	218.8	218.7	135.43	704.0	9,514.3	940.5	613.5	326.98	2.876	
17,200.0	8,550.0	17,752.0	9,220.0	221.2	221.1	135.43	704.4	9,614.3	940.5	610.0	330.50	2.846	
17,300.0	8,550.0	17,852.0	9,220.0	223.6	223.4	135.43	704.8	9,714.3	940.5	606.5	334.02	2.816	
17,400.0	8,550.0	17,952.0	9,220.0	226.0	225.8	135.43	705.2	9,814.3	940.5	602.9	337.54	2.786	
17,500.0	8,550.0	18,052.0	9,220.0	228.4	228.2	135.43	705.6	9,914.3	940.5	599.4	341.06	2.758	
17,600.0	8,550.0	18,152.0	9,220.0	230.7	230.6	135.43	705.9	10,014.3	940.5	595.9	344.58	2.729	
17,700.0	8,550.0	18,252.0	9,220.0	233.1	233.0	135.43	706.3	10,114.3	940.5	592.4	348.10	2.702	
17,800.0	8,550.0	18,352.0	9,220.0	235.5	235.3	135.43	706.7	10,214.3	940.5	588.9	351.63	2.675	
17,900.0	8,550.0	18,452.0	9,220.0	237.9	237.7	135.43	707.1	10,314.3	940.5	585.3	355.15	2.648	
18,000.0	8,550.0	18,552.0	9,220.0	240.3	240.1	135.43	707.5	10,414.3	940.5	581.8	358.68	2.622	
18,100.0	8,550.0	18,652.0	9,220.0	242.6	242.5	135.43	707.9	10,514.3	940.5	578.3	362.21	2.597	
18,200.0	8,550.0	18,752.0	9,220.0	245.0	244.9	135.43	708.3	10,614.3	940.5	574.8	365.73	2.572	
18,300.0	8,550.0	18,852.0	9,220.0	247.4	247.3	135.43	708.6	10,714.3	940.5	571.2	369.26	2.547	
18,400.0	8,550.0	18,952.0	9,220.0	249.8	249.6	135.43	709.0	10,814.2	940.5	567.7	372.79	2.523	
18,500.0	8,550.0	19,052.0	9,220.0	252.2	252.0	135.43	709.4	10,914.2	940.5	564.2	376.32	2.499	
18,600.0	8,550.0	19,152.0	9,220.0	254.6	254.4	135.43	709.8	11,014.2	940.5	560.6	379.85	2.476	
18,700.0	8,550.0	19,252.0	9,220.0	256.9	256.8	135.43	710.2	11,114.2	940.5	557.1	383.38	2.453	
18,800.0	8,550.0	19,352.0	9,220.0	259.3	259.2	135.43	710.6	11,214.2	940.5	553.6	386.91	2.431	
18,900.0	8,550.0	19,452.0	9,220.0	261.7	261.6	135.43	710.9	11,314.2	940.5	550.0	390.45	2.409	
18,981.1	8,550.0	19,533.1	9,220.0	263.7	263.5	135.43	711.3	11,395.4	940.5	547.2	393.32	2.391 SF	

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 ASTRODOG 0810 121H
Project:	(SP) EDDY	TVD Reference:	KB @ 3014.0usft
Reference Site:	ASTRODOG	MD Reference:	KB @ 3014.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ASTRODOG 0810 121H	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 @ 3014.0usft

Offset Depths are relative to Offset Datum

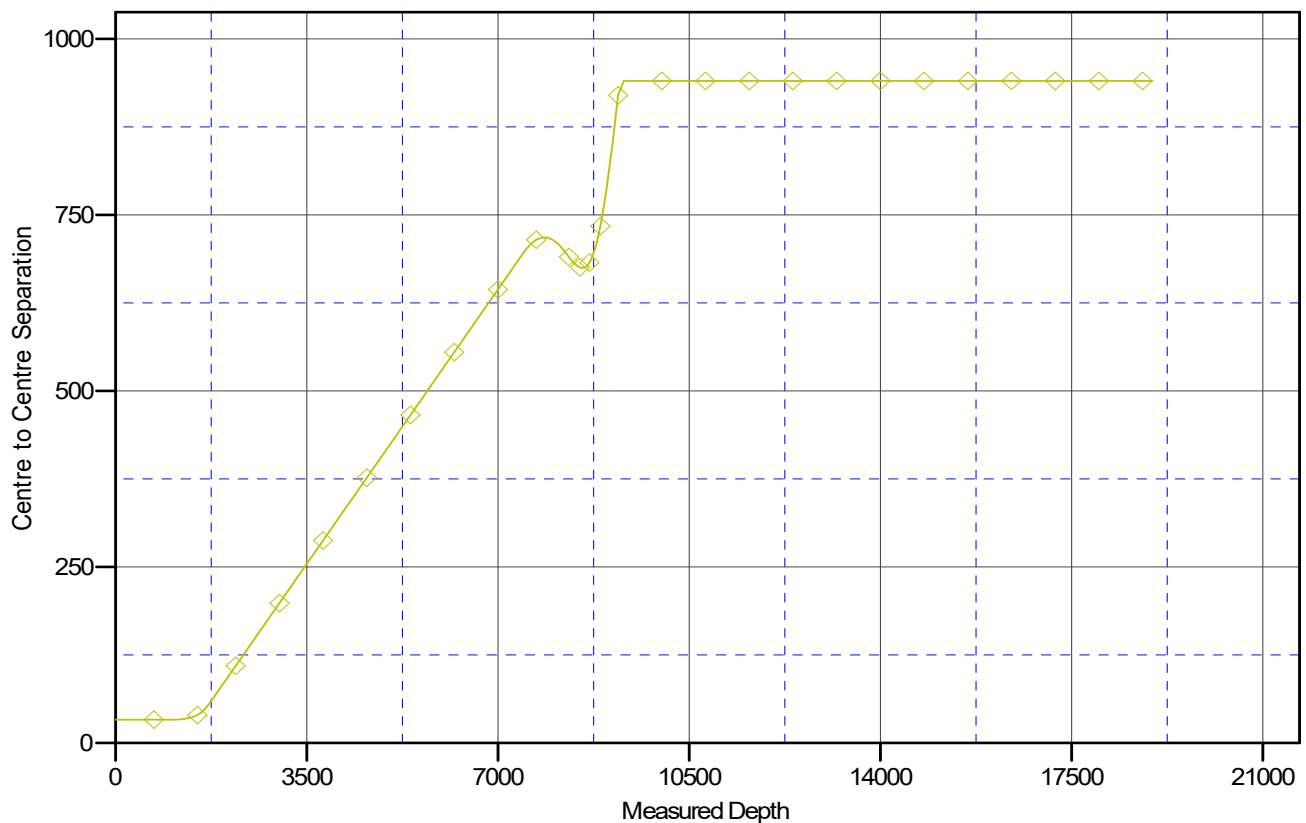
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ASTRODOG 0810 121H

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

Grid Convergence at Surface is: 0.17°

Ladder Plot



LEGEND

—◆— ASTRODOG0810 161H,OWB,PWP0 V0

PERMIAN

RESOURCES

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well ASTRODOG 0810 121H
Project:	(SP) EDDY	TVD Reference:	KB @ 3014.0usft
Reference Site:	ASTRODOG	MD Reference:	KB @ 3014.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ASTRODOG 0810 121H	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 @ 3014.0usft

Offset Depths are relative to Offset Datum

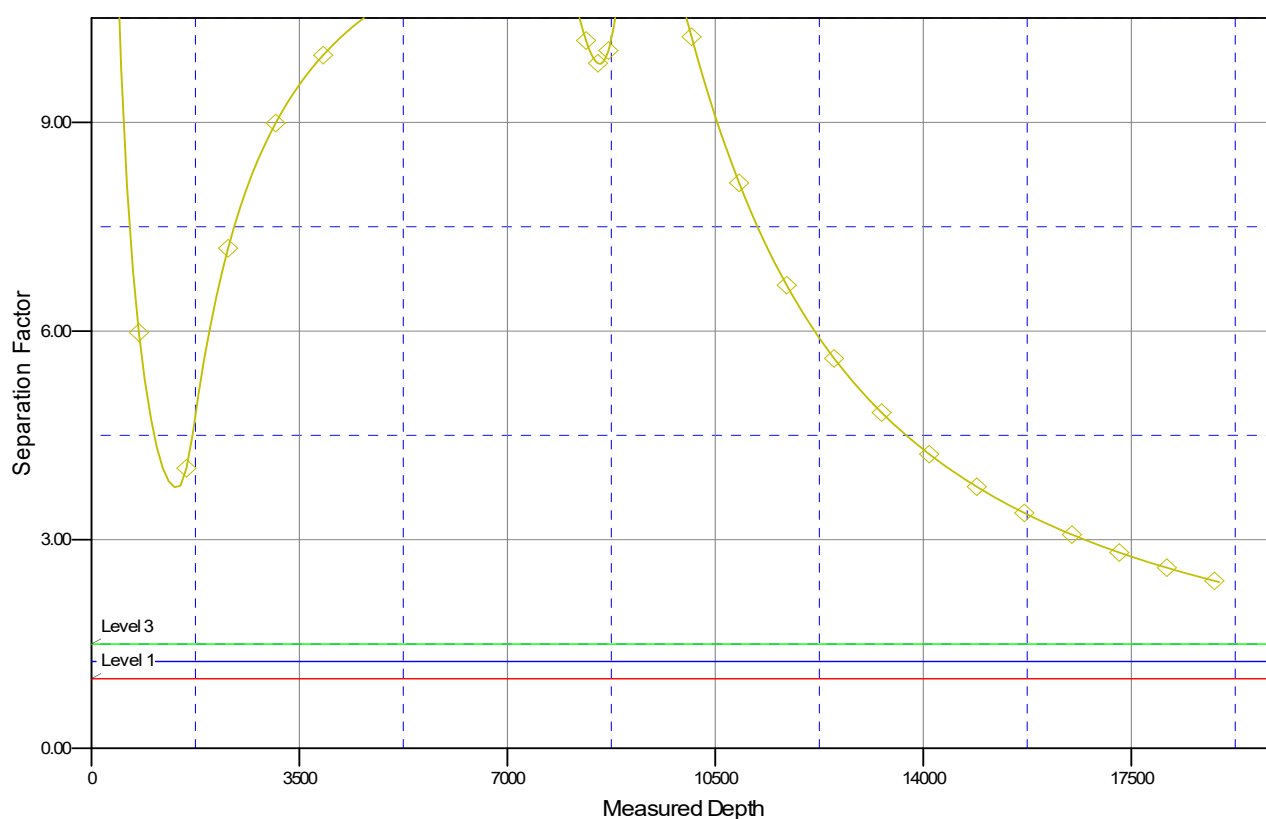
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ASTRODOG 0810 121H

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

Grid Convergence at Surface is: 0.17°

Separation Factor Plot



LEGEND

ASTRODOG0810 161H.OWB/PWP0.V0

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 491966

CONDITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 491966
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.	9/16/2025
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	9/16/2025