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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. 30-015-56082
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 : 1689 feet from the North line and 1742 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 #161H
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: ☐	
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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# 30-015-56082

SHL Change:
From: 1689' FNL, 1742' FWL, Sec. 8, T23S, R29E
To: 1676' FNL, 1749' FWL, Sec. 8, T23S, R29E

Change TD/MD From: 9,220'TVD, 19, 538'MD
Change TD/MD To: 9,220'TVD, 19,536'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 30-015-56082	Pool Code 15011	Pool Name CULEBRA BLUFF; BONE SPRING, SOUTH
Property Code 336880	Property Name ASTRODOG 0810	Well Number 161H
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 1,676' FNL	Ft. from E/W 1,749' FWL	Latitude 32.322402°	Longitude -104.009954°	County EDDY
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Bottom Hole Location

UL C	Section 10	Township 23S	Range 29E	Lot	Ft. from N/S 990' FNL	Ft. from E/W 2,552' FWL	Latitude 32.324338°	Longitude -103.972998°	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 1,676' FNL	Ft. from E/W 1,749' FWL	Latitude 32.322402°	Longitude -104.009954°	County EDDY
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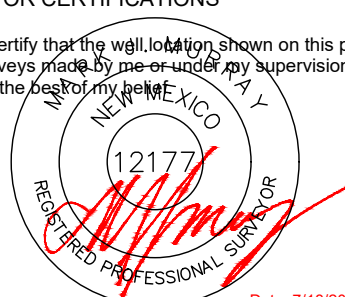
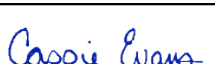
First Take Point (FTP)

UL B	Section 8	Township 23S	Range 29E	Lot	Ft. from N/S 990' FNL	Ft. from E/W 2,554' FEL	Latitude 32.324320°	Longitude -104.006736°	County EDDY
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Last Take Point (LTP)

UL C	Section 10	Township 23S	Range 29E	Lot	Ft. from N/S 990' FNL	Ft. from E/W 2,552' FWL	Latitude 32.324338°	Longitude -103.972998°	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.

Plan view of the proposed 100' wide FEE. The diagram shows the alignment of the FTP (Future Throughway Path) and LTP (Long-Term Path) across three sections: SECTION 8, SECTION 9, and SECTION 10. The FTP is shown as a solid red line, and the LTP is shown as a dashed blue line. The distance between the FTP and LTP is 10,421.76'. The diagram includes stationing markers (A through E) and section markers (J through F). The width of the FEE is 100'. The diagram also shows the NMNM (National Map of the United States) and the SHL/KOP (State Highway Line/Key of Plan) with an elevation of 2,984'. The diagram includes a grid with horizontal and vertical lines, and a scale bar indicating 1 inch equals 100 feet.

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 161H

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	-2022	5036	No
Bone Spring Lime	Limestone	-3489	6503	No
1st Bone Spring Sand	Sandstone/Limestone/Shale	-4558	7572	No
2nd Bone Spring Carb	Sandstone/Limestone/Shale	-4831	7845	No
3rd Bone Spring Sand	Sandstone/Limestone/Shale	-5322	8336	No
3rd Bone Spring Carb	Sandstone/Limestone/Shale	-5669	8683	Yes
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	1.09	3.45	Dry	3.97	Dry	3.96
Production	8.75	5.5	0	2585	0	9220	2585	P110RY	20	Bushmaster SP	1.71	2.19	Dry	2.73	Dry	2.73
Production	8.75	5.5	2585	19536	9220	9220	16951	P110RY	20	Bushmaster SP	1.71	2.19	Dry	2.73	Dry	2.73
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	8492	690	3.29	10.7	2270	40%	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder
Production	Tail	8492	19536	2020	1.73	12.5	3490	25%	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder

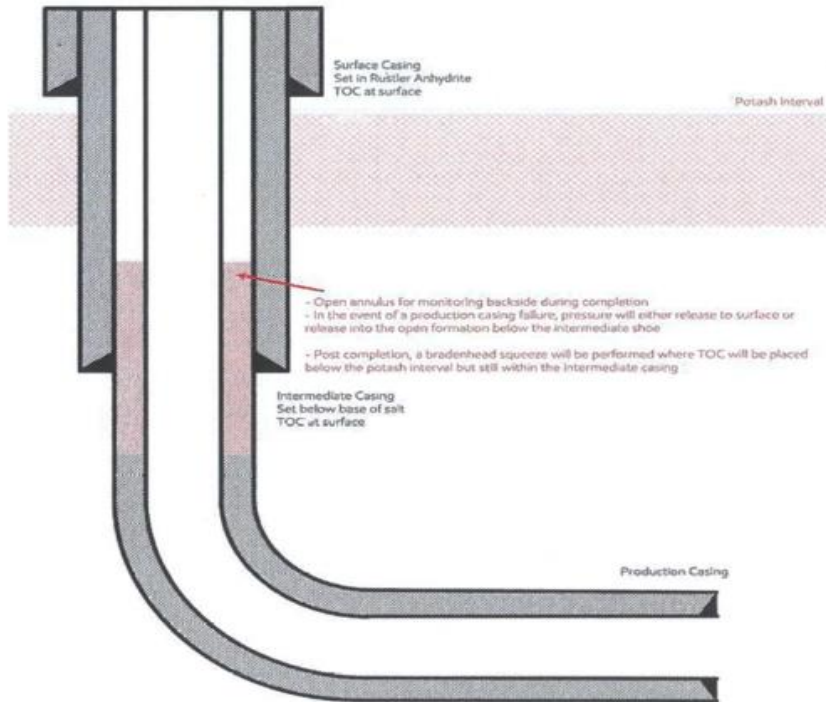
R-111-Q Requirements**3-String Design, Open Production Casing Annulus Procedure Description**

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: 9700 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	6480	psi
Anticipated Surface Pressure	4444	psi
Anticipated Bottom Hole Temperature	148	°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 161H

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 161H
Company:	NEW MEXICO	TVD Reference:	KB @ 3014.0usft
Project:	(SP) EDDY	MD Reference:	KB @ 3014.0usft
Site:	ASTRODOG	North Reference:	Grid
Well:	ASTRODOG 0810 161H	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
From:	Map	Easting:	638,403.69 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 19' 10.887 N
		Longitude:	104° 0' 8.796 W

Well	ASTRODOG 0810 161H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
Grid Convergence:	0.17 °	Latitude:	32° 19' 20.647 N
		Longitude:	104° 0' 35.833 W
		Ground Level:	2,984.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF200510	12/31/2009	7.96	60.26	48,806.74737922

Design	PWP0			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	86.29

Plan Survey Tool Program	Date	7/29/2025		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.0	19,536.2 PWP0 (OWB)	MWD	
			OWSG_Rev2_ MWD - Standal	

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
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	
1,478.6	9.57	54.76	1,476.4	23.0	32.6	2.00	2.00	0.00	54.76	
8,300.8	9.57	54.76	8,203.6	677.6	959.2	0.00	0.00	0.00	0.00	
8,779.4	0.00	0.00	8,680.0	700.6	991.7	2.00	-2.00	0.00	180.00	
8,841.9	0.00	0.00	8,742.5	700.6	991.7	0.00	0.00	0.00	0.00	
9,591.9	90.00	89.78	9,220.0	702.5	1,469.2	12.00	12.00	11.97	89.78	
19,536.2	90.00	89.78	9,220.0	740.7	11,413.3	0.00	0.00	0.00	0.00	LTP/BHL A0810161H

PERMIAN

RESOURCES

Planning Report - Geographic

Database:	Compass_17	Local Co-ordinate Reference:	Well ASTRODOG 0810 161H
Company:	NEW MEXICO	TVD Reference:	KB @ 3014.0usft
Project:	(SP) EDDY	MD Reference:	KB @ 3014.0usft
Site:	ASTRODOG	North Reference:	Grid
Well:	ASTRODOG 0810 161H	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	481,172.81	641,229.20	32° 19' 20.647 N	104° 0' 35.833 W
100.0	0.00	0.00	100.0	0.0	0.0	481,172.81	641,229.20	32° 19' 20.647 N	104° 0' 35.833 W
200.0	0.00	0.00	200.0	0.0	0.0	481,172.81	641,229.20	32° 19' 20.647 N	104° 0' 35.833 W
300.0	0.00	0.00	300.0	0.0	0.0	481,172.81	641,229.20	32° 19' 20.647 N	104° 0' 35.833 W
400.0	0.00	0.00	400.0	0.0	0.0	481,172.81	641,229.20	32° 19' 20.647 N	104° 0' 35.833 W
500.0	0.00	0.00	500.0	0.0	0.0	481,172.81	641,229.20	32° 19' 20.647 N	104° 0' 35.833 W
600.0	0.00	0.00	600.0	0.0	0.0	481,172.81	641,229.20	32° 19' 20.647 N	104° 0' 35.833 W
700.0	0.00	0.00	700.0	0.0	0.0	481,172.81	641,229.20	32° 19' 20.647 N	104° 0' 35.833 W
800.0	0.00	0.00	800.0	0.0	0.0	481,172.81	641,229.20	32° 19' 20.647 N	104° 0' 35.833 W
900.0	0.00	0.00	900.0	0.0	0.0	481,172.81	641,229.20	32° 19' 20.647 N	104° 0' 35.833 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	481,172.81	641,229.20	32° 19' 20.647 N	104° 0' 35.833 W
Start Build 2.00									
1,100.0	2.00	54.76	1,100.0	1.0	1.4	481,173.82	641,230.63	32° 19' 20.657 N	104° 0' 35.817 W
1,200.0	4.00	54.76	1,199.8	4.0	5.7	481,176.84	641,234.90	32° 19' 20.687 N	104° 0' 35.767 W
1,300.0	6.00	54.76	1,299.5	9.1	12.8	481,181.87	641,242.02	32° 19' 20.737 N	104° 0' 35.684 W
1,400.0	8.00	54.76	1,398.7	16.1	22.8	481,188.90	641,251.97	32° 19' 20.806 N	104° 0' 35.567 W
1,478.6	9.57	54.76	1,476.4	23.0	32.6	481,195.83	641,261.78	32° 19' 20.874 N	104° 0' 35.453 W
Start 6822.2 hold at 1478.6 MD									
1,500.0	9.57	54.76	1,497.5	25.1	35.5	481,197.88	641,264.69	32° 19' 20.894 N	104° 0' 35.419 W
1,600.0	9.57	54.76	1,596.1	34.7	49.1	481,207.47	641,278.27	32° 19' 20.989 N	104° 0' 35.260 W
1,700.0	9.57	54.76	1,694.7	44.3	62.6	481,217.07	641,291.85	32° 19' 21.083 N	104° 0' 35.102 W
1,800.0	9.57	54.76	1,793.3	53.9	76.2	481,226.66	641,305.43	32° 19' 21.178 N	104° 0' 34.943 W
1,900.0	9.57	54.76	1,891.9	63.4	89.8	481,236.26	641,319.01	32° 19' 21.273 N	104° 0' 34.784 W
2,000.0	9.57	54.76	1,990.5	73.0	103.4	481,245.86	641,332.60	32° 19' 21.367 N	104° 0' 34.626 W
2,100.0	9.57	54.76	2,089.1	82.6	117.0	481,255.45	641,346.18	32° 19' 21.462 N	104° 0' 34.467 W
2,200.0	9.57	54.76	2,187.7	92.2	130.6	481,265.05	641,359.76	32° 19' 21.556 N	104° 0' 34.309 W
2,300.0	9.57	54.76	2,286.3	101.8	144.1	481,274.64	641,373.34	32° 19' 21.651 N	104° 0' 34.150 W
2,400.0	9.57	54.76	2,384.9	111.4	157.7	481,284.24	641,386.92	32° 19' 21.745 N	104° 0' 33.991 W
2,500.0	9.57	54.76	2,483.6	121.0	171.3	481,293.83	641,400.50	32° 19' 21.840 N	104° 0' 33.833 W
2,600.0	9.57	54.76	2,582.2	130.6	184.9	481,303.43	641,414.09	32° 19' 21.934 N	104° 0' 33.674 W
2,700.0	9.57	54.76	2,680.8	140.2	198.5	481,313.02	641,427.67	32° 19' 22.029 N	104° 0' 33.515 W
2,800.0	9.57	54.76	2,779.4	149.8	212.0	481,322.62	641,441.25	32° 19' 22.123 N	104° 0' 33.357 W
2,900.0	9.57	54.76	2,878.0	159.4	225.6	481,332.21	641,454.83	32° 19' 22.218 N	104° 0' 33.198 W
3,000.0	9.57	54.76	2,976.6	169.0	239.2	481,341.81	641,468.41	32° 19' 22.313 N	104° 0' 33.040 W
3,100.0	9.57	54.76	3,075.2	178.6	252.8	481,351.41	641,481.99	32° 19' 22.407 N	104° 0' 32.881 W
3,200.0	9.57	54.76	3,173.8	188.2	266.4	481,361.00	641,495.58	32° 19' 22.502 N	104° 0' 32.722 W
3,300.0	9.57	54.76	3,272.4	197.8	280.0	481,370.60	641,509.16	32° 19' 22.596 N	104° 0' 32.564 W
3,400.0	9.57	54.76	3,371.0	207.4	293.5	481,380.19	641,522.74	32° 19' 22.691 N	104° 0' 32.405 W
3,500.0	9.57	54.76	3,469.6	217.0	307.1	481,389.79	641,536.32	32° 19' 22.785 N	104° 0' 32.246 W
3,600.0	9.57	54.76	3,568.2	226.6	320.7	481,399.38	641,549.90	32° 19' 22.880 N	104° 0' 32.088 W
3,700.0	9.57	54.76	3,666.8	236.2	334.3	481,408.98	641,563.48	32° 19' 22.974 N	104° 0' 31.929 W
3,800.0	9.57	54.76	3,765.5	245.8	347.9	481,418.57	641,577.07	32° 19' 23.069 N	104° 0' 31.771 W
3,900.0	9.57	54.76	3,864.1	255.4	361.4	481,428.17	641,590.65	32° 19' 23.163 N	104° 0' 31.612 W
4,000.0	9.57	54.76	3,962.7	265.0	375.0	481,437.76	641,604.23	32° 19' 23.258 N	104° 0' 31.453 W
4,100.0	9.57	54.76	4,061.3	274.5	388.6	481,447.36	641,617.81	32° 19' 23.353 N	104° 0' 31.295 W
4,200.0	9.57	54.76	4,159.9	284.1	402.2	481,456.95	641,631.39	32° 19' 23.447 N	104° 0' 31.136 W
4,300.0	9.57	54.76	4,258.5	293.7	415.8	481,466.55	641,644.98	32° 19' 23.542 N	104° 0' 30.977 W
4,400.0	9.57	54.76	4,357.1	303.3	429.4	481,476.15	641,658.56	32° 19' 23.636 N	104° 0' 30.819 W
4,500.0	9.57	54.76	4,455.7	312.9	442.9	481,485.74	641,672.14	32° 19' 23.731 N	104° 0' 30.660 W
4,600.0	9.57	54.76	4,554.3	322.5	456.5	481,495.34	641,685.72	32° 19' 23.825 N	104° 0' 30.502 W
4,700.0	9.57	54.76	4,652.9	332.1	470.1	481,504.93	641,699.30	32° 19' 23.920 N	104° 0' 30.343 W
4,800.0	9.57	54.76	4,751.5	341.7	483.7	481,514.53	641,712.88	32° 19' 24.014 N	104° 0' 30.184 W
4,900.0	9.57	54.76	4,850.1	351.3	497.3	481,524.12	641,726.47	32° 19' 24.109 N	104° 0' 30.026 W
5,000.0	9.57	54.76	4,948.7	360.9	510.8	481,533.72	641,740.05	32° 19' 24.203 N	104° 0' 29.867 W

PERMIAN

RESOURCES

Planning Report - Geographic

Database:	Compass_17	Local Co-ordinate Reference:	Well ASTRODOG 0810 161H
Company:	NEW MEXICO	TVD Reference:	KB @ 3014.0usft
Project:	(SP) EDDY	MD Reference:	KB @ 3014.0usft
Site:	ASTRODOG	North Reference:	Grid
Well:	ASTRODOG 0810 161H	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	9.57	54.76	5,047.4	370.5	524.4	481,543.31	641,753.63	32° 19' 24.298 N	104° 0' 29.709 W	
5,200.0	9.57	54.76	5,146.0	380.1	538.0	481,552.91	641,767.21	32° 19' 24.393 N	104° 0' 29.550 W	
5,300.0	9.57	54.76	5,244.6	389.7	551.6	481,562.50	641,780.79	32° 19' 24.487 N	104° 0' 29.391 W	
5,400.0	9.57	54.76	5,343.2	399.3	565.2	481,572.10	641,794.37	32° 19' 24.582 N	104° 0' 29.233 W	
5,500.0	9.57	54.76	5,441.8	408.9	578.8	481,581.69	641,807.96	32° 19' 24.676 N	104° 0' 29.074 W	
5,600.0	9.57	54.76	5,540.4	418.5	592.3	481,591.29	641,821.54	32° 19' 24.771 N	104° 0' 28.915 W	
5,700.0	9.57	54.76	5,639.0	428.1	605.9	481,600.89	641,835.12	32° 19' 24.865 N	104° 0' 28.757 W	
5,800.0	9.57	54.76	5,737.6	437.7	619.5	481,610.48	641,848.70	32° 19' 24.960 N	104° 0' 28.598 W	
5,900.0	9.57	54.76	5,836.2	447.3	633.1	481,620.08	641,862.28	32° 19' 25.054 N	104° 0' 28.440 W	
6,000.0	9.57	54.76	5,934.8	456.9	646.7	481,629.67	641,875.86	32° 19' 25.149 N	104° 0' 28.281 W	
6,100.0	9.57	54.76	6,033.4	466.5	660.2	481,639.27	641,889.45	32° 19' 25.243 N	104° 0' 28.122 W	
6,200.0	9.57	54.76	6,132.0	476.1	673.8	481,648.86	641,903.03	32° 19' 25.338 N	104° 0' 27.964 W	
6,300.0	9.57	54.76	6,230.6	485.6	687.4	481,658.46	641,916.61	32° 19' 25.433 N	104° 0' 27.805 W	
6,400.0	9.57	54.76	6,329.3	495.2	701.0	481,668.05	641,930.19	32° 19' 25.527 N	104° 0' 27.646 W	
6,500.0	9.57	54.76	6,427.9	504.8	714.6	481,677.65	641,943.77	32° 19' 25.622 N	104° 0' 27.488 W	
6,600.0	9.57	54.76	6,526.5	514.4	728.2	481,687.24	641,957.36	32° 19' 25.716 N	104° 0' 27.329 W	
6,700.0	9.57	54.76	6,625.1	524.0	741.7	481,696.84	641,970.94	32° 19' 25.811 N	104° 0' 27.171 W	
6,800.0	9.57	54.76	6,723.7	533.6	755.3	481,706.43	641,984.52	32° 19' 25.905 N	104° 0' 27.012 W	
6,900.0	9.57	54.76	6,822.3	543.2	768.9	481,716.03	641,998.10	32° 19' 26.000 N	104° 0' 26.853 W	
7,000.0	9.57	54.76	6,920.9	552.8	782.5	481,725.63	642,011.68	32° 19' 26.094 N	104° 0' 26.695 W	
7,100.0	9.57	54.76	7,019.5	562.4	796.1	481,735.22	642,025.26	32° 19' 26.189 N	104° 0' 26.536 W	
7,200.0	9.57	54.76	7,118.1	572.0	809.6	481,744.82	642,038.85	32° 19' 26.283 N	104° 0' 26.377 W	
7,300.0	9.57	54.76	7,216.7	581.6	823.2	481,754.41	642,052.43	32° 19' 26.378 N	104° 0' 26.219 W	
7,400.0	9.57	54.76	7,315.3	591.2	836.8	481,764.01	642,066.01	32° 19' 26.473 N	104° 0' 26.060 W	
7,500.0	9.57	54.76	7,413.9	600.8	850.4	481,773.60	642,079.59	32° 19' 26.567 N	104° 0' 25.901 W	
7,600.0	9.57	54.76	7,512.5	610.4	864.0	481,783.20	642,093.17	32° 19' 26.662 N	104° 0' 25.743 W	
7,700.0	9.57	54.76	7,611.2	620.0	877.6	481,792.79	642,106.75	32° 19' 26.756 N	104° 0' 25.584 W	
7,800.0	9.57	54.76	7,709.8	629.6	891.1	481,802.39	642,120.34	32° 19' 26.851 N	104° 0' 25.426 W	
7,900.0	9.57	54.76	7,808.4	639.2	904.7	481,811.98	642,133.92	32° 19' 26.945 N	104° 0' 25.267 W	
8,000.0	9.57	54.76	7,907.0	648.8	918.3	481,821.58	642,147.50	32° 19' 27.040 N	104° 0' 25.108 W	
8,100.0	9.57	54.76	8,005.6	658.4	931.9	481,831.18	642,161.08	32° 19' 27.134 N	104° 0' 24.950 W	
8,200.0	9.57	54.76	8,104.2	668.0	945.5	481,840.77	642,174.66	32° 19' 27.229 N	104° 0' 24.791 W	
8,300.8	9.57	54.76	8,203.6	677.6	959.2	481,850.44	642,188.36	32° 19' 27.324 N	104° 0' 24.631 W	
Start Drop -2.00										
8,400.0	7.59	54.76	8,301.7	686.2	971.2	481,858.98	642,200.44	32° 19' 27.408 N	104° 0' 24.490 W	
8,500.0	5.59	54.76	8,401.0	692.8	980.6	481,865.60	642,209.81	32° 19' 27.474 N	104° 0' 24.381 W	
8,600.0	3.59	54.76	8,500.7	697.4	987.1	481,870.22	642,216.35	32° 19' 27.519 N	104° 0' 24.304 W	
8,700.0	1.59	54.76	8,600.6	700.0	990.8	481,872.83	642,220.03	32° 19' 27.545 N	104° 0' 24.261 W	
8,779.4	0.00	0.00	8,680.0	700.6	991.7	481,873.46	642,220.93	32° 19' 27.551 N	104° 0' 24.251 W	
Start 62.5 hold at 8779.4 MD										
8,800.0	0.00	0.00	8,700.6	700.6	991.7	481,873.46	642,220.93	32° 19' 27.551 N	104° 0' 24.251 W	
8,841.9	0.00	0.00	8,742.5	700.6	991.7	481,873.46	642,220.93	32° 19' 27.551 N	104° 0' 24.251 W	
Start DLS 12.00 TFO 89.78										
8,850.0	0.97	89.78	8,750.6	700.7	991.8	481,873.46	642,221.00	32° 19' 27.551 N	104° 0' 24.250 W	
8,875.0	3.97	89.78	8,775.5	700.7	992.9	481,873.47	642,222.08	32° 19' 27.551 N	104° 0' 24.237 W	
8,900.0	6.97	89.78	8,800.4	700.7	995.3	481,873.47	642,224.46	32° 19' 27.551 N	104° 0' 24.210 W	
8,925.0	9.97	89.78	8,825.1	700.7	998.9	481,873.49	642,228.14	32° 19' 27.551 N	104° 0' 24.167 W	
8,950.0	12.97	89.78	8,849.6	700.7	1,003.9	481,873.51	642,233.11	32° 19' 27.551 N	104° 0' 24.109 W	
8,975.0	15.97	89.78	8,873.8	700.7	1,010.2	481,873.53	642,239.36	32° 19' 27.551 N	104° 0' 24.036 W	
9,000.0	18.97	89.78	8,897.7	700.7	1,017.7	481,873.56	642,246.86	32° 19' 27.551 N	104° 0' 23.949 W	
9,025.0	21.97	89.78	8,921.1	700.8	1,026.4	481,873.59	642,255.60	32° 19' 27.551 N	104° 0' 23.847 W	
9,050.0	24.97	89.78	8,944.0	700.8	1,036.4	481,873.63	642,265.55	32° 19' 27.551 N	104° 0' 23.731 W	
9,075.0	27.97	89.78	8,966.4	700.9	1,047.5	481,873.68	642,276.70	32° 19' 27.551 N	104° 0' 23.601 W	
9,100.0	30.97	89.78	8,988.2	700.9	1,059.8	481,873.72	642,288.99	32° 19' 27.552 N	104° 0' 23.458 W	

PERMIAN

RESOURCES

Planning Report - Geographic

Database:	Compass_17	Local Co-ordinate Reference:	Well ASTRODOG 0810 161H
Company:	NEW MEXICO	TVD Reference:	KB @ 3014.0usft
Project:	(SP) EDDY	MD Reference:	KB @ 3014.0usft
Site:	ASTRODOG	North Reference:	Grid
Well:	ASTRODOG 0810 161H	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
9,125.0	33.97	89.78	9,009.3	701.0	1,073.2	481,873.77	642,302.41	32° 19' 27.552 N	104° 0' 23.301 W
9,150.0	36.97	89.78	9,029.6	701.0	1,087.7	481,873.83	642,316.92	32° 19' 27.552 N	104° 0' 23.132 W
9,175.0	39.97	89.78	9,049.2	701.1	1,103.3	481,873.89	642,332.47	32° 19' 27.552 N	104° 0' 22.951 W
9,200.0	42.97	89.78	9,067.9	701.1	1,119.8	481,873.95	642,349.02	32° 19' 27.552 N	104° 0' 22.758 W
9,218.8	45.22	89.78	9,081.4	701.2	1,132.9	481,874.00	642,362.10	32° 19' 27.552 N	104° 0' 22.605 W
FTP A0810161H									
9,225.0	45.97	89.78	9,085.8	701.2	1,137.3	481,874.02	642,366.53	32° 19' 27.552 N	104° 0' 22.554 W
9,250.0	48.97	89.78	9,102.7	701.3	1,155.7	481,874.09	642,384.95	32° 19' 27.552 N	104° 0' 22.339 W
9,275.0	51.97	89.78	9,118.6	701.4	1,175.0	481,874.17	642,404.23	32° 19' 27.552 N	104° 0' 22.114 W
9,300.0	54.97	89.78	9,133.5	701.4	1,195.1	481,874.24	642,424.31	32° 19' 27.553 N	104° 0' 21.880 W
9,325.0	57.97	89.78	9,147.3	701.5	1,215.9	481,874.32	642,445.15	32° 19' 27.553 N	104° 0' 21.638 W
9,350.0	60.97	89.78	9,160.0	701.6	1,237.5	481,874.41	642,466.68	32° 19' 27.553 N	104° 0' 21.387 W
9,375.0	63.97	89.78	9,171.5	701.7	1,259.6	481,874.49	642,488.85	32° 19' 27.553 N	104° 0' 21.128 W
9,400.0	66.97	89.78	9,181.9	701.8	1,282.4	481,874.58	642,511.59	32° 19' 27.553 N	104° 0' 20.863 W
9,425.0	69.97	89.78	9,191.1	701.9	1,305.6	481,874.67	642,534.84	32° 19' 27.553 N	104° 0' 20.592 W
9,450.0	72.97	89.78	9,199.0	701.9	1,329.3	481,874.76	642,558.54	32° 19' 27.554 N	104° 0' 20.316 W
9,475.0	75.97	89.78	9,205.7	702.0	1,353.4	481,874.85	642,582.62	32° 19' 27.554 N	104° 0' 20.035 W
9,500.0	78.97	89.78	9,211.1	702.1	1,377.8	481,874.95	642,607.03	32° 19' 27.554 N	104° 0' 19.751 W
9,525.0	81.97	89.78	9,215.3	702.2	1,402.5	481,875.04	642,631.68	32° 19' 27.554 N	104° 0' 19.464 W
9,550.0	84.97	89.78	9,218.1	702.3	1,427.3	481,875.14	642,656.51	32° 19' 27.554 N	104° 0' 19.174 W
9,575.0	87.97	89.78	9,219.7	702.4	1,452.3	481,875.23	642,681.46	32° 19' 27.555 N	104° 0' 18.883 W
9,591.9	90.00	89.78	9,220.0	702.5	1,469.2	481,875.30	642,698.39	32° 19' 27.555 N	104° 0' 18.686 W
Start 9944.2 hold at 9591.9 MD									
9,600.0	90.00	89.78	9,220.0	702.5	1,477.3	481,875.33	642,706.46	32° 19' 27.555 N	104° 0' 18.592 W
9,700.0	90.00	89.78	9,220.0	702.9	1,577.3	481,875.71	642,806.46	32° 19' 27.556 N	104° 0' 17.427 W
9,800.0	90.00	89.78	9,220.0	703.3	1,677.3	481,876.10	642,906.46	32° 19' 27.556 N	104° 0' 16.261 W
9,900.0	90.00	89.78	9,220.0	703.7	1,777.3	481,876.48	643,006.46	32° 19' 27.557 N	104° 0' 15.096 W
10,000.0	90.00	89.78	9,220.0	704.1	1,877.3	481,876.87	643,106.46	32° 19' 27.558 N	104° 0' 13.930 W
10,100.0	90.00	89.78	9,220.0	704.4	1,977.3	481,877.25	643,206.45	32° 19' 27.559 N	104° 0' 12.765 W
10,200.0	90.00	89.78	9,220.0	704.8	2,077.2	481,877.63	643,306.45	32° 19' 27.559 N	104° 0' 11.599 W
10,300.0	90.00	89.78	9,220.0	705.2	2,177.2	481,878.02	643,406.45	32° 19' 27.560 N	104° 0' 10.434 W
10,400.0	90.00	89.78	9,220.0	705.6	2,277.2	481,878.40	643,506.45	32° 19' 27.561 N	104° 0' 9.269 W
10,500.0	90.00	89.78	9,220.0	706.0	2,377.2	481,878.79	643,606.45	32° 19' 27.562 N	104° 0' 8.103 W
10,600.0	90.00	89.78	9,220.0	706.4	2,477.2	481,879.17	643,706.45	32° 19' 27.562 N	104° 0' 6.938 W
10,700.0	90.00	89.78	9,220.0	706.7	2,577.2	481,879.56	643,806.45	32° 19' 27.563 N	104° 0' 5.772 W
10,800.0	90.00	89.78	9,220.0	707.1	2,677.2	481,879.94	643,906.45	32° 19' 27.564 N	104° 0' 4.607 W
10,900.0	90.00	89.78	9,220.0	707.5	2,777.2	481,880.33	644,006.45	32° 19' 27.565 N	104° 0' 3.441 W
11,000.0	90.00	89.78	9,220.0	707.9	2,877.2	481,880.71	644,106.45	32° 19' 27.565 N	104° 0' 2.276 W
11,100.0	90.00	89.78	9,220.0	708.3	2,977.2	481,881.09	644,206.45	32° 19' 27.566 N	104° 0' 1.111 W
11,200.0	90.00	89.78	9,220.0	708.7	3,077.2	481,881.48	644,306.45	32° 19' 27.567 N	103° 59' 59.945 W
11,300.0	90.00	89.78	9,220.0	709.1	3,177.2	481,881.86	644,406.45	32° 19' 27.568 N	103° 59' 58.780 W
11,400.0	90.00	89.78	9,220.0	709.4	3,277.2	481,882.25	644,506.45	32° 19' 27.568 N	103° 59' 57.614 W
11,500.0	90.00	89.78	9,220.0	709.8	3,377.2	481,882.63	644,606.44	32° 19' 27.569 N	103° 59' 56.449 W
11,600.0	90.00	89.78	9,220.0	710.2	3,477.2	481,883.02	644,706.44	32° 19' 27.570 N	103° 59' 55.283 W
11,700.0	90.00	89.78	9,220.0	710.6	3,577.2	481,883.40	644,806.44	32° 19' 27.570 N	103° 59' 54.118 W
11,800.0	90.00	89.78	9,220.0	711.0	3,677.2	481,883.79	644,906.44	32° 19' 27.571 N	103° 59' 52.952 W
11,900.0	90.00	89.78	9,220.0	711.4	3,777.2	481,884.17	645,006.44	32° 19' 27.572 N	103° 59' 51.787 W
12,000.0	90.00	89.78	9,220.0	711.7	3,877.2	481,884.56	645,106.44	32° 19' 27.573 N	103° 59' 50.622 W
12,100.0	90.00	89.78	9,220.0	712.1	3,977.2	481,884.94	645,206.44	32° 19' 27.573 N	103° 59' 49.456 W
12,200.0	90.00	89.78	9,220.0	712.5	4,077.2	481,885.32	645,306.44	32° 19' 27.574 N	103° 59' 48.291 W
12,300.0	90.00	89.78	9,220.0	712.9	4,177.2	481,885.71	645,406.44	32° 19' 27.575 N	103° 59' 47.125 W
12,400.0	90.00	89.78	9,220.0	713.3	4,277.2	481,886.09	645,506.44	32° 19' 27.575 N	103° 59' 45.960 W
12,500.0	90.00	89.78	9,220.0	713.7	4,377.2	481,886.48	645,606.44	32° 19' 27.576 N	103° 59' 44.794 W
12,600.0	90.00	89.78	9,220.0	714.1	4,477.2	481,886.86	645,706.44	32° 19' 27.577 N	103° 59' 43.629 W

PERMIAN

RESOURCES

Planning Report - Geographic

Database:	Compass_17	Local Co-ordinate Reference:	Well ASTRODOG 0810 161H
Company:	NEW MEXICO	TVD Reference:	KB @ 3014.0usft
Project:	(SP) EDDY	MD Reference:	KB @ 3014.0usft
Site:	ASTRODOG	North Reference:	Grid
Well:	ASTRODOG 0810 161H	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	89.78	9,220.0	714.4	4,577.2	481,887.25	645,806.44	32° 19' 27.577 N	103° 59' 42.463 W	
12,800.0	90.00	89.78	9,220.0	714.8	4,677.2	481,887.63	645,906.43	32° 19' 27.578 N	103° 59' 41.298 W	
12,900.0	90.00	89.78	9,220.0	715.2	4,777.2	481,888.02	646,006.43	32° 19' 27.579 N	103° 59' 40.133 W	
13,000.0	90.00	89.78	9,220.0	715.6	4,877.2	481,888.40	646,106.43	32° 19' 27.579 N	103° 59' 38.967 W	
13,100.0	90.00	89.78	9,220.0	716.0	4,977.2	481,888.78	646,206.43	32° 19' 27.580 N	103° 59' 37.802 W	
13,200.0	90.00	89.78	9,220.0	716.4	5,077.2	481,889.17	646,306.43	32° 19' 27.581 N	103° 59' 36.636 W	
13,300.0	90.00	89.78	9,220.0	716.7	5,177.2	481,889.55	646,406.43	32° 19' 27.581 N	103° 59' 35.471 W	
13,400.0	90.00	89.78	9,220.0	717.1	5,277.2	481,889.94	646,506.43	32° 19' 27.582 N	103° 59' 34.305 W	
13,500.0	90.00	89.78	9,220.0	717.5	5,377.2	481,890.32	646,606.43	32° 19' 27.583 N	103° 59' 33.140 W	
13,600.0	90.00	89.78	9,220.0	717.9	5,477.2	481,890.71	646,706.43	32° 19' 27.583 N	103° 59' 31.974 W	
13,700.0	90.00	89.78	9,220.0	718.3	5,577.2	481,891.09	646,806.43	32° 19' 27.584 N	103° 59' 30.809 W	
13,800.0	90.00	89.78	9,220.0	718.7	5,677.2	481,891.48	646,906.43	32° 19' 27.585 N	103° 59' 29.644 W	
13,900.0	90.00	89.78	9,220.0	719.0	5,777.2	481,891.86	647,006.43	32° 19' 27.585 N	103° 59' 28.478 W	
14,000.0	90.00	89.78	9,220.0	719.4	5,877.2	481,892.24	647,106.43	32° 19' 27.586 N	103° 59' 27.313 W	
14,100.0	90.00	89.78	9,220.0	719.8	5,977.2	481,892.63	647,206.43	32° 19' 27.587 N	103° 59' 26.147 W	
14,200.0	90.00	89.78	9,220.0	720.2	6,077.2	481,893.01	647,306.42	32° 19' 27.587 N	103° 59' 24.982 W	
14,300.0	90.00	89.78	9,220.0	720.6	6,177.2	481,893.40	647,406.42	32° 19' 27.588 N	103° 59' 23.816 W	
14,400.0	90.00	89.78	9,220.0	721.0	6,277.2	481,893.78	647,506.42	32° 19' 27.589 N	103° 59' 22.651 W	
14,500.0	90.00	89.78	9,220.0	721.4	6,377.2	481,894.17	647,606.42	32° 19' 27.589 N	103° 59' 21.486 W	
14,600.0	90.00	89.78	9,220.0	721.7	6,477.2	481,894.55	647,706.42	32° 19' 27.590 N	103° 59' 20.320 W	
14,700.0	90.00	89.78	9,220.0	722.1	6,577.2	481,894.94	647,806.42	32° 19' 27.590 N	103° 59' 19.155 W	
14,800.0	90.00	89.78	9,220.0	722.5	6,677.2	481,895.32	647,906.42	32° 19' 27.591 N	103° 59' 17.989 W	
14,900.0	90.00	89.78	9,220.0	722.9	6,777.2	481,895.71	648,006.42	32° 19' 27.592 N	103° 59' 16.824 W	
15,000.0	90.00	89.78	9,220.0	723.3	6,877.2	481,896.09	648,106.42	32° 19' 27.592 N	103° 59' 15.658 W	
15,100.0	90.00	89.78	9,220.0	723.7	6,977.2	481,896.47	648,206.42	32° 19' 27.593 N	103° 59' 14.493 W	
15,200.0	90.00	89.78	9,220.0	724.0	7,077.2	481,896.86	648,306.42	32° 19' 27.593 N	103° 59' 13.327 W	
15,300.0	90.00	89.78	9,220.0	724.4	7,177.2	481,897.24	648,406.42	32° 19' 27.594 N	103° 59' 12.162 W	
15,400.0	90.00	89.78	9,220.0	724.8	7,277.2	481,897.63	648,506.42	32° 19' 27.595 N	103° 59' 10.997 W	
15,500.0	90.00	89.78	9,220.0	725.2	7,377.2	481,898.01	648,606.41	32° 19' 27.595 N	103° 59' 9.831 W	
15,600.0	90.00	89.78	9,220.0	725.6	7,477.2	481,898.40	648,706.41	32° 19' 27.596 N	103° 59' 8.666 W	
15,700.0	90.00	89.78	9,220.0	726.0	7,577.2	481,898.78	648,806.41	32° 19' 27.596 N	103° 59' 7.500 W	
15,800.0	90.00	89.78	9,220.0	726.4	7,677.2	481,899.17	648,906.41	32° 19' 27.597 N	103° 59' 6.335 W	
15,900.0	90.00	89.78	9,220.0	726.7	7,777.2	481,899.55	649,006.41	32° 19' 27.598 N	103° 59' 5.169 W	
16,000.0	90.00	89.78	9,220.0	727.1	7,877.2	481,899.93	649,106.41	32° 19' 27.598 N	103° 59' 4.004 W	
16,100.0	90.00	89.78	9,220.0	727.5	7,977.2	481,900.32	649,206.41	32° 19' 27.599 N	103° 59' 2.838 W	
16,200.0	90.00	89.78	9,220.0	727.9	8,077.2	481,900.70	649,306.41	32° 19' 27.599 N	103° 59' 1.673 W	
16,300.0	90.00	89.78	9,220.0	728.3	8,177.2	481,901.09	649,406.41	32° 19' 27.600 N	103° 59' 0.508 W	
16,400.0	90.00	89.78	9,220.0	728.7	8,277.2	481,901.47	649,506.41	32° 19' 27.601 N	103° 58' 59.342 W	
16,500.0	90.00	89.78	9,220.0	729.0	8,377.2	481,901.86	649,606.41	32° 19' 27.601 N	103° 58' 58.177 W	
16,600.0	90.00	89.78	9,220.0	729.4	8,477.2	481,902.24	649,706.41	32° 19' 27.602 N	103° 58' 57.011 W	
16,700.0	90.00	89.78	9,220.0	729.8	8,577.2	481,902.63	649,806.41	32° 19' 27.602 N	103° 58' 55.846 W	
16,800.0	90.00	89.78	9,220.0	730.2	8,677.2	481,903.01	649,906.41	32° 19' 27.603 N	103° 58' 54.680 W	
16,900.0	90.00	89.78	9,220.0	730.6	8,777.2	481,903.40	650,006.40	32° 19' 27.603 N	103° 58' 53.515 W	
17,000.0	90.00	89.78	9,220.0	731.0	8,877.2	481,903.78	650,106.40	32° 19' 27.604 N	103° 58' 52.349 W	
17,100.0	90.00	89.78	9,220.0	731.4	8,977.2	481,904.16	650,206.40	32° 19' 27.604 N	103° 58' 51.184 W	
17,200.0	90.00	89.78	9,220.0	731.7	9,077.2	481,904.55	650,306.40	32° 19' 27.605 N	103° 58' 50.019 W	
17,300.0	90.00	89.78	9,220.0	732.1	9,177.2	481,904.93	650,406.40	32° 19' 27.606 N	103° 58' 48.853 W	
17,400.0	90.00	89.78	9,220.0	732.5	9,277.2	481,905.32	650,506.40	32° 19' 27.606 N	103° 58' 47.688 W	
17,500.0	90.00	89.78	9,220.0	732.9	9,377.2	481,905.70	650,606.40	32° 19' 27.607 N	103° 58' 46.522 W	
17,600.0	90.00	89.78	9,220.0	733.3	9,477.2	481,906.09	650,706.40	32° 19' 27.607 N	103° 58' 45.357 W	
17,700.0	90.00	89.78	9,220.0	733.7	9,577.2	481,906.47	650,806.40	32° 19' 27.608 N	103° 58' 44.191 W	
17,800.0	90.00	89.78	9,220.0	734.0	9,677.2	481,906.86	650,906.40	32° 19' 27.608 N	103° 58' 43.026 W	
17,900.0	90.00	89.78	9,220.0	734.4	9,777.2	481,907.24	651,006.40	32° 19' 27.609 N	103° 58' 41.861 W	
18,000.0	90.00	89.78	9,220.0	734.8	9,877.2	481,907.62	651,106.40	32° 19' 27.609 N	103° 58' 40.695 W	
18,100.0	90.00	89.78	9,220.0	735.2	9,977.2	481,908.01	651,206.40	32° 19' 27.610 N	103° 58' 39.530 W	

PERMIAN

RESOURCES

Planning Report - Geographic

Database:	Compass_17	Local Co-ordinate Reference:	Well ASTRODOG 0810 161H
Company:	NEW MEXICO	TVD Reference:	KB @ 3014.0usft
Project:	(SP) EDDY	MD Reference:	KB @ 3014.0usft
Site:	ASTRODOG	North Reference:	Grid
Well:	ASTRODOG 0810 161H	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	89.78	9,220.0	735.6	10,077.2	481,908.39	651,306.39	32° 19' 27.610 N	103° 58' 38.364 W	
18,300.0	90.00	89.78	9,220.0	736.0	10,177.2	481,908.78	651,406.39	32° 19' 27.611 N	103° 58' 37.199 W	
18,400.0	90.00	89.78	9,220.0	736.4	10,277.2	481,909.16	651,506.39	32° 19' 27.611 N	103° 58' 36.033 W	
18,500.0	90.00	89.78	9,220.0	736.7	10,377.2	481,909.55	651,606.39	32° 19' 27.612 N	103° 58' 34.868 W	
18,600.0	90.00	89.78	9,220.0	737.1	10,477.2	481,909.93	651,706.39	32° 19' 27.612 N	103° 58' 33.702 W	
18,700.0	90.00	89.78	9,220.0	737.5	10,577.2	481,910.32	651,806.39	32° 19' 27.613 N	103° 58' 32.537 W	
18,800.0	90.00	89.78	9,220.0	737.9	10,677.2	481,910.70	651,906.39	32° 19' 27.613 N	103° 58' 31.372 W	
18,900.0	90.00	89.78	9,220.0	738.3	10,777.2	481,911.08	652,006.39	32° 19' 27.614 N	103° 58' 30.206 W	
19,000.0	90.00	89.78	9,220.0	738.7	10,877.2	481,911.47	652,106.39	32° 19' 27.614 N	103° 58' 29.041 W	
19,100.0	90.00	89.78	9,220.0	739.0	10,977.2	481,911.85	652,206.39	32° 19' 27.615 N	103° 58' 27.875 W	
19,200.0	90.00	89.78	9,220.0	739.4	11,077.2	481,912.24	652,306.39	32° 19' 27.615 N	103° 58' 26.710 W	
19,300.0	90.00	89.78	9,220.0	739.8	11,177.2	481,912.62	652,406.39	32° 19' 27.616 N	103° 58' 25.544 W	
19,400.0	90.00	89.78	9,220.0	740.2	11,277.2	481,913.01	652,506.39	32° 19' 27.616 N	103° 58' 24.379 W	
19,500.0	90.00	89.78	9,220.0	740.6	11,377.2	481,913.39	652,606.39	32° 19' 27.617 N	103° 58' 23.213 W	
19,536.2	90.00	89.78	9,220.0	740.7	11,413.3	481,913.53	652,642.55	32° 19' 27.617 N	103° 58' 22.792 W	
TD at 19536.2 - LTP/BHL A0810161H										

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	
FTP A0810161H - plan misses target center by 197.8usft at 9218.8usft MD (9081.4 TVD, 701.2 N, 1132.9 E) - Point	0.00	0.00	9,220.0	700.6	991.7	481,873.46	642,220.93	32° 19' 27.551 N	104° 0' 24.251 W	
LTP/BHL A0810161H - plan hits target center - Point	0.00	0.00	9,220.0	740.7	11,413.3	481,913.53	652,642.55	32° 19' 27.617 N	103° 58' 22.792 W	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
304.8	304.8	RSLR				
440.1	440.1	SLDO				
2,910.2	2,888.0	LMAR				
2,943.1	2,920.4	BLCN				
3,799.3	3,764.7	CYCN				
5,088.4	5,035.9	BYCN				
6,575.8	6,502.6	BSGL				
7,659.9	7,571.6	FBSG Sand				
7,937.3	7,845.1	SBSG Carb				
8,434.8	8,336.2	SBSG Sand				
8,782.5	8,683.1	TBSG Carb				

PERMIAN
RESOURCES

Planning Report - Geographic

Database:	Compass_17	Local Co-ordinate Reference:	Well ASTRODOG 0810 161H
Company:	NEW MEXICO	TVD Reference:	KB @ 3014.0usft
Project:	(SP) EDDY	MD Reference:	KB @ 3014.0usft
Site:	ASTRODOG	North Reference:	Grid
Well:	ASTRODOG 0810 161H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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
1,478.6	1,476.4	23.0	32.6	Start 6822.2 hold at 1478.6 MD
8,300.8	8,203.6	677.6	959.2	Start Drop -2.00
8,779.4	8,680.0	700.6	991.7	Start 62.5 hold at 8779.4 MD
8,841.9	8,742.5	700.6	991.7	Start DLS 12.00 TFO 89.78
9,591.9	9,220.0	702.5	1,469.2	Start 9944.2 hold at 9591.9 MD
19,536.2	9,220.0	740.7	11,413.3	TD at 19536.2

PERMIAN

RESOURCES

County: (SP) EDDY
 Site: ASTRODOG
 Well: ASTRODOG 0810 161H
 GE: 2984.0
 Plan: PWP0

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP A0810161H	9220.0	700.7	991.7	481873.46	642220.93
LTP/BHL A0810161H	9220.0	740.7	11413.4	481913.53	652642.55

SECTION DETAILS

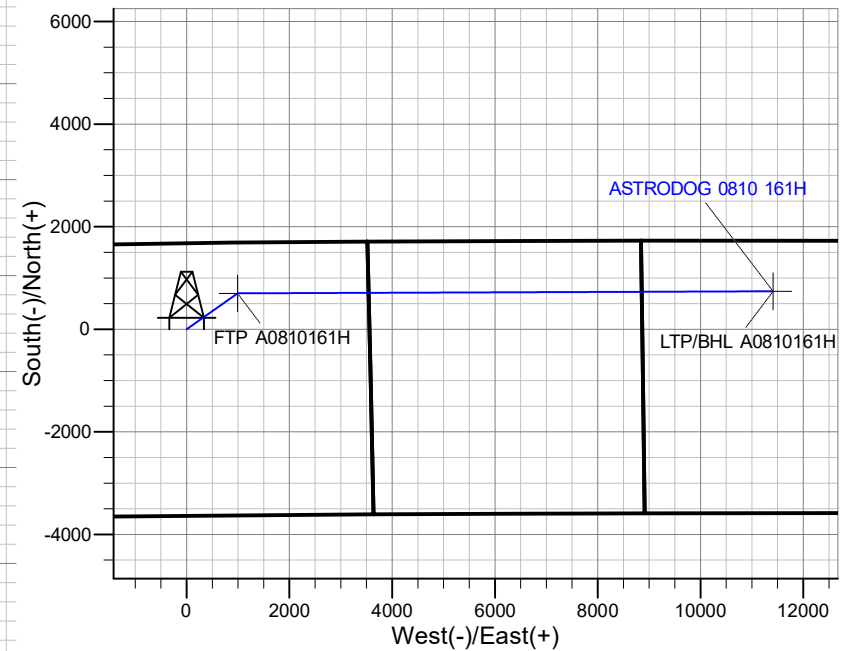
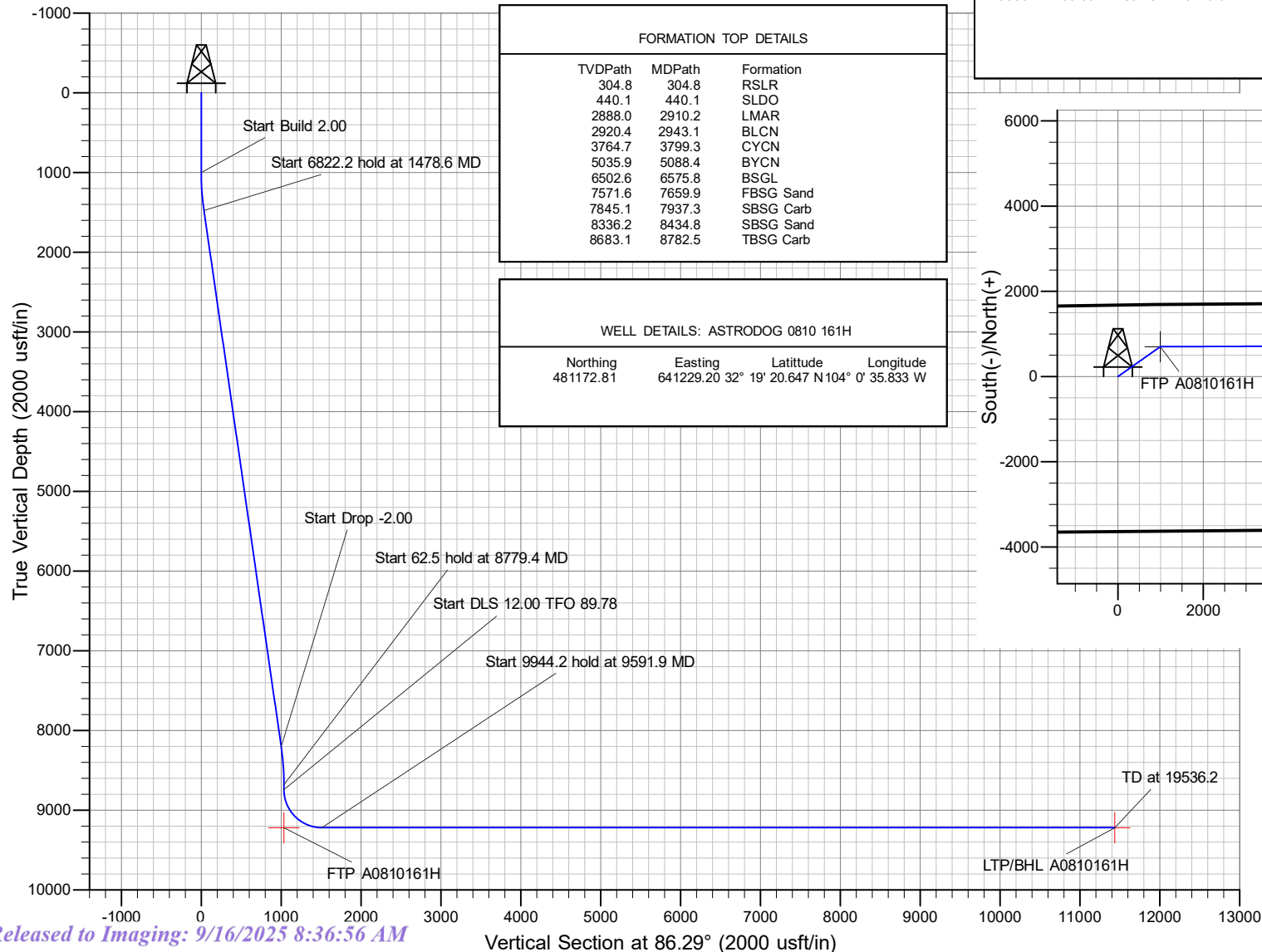
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.0	
1000.0	0.00	0.00	1000.0	0.0	0.0	0.0	Start Build 2.00
1478.6	9.57	54.76	1476.4	23.0	32.6	34.0	Start 6822.2 hold at 1478.6 MD
8300.8	9.57	54.76	8203.6	677.6	959.2	1001.0	Start Drop -2.00
8779.4	0.00	0.00	8680.0	700.7	991.7	1035.0	Start 62.5 hold at 8779.4 MD
8841.9	0.00	0.00	8742.5	700.7	991.7	1035.0	Start DLS 12.00 TFO 89.78
9591.9	90.00	89.78	9220.0	702.5	1469.2	1511.6	Start 9944.2 hold at 9591.9 MD
19536.2	90.00	89.78	9220.0	740.7	11413.4	11437.4	TD at 19536.2

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
304.8	304.8	RSLR
440.1	440.1	SLDO
2888.0	2910.2	LMAR
2920.4	2943.1	BLCN
3764.7	3799.3	CYCN
5035.9	5088.4	BYCN
6502.6	6575.8	BSDL
7571.6	7659.9	FBSG Sand
7845.1	7937.3	SBSG Carb
8336.2	8434.8	SBSG Sand
8683.1	8782.5	TBSG Carb

WELL DETAILS: ASTRODOG 0810 161H

Northing	Easting	Latitude	Longitude
481172.81	641229.20	32° 19' 20.647 N	104° 0' 35.833 W



PERMIAN

R E S O U R C E S

NEW MEXICO

(SP) EDDY

ASTRODOG

ASTRODOG 0810 161H

OWB

PWP0

Anticollision Report

29 July, 2025

PERMIAN
RESOURCES

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well ASTRODOG 0810 161H
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 161H	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	19,536.2	PWP0 (OWB)	MWD	OWSG_Rev2_ MWD - Standard	

Summary						
Site Name Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation Factor	Warning
	Measured	Measured	Between	Between		
	Depth (usft)	Depth (usft)	Centres (usft)	Ellipses (usft)		
ASTRODOG						
ASTRODOG 0810 121H - OWB - PWP0	1,000.0	1,000.0	33.0	26.0	4.745	CC
ASTRODOG 0810 121H - OWB - PWP0	1,200.0	1,197.7	33.7	25.4	4.037	ES
ASTRODOG 0810 121H - OWB - PWP0	19,536.2	18,981.1	940.5	547.1	2.391	SF

Offset Design:	ASTRODOG - ASTRODOG 0810 121H - 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		Minimum	Separation	Warning
Measured Depth (usft)	Depth (usft)	Measured Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
0.0	0.0	0.0	0.0	0.0	0.0	26.82	29.4	14.9	33.0				
100.0	100.0	100.0	100.0	0.3	0.3	26.82	29.4	14.9	33.0	32.5	0.50	65.756	
200.0	200.0	200.0	200.0	0.6	0.6	26.82	29.4	14.9	33.0	31.8	1.22	27.076	
300.0	300.0	300.0	300.0	1.0	1.0	26.82	29.4	14.9	33.0	31.1	1.94	17.048	
400.0	400.0	400.0	400.0	1.3	1.3	26.82	29.4	14.9	33.0	30.3	2.65	12.440	
500.0	500.0	500.0	500.0	1.7	1.7	26.82	29.4	14.9	33.0	29.6	3.37	9.793	
600.0	600.0	600.0	600.0	2.0	2.0	26.82	29.4	14.9	33.0	28.9	4.09	8.075	
700.0	700.0	700.0	700.0	2.4	2.4	26.82	29.4	14.9	33.0	28.2	4.80	6.870	
800.0	800.0	800.0	800.0	2.8	2.8	26.82	29.4	14.9	33.0	27.5	5.52	5.978	
900.0	900.0	900.0	900.0	3.1	3.1	26.82	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	26.82	29.4	14.9	33.0	26.0	6.95	4.745	CC
1,100.0	1,100.0	1,098.9	1,098.9	3.8	3.8	-28.87	30.8	15.9	33.2	25.5	7.66	4.330	
1,200.0	1,199.8	1,197.7	1,197.6	4.2	4.2	-31.62	35.0	18.9	33.7	25.4	8.35	4.037	ES
1,300.0	1,299.5	1,296.5	1,296.0	4.5	4.5	-35.97	41.9	23.9	34.8	25.8	9.04	3.849	
1,400.0	1,398.7	1,395.3	1,394.1	4.9	4.9	-41.57	51.5	30.8	36.6	26.9	9.74	3.764	
1,478.6	1,476.4	1,472.9	1,470.8	5.2	5.2	-46.51	61.0	37.7	38.8	28.5	10.29	3.767	
1,500.0	1,497.5	1,494.0	1,491.6	5.3	5.3	-47.82	63.9	39.7	39.5	29.1	10.44	3.784	
1,600.0	1,596.1	1,592.6	1,588.4	5.7	5.7	-51.84	79.0	50.6	45.0	33.9	11.16	4.032	
1,700.0	1,694.7	1,690.8	1,684.1	6.1	6.1	-52.81	96.7	63.4	53.5	41.6	11.88	4.500	
1,800.0	1,793.3	1,789.5	1,779.7	6.5	6.5	-52.07	116.7	77.8	64.3	51.7	12.63	5.093	
1,900.0	1,891.9	1,888.9	1,875.9	6.9	6.9	-51.41	137.1	92.5	75.4	62.0	13.41	5.627	
2,000.0	1,990.5	1,988.3	1,972.0	7.3	7.4	-50.91	157.5	107.2	86.5	72.4	14.19	6.098	
2,100.0	2,089.1	2,087.7	2,068.1	7.7	7.8	-50.53	177.9	121.9	97.7	82.7	14.98	6.518	
2,200.0	2,187.7	2,187.0	2,164.3	8.1	8.3	-50.23	198.3	136.7	108.8	93.0	15.78	6.893	

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 161H
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 161H	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 121H - 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		Minimum	Separation	Warning			
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)	Separation (usft)		
2,300.0	2,286.3	2,286.4	2,260.4	8.5	8.8	-49.99	218.7	151.4	119.9	103.3	16.59		
2,400.0	2,384.9	2,385.8	2,356.6	9.0	9.3	-49.78	239.1	166.1	131.1	113.7	17.40		
2,500.0	2,483.6	2,485.2	2,452.7	9.4	9.8	-49.61	259.5	180.8	142.2	124.0	18.21		
2,600.0	2,582.2	2,584.6	2,548.9	9.8	10.3	-49.46	279.9	195.5	153.3	134.3	19.02		
2,700.0	2,680.8	2,683.9	2,645.0	10.2	10.8	-49.33	300.3	210.2	164.5	144.6	19.84		
2,800.0	2,779.4	2,783.3	2,741.1	10.7	11.3	-49.22	320.7	224.9	175.6	154.9	20.66		
2,900.0	2,878.0	2,882.7	2,837.3	11.1	11.8	-49.13	341.1	239.6	186.7	165.2	21.49		
3,000.0	2,976.6	2,982.1	2,933.4	11.5	12.3	-49.04	361.5	254.3	197.9	175.6	22.31		
3,100.0	3,075.2	3,081.4	3,029.6	11.9	12.8	-48.96	381.9	269.1	209.0	185.9	23.14		
3,200.0	3,173.8	3,180.8	3,125.7	12.4	13.3	-48.89	402.3	283.8	220.1	196.2	23.96		
3,300.0	3,272.4	3,280.2	3,221.9	12.8	13.8	-48.83	422.7	298.5	231.3	206.5	24.79		
3,400.0	3,371.0	3,379.6	3,318.0	13.2	14.3	-48.77	443.1	313.2	242.4	216.8	25.62		
3,500.0	3,469.6	3,479.0	3,414.1	13.7	14.8	-48.72	463.5	327.9	253.6	227.1	26.46		
3,600.0	3,568.2	3,578.3	3,510.3	14.1	15.3	-48.67	483.9	342.6	264.7	237.4	27.29		
3,700.0	3,666.8	3,677.7	3,606.4	14.5	15.8	-48.63	504.3	357.3	275.8	247.7	28.12		
3,800.0	3,765.5	3,777.1	3,702.6	15.0	16.4	-48.59	524.7	372.0	287.0	258.0	28.96		
3,900.0	3,864.1	3,876.5	3,798.7	15.4	16.9	-48.55	545.1	386.8	298.1	268.3	29.79		
4,000.0	3,962.7	3,975.8	3,894.8	15.9	17.4	-48.51	565.5	401.5	309.3	278.6	30.63		
4,100.0	4,061.3	4,075.2	3,991.0	16.3	17.9	-48.48	585.9	416.2	320.4	288.9	31.46		
4,200.0	4,159.9	4,174.6	4,087.1	16.7	18.4	-48.45	606.3	430.9	331.5	299.2	32.30		
4,300.0	4,258.5	4,274.0	4,183.3	17.2	18.9	-48.42	626.7	445.6	342.7	309.5	33.14		
4,400.0	4,357.1	4,373.4	4,279.4	17.6	19.5	-48.40	647.1	460.3	353.8	319.8	33.98		
4,500.0	4,455.7	4,472.7	4,375.6	18.0	20.0	-48.37	667.5	475.0	364.9	330.1	34.82		
4,600.0	4,554.3	4,572.1	4,471.7	18.5	20.5	-48.35	687.9	489.7	376.1	340.4	35.66		
4,700.0	4,652.9	4,671.5	4,567.8	18.9	21.0	-48.33	708.3	504.4	387.2	350.7	36.50		
4,800.0	4,751.5	4,770.9	4,664.0	19.3	21.6	-48.31	728.7	519.2	398.4	361.0	37.34		
4,900.0	4,850.1	4,870.2	4,760.1	19.8	22.1	-48.29	749.1	533.9	409.5	371.3	38.18		
5,000.0	4,948.7	4,969.6	4,856.3	20.2	22.6	-48.27	769.5	548.6	420.6	381.6	39.02		
5,100.0	5,047.4	5,069.0	4,952.4	20.7	23.1	-48.25	789.9	563.3	431.8	391.9	39.86		
5,200.0	5,146.0	5,168.4	5,048.6	21.1	23.6	-48.23	810.3	578.0	442.9	402.2	40.70		
5,300.0	5,244.6	5,267.7	5,144.7	21.5	24.2	-48.22	830.7	592.7	454.1	412.5	41.54		
5,400.0	5,343.2	5,367.1	5,240.8	22.0	24.7	-48.20	851.1	607.4	465.2	422.8	42.38		
5,500.0	5,441.8	5,466.5	5,337.0	22.4	25.2	-48.19	871.5	622.1	476.3	433.1	43.23		
5,600.0	5,540.4	5,565.9	5,433.1	22.9	25.7	-48.17	891.9	636.8	487.5	443.4	44.07		
5,700.0	5,639.0	5,665.3	5,529.3	23.3	26.3	-48.16	912.3	651.6	498.6	453.7	44.91		
5,800.0	5,737.6	5,764.6	5,625.4	23.7	26.8	-48.15	932.7	666.3	509.8	464.0	45.76		
5,900.0	5,836.2	5,864.0	5,721.5	24.2	27.3	-48.13	953.1	681.0	520.9	474.3	46.60		
6,000.0	5,934.8	5,963.4	5,817.7	24.6	27.8	-48.12	973.5	695.7	532.0	484.6	47.44		
6,100.0	6,033.4	6,062.8	5,913.8	25.1	28.4	-48.11	993.9	710.4	543.2	494.9	48.29		
6,200.0	6,132.0	6,162.1	6,010.0	25.5	28.9	-48.10	1,014.3	725.1	554.3	505.2	49.13		
6,300.0	6,230.6	6,261.5	6,106.1	25.9	29.4	-48.09	1,034.7	739.8	565.5	515.5	49.97		
6,400.0	6,329.3	6,360.9	6,202.3	26.4	29.9	-48.08	1,055.1	754.5	576.6	525.8	50.82		
6,500.0	6,427.9	6,460.3	6,298.4	26.8	30.5	-48.07	1,075.5	769.3	587.7	536.1	51.66		
6,600.0	6,526.5	6,559.7	6,394.5	27.3	31.0	-48.06	1,095.9	784.0	598.9	546.4	52.51		
6,700.0	6,625.1	6,659.0	6,490.7	27.7	31.5	-48.05	1,116.3	798.7	610.0	556.7	53.35		
6,800.0	6,723.7	6,758.4	6,586.8	28.1	32.0	-48.05	1,136.7	813.4	621.2	567.0	54.20		
6,900.0	6,822.3	6,857.8	6,683.0	28.6	32.6	-48.04	1,157.1	828.1	632.3	577.3	55.04		
7,000.0	6,920.9	6,957.2	6,779.1	29.0	33.1	-48.03	1,177.5	842.8	643.4	587.6	55.89		
7,100.0	7,019.5	7,056.5	6,875.2	29.5	33.6	-48.02	1,197.9	857.5	654.6	597.9	56.73		
7,200.0	7,118.1	7,155.9	6,971.4	29.9	34.2	-48.01	1,218.3	872.2	665.7	608.1	57.58		
7,300.0	7,216.7	7,255.3	7,067.5	30.3	34.7	-48.01	1,238.7	886.9	676.9	618.4	58.42		
7,400.0	7,315.3	7,354.7	7,163.7	30.8	35.2	-48.00	1,259.1	901.7	688.0	628.7	59.27		

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 161H
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 161H	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 121H - 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)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,500.0	7,413.9	7,454.1	7,259.8	31.2	35.7	-47.99	1,279.5	916.4	699.1	639.0	60.11	11.631	
7,600.0	7,512.5	7,573.6	7,375.9	31.7	36.3	-48.05	1,302.9	933.2	709.2	648.1	61.14	11.600	
7,700.0	7,611.2	7,700.9	7,500.6	32.1	37.0	-48.31	1,323.5	948.1	715.6	653.4	62.18	11.508	
7,800.0	7,709.8	7,828.5	7,626.6	32.5	37.5	-48.80	1,339.6	959.7	718.2	655.0	63.16	11.370	
7,900.0	7,808.4	7,955.7	7,753.0	33.0	38.0	-49.51	1,351.2	968.0	716.9	652.8	64.08	11.188	
8,000.0	7,907.0	8,082.2	7,879.2	33.4	38.4	-50.45	1,358.1	973.0	712.0	647.0	64.94	10.963	
8,100.0	8,005.6	8,207.5	8,004.4	33.9	38.8	-51.64	1,360.5	974.8	703.5	637.7	65.75	10.699	
8,200.0	8,104.2	8,305.2	8,102.1	34.3	39.0	-52.63	1,360.5	975.7	693.2	626.5	66.68	10.396	
8,300.8	8,203.6	8,399.0	8,194.6	34.8	39.3	-52.41	1,360.6	990.6	683.7	616.2	67.50	10.129	
8,400.0	8,301.7	8,486.9	8,277.0	35.2	39.7	-50.59	1,360.7	1,020.8	676.8	608.6	68.16	9.929	
8,475.9	8,377.0	8,547.2	8,329.7	35.5	40.1	-48.51	1,360.8	1,050.0	674.9	606.3	68.55	9.844	
8,500.0	8,401.0	8,564.8	8,344.4	35.6	40.2	-47.79	1,360.8	1,059.7	675.1	606.4	68.66	9.833	
8,600.0	8,500.7	8,629.5	8,394.9	35.9	40.6	-44.76	1,361.0	1,100.1	681.4	612.5	68.90	9.889	
8,700.0	8,600.6	8,681.4	8,431.2	36.3	41.0	-42.03	1,361.1	1,137.1	698.0	629.2	68.74	10.154	
8,779.4	8,680.0	8,714.6	8,452.2	36.5	41.2	-14.52	1,361.2	1,162.8	719.4	651.1	68.25	10.540	
8,800.0	8,700.6	8,725.0	8,458.4	36.6	41.3	15.19	1,361.3	1,171.1	726.1	658.0	68.09	10.663	
8,841.9	8,742.5	8,736.8	8,465.3	36.7	41.4	15.97	1,361.3	1,180.8	741.0	673.3	67.66	10.952	
8,850.0	8,750.6	8,739.5	8,466.8	36.7	41.4	-73.26	1,361.3	1,183.0	744.0	676.4	67.57	11.011	
8,875.0	8,775.5	8,750.0	8,472.6	36.8	41.5	-71.42	1,361.4	1,191.7	753.5	686.2	67.32	11.194	
8,900.0	8,800.4	8,756.7	8,476.2	36.9	41.5	-69.83	1,361.4	1,197.4	763.2	696.2	67.03	11.386	
8,925.0	8,825.1	8,765.5	8,480.9	37.0	41.6	-68.13	1,361.4	1,204.9	773.0	706.2	66.76	11.578	
8,950.0	8,849.6	8,775.0	8,485.7	37.1	41.7	-66.43	1,361.4	1,213.0	782.8	716.3	66.51	11.770	
8,975.0	8,873.8	8,783.7	8,490.0	37.2	41.8	-64.81	1,361.5	1,220.6	792.6	726.3	66.25	11.963	
9,000.0	8,897.7	8,793.0	8,494.4	37.4	41.8	-63.22	1,361.5	1,228.7	802.4	736.3	66.01	12.156	
9,025.0	8,921.1	8,800.0	8,497.7	37.5	41.9	-61.78	1,361.5	1,235.0	812.0	746.3	65.74	12.352	
9,050.0	8,944.0	8,811.8	8,502.9	37.6	42.0	-60.18	1,361.6	1,245.6	821.5	756.0	65.54	12.535	
9,075.0	8,966.4	8,825.0	8,508.5	37.8	42.1	-58.62	1,361.6	1,257.5	830.9	765.5	65.37	12.710	
9,100.0	8,988.2	8,825.0	8,508.5	37.9	42.1	-57.61	1,361.6	1,257.5	840.1	775.0	65.05	12.915	
9,125.0	9,009.3	8,840.9	8,514.7	38.1	42.3	-56.10	1,361.7	1,272.1	848.9	784.0	64.94	13.072	
9,150.0	9,029.6	8,850.0	8,518.1	38.3	42.3	-54.90	1,361.7	1,280.6	857.6	792.8	64.77	13.241	
9,175.0	9,049.2	8,860.6	8,521.8	38.5	42.4	-53.73	1,361.7	1,290.5	865.9	801.2	64.63	13.397	
9,200.0	9,067.9	8,875.0	8,526.4	38.7	42.6	-52.53	1,361.8	1,304.2	873.9	809.3	64.56	13.537	
9,225.0	9,085.8	8,875.0	8,526.4	38.9	42.6	-51.77	1,361.8	1,304.2	881.5	817.2	64.34	13.702	
9,250.0	9,102.7	8,890.7	8,531.0	39.1	42.7	-50.70	1,361.8	1,319.1	888.7	824.4	64.32	13.816	
9,275.0	9,118.6	8,900.0	8,533.6	39.3	42.8	-49.85	1,361.9	1,328.1	895.5	831.3	64.27	13.935	
9,300.0	9,133.5	8,911.0	8,536.3	39.5	42.9	-49.04	1,361.9	1,338.7	901.9	837.7	64.25	14.037	
9,325.0	9,147.3	8,925.0	8,539.4	39.7	43.1	-48.25	1,362.0	1,352.4	907.9	843.6	64.30	14.120	
9,350.0	9,160.0	8,925.0	8,539.4	40.0	43.1	-47.74	1,362.0	1,352.4	913.5	849.2	64.25	14.218	
9,375.0	9,171.5	8,941.7	8,542.6	40.2	43.2	-47.06	1,362.0	1,368.8	918.4	854.0	64.38	14.265	
9,400.0	9,181.9	8,950.0	8,544.0	40.5	43.3	-46.55	1,362.1	1,377.0	923.0	858.5	64.48	14.314	
9,425.0	9,191.1	8,962.3	8,545.8	40.7	43.5	-46.07	1,362.1	1,389.1	927.0	862.4	64.64	14.341	
9,450.0	9,199.0	8,975.0	8,547.3	41.0	43.6	-45.65	1,362.2	1,401.8	930.5	865.7	64.84	14.351	
9,475.0	9,205.7	8,983.0	8,548.1	41.3	43.7	-45.33	1,362.2	1,409.7	933.5	868.5	65.05	14.351	
9,500.0	9,211.1	9,000.0	8,549.3	41.6	43.8	-45.02	1,362.3	1,426.7	936.1	870.7	65.34	14.326	
9,525.0	9,215.3	9,000.0	8,549.3	41.8	43.8	-44.86	1,362.3	1,426.7	938.0	872.4	65.61	14.297	
9,550.0	9,218.1	9,014.1	8,549.8	42.1	44.0	-44.69	1,362.3	1,440.8	939.4	873.4	65.96	14.241	
9,575.0	9,219.7	9,025.6	8,550.0	42.4	44.1	-44.59	1,362.4	1,452.2	940.2	873.9	66.35	14.171	
9,591.9	9,220.0	9,040.0	8,550.0	42.6	44.3	-44.57	1,362.4	1,466.6	940.4	873.8	66.64	14.111	
9,600.0	9,220.0	9,048.0	8,550.0	42.7	44.4	-44.57	1,362.4	1,474.7	940.4	873.6	66.79	14.080	
9,700.0	9,220.0	9,148.0	8,550.0	44.0	45.5	-44.57	1,362.8	1,574.7	940.4	871.7	68.70	13.689	
9,800.0	9,220.0	9,248.0	8,550.0	45.3	46.8	-44.57	1,363.2	1,674.7	940.4	869.7	70.73	13.296	
9,900.0	9,220.0	9,348.0	8,550.0	46.7	48.1	-44.57	1,363.6	1,774.7	940.4	867.6	72.88	12.903	

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 161H
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 161H	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 121H - 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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.0	9,220.0	9,448.0	8,550.0	48.2	49.5	-44.57	1,364.0	1,874.7	940.4	865.3	75.14	12.515	
10,100.0	9,220.0	9,548.0	8,550.0	49.8	51.0	-44.57	1,364.4	1,974.7	940.4	862.9	77.50	12.135	
10,200.0	9,220.0	9,648.0	8,550.0	51.4	52.6	-44.57	1,364.8	2,074.7	940.4	860.5	79.95	11.763	
10,300.0	9,220.0	9,748.0	8,550.0	53.1	54.2	-44.57	1,365.1	2,174.7	940.4	858.0	82.48	11.402	
10,400.0	9,220.0	9,848.0	8,550.0	54.9	55.9	-44.57	1,365.5	2,274.7	940.4	855.4	85.08	11.053	
10,500.0	9,220.0	9,948.0	8,550.0	56.7	57.7	-44.57	1,365.9	2,374.7	940.4	852.7	87.76	10.716	
10,600.0	9,220.0	10,048.0	8,550.0	58.6	59.5	-44.57	1,366.3	2,474.7	940.4	849.9	90.49	10.392	
10,700.0	9,220.0	10,148.0	8,550.0	60.4	61.3	-44.57	1,366.7	2,574.7	940.4	847.2	93.28	10.081	
10,800.0	9,220.0	10,248.0	8,550.0	62.4	63.2	-44.57	1,367.1	2,674.7	940.4	844.3	96.13	9.783	
10,900.0	9,220.0	10,348.0	8,550.0	64.3	65.1	-44.57	1,367.5	2,774.7	940.4	841.4	99.02	9.498	
11,000.0	9,220.0	10,448.0	8,550.0	66.3	67.0	-44.57	1,367.8	2,874.7	940.4	838.5	101.95	9.224	
11,100.0	9,220.0	10,548.0	8,550.0	68.3	69.0	-44.57	1,368.2	2,974.7	940.4	835.5	104.93	8.963	
11,200.0	9,220.0	10,648.0	8,550.0	70.4	71.0	-44.57	1,368.6	3,074.7	940.4	832.5	107.93	8.713	
11,300.0	9,220.0	10,748.0	8,550.0	72.4	73.1	-44.57	1,369.0	3,174.7	940.4	829.5	110.98	8.474	
11,400.0	9,220.0	10,848.0	8,550.0	74.5	75.1	-44.57	1,369.4	3,274.7	940.4	826.4	114.05	8.246	
11,500.0	9,220.0	10,948.0	8,550.0	76.6	77.2	-44.57	1,369.8	3,374.7	940.4	823.3	117.15	8.027	
11,600.0	9,220.0	11,048.0	8,550.0	78.7	79.3	-44.57	1,370.2	3,474.7	940.4	820.2	120.28	7.819	
11,700.0	9,220.0	11,148.0	8,550.0	80.9	81.4	-44.57	1,370.5	3,574.7	940.4	817.0	123.43	7.619	
11,800.0	9,220.0	11,248.0	8,550.0	83.0	83.5	-44.57	1,370.9	3,674.7	940.4	813.8	126.61	7.428	
11,900.0	9,220.0	11,348.0	8,550.0	85.2	85.7	-44.57	1,371.3	3,774.7	940.4	810.6	129.80	7.245	
12,000.0	9,220.0	11,448.0	8,550.0	87.4	87.9	-44.57	1,371.7	3,874.7	940.4	807.4	133.02	7.070	
12,100.0	9,220.0	11,548.0	8,550.0	89.6	90.0	-44.57	1,372.1	3,974.7	940.4	804.2	136.25	6.902	
12,200.0	9,220.0	11,648.0	8,550.0	91.8	92.2	-44.57	1,372.5	4,074.7	940.4	801.0	139.50	6.742	
12,300.0	9,220.0	11,748.0	8,550.0	94.0	94.4	-44.57	1,372.9	4,174.7	940.5	797.7	142.76	6.588	
12,400.0	9,220.0	11,848.0	8,550.0	96.2	96.6	-44.57	1,373.2	4,274.7	940.5	794.4	146.04	6.440	
12,500.0	9,220.0	11,948.0	8,550.0	98.4	98.8	-44.57	1,373.6	4,374.7	940.5	791.1	149.33	6.298	
12,600.0	9,220.0	12,048.0	8,550.0	100.7	101.1	-44.57	1,374.0	4,474.7	940.5	787.8	152.64	6.161	
12,700.0	9,220.0	12,148.0	8,550.0	102.9	103.3	-44.57	1,374.4	4,574.7	940.5	784.5	155.95	6.030	
12,800.0	9,220.0	12,248.0	8,550.0	105.2	105.6	-44.57	1,374.8	4,674.7	940.5	781.2	159.28	5.904	
12,900.0	9,220.0	12,348.0	8,550.0	107.4	107.8	-44.57	1,375.2	4,774.7	940.5	777.8	162.62	5.783	
13,000.0	9,220.0	12,448.0	8,550.0	109.7	110.1	-44.57	1,375.6	4,874.7	940.5	774.5	165.97	5.667	
13,100.0	9,220.0	12,548.0	8,550.0	112.0	112.3	-44.57	1,375.9	4,974.7	940.5	771.1	169.32	5.554	
13,200.0	9,220.0	12,648.0	8,550.0	114.3	114.6	-44.57	1,376.3	5,074.7	940.5	767.8	172.69	5.446	
13,300.0	9,220.0	12,748.0	8,550.0	116.6	116.9	-44.57	1,376.7	5,174.7	940.5	764.4	176.06	5.342	
13,400.0	9,220.0	12,848.0	8,550.0	118.8	119.2	-44.57	1,377.1	5,274.7	940.5	761.0	179.44	5.241	
13,500.0	9,220.0	12,948.0	8,550.0	121.1	121.5	-44.57	1,377.5	5,374.7	940.5	757.6	182.83	5.144	
13,600.0	9,220.0	13,048.0	8,550.0	123.4	123.7	-44.57	1,377.9	5,474.7	940.5	754.2	186.23	5.050	
13,700.0	9,220.0	13,148.0	8,550.0	125.7	126.0	-44.57	1,378.2	5,574.7	940.5	750.8	189.63	4.959	
13,800.0	9,220.0	13,248.0	8,550.0	128.1	128.3	-44.57	1,378.6	5,674.7	940.5	747.4	193.04	4.872	
13,900.0	9,220.0	13,348.0	8,550.0	130.4	130.7	-44.57	1,379.0	5,774.7	940.5	744.0	196.45	4.787	
14,000.0	9,220.0	13,448.0	8,550.0	132.7	133.0	-44.57	1,379.4	5,874.7	940.5	740.6	199.87	4.705	
14,100.0	9,220.0	13,548.0	8,550.0	135.0	135.3	-44.57	1,379.8	5,974.7	940.5	737.2	203.29	4.626	
14,200.0	9,220.0	13,648.0	8,550.0	137.3	137.6	-44.57	1,380.2	6,074.7	940.5	733.7	206.72	4.549	
14,300.0	9,220.0	13,748.0	8,550.0	139.6	139.9	-44.57	1,380.6	6,174.7	940.5	730.3	210.16	4.475	
14,400.0	9,220.0	13,848.0	8,550.0	142.0	142.2	-44.57	1,380.9	6,274.7	940.5	726.9	213.60	4.403	
14,500.0	9,220.0	13,948.0	8,550.0	144.3	144.6	-44.57	1,381.3	6,374.7	940.5	723.4	217.04	4.333	
14,600.0	9,220.0	14,048.0	8,550.0	146.6	146.9	-44.57	1,381.7	6,474.7	940.5	720.0	220.49	4.265	
14,700.0	9,220.0	14,148.0	8,550.0	149.0	149.2	-44.57	1,382.1	6,574.7	940.5	716.5	223.94	4.200	
14,800.0	9,220.0	14,248.0	8,550.0	151.3	151.6	-44.57	1,382.5	6,674.7	940.5	713.1	227.39	4.136	
14,900.0	9,220.0	14,348.0	8,550.0	153.7	153.9	-44.57	1,382.9	6,774.7	940.5	709.6	230.85	4.074	
15,000.0	9,220.0	14,448.0	8,550.0	156.0	156.2	-44.57	1,383.3	6,874.7	940.5	706.2	234.31	4.014	
15,100.0	9,220.0	14,548.0	8,550.0	158.3	158.6	-44.57	1,383.6	6,974.7	940.5	702.7	237.78	3.955	

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 161H
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 161H	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 121H - 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
15,200.0	9,220.0	14,648.0	8,550.0		160.7	160.9	-44.57	1,384.0	7,074.7	940.5	699.2	241.25	3.898
15,300.0	9,220.0	14,748.0	8,550.0		163.0	163.3	-44.57	1,384.4	7,174.7	940.5	695.8	244.72	3.843
15,400.0	9,220.0	14,848.0	8,550.0		165.4	165.6	-44.57	1,384.8	7,274.7	940.5	692.3	248.19	3.789
15,500.0	9,220.0	14,948.0	8,550.0		167.7	168.0	-44.57	1,385.2	7,374.7	940.5	688.8	251.67	3.737
15,600.0	9,220.0	15,048.0	8,550.0		170.1	170.3	-44.57	1,385.6	7,474.7	940.5	685.3	255.15	3.686
15,700.0	9,220.0	15,148.0	8,550.0		172.5	172.7	-44.57	1,386.0	7,574.7	940.5	681.8	258.63	3.636
15,800.0	9,220.0	15,248.0	8,550.0		174.8	175.0	-44.57	1,386.3	7,674.7	940.5	678.4	262.11	3.588
15,900.0	9,220.0	15,348.0	8,550.0		177.2	177.4	-44.57	1,386.7	7,774.7	940.5	674.9	265.60	3.541
16,000.0	9,220.0	15,448.0	8,550.0		179.5	179.7	-44.57	1,387.1	7,874.7	940.5	671.4	269.09	3.495
16,100.0	9,220.0	15,548.0	8,550.0		181.9	182.1	-44.57	1,387.5	7,974.7	940.5	667.9	272.58	3.450
16,200.0	9,220.0	15,648.0	8,550.0		184.3	184.4	-44.57	1,387.9	8,074.7	940.5	664.4	276.07	3.407
16,300.0	9,220.0	15,748.0	8,550.0		186.6	186.8	-44.57	1,388.3	8,174.7	940.5	660.9	279.57	3.364
16,400.0	9,220.0	15,848.0	8,550.0		189.0	189.2	-44.57	1,388.7	8,274.7	940.5	657.4	283.07	3.322
16,500.0	9,220.0	15,948.0	8,550.0		191.4	191.5	-44.57	1,389.0	8,374.7	940.5	653.9	286.56	3.282
16,600.0	9,220.0	16,048.0	8,550.0		193.7	193.9	-44.57	1,389.4	8,474.7	940.5	650.4	290.07	3.242
16,700.0	9,220.0	16,148.0	8,550.0		196.1	196.3	-44.57	1,389.8	8,574.7	940.5	646.9	293.57	3.204
16,800.0	9,220.0	16,248.0	8,550.0		198.5	198.6	-44.57	1,390.2	8,674.7	940.5	643.4	297.07	3.166
16,900.0	9,220.0	16,348.0	8,550.0		200.8	201.0	-44.57	1,390.6	8,774.7	940.5	639.9	300.58	3.129
17,000.0	9,220.0	16,448.0	8,550.0		203.2	203.4	-44.57	1,391.0	8,874.7	940.5	636.4	304.08	3.093
17,100.0	9,220.0	16,548.0	8,550.0		205.6	205.7	-44.57	1,391.4	8,974.7	940.5	632.9	307.59	3.058
17,200.0	9,220.0	16,648.0	8,550.0		207.9	208.1	-44.57	1,391.7	9,074.7	940.5	629.4	311.10	3.023
17,300.0	9,220.0	16,748.0	8,550.0		210.3	210.5	-44.57	1,392.1	9,174.7	940.5	625.9	314.61	2.989
17,400.0	9,220.0	16,848.0	8,550.0		212.7	212.9	-44.57	1,392.5	9,274.7	940.5	622.4	318.13	2.956
17,500.0	9,220.0	16,948.0	8,550.0		215.1	215.2	-44.57	1,392.9	9,374.7	940.5	618.8	321.64	2.924
17,600.0	9,220.0	17,048.0	8,550.0		217.4	217.6	-44.57	1,393.3	9,474.7	940.5	615.3	325.16	2.892
17,700.0	9,220.0	17,148.0	8,550.0		219.8	220.0	-44.57	1,393.7	9,574.7	940.5	611.8	328.67	2.861
17,800.0	9,220.0	17,248.0	8,550.0		222.2	222.4	-44.57	1,394.1	9,674.7	940.5	608.3	332.19	2.831
17,900.0	9,220.0	17,348.0	8,550.0		224.6	224.7	-44.57	1,394.4	9,774.7	940.5	604.8	335.71	2.801
18,000.0	9,220.0	17,448.0	8,550.0		227.0	227.1	-44.57	1,394.8	9,874.7	940.5	601.3	339.23	2.772
18,100.0	9,220.0	17,548.0	8,550.0		229.3	229.5	-44.57	1,395.2	9,974.6	940.5	597.7	342.75	2.744
18,200.0	9,220.0	17,648.0	8,550.0		231.7	231.9	-44.57	1,395.6	10,074.6	940.5	594.2	346.27	2.716
18,300.0	9,220.0	17,748.0	8,550.0		234.1	234.3	-44.57	1,396.0	10,174.6	940.5	590.7	349.80	2.689
18,400.0	9,220.0	17,848.0	8,550.0		236.5	236.6	-44.57	1,396.4	10,274.6	940.5	587.2	353.32	2.662
18,500.0	9,220.0	17,948.0	8,550.0		238.9	239.0	-44.57	1,396.7	10,374.6	940.5	583.6	356.85	2.636
18,600.0	9,220.0	18,048.0	8,550.0		241.3	241.4	-44.57	1,397.1	10,474.6	940.5	580.1	360.37	2.610
18,700.0	9,220.0	18,148.0	8,550.0		243.6	243.8	-44.57	1,397.5	10,574.6	940.5	576.6	363.90	2.584
18,800.0	9,220.0	18,248.0	8,550.0		246.0	246.2	-44.57	1,397.9	10,674.6	940.5	573.1	367.43	2.560
18,900.0	9,220.0	18,348.0	8,550.0		248.4	248.5	-44.57	1,398.3	10,774.6	940.5	569.5	370.96	2.535
19,000.0	9,220.0	18,448.0	8,550.0		250.8	250.9	-44.57	1,398.7	10,874.6	940.5	566.0	374.49	2.511
19,100.0	9,220.0	18,548.0	8,550.0		253.2	253.3	-44.57	1,399.1	10,974.6	940.5	562.5	378.02	2.488
19,200.0	9,220.0	18,648.0	8,550.0		255.6	255.7	-44.57	1,399.4	11,074.6	940.5	558.9	381.55	2.465
19,300.0	9,220.0	18,748.0	8,550.0		258.0	258.1	-44.57	1,399.8	11,174.6	940.5	555.4	385.08	2.442
19,400.0	9,220.0	18,848.0	8,550.0		260.3	260.5	-44.57	1,400.2	11,274.6	940.5	551.9	388.61	2.420
19,500.0	9,220.0	18,948.0	8,550.0		262.7	262.9	-44.57	1,400.6	11,374.6	940.5	548.4	392.15	2.398
19,502.9	9,220.0	18,950.9	8,550.0		262.8	262.9	-44.57	1,400.6	11,377.5	940.5	548.2	392.25	2.398
19,536.2	9,220.0	18,981.1	8,550.0		263.6	263.7	-44.57	1,400.7	11,407.7	940.5	547.1	393.42	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 161H
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 161H	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

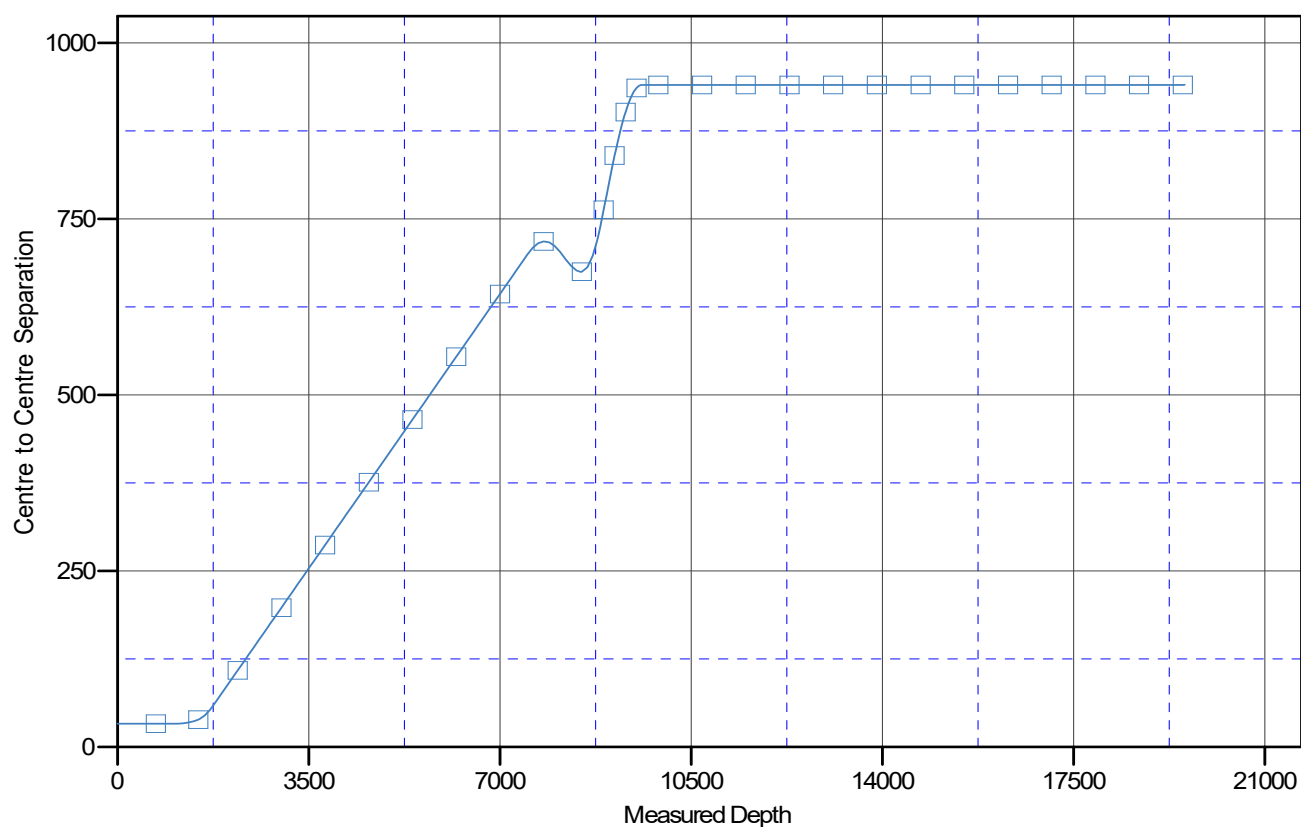
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ASTRODOG 0810 161H

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

Grid Convergence at Surface is: 0.17°

Ladder Plot**LEGEND**

—■— ASTRODOG0810 121H.OWB.PWP0 V0

PERMIAN**RESOURCES**

Anticollision Report

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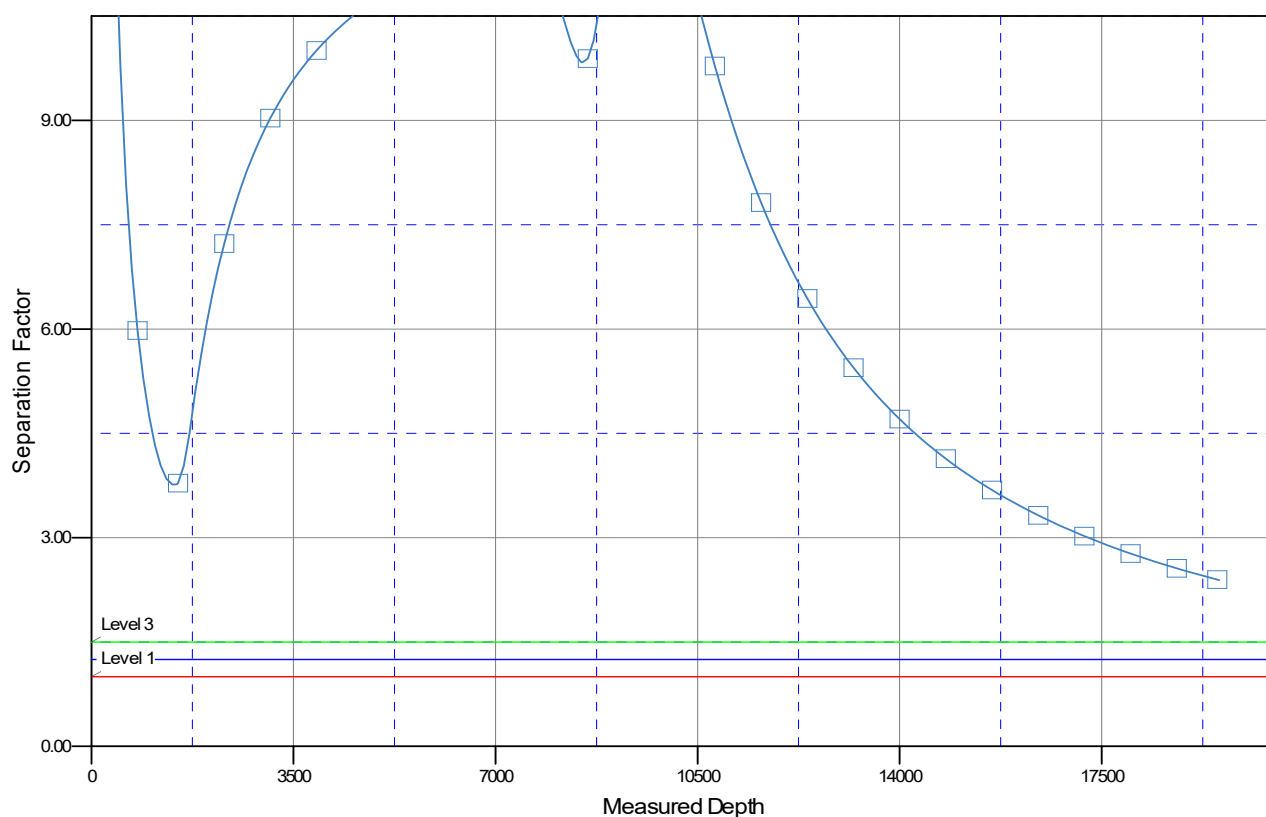
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ASTRODOG 0810 161H

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

Grid Convergence at Surface is: 0.17°

Separation Factor Plot**LEGEND**

—■— ASTRODOG0810 121H, OWB/PWP0

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

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 491967

CONDITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 491967
	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