

Well Name: CARSON 32-5-21	Well Location: T32N / R5W / SEC 21 / SESW / 36.9610825 / -107.3715676	County or Parish/State: RIO ARRIBA / NM
Well Number: 1H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM130342	Unit or CA Name:	Unit or CA Number:
US Well Number: 3003931399	Operator: COLEMAN OIL & GAS INCORPORATED	

Notice of Intent

Sundry ID: 2855381

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 05/30/2025

Time Sundry Submitted: 09:57

Date proposed operation will begin: 06/01/2025

Procedure Description: Coleman Oil & Gas, Inc Respectfully request a transfer of the approved APD on the Carson 32-5-21 1H API# 30-039-31399, to a new surface hole location of 2476' FSL & 1713' FWL Section 28, T32N R5W. NOS was filed previously for the new surface hole location. The new surface hole location will utilize and existing pad and reduce disturbance. Access will be the same as Morningstar Operating Quintana Mesa 100, API# 30-039-24454. The pipeline connects with Harvest on the existing well pad. See the attached drilling Operation and Directional Plans for new surface hole location. Surface hole will be on CNF and CNF will schedule onsite and amend SUPO following APD transfer.

NOI Attachments

Procedure Description

Carson_32_5_21_1H_Lat_2_Plan_3_20250530094906.pdf

Carson_32_5_21_1H_Lat_1_Plan_3_20250530094907.pdf

Carson_32_5_21_1H_PH_Plan_3_20250530094907.pdf

COG_Carson_32_5_21_1H_9_Point_BLM_Drilling_Plan_05_30_2025_20250530094841.pdf

Well Name: CARSON_32_5_21

Well Location: T32N / R5W / SEC 21 /
SESW / 36.9610825 / -107.3715676County or Parish/State: RIO
ARRIBA / NM

Well Number: 1H

Type of Well: CONVENTIONAL GAS
WELL

Allottee or Tribe Name:

Lease Number: NMNM130342

Unit or CA Name:

Unit or CA Number:

US Well Number: 3003931399

Operator: COLEMAN OIL & GAS
INCORPORATED**Conditions of Approval****Additional**

Carson_32_5_21_001_COAs_20250609112637.pdf

Coleman_Oil_and_Gas_Inc_Carson_32_5_21_1H_APD_Change_2855381_MHK_20250602112737.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: MIKE HANSON

Signed on: MAY 30, 2025 09:53 AM

Name: COLEMAN OIL & GAS INCORPORATED

Title: ENGINEER

Street Address: NOT ENTERED

City: FARMINGTON

State: NM

Phone: (505) 566-1996

Email address: mhanson@cog-gmn.com

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: DAVE J MANKIEWICZ

BLM POC Title: AFM-Minerals

BLM POC Phone: 5055647761

BLM POC Email Address: DMANKIEW@BLM.GOV

Disposition: Approved

Disposition Date: 06/16/2025

Signature: Dave J Mankiewicz

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
		☐ Initial Submittal
		☐ Amended Report
	Submittal Type:	☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
Property Code	Property Name CARSON 32-5-21	Well Number 1H
OGRUD No.	Operator Name COLEMAN OIL & GAS, INC.	Ground Level Elevation 7174.0
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL K	Section 28	Township 32 N	Range 5 W	Lot	Ft. from N/S 2476 FSL	Ft. from E/W 1713 FWL	Latitude 36.9508372° N	Longitude 107.3709081° W	County RIO ARRIBA
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Pilot Bottom Hole Location

UL N	Section 21	Township 32 N	Range 5 W	Lot	Ft. from N/S 1192 FSL	Ft. from E/W 1737 FWL	Latitude 36.9617958° N	Longitude 107.3708409° W	County RIO ARRIBA
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Lateral 1 Bottom Hole Location

UL C	Section 21	Township 32 N	Range 5 W	Lot	Ft. from N/S 710 FNL	Ft. from E/W 1927 FWL	Latitude 36.9710604° N	Longitude 107.3702199° W	County RIO ARRIBA
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Lateral 2 Bottom Hole Location

UL C	Section 21	Township 32 N	Range 5 W	Lot	Ft. from N/S 660 FNL	Ft. from E/W 1369 FWL	Latitude 36.9711979° N	Longitude 107.3721303° W	County RIO ARRIBA
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Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers.			Well setbacks are under Common Ownership: ☐ Yes ☐ No	

Lateral 1 Kick Off Point (KOP)

UL N	Section 21	Township 32 N	Range 5 W	Lot	Ft. from N/S 791 FSL	Ft. from E/W 1734 FWL	Latitude 36.9606920° N	Longitude 107.3708480° W	County RIO ARRIBA
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Lateral 2 Kick Off Point (KOP)

UL N	Section 21	Township 32 N	Range 5 W	Lot	Ft. from N/S 750 FSL	Ft. from E/W 1734 FWL	Latitude 36.9605810° N	Longitude 107.3708480° W	County RIO ARRIBA
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Lateral 1 First Take Point (FTP)

UL N	Section 21	Township 32 N	Range 5 W	Lot	Ft. from N/S 1142 FSL	Ft. from E/W 1800 FWL	Latitude 36.9616570° N	Longitude 107.3706270° W	County RIO ARRIBA
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Lateral 2 First Take Point (FTP)

UL N	Section 21	Township 32 N	Range 5 W	Lot	Ft. from N/S 1146 FSL	Ft. from E/W 1603 FWL	Latitude 36.9616680° N	Longitude 107.3712990° W	County RIO ARRIBA
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Lateral 1 Last Take Point (LTP)

UL C	Section 21	Township 32 N	Range 5 W	Lot	Ft. from N/S 710 FNL	Ft. from E/W 1927 FWL	Latitude 36.9710604° N	Longitude 107.3702199° W	County RIO ARRIBA
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Lateral 2 Last Take Point (LTP)

UL C	Section 21	Township 32 N	Range 5 W	Lot	Ft. from N/S 660 FNL	Ft. from E/W 1369 FWL	Latitude 36.9711979° N	Longitude 107.3721303° W	County RIO ARRIBA
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☐ Horizontal ☐ Vertical	Ground Floor Elevation:
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OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is 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.

Signature: *Michael T. Hanson* Date: 8-11-2025
 Printed Name: Michael T. Hanson
 E-mail Address: mhanson@co9-law.com

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.

JOHN A. VUKONICH
 NEW MEXICO
 14831
 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

Certificate Number

Date of Survey

14831

8/7/24

10/4/2024

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

ACREAGE DEDICATION PLATS

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

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

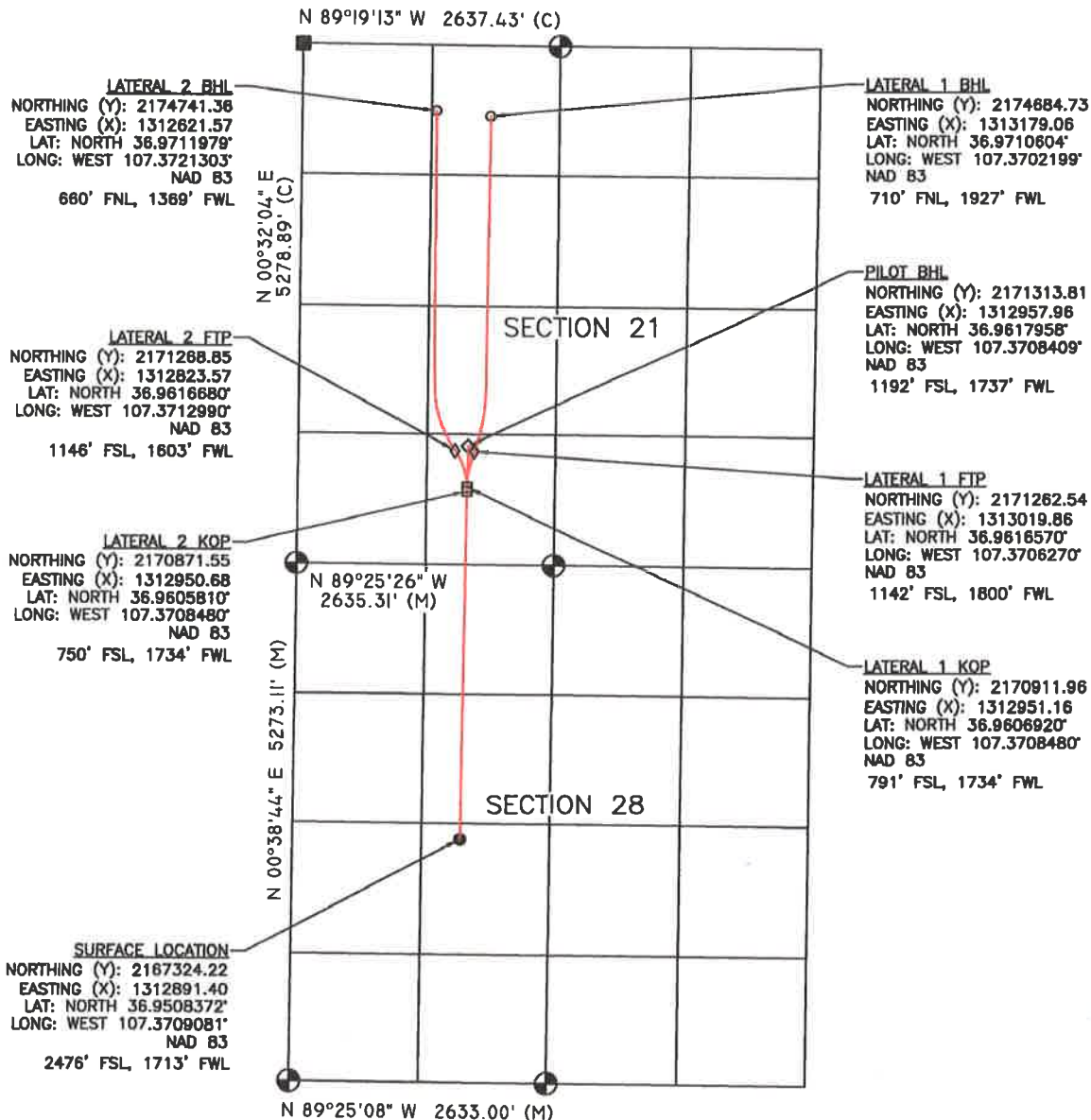
Plat Revised: 10/02/24

LEGEND:

- = SURFACE LOCATION (SHL)
- = KICK OFF POINT (KOP)
- ◇ = FIRST TAKE POINT (FTP)
- = LAST TAKE POINT (LTP) / BOTTOM HOLE LOCATION (BHL)
- ◇ = PILOT BHL
- ⊕ = FOUND 1924 U.S.G.L.O. BRASS CAP
- = SECTION CORNER CALCULATED FROM WITNESS CORNER
- (C) = CALCULATED
- (M) = MEASURED

NOTE: BEARINGS AND DISTANCES SHOWN ARE REFERENCED TO THE NEW MEXICO COORDINATE SYSTEM, CENTRAL ZONE, NAD 83, UNLESS OTHERWISE NOTED

NOTE: DOWNHOLE INFORMATION TAKEN FROM A REPORT FURNISHED BY COLEMAN OIL & GAS, INC. DATED 9/26/24



Carson 32-5-21 1 Alt, Lat 1 PL 3

**Coleman Oil & Gas
Proposal Report**

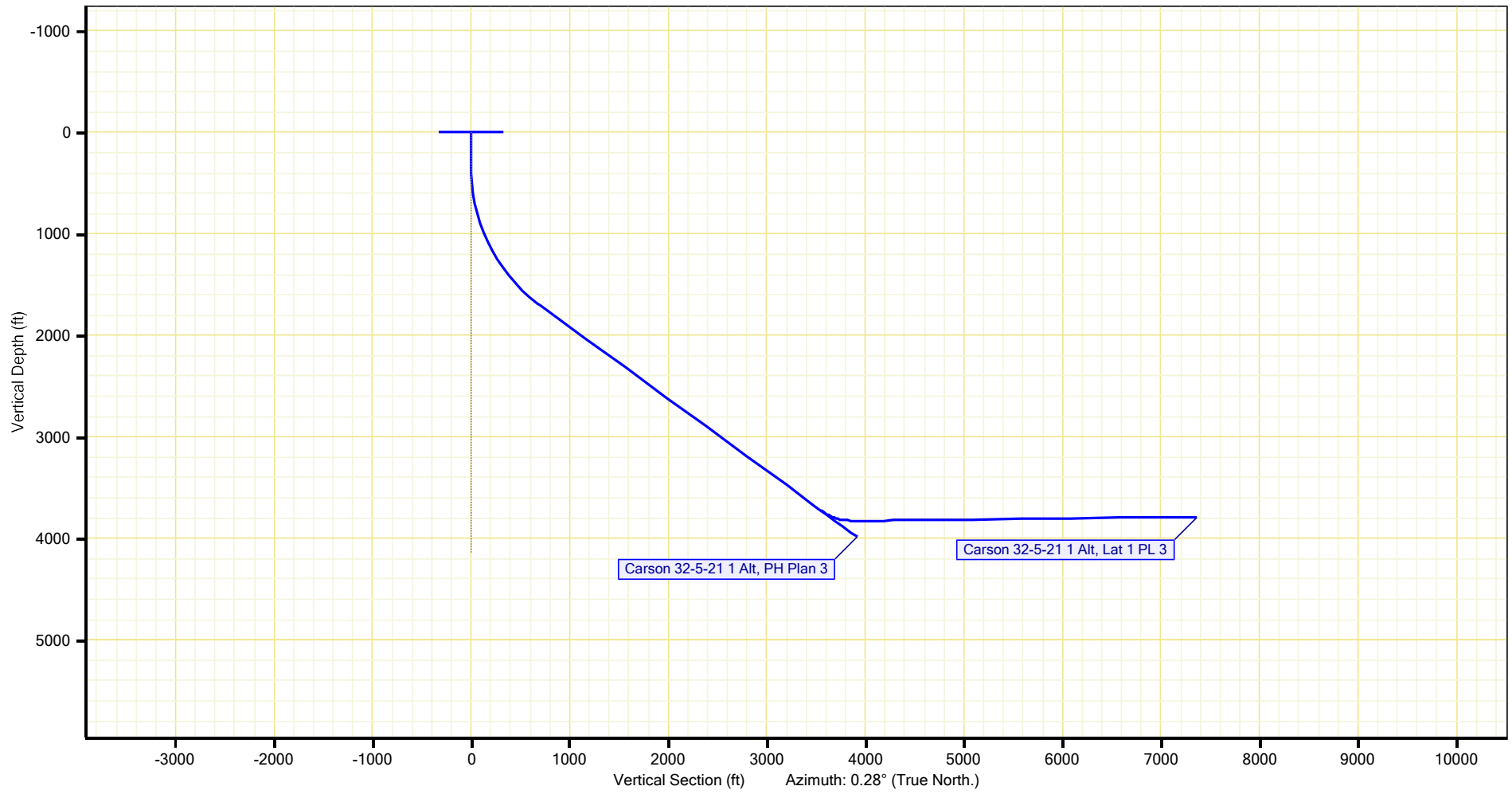
KellyDown - Version: 4.01.02.04





Carson

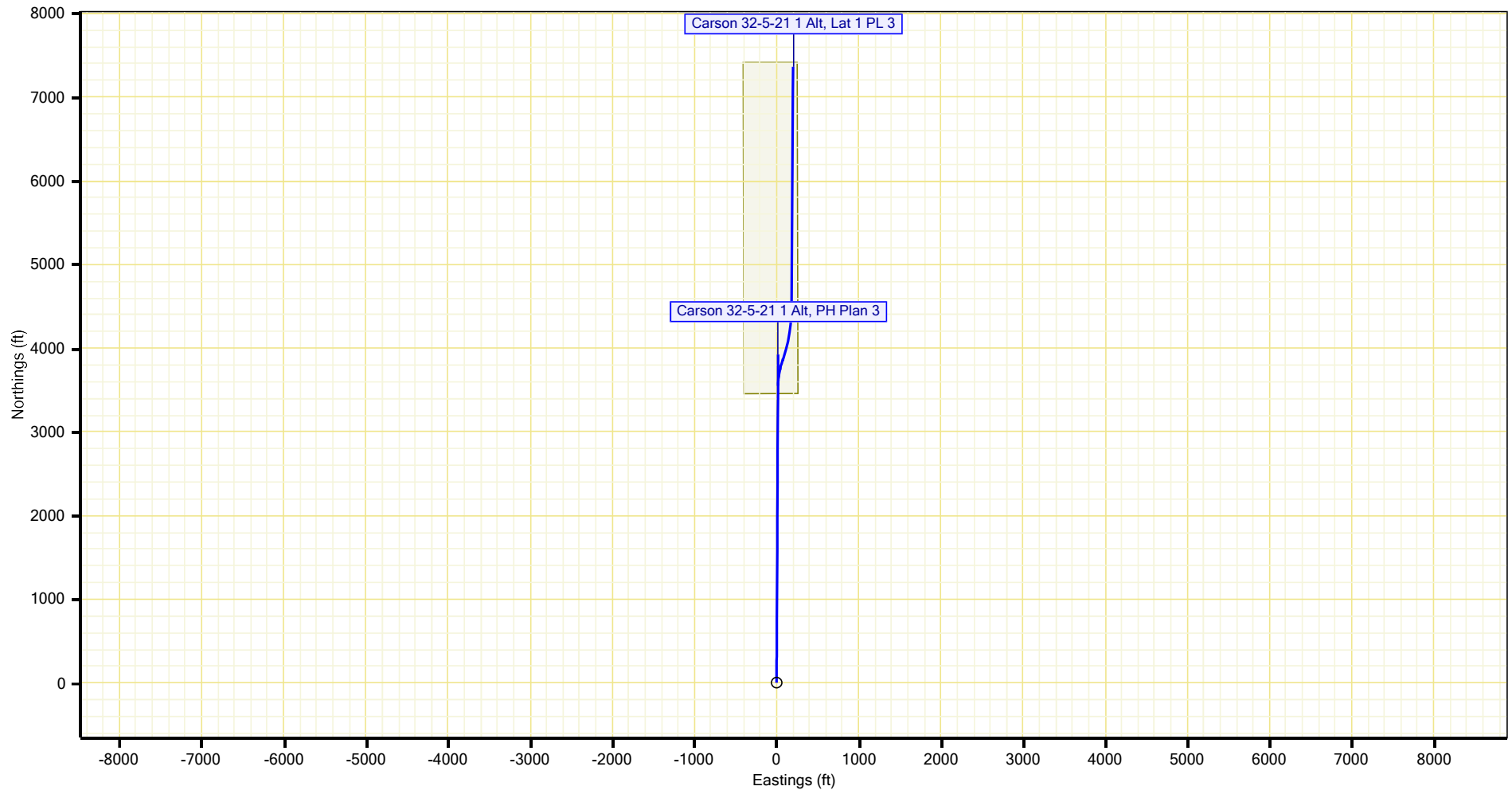
Carson 32-5-21 1 Alt





Carson

Carson 32-5-21 1 Alt



Coleman Oil & Gas

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	Carson 32-5-21 1 Alt
Company:		TVD Reference:	Carson 32-5-21 1 Alt
Project:	Carson	MD Reference:	Carson 32-5-21 1 Alt
Site:	Carson 32-5-21 1 Alt	North reference:	True North
Well:	Carson 32-5-21 1 Alt	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	Lat 1 PL 3		

Project	Carson		
Map System:	NAD83 New Mexico State Planes	System Datum:	Mean Sea Level
Geo Datum:	NAD 1983		
Map Zone:	Western Zone		

Site	Carson 32-5-21 1 Alt				
Site Position:		Northing:	2165785.52 N	Latitude:	36.95090200° N
From:	Map	Easting:	2858178.95 E	Longitude:	107.37101700° W
Position Uncertainty:	0.00ft	Slot Radius:	0in	Grid Convergence:	0.28°

Well	Carson 32-5-21 1 Alt					
Well Position:	+N/-S	-23.59ft	Northing:	2165762.08 N	Latitude:	36.95083720° N
	+E/-W	31.82ft	Easting:	2858210.89 E	Longitude:	107.37090810° W
Position Uncertainty:		1.00ft	Wellhead Elevation:	7190.00ft	Ground Level:	7174.00ft

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	USER DEFINED	5/19/2025	0.00	0.00	0.0

Proposal	Lat 1 PL 3		
Audit Notes:			
Version:	Phase:	Tie On Depth:	5430.00ft

Vertical Section:	Depth from TVD (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	1.56

Survey Program		5/19/2025		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	5430.00	PH Plan 3	MWD	MWD
5430.00	9279.53	Lat 1 PL 3	MWD	MWD

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
5430.00	54.65	0.28	3725.88	3552.89	17.46					
5759.04	90.00	19.00	3825.00	3854.64	73.92	12.0	10.7	5.7	30.36	
5769.04	90.00	19.00	3825.00	3864.09	77.18	0.0	0.0	0.0	0.00	
6389.70	90.68	0.39	3821.29	4473.18	181.25	3.0	0.1	-3.0	-87.87	
9279.53	90.68	0.39	3787.00	7362.74	201.03	0.0	0.0	0.0	0.00	L1 BHL

Planned Survey											
Measured Depth	Incl.	Az.	Vertical Depth	Sub Sea Depth	+N/-S	+E/-W	Vertical Section	Closure Distance	Closure Azimuth	Dogleg Rate	Comments/ Formations
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(°/100ft)	
0.00	0.00	0.00	0.00	-7190.00	0.00	0.00	0.00	0.00	0.00	0.0	MWD
100.00	0.00	0.00	100.00	-7090.00	0.00	0.00	0.00	0.00	0.00	0.0	
200.00	0.00	0.00	200.00	-6990.00	0.00	0.00	0.00	0.00	0.00	0.0	
300.00	0.00	0.00	300.00	-6890.00	0.00	0.00	0.00	0.00	0.00	0.0	
350.00	0.00	0.00	350.00	-6840.00	0.00	0.00	0.00	0.00	0.00	0.0	

Coleman Oil & Gas

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	Carson 32-5-21 1 Alt
Company:		TVD Reference:	Carson 32-5-21 1 Alt
Project:	Carson	MD Reference:	Carson 32-5-21 1 Alt
Site:	Carson 32-5-21 1 Alt	North reference:	True North
Well:	Carson 32-5-21 1 Alt	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	Lat 1 PL 3		

Planned Survey											
Measured Depth (ft)	Incl. (°)	Az. (°)	Vertical Depth (ft)	Sub Sea Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Closure Distance (ft)	Closure Azimuth (°)	Dogleg Rate (°/100ft)	Comments/ Formations
400.00	1.73	0.28	399.99	-6790.01	0.75	0.00	0.75	0.75	0.28	3.5	
500.00	5.19	0.28	499.80	-6690.20	6.79	0.03	6.78	6.79	0.28	3.5	
600.00	8.65	0.28	599.05	-6590.95	18.83	0.09	18.82	18.83	0.28	3.5	
700.00	12.11	0.28	697.40	-6492.60	36.83	0.18	36.83	36.84	0.28	3.5	
800.00	15.56	0.28	794.49	-6395.51	60.74	0.30	60.73	60.74	0.28	3.5	
900.00	19.02	0.28	889.95	-6300.05	90.46	0.44	90.44	90.46	0.28	3.5	
1000.00	22.48	0.28	983.45	-6206.55	125.89	0.62	125.86	125.89	0.28	3.5	
1100.00	25.94	0.28	1074.64	-6115.36	166.89	0.82	166.85	166.89	0.28	3.5	
1200.00	29.40	0.28	1163.19	-6026.81	213.32	1.05	213.27	213.32	0.28	3.5	
1300.00	32.86	0.28	1248.78	-5941.22	265.00	1.30	264.94	265.01	0.28	3.5	
1400.00	36.32	0.28	1331.10	-5858.90	321.76	1.58	321.68	321.76	0.28	3.5	
1500.00	39.77	0.28	1409.84	-5780.16	383.38	1.88	383.28	383.38	0.28	3.5	
1600.00	43.23	0.28	1484.72	-5705.28	449.63	2.21	449.52	449.64	0.28	3.5	
1700.00	46.69	0.28	1555.47	-5634.53	520.28	2.56	520.16	520.29	0.28	3.5	
1800.00	50.15	0.28	1621.82	-5568.18	595.07	2.92	594.93	595.08	0.28	3.5	
1900.00	53.61	0.28	1683.55	-5506.45	673.73	3.31	673.57	673.74	0.28	3.5	
1930.27	54.65	0.28	1701.28	-5488.72	698.26	3.43	698.09	698.27	0.28	3.5	
2000.00	54.65	0.28	1741.62	-5448.38	755.14	3.71	754.96	755.15	0.28	0.0	
2100.00	54.65	0.28	1799.47	-5390.53	836.70	4.11	836.50	836.71	0.28	0.0	
2200.00	54.65	0.28	1857.32	-5332.68	918.27	4.51	918.05	918.28	0.28	0.0	
2300.00	54.65	0.28	1915.17	-5274.83	999.84	4.91	999.60	999.85	0.28	0.0	
2400.00	54.65	0.28	1973.02	-5216.98	1081.41	5.31	1081.15	1081.42	0.28	0.0	
2500.00	54.65	0.28	2030.87	-5159.13	1162.97	5.71	1162.70	1162.99	0.28	0.0	
2600.00	54.65	0.28	2088.72	-5101.28	1244.54	6.11	1244.24	1244.56	0.28	0.0	
2700.00	54.65	0.28	2146.57	-5043.43	1326.11	6.52	1325.79	1326.12	0.28	0.0	
2800.00	54.65	0.28	2204.42	-4985.58	1407.67	6.92	1407.34	1407.69	0.28	0.0	
2900.00	54.65	0.28	2262.27	-4927.73	1489.24	7.32	1488.89	1489.26	0.28	0.0	
3000.00	54.65	0.28	2320.12	-4869.88	1570.81	7.72	1570.43	1570.83	0.28	0.0	
3100.00	54.65	0.28	2377.97	-4812.03	1652.38	8.12	1651.98	1652.40	0.28	0.0	
3200.00	54.65	0.28	2435.82	-4754.18	1733.94	8.52	1733.53	1733.96	0.28	0.0	
3300.00	54.65	0.28	2493.67	-4696.33	1815.51	8.92	1815.08	1815.53	0.28	0.0	
3400.00	54.65	0.28	2551.52	-4638.48	1897.08	9.32	1896.62	1897.10	0.28	0.0	
3500.00	54.65	0.28	2609.37	-4580.63	1978.64	9.72	1978.17	1978.67	0.28	0.0	
3600.00	54.65	0.28	2667.22	-4522.78	2060.21	10.12	2059.72	2060.24	0.28	0.0	
3700.00	54.65	0.28	2725.07	-4464.93	2141.78	10.52	2141.27	2141.80	0.28	0.0	
3800.00	54.65	0.28	2782.92	-4407.08	2223.35	10.92	2222.82	2223.37	0.28	0.0	
3900.00	54.65	0.28	2840.77	-4349.23	2304.91	11.32	2304.36	2304.94	0.28	0.0	
4000.00	54.65	0.28	2898.62	-4291.38	2386.48	11.73	2385.91	2386.51	0.28	0.0	
4100.00	54.65	0.28	2956.47	-4233.53	2468.05	12.13	2467.46	2468.08	0.28	0.0	
4200.00	54.65	0.28	3014.32	-4175.68	2549.61	12.53	2549.01	2549.65	0.28	0.0	
4300.00	54.65	0.28	3072.17	-4117.83	2631.18	12.93	2630.55	2631.21	0.28	0.0	
4400.00	54.65	0.28	3130.02	-4059.98	2712.75	13.33	2712.10	2712.78	0.28	0.0	
4500.00	54.65	0.28	3187.87	-4002.13	2794.32	13.73	2793.65	2794.35	0.28	0.0	
4600.00	54.65	0.28	3245.72	-3944.28	2875.88	14.13	2875.20	2875.92	0.28	0.0	
4700.00	54.65	0.28	3303.57	-3886.43	2957.45	14.53	2956.74	2957.49	0.28	0.0	
4800.00	54.65	0.28	3361.42	-3828.58	3039.02	14.93	3038.29	3039.05	0.28	0.0	
4900.00	54.65	0.28	3419.28	-3770.72	3120.58	15.33	3119.84	3120.62	0.28	0.0	
5000.00	54.65	0.28	3477.13	-3712.87	3202.15	15.73	3201.39	3202.19	0.28	0.0	
5100.00	54.65	0.28	3534.98	-3655.02	3283.72	16.13	3282.94	3283.76	0.28	0.0	
5200.00	54.65	0.28	3592.83	-3597.17	3365.29	16.53	3364.48	3365.33	0.28	0.0	

Coleman Oil & Gas

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	Carson 32-5-21 1 Alt
Company:		TVD Reference:	Carson 32-5-21 1 Alt
Project:	Carson	MD Reference:	Carson 32-5-21 1 Alt
Site:	Carson 32-5-21 1 Alt	North reference:	True North
Well:	Carson 32-5-21 1 Alt	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	Lat 1 PL 3		

Planned Survey											
Measured Depth (ft)	Incl. (°)	Az. (°)	Vertical Depth (ft)	Sub Sea Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Closure Distance (ft)	Closure Azimuth (°)	Dogleg Rate (°/100ft)	Comments/ Formations
5300.00	54.65	0.28	3650.68	-3539.32	3446.85	16.94	3446.03	3446.89	0.28	0.0	KOP
5316.12	54.65	0.28	3660.00	-3530.00	3460.00	17.00	3459.17	3460.04	0.28	0.0	
5400.00	54.65	0.28	3708.53	-3481.47	3528.42	17.34	3527.58	3528.46	0.28	0.0	
5430.00	54.65	0.28	3725.88	-3464.12	3552.89	17.46	3552.04	3552.93	0.28	0.0	
5500.00	61.99	5.07	3762.63	-3427.37	3612.32	20.33	3611.53	3612.38	0.32	12.0	
5600.00	72.70	10.90	3801.13	-3388.87	3703.50	33.31	3703.03	3703.65	0.52	12.0	
5700.00	83.56	16.07	3821.68	-3368.32	3798.47	56.17	3798.58	3798.88	0.85	12.0	
5759.04	90.00	19.00	3825.00	-3365.00	3854.64	73.92	3855.22	3855.35	1.10	12.0	
5769.04	90.00	19.00	3825.00	-3365.00	3864.09	77.18	3864.76	3864.86	1.14	0.0	
5800.00	90.03	18.07	3824.99	-3365.01	3893.44	87.02	3894.37	3894.42	1.28	3.0	
5900.00	90.15	15.07	3824.83	-3365.17	3989.28	115.54	3990.95	3990.95	1.66	3.0	
6000.00	90.26	12.08	3824.48	-3365.52	4086.47	139.01	4088.75	4088.84	1.95	3.0	
6100.00	90.37	9.08	3823.94	-3366.06	4184.76	157.36	4187.50	4187.72	2.15	3.0	
6200.00	90.48	6.08	3823.20	-3366.80	4283.87	170.55	4286.93	4287.27	2.28	3.0	
6300.00	90.58	3.08	3822.28	-3367.72	4383.54	178.53	4386.78	4387.17	2.33	3.0	
6389.70	90.68	0.39	3821.29	-3368.71	4473.18	181.25	4476.47	4476.86	2.32	3.0	
6400.00	90.68	0.39	3821.16	-3368.84	4483.48	181.32	4486.76	4487.15	2.32	0.0	
6500.00	90.68	0.39	3819.98	-3370.02	4583.47	182.01	4586.73	4587.09	2.27	0.0	
6600.00	90.68	0.39	3818.79	-3371.21	4683.47	182.69	4686.71	4687.03	2.23	0.0	
6700.00	90.68	0.39	3817.60	-3372.40	4783.46	183.38	4786.68	4786.97	2.20	0.0	
6800.00	90.68	0.39	3816.42	-3373.58	4883.45	184.06	4886.65	4886.91	2.16	0.0	
6900.00	90.68	0.39	3815.23	-3374.77	4983.44	184.75	4986.62	4986.86	2.12	0.0	
7000.00	90.68	0.39	3814.04	-3375.96	5083.43	185.43	5086.59	5086.81	2.09	0.0	
7100.00	90.68	0.39	3812.86	-3377.14	5183.42	186.11	5186.57	5186.76	2.06	0.0	
7200.00	90.68	0.39	3811.67	-3378.33	5283.41	186.80	5286.54	5286.71	2.02	0.0	
7300.00	90.68	0.39	3810.49	-3379.51	5383.40	187.48	5386.51	5386.66	1.99	0.0	
7400.00	90.68	0.39	3809.30	-3380.70	5483.39	188.17	5486.48	5486.62	1.97	0.0	
7500.00	90.68	0.39	3808.11	-3381.89	5583.38	188.85	5586.46	5586.57	1.94	0.0	
7600.00	90.68	0.39	3806.93	-3383.07	5683.37	189.54	5686.43	5686.53	1.91	0.0	
7700.00	90.68	0.39	3805.74	-3384.26	5783.36	190.22	5786.40	5786.49	1.88	0.0	
7800.00	90.68	0.39	3804.55	-3385.45	5883.35	190.91	5886.37	5886.45	1.86	0.0	
7900.00	90.68	0.39	3803.37	-3386.63	5983.34	191.59	5986.34	5986.41	1.83	0.0	
8000.00	90.68	0.39	3802.18	-3387.82	6083.33	192.27	6086.32	6086.37	1.81	0.0	
8100.00	90.68	0.39	3800.99	-3389.01	6183.32	192.96	6186.29	6186.33	1.79	0.0	
8200.00	90.68	0.39	3799.81	-3390.19	6283.32	193.64	6286.26	6286.30	1.77	0.0	
8300.00	90.68	0.39	3798.62	-3391.38	6383.31	194.33	6386.23	6386.26	1.74	0.0	
8400.00	90.68	0.39	3797.43	-3392.57	6483.30	195.01	6486.20	6486.23	1.72	0.0	
8500.00	90.68	0.39	3796.25	-3393.75	6583.29	195.70	6586.18	6586.19	1.70	0.0	
8600.00	90.68	0.39	3795.06	-3394.94	6683.28	196.38	6686.15	6686.16	1.68	0.0	
8700.00	90.68	0.39	3793.88	-3396.12	6783.27	197.07	6786.12	6786.13	1.66	0.0	
8800.00	90.68	0.39	3792.69	-3397.31	6883.26	197.75	6886.09	6886.10	1.65	0.0	
8900.00	90.68	0.39	3791.50	-3398.50	6983.25	198.43	6986.06	6986.07	1.63	0.0	
9000.00	90.68	0.39	3790.32	-3399.68	7083.24	199.12	7086.04	7086.04	1.61	0.0	
9100.00	90.68	0.39	3789.13	-3400.87	7183.23	199.80	7186.01	7186.01	1.59	0.0	
9200.00	90.68	0.39	3787.94	-3402.06	7283.22	200.49	7285.98	7285.98	1.58	0.0	
9279.53	90.68	0.39	3787.00	-3403.00	7362.74	201.03	7365.49	7365.49	1.56	0.0	L1 BHL

Coleman Oil & Gas
Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	Carson 32-5-21 1 Alt
Company:		TVD Reference:	Carson 32-5-21 1 Alt
Project:	Carson	MD Reference:	Carson 32-5-21 1 Alt
Site:	Carson 32-5-21 1 Alt	North reference:	True North
Well:	Carson 32-5-21 1 Alt	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	Lat 1 PL 3		

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
-hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
-Shape									
L1 BHL			3787.00	7362.74	201.03	2173125.71 N	2858376.20 E	36.97106040° N	107.37021990° W
- proposal hits the target center									
- Point									

Checked By:	Approved By:	Date:
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Carson 32-5-21 1 Alt, Lat 2 PL 3

**Coleman Oil & Gas
Proposal Report**

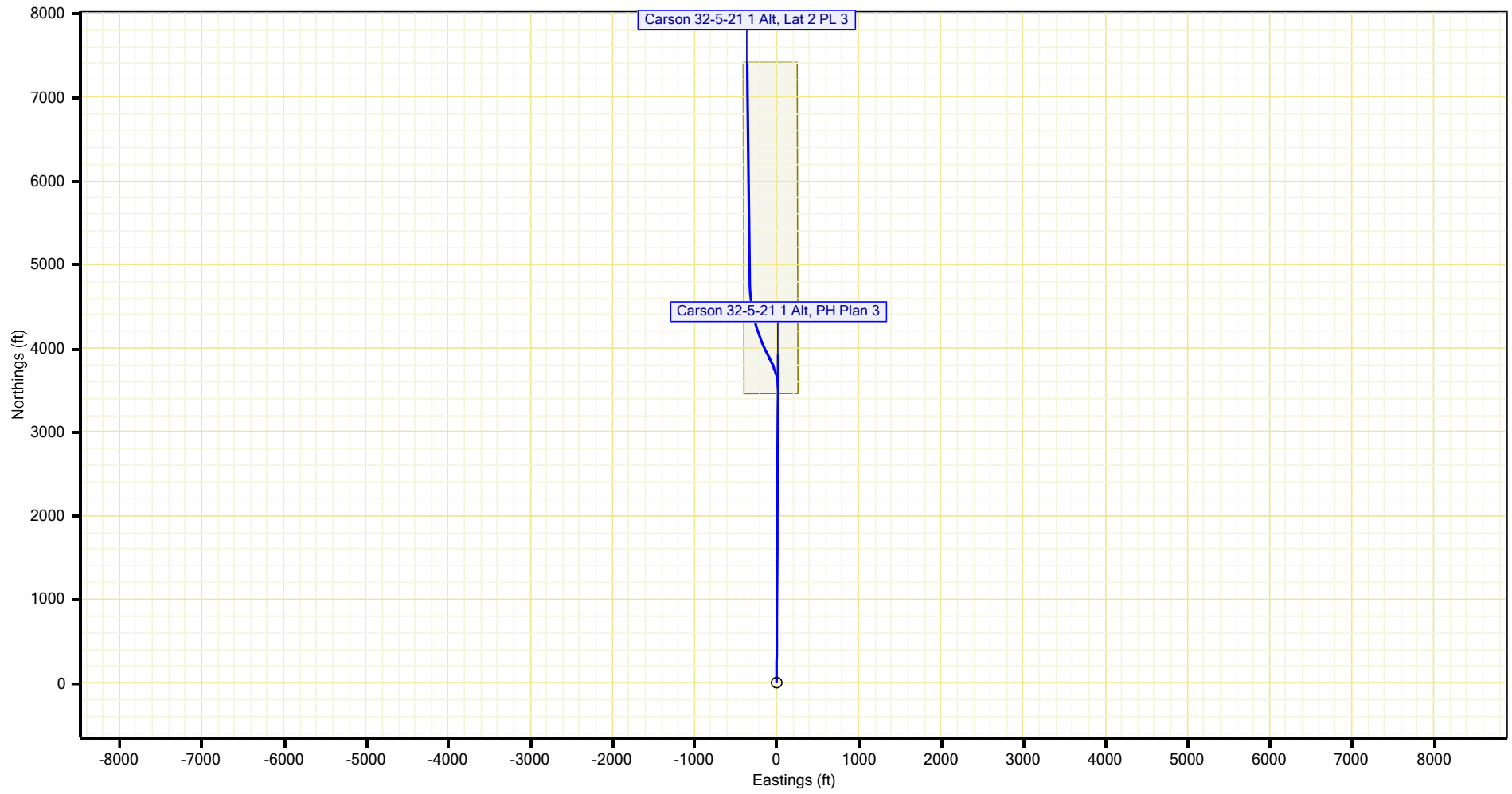
KellyDown - Version: 4.01.02.04





Carson

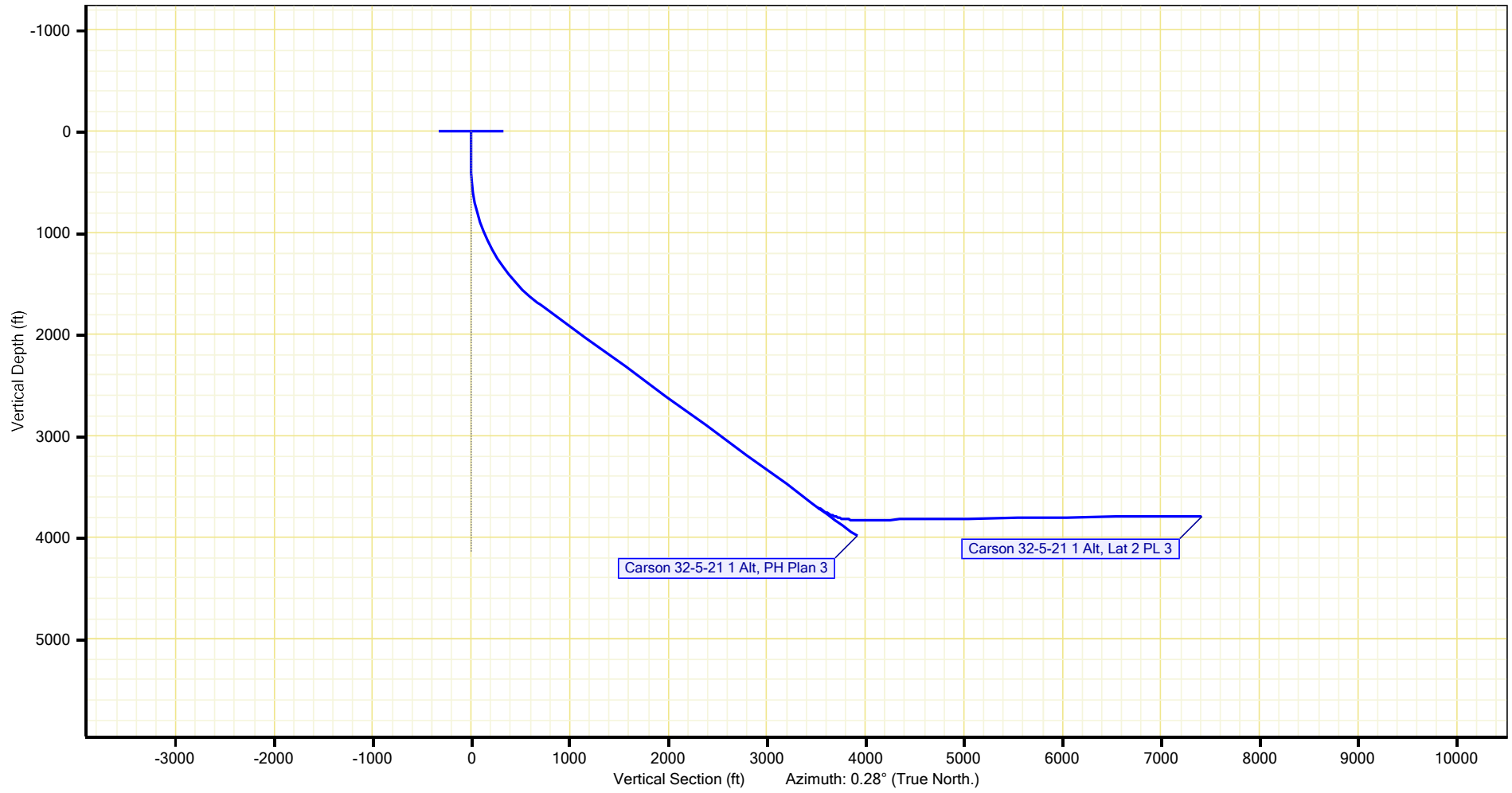
Carson 32-5-21 1 Alt





Carson

Carson 32-5-21 1 Alt



Coleman Oil & Gas

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	Carson 32-5-21 1 Alt
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Project:	Carson	MD Reference:	Carson 32-5-21 1 Alt
Site:	Carson 32-5-21 1 Alt	North reference:	True North
Well:	Carson 32-5-21 1 Alt	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	Lat 2 PL 3		

Project	Carson		
Map System:	NAD83 New Mexico State Planes	System Datum:	Mean Sea Level
Geo Datum:	NAD 1983		
Map Zone:	Western Zone		

Site	Carson 32-5-21 1 Alt				
Site Position:		Northing:	2165785.52 N	Latitude:	36.95090200° N
From:	Map	Easting:	2858178.95 E	Longitude:	107.37101700° W
Position Uncertainty:	0.00ft	Slot Radius:	0in	Grid Convergence:	0.28°

Well	Carson 32-5-21 1 Alt					
Well Position:	+N/-S	-23.59ft	Northing:	2165762.08 N	Latitude:	36.95083720° N
	+E/-W	31.82ft	Easting:	2858210.89 E	Longitude:	107.37090810° W
Position Uncertainty:		1.00ft	Wellhead Elevation:	7190.00ft	Ground Level:	7174.00ft

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	USER DEFINED	5/19/2025	0.00	0.00	0.0

Proposal	Lat 2 PL 3		
Audit Notes:			
Version:	Phase:	Tie On Depth:	5390.00ft

Vertical Section:	Depth from TVD (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	357.24

Survey Program		5/19/2025		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	5390.00	PH Plan 3	MWD	MWD
5390.00	9368.18	Lat 2 PL 3	MWD	MWD

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
5390.00	54.65	0.28	3702.74	3520.26	17.30					
5791.06	90.00	331.00	3825.00	3877.48	-84.31	11.1	8.8	-7.3	-44.11	
5796.06	90.00	331.00	3825.00	3881.85	-86.74	0.0	0.0	0.0	0.00	
6740.52	90.70	359.33	3819.11	4785.53	-326.13	3.0	0.1	3.0	88.52	
9368.18	90.70	359.33	3787.00	7412.80	-357.04	0.0	0.0	0.0	0.00	L2 BHL

Planned Survey											
Measured Depth (ft)	Incl. (°)	Az. (°)	Vertical Depth (ft)	Sub Sea Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Closure Distance (ft)	Closure Azimuth (°)	Dogleg Rate (°/100ft)	Comments/ Formations
0.00	0.00	0.00	0.00	-7190.00	0.00	0.00	0.00	0.00	0.00	0.0	MWD
100.00	0.00	0.00	100.00	-7090.00	0.00	0.00	0.00	0.00	0.00	0.0	
200.00	0.00	0.00	200.00	-6990.00	0.00	0.00	0.00	0.00	0.00	0.0	
300.00	0.00	0.00	300.00	-6890.00	0.00	0.00	0.00	0.00	0.00	0.0	
350.00	0.00	0.00	350.00	-6840.00	0.00	0.00	0.00	0.00	0.00	0.0	

Coleman Oil & Gas

Proposal Report



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Company:		TVD Reference:	Carson 32-5-21 1 Alt
Project:	Carson	MD Reference:	Carson 32-5-21 1 Alt
Site:	Carson 32-5-21 1 Alt	North reference:	True North
Well:	Carson 32-5-21 1 Alt	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	Lat 2 PL 3		

Planned Survey											
Measured Depth (ft)	Incl. (°)	Az. (°)	Vertical Depth (ft)	Sub Sea Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Closure Distance (ft)	Closure Azimuth (°)	Dogleg Rate (°/100ft)	Comments/ Formations
400.00	1.73	0.28	399.99	-6790.01	0.75	0.00	0.75	0.75	0.28	3.5	
500.00	5.19	0.28	499.80	-6690.20	6.79	0.03	6.78	6.79	0.28	3.5	
600.00	8.65	0.28	599.05	-6590.95	18.83	0.09	18.80	18.83	0.28	3.5	
700.00	12.11	0.28	697.40	-6492.60	36.83	0.18	36.78	36.84	0.28	3.5	
800.00	15.56	0.28	794.49	-6395.51	60.74	0.30	60.66	60.74	0.28	3.5	
900.00	19.02	0.28	889.95	-6300.05	90.46	0.44	90.34	90.46	0.28	3.5	
1000.00	22.48	0.28	983.45	-6206.55	125.89	0.62	125.71	125.89	0.28	3.5	
1100.00	25.94	0.28	1074.64	-6115.36	166.89	0.82	166.66	166.89	0.28	3.5	
1200.00	29.40	0.28	1163.19	-6026.81	213.32	1.05	213.02	213.32	0.28	3.5	
1300.00	32.86	0.28	1248.78	-5941.22	265.00	1.30	264.63	265.01	0.28	3.5	
1400.00	36.32	0.28	1331.10	-5858.90	321.76	1.58	321.31	321.76	0.28	3.5	
1500.00	39.77	0.28	1409.84	-5780.16	383.38	1.88	382.84	383.38	0.28	3.5	
1600.00	43.23	0.28	1484.72	-5705.28	449.63	2.21	449.00	449.64	0.28	3.5	
1700.00	46.69	0.28	1555.47	-5634.53	520.28	2.56	519.56	520.29	0.28	3.5	
1800.00	50.15	0.28	1621.82	-5568.18	595.07	2.92	594.24	595.08	0.28	3.5	
1900.00	53.61	0.28	1683.55	-5506.45	673.73	3.31	672.79	673.74	0.28	3.5	
1930.27	54.65	0.28	1701.28	-5488.72	698.26	3.43	697.28	698.27	0.28	3.5	
2000.00	54.65	0.28	1741.62	-5448.38	755.14	3.71	754.08	755.15	0.28	0.0	
2100.00	54.65	0.28	1799.47	-5390.53	836.70	4.11	835.54	836.71	0.28	0.0	
2200.00	54.65	0.28	1857.32	-5332.68	918.27	4.51	916.99	918.28	0.28	0.0	
2300.00	54.65	0.28	1915.17	-5274.83	999.84	4.91	998.44	999.85	0.28	0.0	
2400.00	54.65	0.28	1973.02	-5216.98	1081.41	5.31	1079.90	1081.42	0.28	0.0	
2500.00	54.65	0.28	2030.87	-5159.13	1162.97	5.71	1161.35	1162.99	0.28	0.0	
2600.00	54.65	0.28	2088.72	-5101.28	1244.54	6.11	1242.80	1244.56	0.28	0.0	
2700.00	54.65	0.28	2146.57	-5043.43	1326.11	6.52	1324.26	1326.12	0.28	0.0	
2800.00	54.65	0.28	2204.42	-4985.58	1407.67	6.92	1405.71	1407.69	0.28	0.0	
2900.00	54.65	0.28	2262.27	-4927.73	1489.24	7.32	1487.17	1489.26	0.28	0.0	
3000.00	54.65	0.28	2320.12	-4869.88	1570.81	7.72	1568.62	1570.83	0.28	0.0	
3100.00	54.65	0.28	2377.97	-4812.03	1652.38	8.12	1650.07	1652.40	0.28	0.0	
3200.00	54.65	0.28	2435.82	-4754.18	1733.94	8.52	1731.53	1733.96	0.28	0.0	
3300.00	54.65	0.28	2493.67	-4696.33	1815.51	8.92	1812.98	1815.53	0.28	0.0	
3400.00	54.65	0.28	2551.52	-4638.48	1897.08	9.32	1894.43	1897.10	0.28	0.0	
3500.00	54.65	0.28	2609.37	-4580.63	1978.64	9.72	1975.89	1978.67	0.28	0.0	
3600.00	54.65	0.28	2667.22	-4522.78	2060.21	10.12	2057.34	2060.24	0.28	0.0	
3700.00	54.65	0.28	2725.07	-4464.93	2141.78	10.52	2138.79	2141.80	0.28	0.0	
3800.00	54.65	0.28	2782.92	-4407.08	2223.35	10.92	2220.25	2223.37	0.28	0.0	
3900.00	54.65	0.28	2840.77	-4349.23	2304.91	11.32	2301.70	2304.94	0.28	0.0	
4000.00	54.65	0.28	2898.62	-4291.38	2386.48	11.73	2383.15	2386.51	0.28	0.0	
4100.00	54.65	0.28	2956.47	-4233.53	2468.05	12.13	2464.61	2468.08	0.28	0.0	
4200.00	54.65	0.28	3014.32	-4175.68	2549.61	12.53	2546.06	2549.65	0.28	0.0	
4300.00	54.65	0.28	3072.17	-4117.83	2631.18	12.93	2627.51	2631.21	0.28	0.0	
4400.00	54.65	0.28	3130.02	-4059.98	2712.75	13.33	2708.97	2712.78	0.28	0.0	
4500.00	54.65	0.28	3187.87	-4002.13	2794.32	13.73	2790.42	2794.35	0.28	0.0	
4600.00	54.65	0.28	3245.72	-3944.28	2875.88	14.13	2871.87	2875.92	0.28	0.0	
4700.00	54.65	0.28	3303.57	-3886.43	2957.45	14.53	2953.33	2957.49	0.28	0.0	
4800.00	54.65	0.28	3361.42	-3828.58	3039.02	14.93	3034.78	3039.05	0.28	0.0	
4900.00	54.65	0.28	3419.28	-3770.72	3120.58	15.33	3116.23	3120.62	0.28	0.0	
5000.00	54.65	0.28	3477.13	-3712.87	3202.15	15.73	3197.69	3202.19	0.28	0.0	
5100.00	54.65	0.28	3534.98	-3655.02	3283.72	16.13	3279.14	3283.76	0.28	0.0	
5200.00	54.65	0.28	3592.83	-3597.17	3365.29	16.53	3360.59	3365.33	0.28	0.0	

Coleman Oil & Gas

Proposal Report



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Site:	Carson 32-5-21 1 Alt	North reference:	True North
Well:	Carson 32-5-21 1 Alt	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	Lat 2 PL 3		

Planned Survey											
Measured Depth (ft)	Incl. (°)	Az. (°)	Vertical Depth (ft)	Sub Sea Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Closure Distance (ft)	Closure Azimuth (°)	Dogleg Rate (°/100ft)	Comments/ Formations
5300.00	54.65	0.28	3650.68	-3539.32	3446.85	16.94	3442.05	3446.89	0.28	0.0	KOP
5316.12	54.65	0.28	3660.00	-3530.00	3460.00	17.00	3455.18	3460.04	0.28	0.0	
5390.00	54.65	0.28	3702.74	-3487.26	3520.26	17.30	3515.35	3520.31	0.28	0.0	
5400.00	55.46	359.34	3708.47	-3481.53	3528.46	17.27	3523.54	3528.50	0.28	11.1	
5500.00	63.82	350.81	3759.04	-3430.96	3614.21	9.61	3609.56	3614.22	0.15	11.1	
5600.00	72.62	343.46	3796.14	-3393.86	3704.53	-11.21	3700.78	3704.55	359.83	11.1	
5700.00	81.67	336.80	3818.39	-3371.61	3796.04	-44.39	3793.78	3796.30	359.33	11.1	
5791.06	90.00	331.00	3825.00	-3365.00	3877.48	-84.31	3877.04	3878.39	358.75	11.1	
5796.06	90.00	331.00	3825.00	-3365.00	3881.85	-86.74	3881.53	3882.82	358.72	0.0	
5800.00	90.00	331.12	3825.00	-3365.00	3885.30	-88.64	3885.06	3886.31	358.69	3.0	
5900.00	90.08	334.12	3824.93	-3365.07	3974.08	-134.63	3975.96	3976.36	358.06	3.0	
6000.00	90.16	337.12	3824.72	-3365.28	4065.15	-175.91	4068.91	4068.96	357.52	3.0	
6100.00	90.23	340.12	3824.38	-3365.62	4158.26	-212.37	4163.66	4163.68	357.08	3.0	
6200.00	90.31	343.11	3823.90	-3366.10	4253.14	-243.91	4259.95	4260.13	356.72	3.0	
6300.00	90.38	346.11	3823.30	-3366.70	4349.54	-270.43	4357.52	4357.94	356.44	3.0	
6400.00	90.46	349.11	3822.56	-3367.44	4447.20	-291.88	4456.10	4456.77	356.24	3.0	
6500.00	90.53	352.11	3821.70	-3368.30	4545.85	-308.19	4555.41	4556.28	356.12	3.0	
6600.00	90.60	355.11	3820.71	-3369.29	4645.21	-319.32	4655.19	4656.17	356.07	3.0	
6700.00	90.67	358.11	3819.59	-3370.41	4745.02	-325.23	4755.17	4756.15	356.08	3.0	
6740.52	90.70	359.33	3819.11	-3370.89	4785.53	-326.13	4795.68	4796.63	356.10	3.0	
6800.00	90.70	359.33	3818.38	-3371.62	4845.00	-326.83	4855.11	4856.01	356.14	0.0	
6900.00	90.70	359.33	3817.16	-3372.84	4944.98	-328.01	4955.04	4955.85	356.21	0.0	
7000.00	90.70	359.33	3815.94	-3374.06	5044.97	-329.19	5054.96	5055.70	356.27	0.0	
7100.00	90.70	359.33	3814.72	-3375.28	5144.95	-330.36	5154.89	5155.55	356.33	0.0	
7200.00	90.70	359.33	3813.49	-3376.51	5244.94	-331.54	5254.82	5255.41	356.38	0.0	
7300.00	90.70	359.33	3812.27	-3377.73	5344.92	-332.71	5354.74	5355.27	356.44	0.0	
7400.00	90.70	359.33	3811.05	-3378.95	5444.91	-333.89	5454.67	5455.14	356.49	0.0	
7500.00	90.70	359.33	3809.83	-3380.17	5544.90	-335.07	5554.60	5555.01	356.54	0.0	
7600.00	90.70	359.33	3808.61	-3381.39	5644.88	-336.24	5654.52	5654.89	356.59	0.0	
7700.00	90.70	359.33	3807.38	-3382.62	5744.87	-337.42	5754.45	5754.77	356.64	0.0	
7800.00	90.70	359.33	3806.16	-3383.84	5844.85	-338.60	5854.37	5854.65	356.68	0.0	
7900.00	90.70	359.33	3804.94	-3385.06	5944.84	-339.77	5954.30	5954.54	356.73	0.0	
8000.00	90.70	359.33	3803.72	-3386.28	6044.82	-340.95	6054.23	6054.43	356.77	0.0	
8100.00	90.70	359.33	3802.50	-3387.50	6144.81	-342.13	6154.15	6154.33	356.81	0.0	
8200.00	90.70	359.33	3801.27	-3388.73	6244.79	-343.30	6254.08	6254.22	356.85	0.0	
8300.00	90.70	359.33	3800.05	-3389.95	6344.78	-344.48	6354.01	6354.13	356.89	0.0	
8400.00	90.70	359.33	3798.83	-3391.17	6444.77	-345.65	6453.93	6454.03	356.93	0.0	
8500.00	90.70	359.33	3797.61	-3392.39	6544.75	-346.83	6553.86	6553.94	356.97	0.0	
8600.00	90.70	359.33	3796.39	-3393.61	6644.74	-348.01	6653.79	6653.84	357.00	0.0	
8700.00	90.70	359.33	3795.16	-3394.84	6744.72	-349.18	6753.71	6753.76	357.04	0.0	
8800.00	90.70	359.33	3793.94	-3396.06	6844.71	-350.36	6853.64	6853.67	357.07	0.0	
8900.00	90.70	359.33	3792.72	-3397.28	6944.69	-351.54	6953.57	6953.59	357.10	0.0	
9000.00	90.70	359.33	3791.50	-3398.50	7044.68	-352.71	7053.49	7053.50	357.13	0.0	
9100.00	90.70	359.33	3790.28	-3399.72	7144.67	-353.89	7153.42	7153.42	357.16	0.0	
9200.00	90.70	359.33	3789.06	-3400.94	7244.65	-355.06	7253.34	7253.35	357.19	0.0	
9300.00	90.70	359.33	3787.83	-3402.17	7344.64	-356.24	7353.27	7353.27	357.22	0.0	
9368.18	90.70	359.33	3787.00	-3403.00	7412.80	-357.04	7421.40	7421.40	357.24	0.0	L2 BHL

Coleman Oil & Gas
Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	Carson 32-5-21 1 Alt
Company:		TVD Reference:	Carson 32-5-21 1 Alt
Project:	Carson	MD Reference:	Carson 32-5-21 1 Alt
Site:	Carson 32-5-21 1 Alt	North reference:	True North
Well:	Carson 32-5-21 1 Alt	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	Lat 2 PL 3		

Targets									
Target Name		Dip	Dip						
-hit/miss target		Angle	Dir.	TVD	+N/-S	+E/-W	Northing	Easting	
-Shape		(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	Latitude Longitude
L2 BHL				3787.00	7412.80	-357.04	2173173.06 N	2857817.89 E	36.97119790° N 107.37213030° W
- proposal hits the target center									
- Point									

Checked By:	Approved By:	Date:
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Carson 32-5-21 1 Alt, PH Plan 3

**Coleman Oil & Gas
Proposal Report**

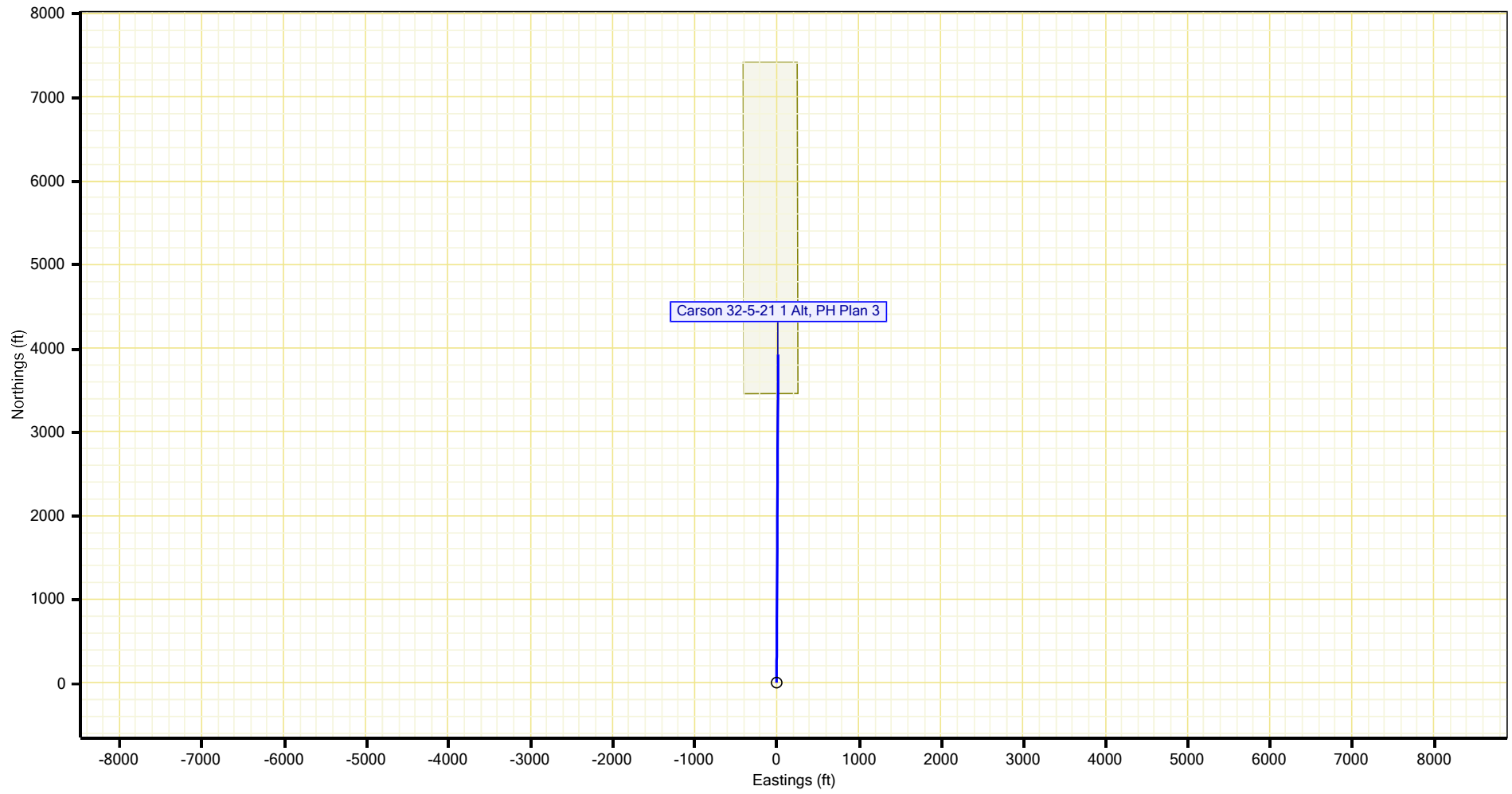
KellyDown - Version: 4.01.02.04





Carson

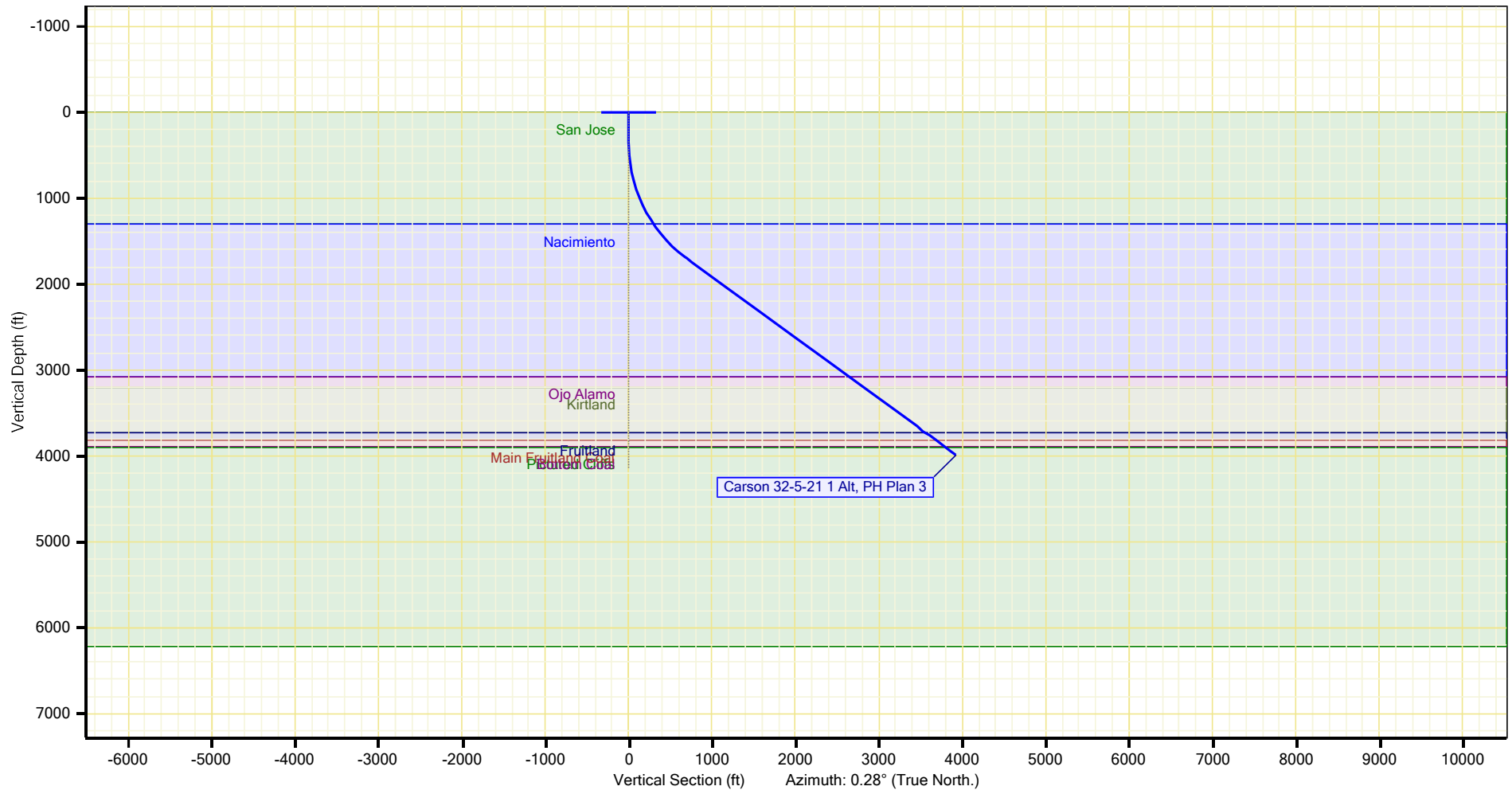
Carson 32-5-21 1 Alt





Carson

Carson 32-5-21 1 Alt



Coleman Oil & Gas

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	Carson 32-5-21 1 Alt
Company:		TVD Reference:	Carson 32-5-21 1 Alt
Project:	Carson	MD Reference:	Carson 32-5-21 1 Alt
Site:	Carson 32-5-21 1 Alt	North reference:	True North
Well:	Carson 32-5-21 1 Alt	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	PH Plan 3		

Project	Carson		
Map System:	NAD83 New Mexico State Planes	System Datum:	Mean Sea Level
Geo Datum:	NAD 1983		
Map Zone:	Western Zone		

Site	Carson 32-5-21 1 Alt			
Site Position:		Northing:	2165785.52 N	Latitude: 36.95090200° N
From:	Map	Easting:	2858178.95 E	Longitude: 107.37101700° W
Position Uncertainty:	0.00ft	Slot Radius:	0in	Grid Convergence: 0.28°

Well	Carson 32-5-21 1 Alt			
Well Position:	+N/-S	-23.59ft	Northing:	2165762.08 N
	+E/-W	31.82ft	Easting:	2858210.89 E
Position Uncertainty:		1.00ft	Wellhead Elevation:	7190.00ft
			Ground Level:	7174.00ft

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	USER DEFINED	5/19/2025	0.00	0.00	0.0

Proposal	PH Plan 3			
Audit Notes:				
Version:		Phase:		Tie On Depth: 0.00ft

Vertical Section:	Depth from TVD (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	0.28

Survey Program		5/19/2025		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	5882.12	PH Plan 3	MWD	MWD

Plan Sections										
Measured Depth (ft)	inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00					
350.00	0.00	0.00	350.00	0.00	0.00	0.0	0.0	0.0	0.00	
1930.27	54.65	0.28	1701.28	698.26	3.43	3.5	3.5	0.0	0.28	
5316.12	54.65	0.28	3660.00	3460.00	17.00	0.0	0.0	0.0	0.00	HL
5882.12	54.65	0.28	3987.45	3921.66	19.26	0.0	0.0	0.0	-165.57	

Planned Survey											
Measured Depth (ft)	Incl. (°)	Az. (°)	Vertical Depth (ft)	Sub Sea Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Closure Distance (ft)	Closure Azimuth (°)	Dogleg Rate (°/100ft)	Comments/ Formations
0.00	0.00	0.00	0.00	-7190.00	0.00	0.00	0.00	0.00	0.00	0.0	MWD
100.00	0.00	0.00	100.00	-7090.00	0.00	0.00	0.00	0.00	0.00	0.0	San Jose
200.00	0.00	0.00	200.00	-6990.00	0.00	0.00	0.00	0.00	0.00	0.0	
300.00	0.00	0.00	300.00	-6890.00	0.00	0.00	0.00	0.00	0.00	0.0	
350.00	0.00	0.00	350.00	-6840.00	0.00	0.00	0.00	0.00	0.00	0.0	

Coleman Oil & Gas

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	Carson 32-5-21 1 Alt
Company:		TVD Reference:	Carson 32-5-21 1 Alt
Project:	Carson	MD Reference:	Carson 32-5-21 1 Alt
Site:	Carson 32-5-21 1 Alt	North reference:	True North
Well:	Carson 32-5-21 1 Alt	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	PH Plan 3		

Planned Survey											
Measured Depth (ft)	Incl. (°)	Az. (°)	Vertical Depth (ft)	Sub Sea Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Closure Distance (ft)	Closure Azimuth (°)	Dogleg Rate (°/100ft)	Comments/ Formations
400.00	1.73	0.28	399.99	-6790.01	0.75	0.00	0.75	0.75	0.28	3.5	
500.00	5.19	0.28	499.80	-6690.20	6.79	0.03	6.79	6.79	0.28	3.5	
600.00	8.65	0.28	599.05	-6590.95	18.83	0.09	18.83	18.83	0.28	3.5	
700.00	12.11	0.28	697.40	-6492.60	36.83	0.18	36.84	36.84	0.28	3.5	
800.00	15.56	0.28	794.49	-6395.51	60.74	0.30	60.74	60.74	0.28	3.5	
900.00	19.02	0.28	889.95	-6300.05	90.46	0.44	90.46	90.46	0.28	3.5	
1000.00	22.48	0.28	983.45	-6206.55	125.89	0.62	125.89	125.89	0.28	3.5	
1100.00	25.94	0.28	1074.64	-6115.36	166.89	0.82	166.89	166.89	0.28	3.5	
1200.00	29.40	0.28	1163.19	-6026.81	213.32	1.05	213.32	213.32	0.28	3.5	
1300.00	32.86	0.28	1248.78	-5941.22	265.00	1.30	265.01	265.01	0.28	3.5	
1362.95	35.03	0.28	1301.00	-5889.00	300.15	1.47	300.16	300.16	0.28	3.5	Nacimiento
1400.00	36.32	0.28	1331.10	-5858.90	321.76	1.58	321.76	321.76	0.28	3.5	
1500.00	39.77	0.28	1409.84	-5780.16	383.38	1.88	383.38	383.38	0.28	3.5	
1600.00	43.23	0.28	1484.72	-5705.28	449.63	2.21	449.64	449.64	0.28	3.5	
1700.00	46.69	0.28	1555.47	-5634.53	520.28	2.56	520.29	520.29	0.28	3.5	
1800.00	50.15	0.28	1621.82	-5568.18	595.07	2.92	595.08	595.08	0.28	3.5	
1900.00	53.61	0.28	1683.55	-5506.45	673.73	3.31	673.74	673.74	0.28	3.5	
1930.27	54.65	0.28	1701.28	-5488.72	698.26	3.43	698.27	698.27	0.28	3.5	
2000.00	54.65	0.28	1741.62	-5448.38	755.14	3.71	755.15	755.15	0.28	0.0	
2100.00	54.65	0.28	1799.47	-5390.53	836.70	4.11	836.71	836.71	0.28	0.0	
2200.00	54.65	0.28	1857.32	-5332.68	918.27	4.51	918.28	918.28	0.28	0.0	
2300.00	54.65	0.28	1915.17	-5274.83	999.84	4.91	999.85	999.85	0.28	0.0	
2400.00	54.65	0.28	1973.02	-5216.98	1081.41	5.31	1081.42	1081.42	0.28	0.0	
2500.00	54.65	0.28	2030.87	-5159.13	1162.97	5.71	1162.99	1162.99	0.28	0.0	
2600.00	54.65	0.28	2088.72	-5101.28	1244.54	6.11	1244.56	1244.56	0.28	0.0	
2700.00	54.65	0.28	2146.57	-5043.43	1326.11	6.52	1326.12	1326.12	0.28	0.0	
2800.00	54.65	0.28	2204.42	-4985.58	1407.67	6.92	1407.69	1407.69	0.28	0.0	
2900.00	54.65	0.28	2262.27	-4927.73	1489.24	7.32	1489.26	1489.26	0.28	0.0	
3000.00	54.65	0.28	2320.12	-4869.88	1570.81	7.72	1570.83	1570.83	0.28	0.0	
3100.00	54.65	0.28	2377.97	-4812.03	1652.38	8.12	1652.40	1652.40	0.28	0.0	
3200.00	54.65	0.28	2435.82	-4754.18	1733.94	8.52	1733.96	1733.96	0.28	0.0	
3300.00	54.65	0.28	2493.67	-4696.33	1815.51	8.92	1815.53	1815.53	0.28	0.0	
3400.00	54.65	0.28	2551.52	-4638.48	1897.08	9.32	1897.10	1897.10	0.28	0.0	
3500.00	54.65	0.28	2609.37	-4580.63	1978.64	9.72	1978.67	1978.67	0.28	0.0	
3600.00	54.65	0.28	2667.22	-4522.78	2060.21	10.12	2060.24	2060.24	0.28	0.0	
3700.00	54.65	0.28	2725.07	-4464.93	2141.78	10.52	2141.80	2141.80	0.28	0.0	
3800.00	54.65	0.28	2782.92	-4407.08	2223.35	10.92	2223.37	2223.37	0.28	0.0	
3900.00	54.65	0.28	2840.77	-4349.23	2304.91	11.32	2304.94	2304.94	0.28	0.0	
4000.00	54.65	0.28	2898.62	-4291.38	2386.48	11.73	2386.51	2386.51	0.28	0.0	
4100.00	54.65	0.28	2956.47	-4233.53	2468.05	12.13	2468.08	2468.08	0.28	0.0	
4200.00	54.65	0.28	3014.32	-4175.68	2549.61	12.53	2549.65	2549.65	0.28	0.0	
4300.00	54.65	0.28	3072.17	-4117.83	2631.18	12.93	2631.21	2631.21	0.28	0.0	
4315.26	54.65	0.28	3081.00	-4109.00	2643.63	12.99	2643.66	2643.66	0.28	0.0	Ojo Alamo
4400.00	54.65	0.28	3130.02	-4059.98	2712.75	13.33	2712.78	2712.78	0.28	0.0	
4500.00	54.65	0.28	3187.87	-4002.13	2794.32	13.73	2794.35	2794.35	0.28	0.0	
4522.69	54.65	0.28	3201.00	-3989.00	2812.82	13.82	2812.86	2812.86	0.28	0.0	Kirtland
4600.00	54.65	0.28	3245.72	-3944.28	2875.88	14.13	2875.92	2875.92	0.28	0.0	
4700.00	54.65	0.28	3303.57	-3886.43	2957.45	14.53	2957.49	2957.49	0.28	0.0	
4800.00	54.65	0.28	3361.42	-3828.58	3039.02	14.93	3039.05	3039.05	0.28	0.0	
4900.00	54.65	0.28	3419.28	-3770.72	3120.58	15.33	3120.62	3120.62	0.28	0.0	

Coleman Oil & Gas

Proposal Report



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Project:	Carson	MD Reference:	Carson 32-5-21 1 Alt
Site:	Carson 32-5-21 1 Alt	North reference:	True North
Well:	Carson 32-5-21 1 Alt	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	PH Plan 3		

Planned Survey											
Measured Depth (ft)	Incl. (°)	Az. (°)	Vertical Depth (ft)	Sub Sea Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Closure Distance (ft)	Closure Azimuth (°)	Dogleg Rate (°/100ft)	Comments/ Formations
5000.00	54.65	0.28	3477.13	-3712.87	3202.15	15.73	3202.19	3202.19	0.28	0.0	
5100.00	54.65	0.28	3534.98	-3655.02	3283.72	16.13	3283.76	3283.76	0.28	0.0	
5200.00	54.65	0.28	3592.83	-3597.17	3365.29	16.53	3365.33	3365.33	0.28	0.0	
5300.00	54.65	0.28	3650.68	-3539.32	3446.85	16.94	3446.89	3446.89	0.28	0.0	
5316.12	54.65	0.28	3660.00	-3530.00	3460.00	17.00	3460.04	3460.04	0.28	0.0	HL
5400.00	54.65	0.28	3708.53	-3481.47	3528.42	17.34	3528.46	3528.46	0.28	0.0	
5438.85	54.65	0.28	3731.00	-3459.00	3560.11	17.49	3560.15	3560.15	0.28	0.0	Fruitland
5500.00	54.65	0.28	3766.38	-3423.62	3609.99	17.74	3610.03	3610.03	0.28	0.0	
5585.77	54.65	0.28	3816.00	-3374.00	3679.95	18.08	3679.99	3679.99	0.28	0.0	Main Fruitland Coal
5600.00	54.65	0.28	3824.23	-3365.77	3691.55	18.14	3691.60	3691.60	0.28	0.0	
5700.00	54.65	0.28	3882.09	-3307.91	3773.12	18.54	3773.16	3773.16	0.28	0.0	
5718.87	54.65	0.28	3893.00	-3297.00	3788.50	18.61	3788.55	3788.55	0.28	0.0	Bottom Coal
5732.69	54.65	0.28	3901.00	-3289.00	3799.78	18.67	3799.83	3799.83	0.28	0.0	Pictured Cliffs
5800.00	54.65	0.28	3939.94	-3250.06	3854.68	18.93	3854.73	3854.73	0.28	0.0	
5882.12	54.65	0.28	3987.45	-3202.55	3921.66	19.26	3921.70	3921.70	0.28	0.0	

Targets										
Target Name -hit/miss target -Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude		Longitude
HL - proposal hits the target center - Circle	54.51	0.28	3660.00	3460.00	17.00	2169222.12 N	2858211.10 E	36.96034077° N		107.37084991° W

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Subsea Depth (ft)	Name	Dip Angle (°)	Dip Direction (°)
0.00	0.00	-7190.00	San Jose	0.00	0.00
1362.95	1301.00	-5889.00	Nacimiento	0.00	0.00
4315.26	3081.00	-4109.00	Ojo Alamo	0.00	0.00
4522.69	3201.00	-3989.00	Kirtland	0.00	0.00
5438.85	3731.00	-3459.00	Fruitland	0.00	0.00
5585.77	3816.00	-3374.00	Main Fruitland Coal	0.00	0.00
5718.87	3893.00	-3297.00	Bottom Coal	0.00	0.00
5732.69	3901.00	-3289.00	Pictured Cliffs	0.00	0.00

Checked By:	Approved By:	Date:
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Application for Permit to Drill Drilling Plan

COLEMAN OIL & GAS

Carson 32-5-21 1H

Vertical Pilot Hole

Surface Hole Location: 2476' FSL & 1713' FWL

Section 28, T32N, R5W

Proposed GL Elevation = 7174'

Lat. = 36.9508372° N

Long. = 107.3709081° W

NAD 83

Rio Arriba, New Mexico

Proposed Bottom Hole Location (Pilot): 1192' FSL – 1737' FWL

Proposed KOP (Lateral #1): 791' FSL – 1734' FWL

Proposed Landing (Lateral #1) 1142' FSL – 1800' FWL

Proposed Bottom Hole Location (Lateral #1): 710' FNL – 1927' FWL

Proposed KOP (Lateral #2): 750' FSL – 1734' FWL

Proposed Landing (Lateral #2) 1146' FSL – 1603' FWL

Proposed Bottom Hole Location (Lateral #2): 660' FNL – 1369' FWL

Section 21, T32N, R5W

Rio Arriba, New Mexico

Drilling program written in compliance with onshore Oil and Gas Order No. 1
(III.D.3, effective May 2007) and Onshore Order No. 2 Dated November 18, 1988

A. Names and estimated tops of all geologic groups, formations, members or zones.

Formation	Top MD (KB)	Top TVD (KB)	Rock Type	Drilling Notes
San Jose	Surface	Surface	Unconsolidated Gravels	Boulders, Water, Lost Circulation
Nacimiento	1362	1301	Nonmarine shale, siltstone and sandstones	Water, Lost Circulation
Ojo Alamo	4315	3081	Conglomerate sandstone, sandstone, siltstone	Water, Possible Gas, Lost Circulation
Kirtland	4523	3201	Claystone and white and brown sandstones	Clay, Water
Fruitland	5439	3731	Mudstone, siltstone, sandstones, carbonaceous	Gas Water
Main Fruitland Coal	5585	3816	Target Coal 25' Top 3635	HZ Lateral
Bottom Coal	5718	3893	Coal	Gas Water
Pictured Cliffs	5733	3901	Shoreface sandstone	Gas Water
TD	5882	3987	TD Designed From Base of Bottom Coal Seam with 130 ft rathole ±	

B. Estimated depth and thickness of formations, members or zones potentially containing useable water, oil, gas or prospectively valuable deposits of other minerals that the operator expects to encounter, and the operator's plans for protecting such resources.

Formation	Top MD (KB)	Top TVD (KB)	Rock Type	Drilling Notes
San Jose	Surface	Surface	Unconsolidated Gravels	Boulders, Water, Lost Circulation
Nacimiento	1362	1301	Nonmarine shale, siltstone and sandstones	Water, Lost Circulation
Ojo Alamo	4315	3081	Conglomerate sandstone, sandstone, siltstone	Water, Possible Gas, Lost Circulation
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TD	5882	3987	TD Designed From Base of Bottom Coal Seam with 130 ft rat hole $\pm$	

Conductor: No conductor casing is necessary

Surface Casing: Protection of shallow fresh water shall be accomplished by setting surface casing 50' below known fresh water sources and cemented to surface with 9-5/8" surface casing.

Possible Aquifers: San Jose, Nacimiento and Ojo Alamo

Production Casing: Protection for all other formations will be accomplished by setting 7" casing and cementing to surface. The 7" production casing, see Completion Horizontal Re-Entry procedure on page 7. Not planning on hydraulic fracture treatment.

Production Liners: Will be pre-perforated, uncemented, unstimulated liners to maintain hole stability.

C. The operator's minimum specifications for blowout prevention equipment and diverter systems to be used, including size, pressure rating, configuration and the testing procedure and frequency. Blowout prevention equipment must meet the minimum standards outlined in Order 2.

BOP equipment and accessories will meet or exceed BLM requirements outlined in 43 CFR Part 3160.

The working pressure of all BOPE shall exceed the anticipated surface pressure to which it may be subjected, assuming a partially evacuated hole with a pressure gradient of 0.22 psi/ft.

Expected Maximum Bottom Hole pressure = $0.433 \text{ psi/ft.} \times 3987' = 1726 \text{ psi}$, which is less than 2,000 psi working pressure. Maximum anticipated surface pressure will be $1726 \text{ psi} - (3987' \times 0.22 \text{ psi/ft}) = 849 \text{ psi}$. Therefore, a 2000 psi Class 2 BOPE system is required that consists of the following:

- 2 preventers with either double ram (blind and pipe) or annular preventer and blind rams.
- Kill line (2" minimum)
- 1 Kill line valve (2" minimum)
- 1 choke line valve
- 2 chokes (refer to diagram in Attachment 1)
- Upper Kelly cock valve with handle available
- Safety valve and subs to fit all drill strings in use
- Pressure gauge on choke manifold
- 2" minimum choke manifold
- Fill-up line above the uppermost preventer

See attached diagram for the proposed BOP systems. Stack #1 will be nipped-up on the 11" 3,000 psi top flange of the wellhead A section for the pilot hole and the dual lateral re-entry. The BOP will be hydraulically operated.

All ram preventers and related equipment will be tested to 2,000 psi for 10 minutes. Annular preventers will be tested to 70% of rated working pressure for 10 minutes. Surface casing will be tested to 1500 psi. All preventers and surface casing will be tested before drilling out of surface casing. BOP equipment will be tested when initially installed, whenever any seal subject to test pressure is broken, following related repairs and at least once every 30 days. Annular preventers will be functionally operated at least once per week. Rams preventers will be activated each trip, not to exceed once per day.

- D. The operator's proposed casing program, including size, grade, weight, type of thread and coupling, the setting depth of each string, and it's condition. The operator must include the minimum design criteria, including casing loading assumptions and corresponding safety factors for burst, collapse, and tensions (body yield and joint strength). The operator must also include the lengths and setting depth of each casing when a tapered casing string is proposed. The hole size for each wellbore section of hole drilled must be included. Special casing designs such as the use of coil tubing or expandable casing may necessitate additional information.

Casing & Hole Size	Grade	Weight	Coupling	Setting Depth (MD)	Condition
9-5/8" (12-1/4")	J-55	36 ppf	LT&C	0' - 300'	New casing.
7" (8-3/4")	J-55	26 ppf	LT&C	0' - 5882'	New casing.
4-1/2" (6-1/8") Lateral #1	J-55	11.6 ppf	LT&C	5430'-9280'	Used casing. 10' below window TD
4-1/2" (6-1/8") Lateral #2	J-55	11.6 ppf	LT&C	5390'-9368'	Used casing. 10' below window TD

The 9-5/8" surface and 7" production casing strings will be tested to .22 psi per foot of the casing string length or 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield. The 4-1/2" pre-perforated production casing liners will be uncemented, unstimulated and not tested. The purpose of the 4-1/2" liner is to keep the hole from collapsing. Isolation for the 4-3/4" laterals will be maintained by the cased and cemented pilot hole with 7" casing and cement to surface.

Minimum casing design factors used:

Collapse -	1.0
Burst -	1.1
Tension -	1.4

Surface casing shall have a minimum of 1 centralizer per joint on the bottom three (3) joints, starting with the shoe joint. The 7" production casing will be centralized approximately 1 every fourth joint.

Surface Casing Design - Evaluation/Casing Test (Collapse & Burst), 100k overpull (Tension)

Minimum Safety Factors				Collapse	Burst	Tension			
				1.125	1.100	1.400			
Size	Weight	Grade	Conn	Collapse	Burst	Tension (Pipe Body)	Tension (Connection)	Notes	
Surface	9.625	36	J-55	LT&C	2020	3520	546000	453,000	0-300'
80% of Burst					2816				
Casing Depth			MW IN	MW Out		Pres In	Pres Out	SF	
Collapse	300		0.0	15.8		0	246	8.20	Full evacuation with 15.8 ppg cement in the annulus
Burst	300		9.0	0.0		1500	0	2.35	1500 psig test
		Mud Wt	Air Weight		Bouy Wt	BW+100K			
Tension (Pipe Body)	300	9.0	10800		9316	109316	4.99	100K overpull	
Tension (Connection)	300	9.0	10800		9316	109316	4.14		
BF = 1-MW/65.5= 0.84732									

Production Casing Design - Evaluation/Casing Test (Collapse & Burst), 100k overpull (Tension)

			Collapse Burst Tension						
Minimum Safety Factors			1.125	1.100	1.400				
	Size	Weight	Grade	Conn	Collapse	Burst	Tension (Pipe Body)	Tension (Connection)	Notes
Production	7	26	J-55	LT&C	4320	4980	415000	367,000	0-5732'
					80% of Burst		3984		
Casing Depth TVD			MW IN	MW Out	Pres In	Pres Out	SF		
Collapse	3987		0.0	13.5	0	2799	1.54	Full evacuation with 15.8 ppg cement in the annulu	
Burst	3987		10.0	0.0	1500	0	3.32	1500 psig test	
Casing Depth MD			Mud Wt	Air Weight	Bouy Wt	BW+100K			
Tension (Pipe Body)	5882		10.0	152932	129584	229584	1.81	100K overpull	
Tension (Connection)	5882		10.0	152932	129584	229584	1.60		
BF = 1-MW/65.5= 0.84732									

- E. The estimated amount and type(s) of cement expected to be used in the setting of each casing string. If stage cementing will be used, provide the setting depth of the stage tool(s) and the amount and type of cement including additives, to be used for each stage. Provide the yield of each cement slurry and the expected top of cement, with excess, for each cemented string or stage.**

The proposed cementing program has been designed to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals. All indications of useable water shall be reported.

The 9-5/8" surface casing shall be cemented back to surface. In the event cement does not circulate to surface, remedial cementing shall be done to cement the casing back to surface. If returns are lost and/or cement is not brought to surface, a cement bond log (CBL) will be required to determine the quality of the job prior to drilling ahead (see OO2).

Top plugs shall be used to reduce contamination of cement by displacement fluid. A fluid spacer will be pumped to help isolate the cement from contamination by the mud fluid being displaced ahead of the cement slurry.

The 7" production casing will be cemented to surface. Tail cement for the 7" production casing cement job is designed to cover 500' above the Fruitland formation top, lead cement is designed to be circulate to surface. Planned excess is 30% in the open hole, excess volume approximately 45 bbls. The 4-1/2" production liners will be uncemented.

Surface Casing Single Stage Job – (0-300' MD):

Excess – 100% over gauge hole – 12-1/4" hole and 9-5/8" casing (0.31318 ft3/ft)

Top of Tail Cement - 0'

Tail Slurry - (0' – 300' MD): 177 sx - 15.8 ppg, conventional cement containing:

PREMIUM CEMENT – Cement – 94 lbs/sx

Calcium Chloride - 2%

Poly-E-Flake – Lost Circulation Control Agent – 0.125 lbs/sx

Yield – 1.174 ft3/sx

Water requirement – 5.13 gal/sx.

Total sacks of cement pumped on surface job = 177 sx

Production Casing Single Stage Job – (0-5882' MD):

Excess – 30% over gauge hole – 8-3/4" hole and 7" casing (0.1503 ft3/ft)

Excess - 0% inside surface casing – 8.921" surf csg ID and 7" casing (0.1668 ft3/ft)

Top of Lead Cement - Surface

Lead Slurry - (0' – 5053' MD): 384 sx - 12.3 ppg, conventional cement containing:

VARICEM™ CEMENT – Cement – 94.02 lbs/sx

FE-2 – Controls Gel Thickening – 0.30%

Kol-Seal – Lost Circulation Control Agent – 5 lbs/sx

Poly-E-Flake – Lost Circulation Control Agent – 0.125 lbs/sx

Yield – 2.395 ft3/sx

Water requirement – 13.29 gal/sx.

Top of Tail Cement - 5050' MD

Tail Slurry - (5050' – 5882'): 125 sx - 13.5 ppg, conventional cement containing:

VARICEM™ CEMENT – Cement – 94.02 lbs/sx

Super CBL - Gas Block Additive - 0.30%

FE-2 – Controls Gel Thickening – 0.30%

Kol-Seal – Lost Circulation Control Agent – 5 lbs/sx

Poly-E-Flake – Lost Circulation Control Agent – 0.125 lbs/sx

Yield – 1.844 ft³/sx

Water requirement – 9.16 gal/sx.

Total sacks of cement pumped on production job = 509 sx

Actual volumes will be calculated and determined by conditions onsite. All cement slurries will meet or exceed minimum BLM and COGCC requirements. Slurries used will be the slurries listed above or equivalent slurries depending on service provider selected. Cement yields may change depending on selected slurries.

All waiting on cement times shall be a minimum of 8 hours or adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

- F. Type and characteristics of the proposed circulating medium or mediums proposed for the drilling of each well bore section, the quantities and types of mud and weighting material to be maintained, and the monitoring equipment to be used on the circulating system. The operator must submit the detailed information when air or gas drill is proposed.**

Interval (MD)	Hole Section	Hole Size	Type	MW (ppg)	VIS (s/qt)	FL (mL/30 min)	PV (cP)	YP (lbs/100ft ²)	Max Salinity (mg/L)	pH
0'-300'	Surface	12-1/4"	FW/Gel	8.4-9.0	~100	NC	16-22	18-24	2500	8-8.9
300'-5882'	Production	8-3/4"	LSND	8.4-9.0	35-45	<10	6-21	4-27	5000	8-9.5
5430'-9280'	Lat #1	6-1/8"	Brine	8.6-9.8	28-34	NC	1	4	300000	8-9.1
5390'-9368'	Lat #2	6-1/8"	Brine	8.6-9.8	28-34	NC	1	4	300000	8-9.1

Sufficient weighting material will be on hand to weight mud up to 10.5 PPG, if required.

The formula for weight up with barite is listed below:

Sacks of Barite per 100 bbl of mud = $1470 \times (W2 - W1) \div (35 - W2)$

Where; W1 = current mud weight, W2 = new mud weight

Sacks = $1470 \times (10.5 - 9.0) \div (35 - 10.5) = 126 \text{ sx} \times 3 \text{ (300bbls minimum)} = 270 \text{sx}$

Mud Product	Estimated Quantity on Location
Baroid 41	270 sx
Aquagel Gold Seal	250 sx
Lime	4 sx
Caustic Soda	8 sx
EZ-Mud	20 buckets
Barazan D Plus	20 sx
Pac R	20 sx
Filter-Chek	30 sx
LCM	120 sx

Pit Volume Totalizer (PVT) equipment (or equivalent) will be on each pit to monitor pit levels. A trip tank equipped with a PVT sensor will be used to monitor trip volumes. Possible lost circulation in the Fruitland Coal and Pictured Cliffs Sand. Lost circulation has been successfully mitigated with lost circulation materials.

There will not be a reserve pit for this well. A closed-loop system will be used to recover drilling fluid and dry cuttings during both the pilot hole and laterals hole sections of the well. Above-ground tanks will be utilized to hold cuttings and fluids for rig operations. Frac tanks will be on location to store fresh water, produced water, drilling mud and brine.

G. The testing, logging, and coring procedures proposed, including drill stem testing procedures, equipment, and safety measures.

Testing: None planned.

Open Hole Logging: LWD gamma ray for all lateral hole sections (from casing exit to TD).

Mud Logging: All lateral hole sections. Samples taken every 90'.

Coring: None planned.

Cased Hole Logging: If cement is not brought to surface on the surface casing string, then a cement bond log (CBL) will be run to determine the quality of the job prior to drilling ahead. A Cement Bond Log (CBL) will be run after the drilling of the well has been completed and as the start of the completion process. The CBL will confirm the quality of the cement bond and the actual TOC. Gamma ray and density logs may be obtained with the CBL to describe the stratigraphy of the wellbore.

H. The expected bottom-hole pressure and any anticipated abnormal pressures, temperatures, or potential hazards that the operator expects to encounter, such as lost circulation and hydrogen sulfide. A description or the operators plans for mitigating such hazards must be included.

Maximum expected BHP @ TD 5882' MD / 3987' TVD (0.433 psi/ft): 1726 psi

Maximum expected BHT @ 3987' TVD: ~135° F

The maximum anticipated bottom hole pressure will be controlled with mud weight and BOP equipment.

Possible lost circulation in the Fruitland Coal at 5585 MD and Pictured Cliffs Sand at 5733' MD during the pilot hole drilling. Lost circulation has been successfully mitigated with lost circulation materials. 120sx of LCM materials will be located onsite to manage lost circulation as needed. Possible lost circulation during the lateral re-entry hole sections. Drilling with losses will be mitigated with additional storage tanks for produced water and brine storage.

No hydrogen sulfide gas is anticipated, however, if H₂S is encountered, the guidelines in Onshore Order No. 6 will be followed.

I. Any other facets of the proposed operation that the operator would like the BLM to considered in reviewing the application. Examples include, but are not limited to: For directional wells, proposed directional designs, plan view, and vertical section in true vertical and measured depths: Horizontal drilling; and Coil tubing Operations.

Timing:

The operation is expected to start July 2025. The pilot hole drilling operations will last approximately 7 days. The drilling rig will re-enter the 7" production casing, set whipstock(s), sidetrack and drill the 6-1/8" lateral hole sections. The pilot hole and laterals may be drilled in one drilling rig event. Upon completion of the drilling and completion events, the completion rig will be on location approximately two to three weeks to run tubing and set artificial lift.

Directional Plans:

Pilot hole, Lateral #1, Lateral #2 directional plans and proposed wellbore schematic attached.

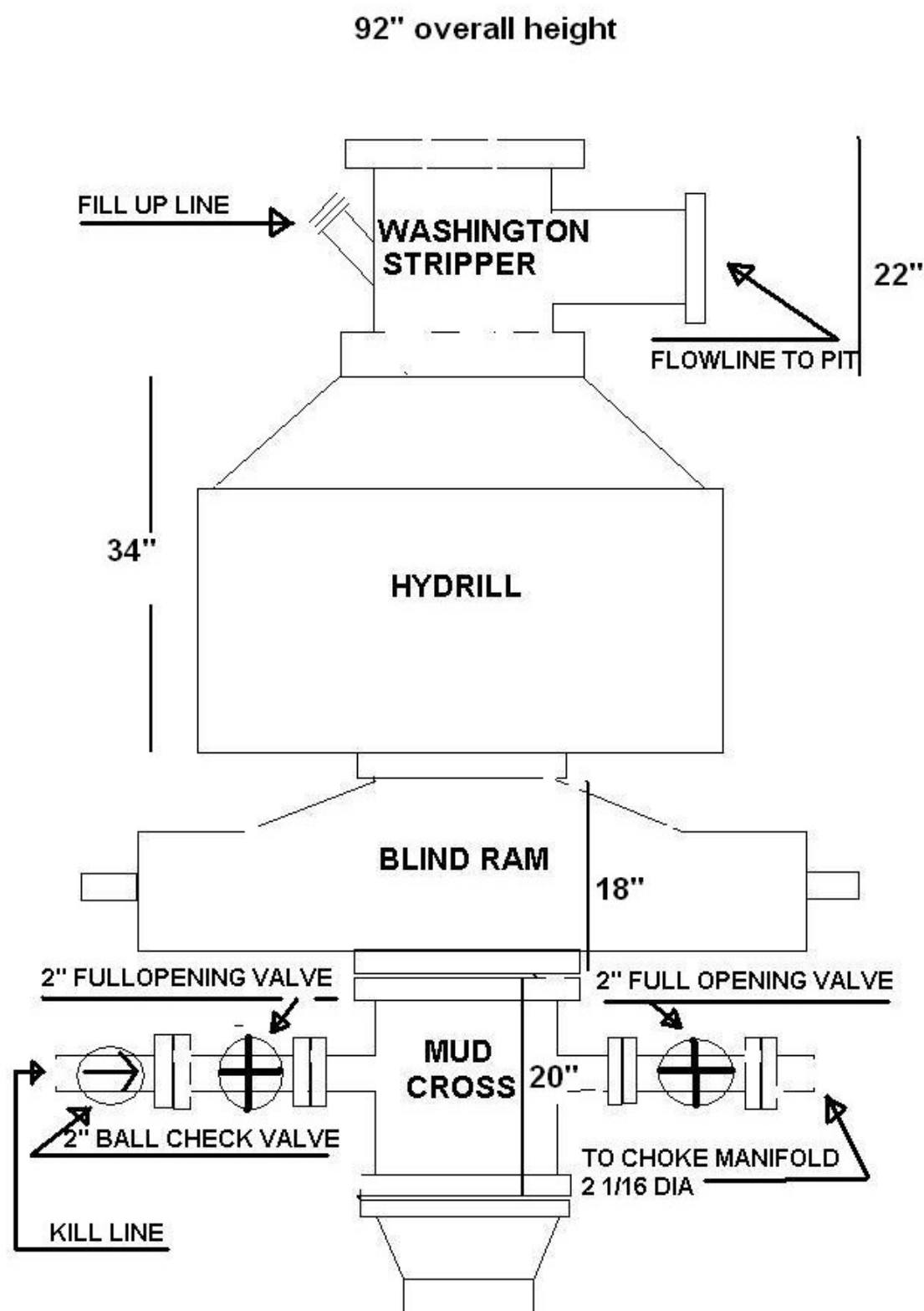
Completion:

The vertical pilot hole well will not be perforated or stimulated. The laterals will be cased with 4-1/2" pre-perforated un-cemented casing, to maintain hole stability for natural open hole completion.

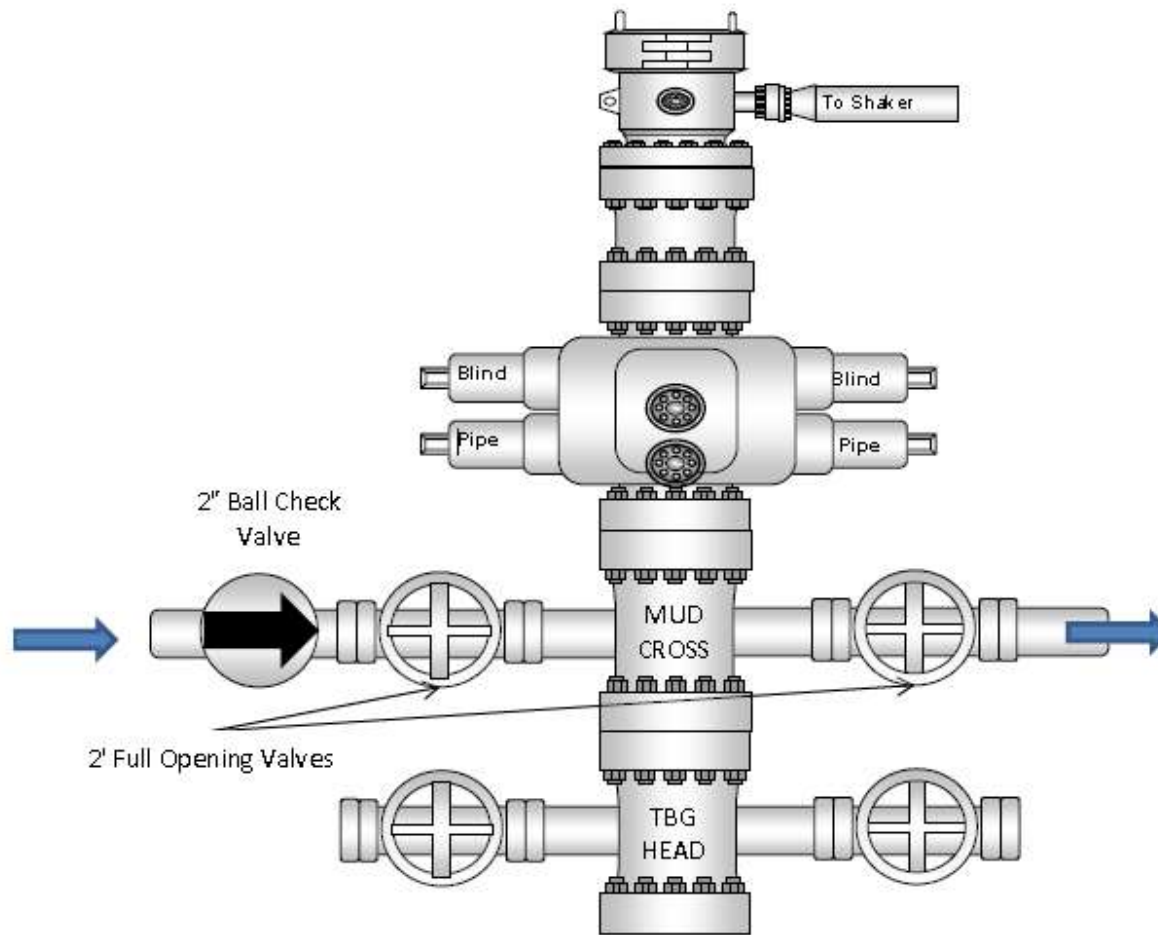
Horizontal Re-entry Procedure:

- Drill vertical pilot hole.
- Completed with 7" production casing and cement to surface.
- Run gyro survey, orient and set whipstock for casing exit #1 @ +/-5430' MD
- Mill window and TOOH for curve BHA.
- Planned KOP #1 @ 5430' MD / 3726' TVD.
- Drill 6-1/8" curve from 5430' MD / 3726' TVD to landing point @ 5759' MD / 3825' TVD at 90°.
- TOOH and PU lateral BHA.
- Drill from 5759' MD / 3825' TVD to 9280 MD / 3787' TVD.
- TOOH and run 4-1/2" pre-perforated liner from 5435' MD to TD @ 9280' MD
- Run gyro survey, orient and set whipstock for casing exit #2 @ +/-5390' MD
- Mill window and TOOH for curve BHA.
- Planned KOP #2 @ 5390' MD / 3703' TVD.
- Drill 6-1/8" curve from 5390' MD / 3703' TVD to landing point @ 5791' MD / 3825' TVD at 90°.
- TOOH and PU lateral BHA.
- Drill from 5791' MD / 3825' TVD to 9368' MD / 3787' TVD.
- TOOH and run 4-1/2" pre-perforated liner from 5395' MD to TD @ 9368' MD.
- TIH and Set Retrievable Kill Plug.
- Test Plug.
- Secure well, rig down and move off location.

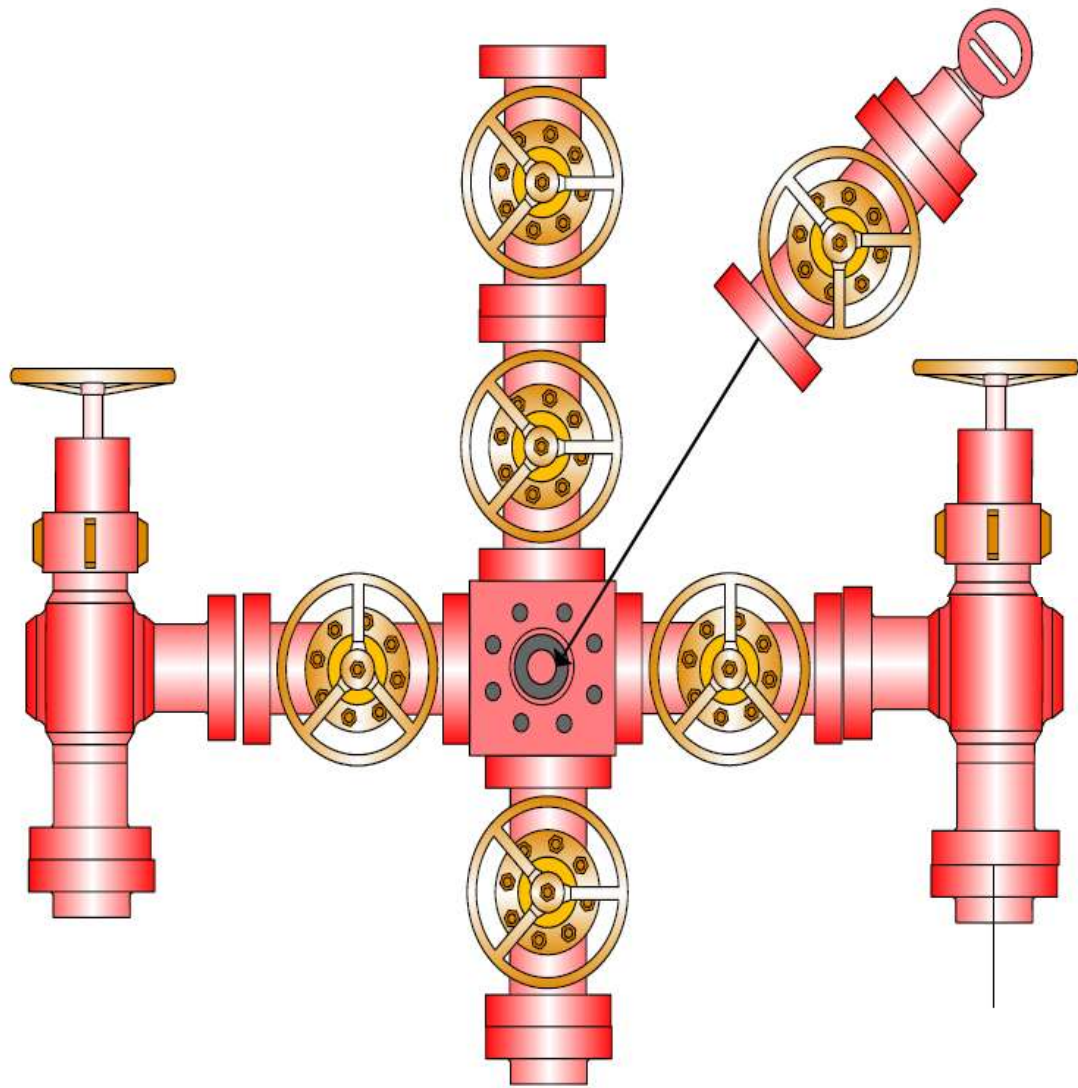
NOTE: Depths and directional plans are based on estimated formation tops. Corrections for KOP and landing points will be made based on actual formation tops from logs and BHA selection.



Proposed Class 2 BOP Stack - STACK #1 (PILOT HOLE)



Proposed Class 2 BOP Stack - STACK #2 (LATERAL RE-ENTRY)



(Minimum 2")

Proposed 2,000 psi Choke Manifold Stack

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

General Information
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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 494948

CONDITIONS

Operator: COLEMAN OIL & GAS INC P.O. Drawer 3337 Farmington, NM 87499	OGRID: 4838
	Action Number: 494948
	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.	9/15/2025
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	9/15/2025