

Santa Fe Main Office Phone: (505) 476-3441 Fax: (55) 476-3462 General Information Phone: (505) 629-6116 Online Phone Directory Visit: https://www.emnrd.nm.gov/ocd/contact-us/	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	C-104 Revised July 9, 2024 Submit Electronically Via OCD Permitting
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REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Section 1 - Operator and Well Information

Submittal Type: ☒ Test Allowable (C-104RT) ☐ New Well (C-104NW) ☐ Recomplete (C-104RC) ☐ Pay Add (C-104RC) ☐ Amended	
Operator Name: Coleman Oil and Gas Inc	OGRID: 4838
Property Name and Well Number: Carson 32-5-28 1H	Property Code: 327144
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	API Number: 30-039-31436
Pool Name: Basin Fruitland Coal	Pool Code: 71629

Section 2 – Surface Location

UL O	Section 28	Township 32N	Range 5W	Lot	Ft. from N/S 475 FSL	Ft. from E/W 2640 FEL	Latitude 36.9453467	Longitude -107.3677567	County Rio Arriba
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Section 3 – Completion Information

Producing Method Flowing	Ready Date 11/1/2024	Perforations MD 4394-7030, 4483-7982	Perforations TVD 3642-3648, 3650-3630
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Section 4 – Action IDs for Submissions and Order Numbers

List Action IDs for Drilling Sundries	Was an Order required / needed (Y/N), if yes list Order number:
C-104 RT Action ID (if C-104NW):	Communitization Agreement ☐ Yes ☒ No, Order No.
Surface Casing Action ID: 392095	Unit: ☐ Yes ☒ No, Order No.
Intermediate 1 Casing Action ID: 392095	Compulsory Pooling: ☐ Yes ☒ No, Order No.
Intermediate 2 Casing Action ID:	Down Hole Commingling: ☐ Yes ☒ No, Order No.
Production Casing Action ID: 392095	Surface Commingling: ☐ Yes ☒ No, Order No.
All casing was pressure tested in accordance with NMAC ☒ Yes ☐ No	Non-standard Location: ☐ Yes ☒ No ☐ Common ownership Order No.
Liner 1 Action ID:	Non-standard Proration: ☐ Yes ☒ No, Order No.
Casing was installed prior to OCD's Action ID system (Y/N): N	Simultaneous Dedication: ☐ Yes ☒ No, Order No.

Section 5 - Operator Signature and Certification

X I hereby certify that the required Water Use Report has been, or will be, submitted for this well's completion.	
X I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well's completion.	
X I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.	
Name Nolan Redmond	
Title Geo/Eng Tech	Date 10/25/2024

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

WELL LOCATION INFORMATION

API Number 30-039-31436	Pool Code 71629	Pool Name Basin Fruitland
Property Code 327144	Property Name CARSON 32-5-28	Well Number 1
OGRID No. 4838	Operator Name COLEMAN OIL & GAS, INC.	Ground Level Elevation 6950.8
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	28	32 N	5 W		475 FSL	2640 FEL	36.9453467° N	107.3677567° W	RIO ARRIBA

Pilot Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	28	32 N	5 W		1021 FSL	1291 FEL	36.9468487° N	107.3631387° W	RIO ARRIBA

Dedicated Acres 320	Infill or Defining Well defining	Defining Well API 30-039-31436	Overlapping Spacing Unit (Y/N) No	Consolidation Code
Order Numbers.		Well setbacks are under Common Ownership: ☒ Yes ☐ No		

Pilot Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	28	32 N	5 W		481 FSL	2632 FWL	36.9453642° N	107.3677619° W	RIO ARRIBA

Pilot First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County

Pilot Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County

Unitized Area or Area of Uniform Interest N/A	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 6950.8
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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. Nolan Redmond 10/31/2024 Signature Date Printed Name nredmond@catamountep.com E-mail Address		SURVEYOR CERTIFICATIONS I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  Signature and Seal of Professional Surveyor Certificate Number 14831 Date of Survey 8/26/24 10/25/2024	
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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.

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

WELL LOCATION INFORMATION

API Number 30-039-31436	Pool Code 71629	Pool Name Basin Fruitland
Property Code 327144	Property Name CARSON 32-5-28	Well Number 1
OGRID No. 4838	Operator Name COLEMAN OIL & GAS, INC.	Ground Level Elevation 6950.8
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	28	32 N	5 W		475 FSL	2640 FEL	36.9453467° N	107.3677567° W	RIO ARRIBA

Lateral 1 Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	28	32 N	5 W		1510 FSL	805 FEL	36.9481929° N	107.3614753° W	RIO ARRIBA

Dedicated Acres 320	Infill or Defining Well defining	Defining Well API 30-039-31436	Overlapping Spacing Unit (Y/N) No	Consolidation Code
Order Numbers.		Well setbacks are under Common Ownership: ☒ Yes ☐ No		

Lateral 1 Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	28	32 N	5 W		775 FSL	1277 FEL	36.9461733° N	107.3630922° W	RIO ARRIBA

Lateral 1 First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County

Lateral 1 Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County

Unitized Area or Area of Uniform Interest N/A	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 6950.8
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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.

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

WELL LOCATION INFORMATION

API Number 30-039-31436	Pool Code 71629	Pool Name Basin Fruitland
Property Code 327144	Property Name CARSON 32-5-28	Well Number 1
OGRID No. 4838	Operator Name COLEMAN OIL & GAS, INC.	Ground Level Elevation 6950.8
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	28	32 N	5 W		475 FSL	2640 FEL	36.9453467° N	107.3677567° W	RIO ARRIBA

Lateral 1 ST1 Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	28	32 N	5 W		1449 FNL	689 FEL	36.9545339° N	107.3610843° W	RIO ARRIBA

Dedicated Acres 320	Infill or Defining Well defining	Defining Well API 30-039-31436	Overlapping Spacing Unit (Y/N) No	Consolidation Code
Order Numbers.		Well setbacks are under Common Ownership: ☒ Yes ☐ No		

Lateral 1 ST1 Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	28	32 N	5 W		749 FSL	1277 FEL	36.9461031° N	107.3630918° W	RIO ARRIBA

Lateral 1 ST1 First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	28	32 N	5 W		1107 FSL	1211 FEL	36.9470856° N	107.3628660° W	RIO ARRIBA

Lateral 1 ST1 Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	28	32 N	5 W		1449 FNL	689 FEL	36.9545339° N	107.3610843° W	RIO ARRIBA

Unitized Area or Area of Uniform Interest N/A	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 6950.8
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WELL LOCATION INFORMATION

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Property Code 327144	Property Name CARSON 32-5-28	Well Number 1
OGRID No. 4838	Operator Name COLEMAN OIL & GAS, INC.	Ground Level Elevation 6950.8
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	28	32 N	5 W		475 FSL	2640 FEL	36.9453467° N	107.3677567° W	RIO ARRIBA

Lateral 2 Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	28	32 N	5 W		693 FNL	1932 FEL	36.9566172° N	107.3653392° W	RIO ARRIBA

Dedicated Acres 320	Infill or Defining Well defining	Defining Well API 30-039-31436	Overlapping Spacing Unit (Y/N) No	Consolidation Code
Order Numbers.		Well setbacks are under Common Ownership: ☒ Yes ☐ No		

Lateral 2 Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	28	32 N	5 W		728 FSL	1277 FEL	36.9460447° N	107.3630923° W	RIO ARRIBA

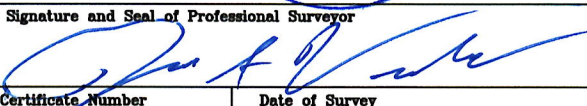
Lateral 2 First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	28	32 N	5 W		1210 FSL	1483 FEL	36.9473679° N	107.3637967° W	RIO ARRIBA

Lateral 2 Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	28	32 N	5 W		693 FNL	1932 FEL	36.9566172° N	107.3653392° W	RIO ARRIBA

Unitized Area or Area of Uniform Interest N/A	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 6950.8
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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.

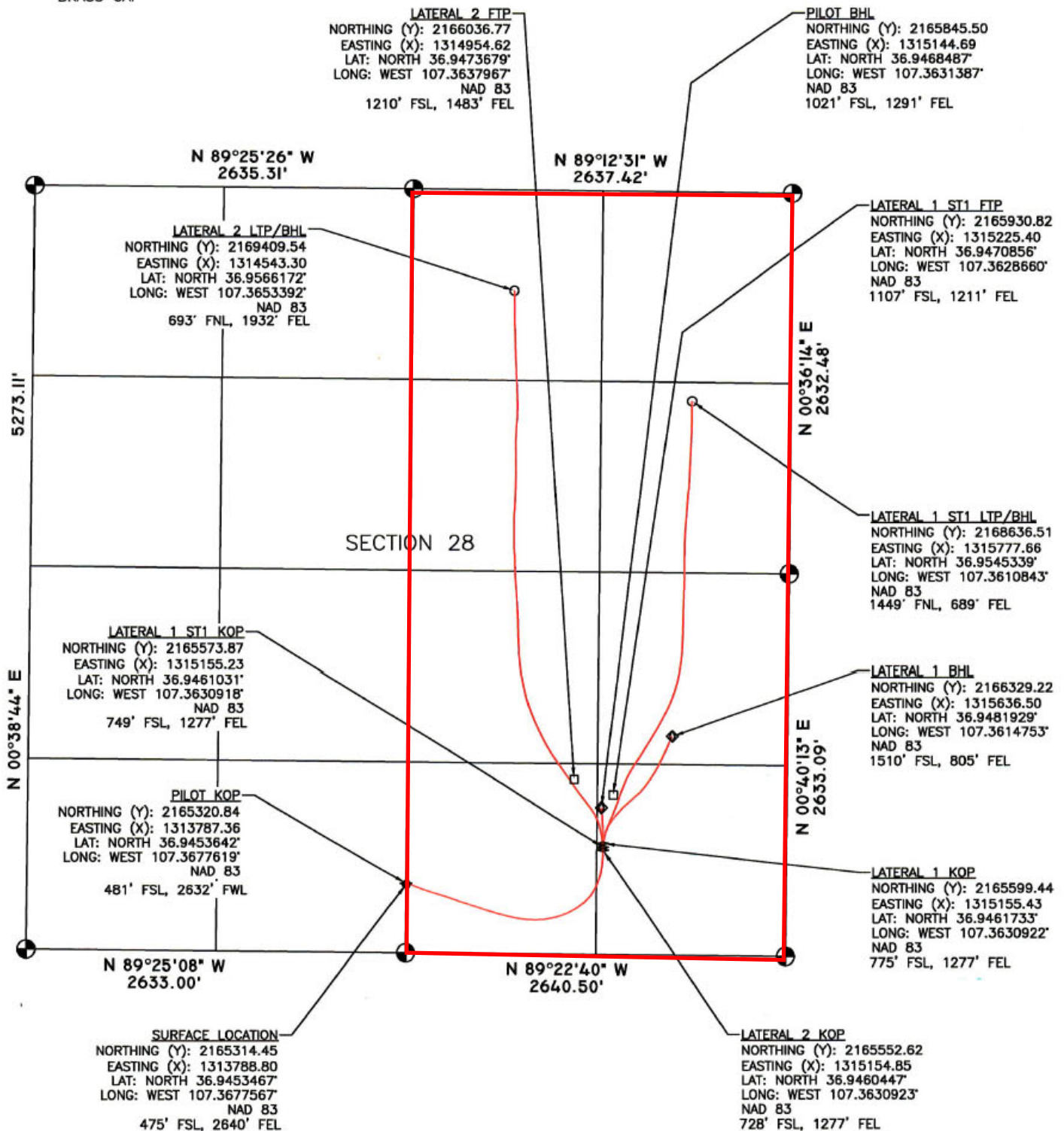
Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

LEGEND:

- = SURFACE LOCATION
- ◄ = KICK OFF POINT (KOP)
- = FIRST TAKE POINT (FTP)
- = LAST TAKE POINT (LTP) /
BOTTOM HOLE LOCATION (BHL)
- ◆ = BOTTOM HOLE LOCATION (BHL)
- ⊙ = FOUND 1924 U.S.G.L.O.
BRASS CAP

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 REPORTS FURNISHED BY COLEMAN OIL & GAS, INC. DATED 9/23-9/24/24





Survey Certification

7327 West Barton Road
Casper, WY 82604
(307)-472-6621

Operator	Coleman Oil & Gas
Well Name & No.	Carson 32-5-28 1 Lateral 1
API #	30-039-31436
County & State	Rio Arriba County, NM
SDI Job #	OP.046058
Rig	Aztec 1099
Survey Date	9/10/2024 to 9/14/2024
GL & KB Elevation	GL 6951 & KB 17' = 6968'

I, Janie Collins, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 4109 feet to a measured depth of 4,958 feet is true and correct as determined from all available records.

A handwritten signature in blue ink, appearing to read 'Janie Collins', written over a horizontal line.

Signature

24-Sep-2024

Date

Janie Collins

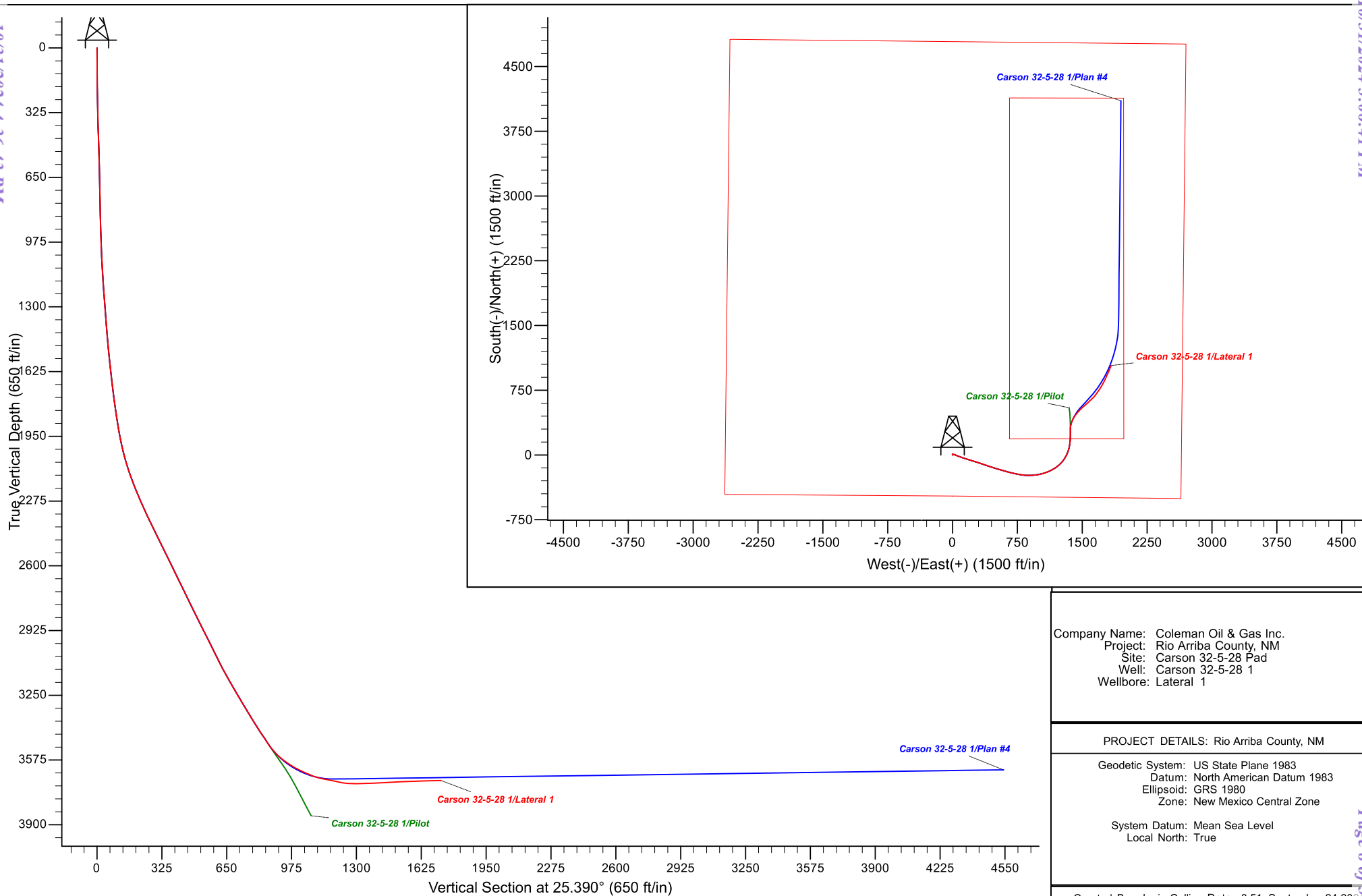
Rockies Region Well Planner
Scientific Drilling - Rocky Mountain District



WELL DETAILS: Carson 32-5-28 1



+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	2165314.45	1313788.80	36.9453467	-107.3677567



Company Name: Coleman Oil & Gas Inc.
Project: Rio Arriba County, NM
Site: Carson 32-5-28 Pad
Well: Carson 32-5-28 1
Wellbore: Lateral 1

PROJECT DETAILS: Rio Arriba County, NM

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Central Zone

System Datum: Mean Sea Level
Local North: True

Created By: Janie Collins Date: 8:51, September 24 2024



Coleman Oil & Gas Inc.

Rio Arriba County, NM

Carson 32-5-28 Pad

Carson 32-5-28 1

Lateral 1

Design: Lateral 1

Standard Survey Report

24 September, 2024



www.scientificdrilling.com



Scientific Drilling

Survey Report



Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-28 1
Project:	Rio Arriba County, NM	TVD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Site:	Carson 32-5-28 Pad	MD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Well:	Carson 32-5-28 1	North Reference:	True
Wellbore:	Lateral 1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 1	Database:	Grand Junction

Project	Rio Arriba County, NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site		Carson 32-5-28 Pad			
Site Position:		Northing:	2,165,314.45 usft	Latitude:	36.9453467
From:	Lat/Long	Easting:	1,313,788.80 usft	Longitude:	-107.3677568
Position Uncertainty:	0.00 ft	Slot Radius:	13.20 in	Grid Convergence:	-0.67 °

Well	Carson 32-5-28 1					
Well Position	+N/-S	0.00 ft	Northing:	2,165,314.45 usft	Latitude:	36.9453467
	+E/-W	0.00 ft	Easting:	1,313,788.80 usft	Longitude:	-107.3677568
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	6,951.00 ft

Wellbore	Lateral 1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2024	9/9/2024	8.42	63.30	49,319.70000000

Design	Lateral 1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	4,009.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	25.390	

Survey Program	Date	9/24/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
382.00	4,009.00	Survey #1 - MWD Survey (Pilot)	MWD+HDGM	OWSG MWD + HDGM	
4,109.00	4,958.00	Survey #1 - MWD Surveys (Lateral 1)	MWD+HDGM	OWSG MWD + HDGM	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
382.00	2.00	346.610	381.92	6.49	-1.54	5.20	0.52	0.52	0.00	
442.00	1.97	61.540	441.90	8.00	-0.88	6.85	4.02	-0.05	124.88	
503.00	4.36	94.020	502.80	8.33	2.36	8.54	4.75	3.92	53.25	
564.00	7.09	101.540	563.49	7.42	8.36	10.28	4.63	4.48	12.33	
623.00	10.88	106.280	621.76	5.13	17.27	12.04	6.54	6.42	8.03	
684.00	12.93	111.440	681.45	1.02	29.15	13.42	3.78	3.36	8.46	
744.00	14.11	112.520	739.78	-4.24	42.16	14.25	2.01	1.97	1.80	
803.00	15.10	111.460	796.87	-9.80	55.95	15.14	1.74	1.68	-1.80	
864.00	17.18	110.380	855.47	-15.85	71.80	16.47	3.45	3.41	-1.77	

Scientific Drilling

Survey Report



Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-28 1
Project:	Rio Arriba County, NM	TVD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Site:	Carson 32-5-28 Pad	MD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Well:	Carson 32-5-28 1	North Reference:	True
Wellbore:	Lateral 1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 1	Database:	Grand Junction

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
924.00	18.99	110.500	912.50	-22.35	89.25	18.07	3.02	3.02	0.20
984.00	20.67	110.100	968.94	-29.41	108.34	19.88	2.81	2.80	-0.67
1,044.00	21.56	108.600	1,024.91	-36.57	128.73	22.16	1.74	1.48	-2.50
1,104.00	22.25	107.920	1,080.58	-43.58	149.99	24.94	1.23	1.15	-1.13
1,163.00	23.02	107.940	1,135.04	-50.57	171.59	27.89	1.31	1.31	0.03
1,222.00	24.66	106.990	1,189.00	-57.72	194.34	31.18	2.85	2.78	-1.61
1,283.00	26.26	106.050	1,244.07	-65.17	219.48	35.23	2.71	2.62	-1.54
1,345.00	27.92	106.280	1,299.27	-73.03	246.60	39.76	2.68	2.68	0.37
1,408.00	30.07	108.170	1,354.37	-82.09	275.76	44.08	3.71	3.41	3.00
1,471.00	32.87	109.220	1,408.10	-92.64	306.90	47.90	4.53	4.44	1.67
1,534.00	35.87	108.720	1,460.10	-104.20	340.53	51.88	4.78	4.76	-0.79
1,597.00	38.54	108.720	1,510.27	-116.42	376.61	56.31	4.24	4.24	0.00
1,659.00	39.85	107.600	1,558.32	-128.63	413.84	61.24	2.40	2.11	-1.81
1,722.00	39.86	107.580	1,606.68	-140.83	452.32	66.72	0.03	0.02	-0.03
1,784.00	39.40	107.360	1,654.43	-152.70	490.05	72.17	0.78	-0.74	-0.35
1,847.00	38.48	107.150	1,703.43	-164.45	527.86	77.77	1.48	-1.46	-0.33
1,910.00	38.99	105.650	1,752.58	-175.57	565.67	83.93	1.70	0.81	-2.38
1,973.00	39.53	105.480	1,801.36	-186.27	604.08	90.74	0.87	0.86	-0.27
2,035.00	39.37	104.810	1,849.23	-196.56	642.11	97.74	0.73	-0.26	-1.08
2,097.00	39.72	104.140	1,897.04	-206.43	680.33	105.22	0.89	0.56	-1.08
2,158.00	40.34	103.390	1,943.75	-215.76	718.43	113.13	1.29	1.02	-1.23
2,221.00	40.47	100.870	1,991.73	-224.34	758.35	122.49	2.60	0.21	-4.00
2,283.00	40.80	97.540	2,038.78	-230.79	798.20	133.75	3.54	0.53	-5.37
2,346.00	40.34	93.690	2,086.65	-234.81	838.96	147.60	4.04	-0.73	-6.11
2,408.00	39.59	90.970	2,134.17	-236.43	878.74	163.19	3.07	-1.21	-4.39
2,471.00	38.82	87.720	2,182.99	-235.99	918.55	180.66	3.48	-1.22	-5.16
2,533.00	37.81	82.910	2,231.65	-232.87	956.83	199.89	5.08	-1.63	-7.76
2,596.00	36.59	79.040	2,281.84	-226.91	994.44	221.40	4.19	-1.94	-6.14
2,659.00	35.55	75.320	2,332.76	-218.70	1,030.59	244.32	3.85	-1.65	-5.90
2,720.00	35.73	72.810	2,382.34	-208.94	1,064.77	267.79	2.42	0.30	-4.11
2,783.00	34.22	68.990	2,433.97	-197.15	1,098.88	293.07	4.22	-2.40	-6.06
2,846.00	32.03	63.940	2,486.74	-183.46	1,130.44	318.97	5.59	-3.48	-8.02
2,909.00	30.11	60.100	2,540.70	-168.24	1,159.15	345.03	4.38	-3.05	-6.10
2,972.00	29.92	56.600	2,595.26	-151.71	1,185.97	371.46	2.80	-0.30	-5.56
3,035.00	29.24	52.880	2,650.05	-133.77	1,211.36	398.55	3.11	-1.08	-5.90
3,097.00	27.76	47.630	2,704.54	-114.90	1,234.10	425.35	4.69	-2.39	-8.47
3,160.00	26.55	44.160	2,760.60	-94.91	1,254.75	452.27	3.16	-1.92	-5.51
3,223.00	26.57	38.980	2,816.96	-73.85	1,273.43	479.30	3.68	0.03	-8.22
3,285.00	27.10	33.050	2,872.29	-51.23	1,289.85	506.77	4.40	0.85	-9.56
3,348.00	27.57	28.510	2,928.27	-26.39	1,304.64	535.56	3.39	0.75	-7.21
3,411.00	26.24	24.620	2,984.45	-0.92	1,317.40	564.04	3.50	-2.11	-6.17
3,473.00	25.88	21.870	3,040.15	24.10	1,328.15	591.26	2.03	-0.58	-4.44
3,536.00	27.14	19.330	3,096.52	50.42	1,338.03	619.27	2.69	2.00	-4.03



Scientific Drilling

Survey Report



Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-28 1
Project:	Rio Arriba County, NM	TVD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Site:	Carson 32-5-28 Pad	MD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Well:	Carson 32-5-28 1	North Reference:	True
Wellbore:	Lateral 1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 1	Database:	Grand Junction

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,599.00	29.70	15.830	3,151.93	79.00	1,347.05	648.96	4.85	4.06	-5.56
3,662.00	30.90	9.760	3,206.34	109.97	1,354.05	679.93	5.22	1.90	-9.63
3,724.00	32.17	5.840	3,259.19	142.08	1,358.43	710.82	3.89	2.05	-6.32
3,787.00	32.85	4.270	3,312.31	175.81	1,361.41	742.57	1.72	1.08	-2.49
3,849.00	33.68	1.230	3,364.16	209.77	1,363.03	773.94	3.00	1.34	-4.90
3,912.00	35.44	359.900	3,416.04	245.50	1,363.37	806.37	3.04	2.79	-2.11
3,974.00	36.57	359.790	3,466.19	281.95	1,363.27	839.25	1.83	1.82	-0.18
4,009.00	36.51	359.718	3,494.32	302.78	1,363.18	858.04	0.21	-0.17	-0.21
4,109.00	50.71	17.250	3,566.80	370.08	1,374.61	923.73	18.55	14.20	17.53
4,171.00	58.37	27.450	3,602.80	416.56	1,393.96	974.03	18.20	12.35	16.45
4,234.00	65.64	36.400	3,632.40	463.60	1,423.44	1,029.16	17.03	11.54	14.21
4,297.00	69.77	43.200	3,656.32	508.31	1,460.75	1,085.55	11.94	6.56	10.79
4,359.00	82.42	46.650	3,671.20	550.79	1,503.19	1,142.12	21.10	20.40	5.56
4,391.00	77.97	48.720	3,676.65	572.01	1,526.50	1,171.29	15.30	-13.91	6.47
4,451.00	80.34	48.900	3,687.93	610.82	1,570.84	1,225.36	3.96	3.95	0.30
4,511.00	89.90	45.600	3,693.03	651.36	1,614.68	1,280.78	16.85	15.93	-5.50
4,571.00	90.77	36.860	3,692.68	696.43	1,654.18	1,338.44	14.64	1.45	-14.57
4,631.00	93.16	34.940	3,690.62	745.00	1,689.34	1,397.39	5.11	3.98	-3.20
4,692.00	93.46	30.800	3,687.10	796.14	1,722.39	1,457.76	6.79	0.49	-6.79
4,752.00	92.05	26.940	3,684.22	848.61	1,751.31	1,517.57	6.84	-2.35	-6.43
4,845.00	92.39	23.470	3,680.61	932.68	1,790.88	1,610.48	3.75	0.37	-3.73
4,872.00	91.68	23.350	3,679.65	957.44	1,801.60	1,637.45	2.67	-2.63	-0.44
4,958.00	91.68	23.350	3,677.13	1,036.36	1,835.67	1,723.36	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____



Survey Certification

7327 West Barton Road
Casper, WY 82604
(307)-472-6621

Operator	Coleman Oil & Gas
Well Name & No.	Carson 32-5-28 1 Lateral 1 ST1
API #	30-039-31436
County & State	Rio Arriba County, NM
SDI Job #	OP.046058
Rig	Aztec 1099
Survey Date	9/14/2024 to 9/17/2024
GL & KB Elevation	GL 6951 & KB 17' = 6968'

I, Janie Collins, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 4065 feet to a measured depth of 7,208 feet is true and correct as determined from all available records.

A handwritten signature in blue ink, appearing to read 'Janie Collins', written over a horizontal line.

Signature

23-Sep-2024

Date

Janie Collins

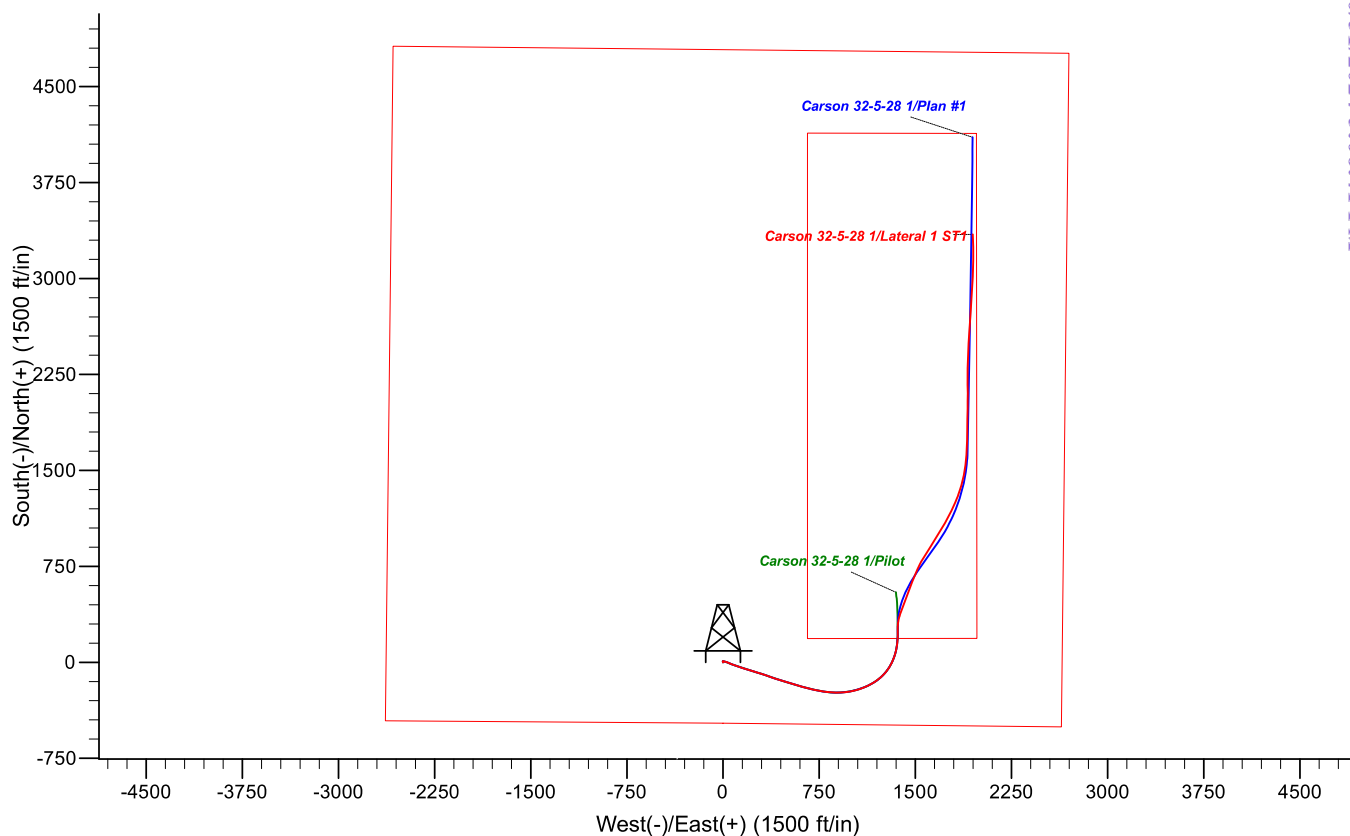
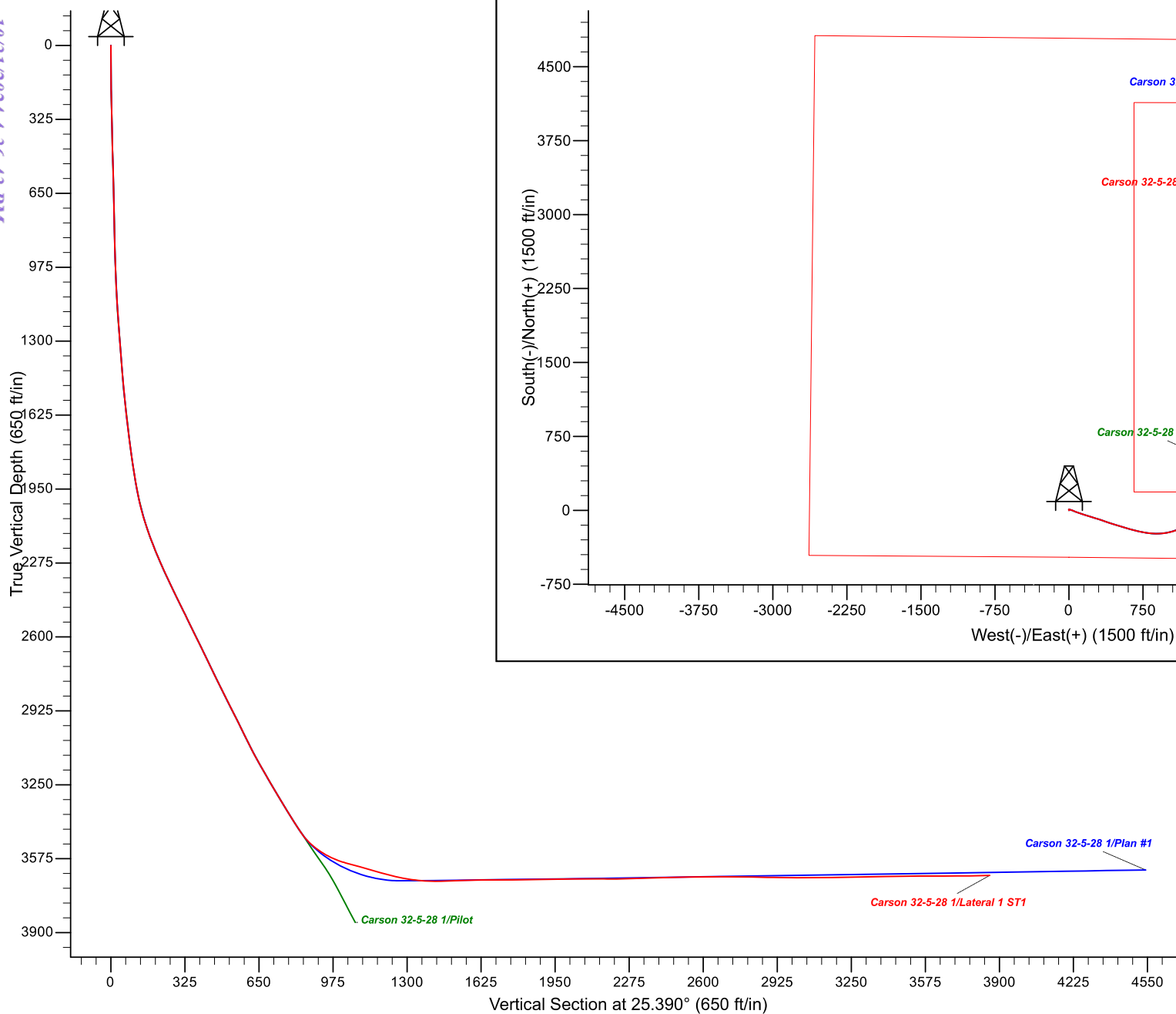
Rockies Region Well Planner
Scientific Drilling - Rocky Mountain District



WELL DETAILS: Carson 32-5-28 1



+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	2165314.45	1313788.80	36.9453467	-107.3677567



Company Name: Coleman Oil & Gas Inc.
Project: Rio Arriba County, NM
Site: Carson 32-5-28 Pad
Well: Carson 32-5-28 1
Wellbore: Lateral 1 ST1

PROJECT DETAILS: Rio Arriba County, NM

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Central Zone

System Datum: Mean Sea Level
Local North: True

Created By: Janie Collins Date: 15:32, September 23 2024



Coleman Oil & Gas Inc.

Rio Arriba County, NM

Carson 32-5-28 Pad

Carson 32-5-28 1

Lateral 1 ST1

Design: Lateral 1 ST1

Standard Survey Report

23 September, 2024



Scientific Drilling

www.scientificdrilling.com



Scientific Drilling

Survey Report



Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-28 1
Project:	Rio Arriba County, NM	TVD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Site:	Carson 32-5-28 Pad	MD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Well:	Carson 32-5-28 1	North Reference:	True
Wellbore:	Lateral 1 ST1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 1 ST1	Database:	Grand Junction

Project	Rio Arriba County, NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site		Carson 32-5-28 Pad			
Site Position:		Northing:	2,165,314.45 usft	Latitude:	36.9453467
From:	Lat/Long	Easting:	1,313,788.80 usft	Longitude:	-107.3677568
Position Uncertainty:	0.00 ft	Slot Radius:	13.20 in	Grid Convergence:	-0.67 °

Well	Carson 32-5-28 1					
Well Position	+N/-S	0.00 ft	Northing:	2,165,314.45 usft	Latitude:	36.9453467
	+E/-W	0.00 ft	Easting:	1,313,788.80 usft	Longitude:	-107.3677568
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	6,951.00 ft

Wellbore	Lateral 1 ST1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2024	9/13/2024	8.42	63.30	49,318.20000000

Design	Lateral 1 ST1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	3,965.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	25.390	

Survey Program	Date	9/17/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
382.00	3,965.00	Survey #1 - MWD Survey (Pilot)	MWD+HDGM	OWSG MWD + HDGM	
4,065.00	7,208.00	Survey #1 - MWD Survey (Lateral 1 ST1)	MWD+HDGM	OWSG MWD + HDGM	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
382.00	2.00	346.610	381.92	6.49	-1.54	5.20	0.52	0.52	0.00	
442.00	1.97	61.540	441.90	8.00	-0.88	6.85	4.02	-0.05	124.88	
503.00	4.36	94.020	502.80	8.33	2.36	8.54	4.75	3.92	53.25	
564.00	7.09	101.540	563.49	7.42	8.36	10.28	4.63	4.48	12.33	
623.00	10.88	106.280	621.76	5.13	17.27	12.04	6.54	6.42	8.03	
684.00	12.93	111.440	681.45	1.02	29.15	13.42	3.78	3.36	8.46	
744.00	14.11	112.520	739.78	-4.24	42.16	14.25	2.01	1.97	1.80	
803.00	15.10	111.460	796.87	-9.80	55.95	15.14	1.74	1.68	-1.80	
864.00	17.18	110.380	855.47	-15.85	71.80	16.47	3.45	3.41	-1.77	

Scientific Drilling

Survey Report



Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-28 1
Project:	Rio Arriba County, NM	TVD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Site:	Carson 32-5-28 Pad	MD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Well:	Carson 32-5-28 1	North Reference:	True
Wellbore:	Lateral 1 ST1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 1 ST1	Database:	Grand Junction

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
924.00	18.99	110.500	912.50	-22.35	89.25	18.07	3.02	3.02	0.20
984.00	20.67	110.100	968.94	-29.41	108.34	19.88	2.81	2.80	-0.67
1,044.00	21.56	108.600	1,024.91	-36.57	128.73	22.16	1.74	1.48	-2.50
1,104.00	22.25	107.920	1,080.58	-43.58	149.99	24.94	1.23	1.15	-1.13
1,163.00	23.02	107.940	1,135.04	-50.57	171.59	27.89	1.31	1.31	0.03
1,222.00	24.66	106.990	1,189.00	-57.72	194.34	31.18	2.85	2.78	-1.61
1,283.00	26.26	106.050	1,244.07	-65.17	219.48	35.23	2.71	2.62	-1.54
1,345.00	27.92	106.280	1,299.27	-73.03	246.60	39.76	2.68	2.68	0.37
1,408.00	30.07	108.170	1,354.37	-82.09	275.76	44.08	3.71	3.41	3.00
1,471.00	32.87	109.220	1,408.10	-92.64	306.90	47.90	4.53	4.44	1.67
1,534.00	35.87	108.720	1,460.10	-104.20	340.53	51.88	4.78	4.76	-0.79
1,597.00	38.54	108.720	1,510.27	-116.42	376.61	56.31	4.24	4.24	0.00
1,659.00	39.85	107.600	1,558.32	-128.63	413.84	61.24	2.40	2.11	-1.81
1,722.00	39.86	107.580	1,606.68	-140.83	452.32	66.72	0.03	0.02	-0.03
1,784.00	39.40	107.360	1,654.43	-152.70	490.05	72.17	0.78	-0.74	-0.35
1,847.00	38.48	107.150	1,703.43	-164.45	527.86	77.77	1.48	-1.46	-0.33
1,910.00	38.99	105.650	1,752.58	-175.57	565.67	83.93	1.70	0.81	-2.38
1,973.00	39.53	105.480	1,801.36	-186.27	604.08	90.74	0.87	0.86	-0.27
2,035.00	39.37	104.810	1,849.23	-196.56	642.11	97.74	0.73	-0.26	-1.08
2,097.00	39.72	104.140	1,897.04	-206.43	680.33	105.22	0.89	0.56	-1.08
2,158.00	40.34	103.390	1,943.75	-215.76	718.43	113.13	1.29	1.02	-1.23
2,221.00	40.47	100.870	1,991.73	-224.34	758.35	122.49	2.60	0.21	-4.00
2,283.00	40.80	97.540	2,038.78	-230.79	798.20	133.75	3.54	0.53	-5.37
2,346.00	40.34	93.690	2,086.65	-234.81	838.96	147.60	4.04	-0.73	-6.11
2,408.00	39.59	90.970	2,134.17	-236.43	878.74	163.19	3.07	-1.21	-4.39
2,471.00	38.82	87.720	2,182.99	-235.99	918.55	180.66	3.48	-1.22	-5.16
2,533.00	37.81	82.910	2,231.65	-232.87	956.83	199.89	5.08	-1.63	-7.76
2,596.00	36.59	79.040	2,281.84	-226.91	994.44	221.40	4.19	-1.94	-6.14
2,659.00	35.55	75.320	2,332.76	-218.70	1,030.59	244.32	3.85	-1.65	-5.90
2,720.00	35.73	72.810	2,382.34	-208.94	1,064.77	267.79	2.42	0.30	-4.11
2,783.00	34.22	68.990	2,433.97	-197.15	1,098.88	293.07	4.22	-2.40	-6.06
2,846.00	32.03	63.940	2,486.74	-183.46	1,130.44	318.97	5.59	-3.48	-8.02
2,909.00	30.11	60.100	2,540.70	-168.24	1,159.15	345.03	4.38	-3.05	-6.10
2,972.00	29.92	56.600	2,595.26	-151.71	1,185.97	371.46	2.80	-0.30	-5.56
3,035.00	29.24	52.880	2,650.05	-133.77	1,211.36	398.55	3.11	-1.08	-5.90
3,097.00	27.76	47.630	2,704.54	-114.90	1,234.10	425.35	4.69	-2.39	-8.47
3,160.00	26.55	44.160	2,760.60	-94.91	1,254.75	452.27	3.16	-1.92	-5.51
3,223.00	26.57	38.980	2,816.96	-73.85	1,273.43	479.30	3.68	0.03	-8.22
3,285.00	27.10	33.050	2,872.29	-51.23	1,289.85	506.77	4.40	0.85	-9.56
3,348.00	27.57	28.510	2,928.27	-26.39	1,304.64	535.56	3.39	0.75	-7.21
3,411.00	26.24	24.620	2,984.45	-0.92	1,317.40	564.04	3.50	-2.11	-6.17
3,473.00	25.88	21.870	3,040.15	24.10	1,328.15	591.26	2.03	-0.58	-4.44
3,536.00	27.14	19.330	3,096.52	50.42	1,338.03	619.27	2.69	2.00	-4.03



Scientific Drilling Survey Report



Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-28 1
Project:	Rio Arriba County, NM	TVD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Site:	Carson 32-5-28 Pad	MD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Well:	Carson 32-5-28 1	North Reference:	True
Wellbore:	Lateral 1 ST1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 1 ST1	Database:	Grand Junction

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,599.00	29.70	15.830	3,151.93	79.00	1,347.05	648.96	4.85	4.06	-5.56
3,662.00	30.90	9.760	3,206.34	109.97	1,354.05	679.93	5.22	1.90	-9.63
3,724.00	32.17	5.840	3,259.19	142.08	1,358.43	710.82	3.89	2.05	-6.32
3,787.00	32.85	4.270	3,312.31	175.81	1,361.41	742.57	1.72	1.08	-2.49
3,849.00	33.68	1.230	3,364.16	209.77	1,363.03	773.94	3.00	1.34	-4.90
3,912.00	35.44	359.900	3,416.04	245.50	1,363.37	806.37	3.04	2.79	-2.11
3,965.00	36.41	359.806	3,458.96	276.59	1,363.29	834.43	1.83	1.82	-0.18
4,065.00	53.77	14.200	3,529.47	346.08	1,373.19	901.44	20.05	17.36	14.39
4,097.00	57.48	17.680	3,547.54	371.46	1,380.45	927.49	14.66	11.59	10.88
4,159.00	67.37	20.670	3,576.21	423.27	1,398.54	982.05	16.51	15.95	4.82
4,218.00	74.91	21.100	3,595.27	475.40	1,418.43	1,037.67	12.80	12.78	0.73
4,278.00	74.92	21.550	3,610.88	529.37	1,439.50	1,095.46	0.72	0.02	0.75
4,338.00	73.57	20.580	3,627.18	583.25	1,460.26	1,153.04	2.74	-2.25	-1.62
4,399.00	75.08	20.320	3,643.66	638.28	1,480.78	1,211.55	2.51	2.48	-0.43
4,460.00	78.06	22.170	3,657.82	693.57	1,502.28	1,270.72	5.71	4.89	3.03
4,520.00	82.76	24.710	3,667.82	747.82	1,525.81	1,329.82	8.88	7.83	4.23
4,580.00	87.58	31.290	3,672.87	800.56	1,553.87	1,389.50	13.56	8.03	10.97
4,641.00	91.41	32.430	3,673.41	852.36	1,586.06	1,450.09	6.55	6.28	1.87
4,732.00	92.59	33.050	3,670.24	928.85	1,635.24	1,540.29	1.46	1.30	0.68
4,821.00	89.80	30.790	3,668.38	1,004.37	1,682.28	1,628.68	4.03	-3.13	-2.54
4,881.00	89.90	30.600	3,668.54	1,055.96	1,712.91	1,688.42	0.36	0.17	-0.32
4,942.00	90.87	28.300	3,668.13	1,109.07	1,742.90	1,749.26	4.09	1.59	-3.77
5,002.00	91.61	27.150	3,666.83	1,162.17	1,770.80	1,809.20	2.28	1.23	-1.92
5,062.00	90.87	24.540	3,665.53	1,216.15	1,796.95	1,869.18	4.52	-1.23	-4.35
5,122.00	89.83	22.400	3,665.16	1,271.18	1,820.85	1,929.14	3.97	-1.73	-3.57
5,181.00	90.57	18.820	3,664.96	1,326.40	1,841.61	1,987.92	6.20	1.25	-6.07
5,241.00	91.41	15.960	3,663.92	1,383.64	1,859.54	2,047.32	4.97	1.40	-4.77
5,300.00	90.27	12.470	3,663.06	1,440.82	1,874.02	2,105.19	6.22	-1.93	-5.92
5,361.00	89.16	9.730	3,663.36	1,500.67	1,885.76	2,164.29	4.85	-1.82	-4.49
5,420.00	90.30	5.900	3,663.64	1,559.11	1,893.79	2,220.53	6.77	1.93	-6.49
5,480.00	92.22	4.030	3,662.32	1,618.86	1,898.98	2,276.74	4.47	3.20	-3.12
5,540.00	91.24	1.410	3,660.51	1,678.76	1,901.82	2,332.07	4.66	-1.63	-4.37
5,600.00	91.68	1.520	3,658.98	1,738.72	1,903.36	2,386.90	0.76	0.73	0.18
5,661.00	91.44	1.910	3,657.32	1,799.67	1,905.18	2,442.74	0.75	-0.39	0.64
5,723.00	90.64	0.880	3,656.19	1,861.64	1,906.69	2,499.37	2.10	-1.29	-1.66
5,783.00	90.47	0.600	3,655.61	1,921.63	1,907.46	2,553.90	0.55	-0.28	-0.47
5,844.00	91.04	0.430	3,654.81	1,982.63	1,908.01	2,609.24	0.98	0.93	-0.28
5,904.00	90.07	1.320	3,654.22	2,042.62	1,908.93	2,663.83	2.19	-1.62	1.48
5,964.00	89.70	0.350	3,654.35	2,102.61	1,909.80	2,718.40	1.73	-0.62	-1.62
6,024.00	89.83	359.260	3,654.59	2,162.61	1,909.60	2,772.51	1.83	0.22	-1.82
6,084.00	88.66	359.920	3,655.38	2,222.60	1,909.17	2,826.53	2.24	-1.95	1.10
6,145.00	89.56	359.860	3,656.33	2,283.59	1,909.05	2,881.58	1.48	1.48	-0.10
6,205.00	88.42	0.620	3,657.39	2,343.58	1,909.30	2,935.88	2.28	-1.90	1.27



Scientific Drilling

Survey Report



Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-28 1
Project:	Rio Arriba County, NM	TVD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Site:	Carson 32-5-28 Pad	MD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Well:	Carson 32-5-28 1	North Reference:	True
Wellbore:	Lateral 1 ST1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 1 ST1	Database:	Grand Junction

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
6,266.00	88.93	2.480	3,658.80	2,404.54	1,910.95	2,991.66	3.16	0.84	3.05	
6,326.00	90.81	3.230	3,658.93	2,464.46	1,913.94	3,047.07	3.37	3.13	1.25	
6,386.00	91.48	3.990	3,657.73	2,524.33	1,917.72	3,102.78	1.69	1.12	1.27	
6,446.00	91.21	3.540	3,656.33	2,584.18	1,921.66	3,158.54	0.87	-0.45	-0.75	
6,506.00	89.73	3.520	3,655.83	2,644.06	1,925.35	3,214.22	2.47	-2.47	-0.03	
6,566.00	90.54	4.380	3,655.69	2,703.92	1,929.48	3,270.07	1.97	1.35	1.43	
6,626.00	91.18	5.650	3,654.79	2,763.68	1,934.73	3,326.31	2.37	1.07	2.12	
6,687.00	90.67	2.150	3,653.81	2,824.52	1,938.88	3,383.05	5.80	-0.84	-5.74	
6,747.00	92.05	2.060	3,652.38	2,884.46	1,941.08	3,438.15	2.30	2.30	-0.15	
6,808.00	90.07	1.900	3,651.25	2,945.41	1,943.19	3,494.11	3.26	-3.25	-0.26	
6,868.00	90.30	3.080	3,651.06	3,005.36	1,945.79	3,549.38	2.00	0.38	1.97	
6,928.00	90.07	2.720	3,650.87	3,065.28	1,948.83	3,604.82	0.71	-0.38	-0.60	
6,988.00	90.54	2.290	3,650.55	3,125.22	1,951.45	3,660.09	1.06	0.78	-0.72	
7,048.00	89.83	359.740	3,650.35	3,185.21	1,952.51	3,714.74	4.41	-1.18	-4.25	
7,108.00	90.97	358.850	3,649.94	3,245.20	1,951.78	3,768.62	2.41	1.90	-1.48	
7,208.00	90.97	358.850	3,648.24	3,345.16	1,949.77	3,858.07	0.00	0.00	0.00	

Checked By: _____ Approved By: _____ Date: _____



Survey Certification

7327 West Barton Road
Casper, WY 82604
(307)-472-6621

Operator	Coleman Oil & Gas
Well Name & No.	Carson 32-5-28 1 Pilot
API #	30-039-31436
County & State	Rio Arriba County, NM
SDI Job #	OP.046010
Rig	Aztec 1099
Survey Date	9/6/2024 to 9/9/2024
GL & KB Elevation	GL 6951 & KB 17' = 6968'

I, Janie Collins, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 382 feet to a measured depth of 4,445 feet is true and correct as determined from all available records.

A handwritten signature in blue ink, appearing to read 'Janie Collins', written over a horizontal line.

Signature

23-Sep-2024

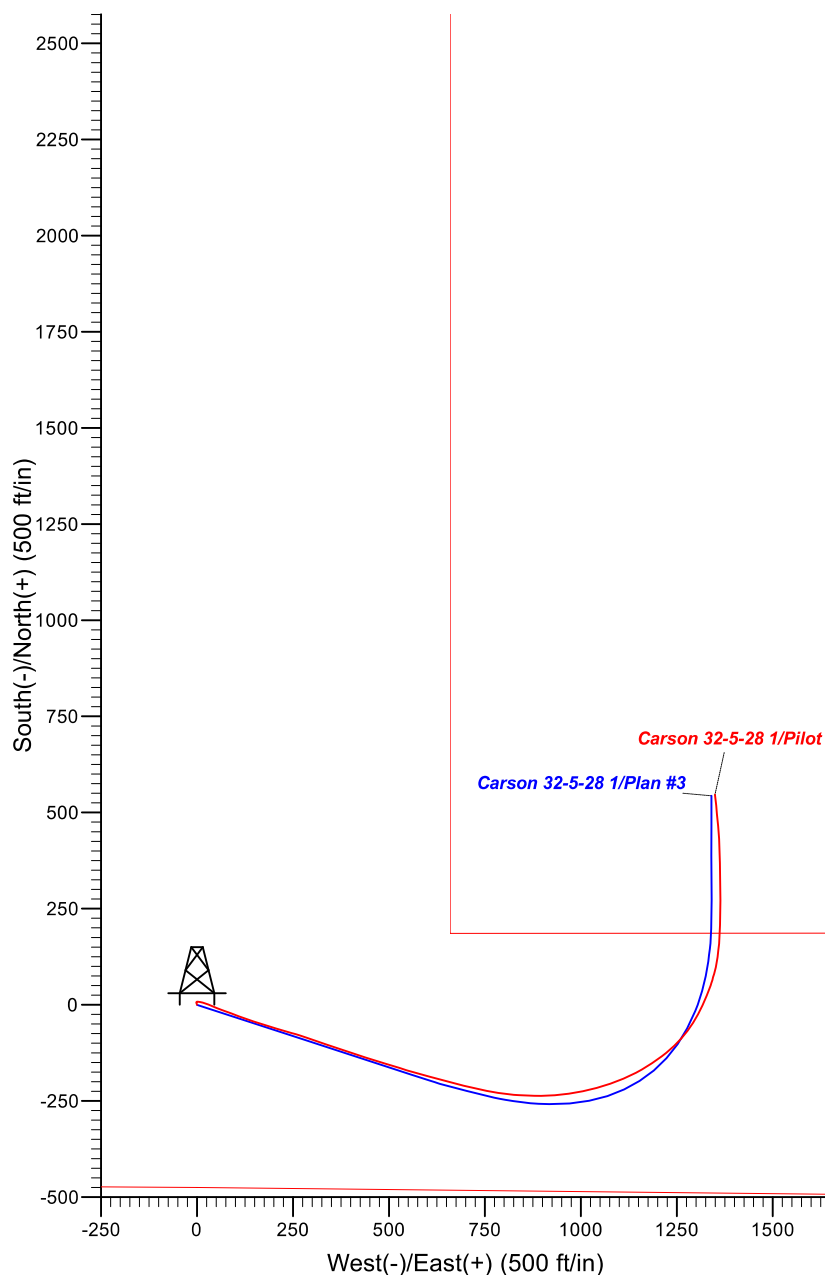
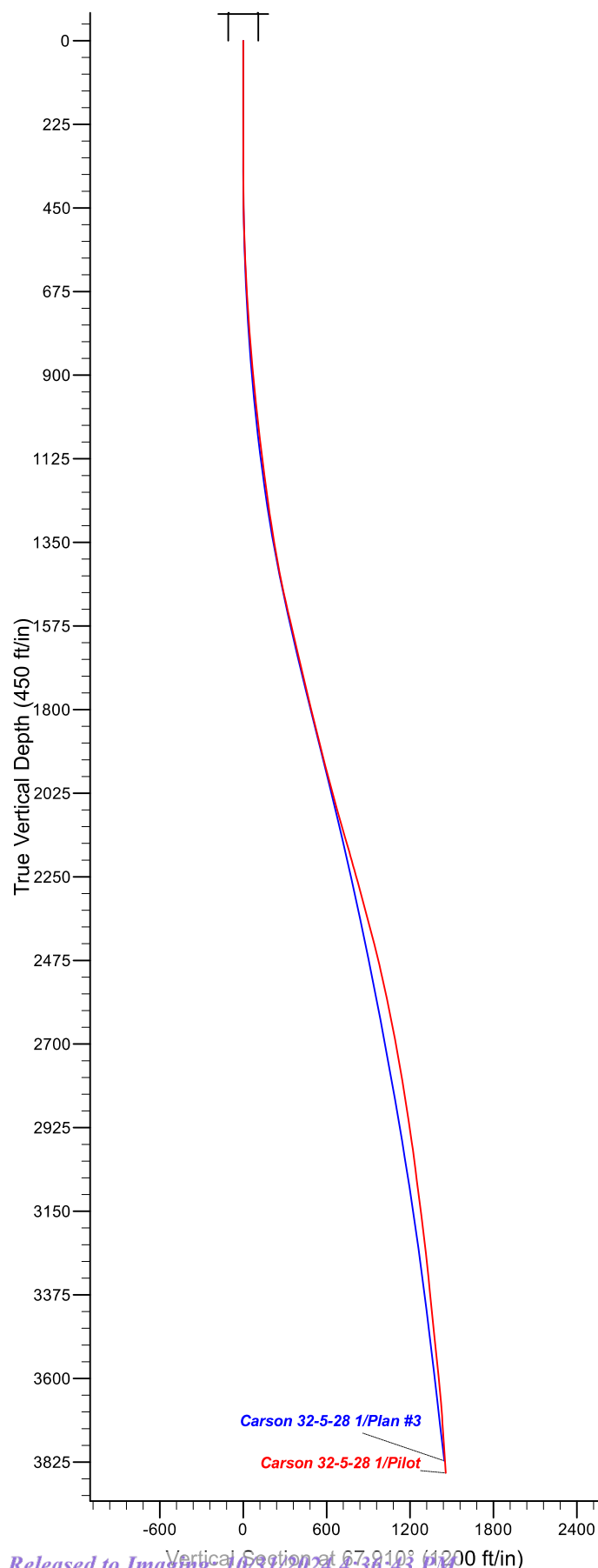
Date

Janie Collins

Rockies Region Well Planner
Scientific Drilling - Rocky Mountain District



Company: Coleman Oil & Gas Inc.
Project: Rio Arriba County, NM
Site: Carson 32-5-28 Pad
Well: Carson 32-5-28 1
Wellbore: Pilot
Design: Pilot

**Well Details: Carson 32-5-28 1**

		TVD Reference: GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)		Slot	
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	2165314.45	1313788.80	36.9453467	-107.3677567

PROJECT DETAILS: Rio Arriba County, NM

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Central Zone

System Datum: Mean Sea Level

Plan: Pilot

15:02, September 23 2024
Created By: Janie Collins



Coleman Oil & Gas Inc.

Rio Arriba County, NM

Carson 32-5-28 Pad

Carson 32-5-28 1

Pilot

Design: Pilot

Standard Survey Report

23 September, 2024



Scientific Drilling

www.scientificdrilling.com



Scientific Drilling

Survey Report



Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-28 1
Project:	Rio Arriba County, NM	TVD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Site:	Carson 32-5-28 Pad	MD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Well:	Carson 32-5-28 1	North Reference:	True
Wellbore:	Pilot	Survey Calculation Method:	Minimum Curvature
Design:	Pilot	Database:	Grand Junction

Project	Rio Arriba County, NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site	Carson 32-5-28 Pad		
Site Position:		Northing:	2,165,314.45 usft
From:	Lat/Long	Easting:	1,313,788.80 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.20 in
		Latitude:	36.9453467
		Longitude:	-107.3677568
		Grid Convergence:	-0.67 °

Well	Carson 32-5-28 1		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	0.00 ft
		Latitude:	36.9453467
		Longitude:	-107.3677568
		Ground Level:	6,951.00 ft

Wellbore	Pilot		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM2024	9/5/2024	8.42
			Dip Angle (°)
			63.30
			Field Strength (nT)
			49,321.10000000

Design	Pilot		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)
	0.00	0.00	0.00
			Direction (°)
			67.910

Survey Program	Date	9/9/2024		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
382.00	4,445.00	Survey #1 - MWD Survey (Pilot)	MWD+HDGM	OWSG MWD + HDGM

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
382.00	2.00	346.610	381.92	6.49	-1.54	1.01	0.52	0.52	0.00
442.00	1.97	61.540	441.90	8.00	-0.88	2.19	4.02	-0.05	124.88
503.00	4.36	94.020	502.80	8.33	2.36	5.32	4.75	3.92	53.25
564.00	7.09	101.540	563.49	7.42	8.36	10.53	4.63	4.48	12.33
623.00	10.88	106.280	621.76	5.13	17.27	17.93	6.54	6.42	8.03
684.00	12.93	111.440	681.45	1.02	29.15	27.40	3.78	3.36	8.46
744.00	14.11	112.520	739.78	-4.24	42.16	37.47	2.01	1.97	1.80
803.00	15.10	111.460	796.87	-9.80	55.95	48.16	1.74	1.68	-1.80
864.00	17.18	110.380	855.47	-15.85	71.80	60.57	3.45	3.41	-1.77

Scientific Drilling

Survey Report



Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-28 1
Project:	Rio Arriba County, NM	TVD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Site:	Carson 32-5-28 Pad	MD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Well:	Carson 32-5-28 1	North Reference:	True
Wellbore:	Pilot	Survey Calculation Method:	Minimum Curvature
Design:	Pilot	Database:	Grand Junction

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
924.00	18.99	110.500	912.50	-22.35	89.25	74.29	3.02	3.02	0.20
984.00	20.67	110.100	968.94	-29.41	108.34	89.32	2.81	2.80	-0.67
1,044.00	21.56	108.600	1,024.91	-36.57	128.73	105.53	1.74	1.48	-2.50
1,104.00	22.25	107.920	1,080.58	-43.58	149.99	122.59	1.23	1.15	-1.13
1,163.00	23.02	107.940	1,135.04	-50.57	171.59	139.98	1.31	1.31	0.03
1,222.00	24.66	106.990	1,189.00	-57.72	194.34	158.37	2.85	2.78	-1.61
1,283.00	26.26	106.050	1,244.07	-65.17	219.48	178.86	2.71	2.62	-1.54
1,345.00	27.92	106.280	1,299.27	-73.03	246.60	201.03	2.68	2.68	0.37
1,408.00	30.07	108.170	1,354.37	-82.09	275.76	224.64	3.71	3.41	3.00
1,471.00	32.87	109.220	1,408.10	-92.64	306.90	249.53	4.53	4.44	1.67
1,534.00	35.87	108.720	1,460.10	-104.20	340.53	276.35	4.78	4.76	-0.79
1,597.00	38.54	108.720	1,510.27	-116.42	376.61	305.18	4.24	4.24	0.00
1,659.00	39.85	107.600	1,558.32	-128.63	413.84	335.09	2.40	2.11	-1.81
1,722.00	39.86	107.580	1,606.68	-140.83	452.32	366.16	0.03	0.02	-0.03
1,784.00	39.40	107.360	1,654.43	-152.70	490.05	396.65	0.78	-0.74	-0.35
1,847.00	38.48	107.150	1,703.43	-164.45	527.86	427.27	1.48	-1.46	-0.33
1,910.00	38.99	105.650	1,752.58	-175.57	565.67	458.12	1.70	0.81	-2.38
1,973.00	39.53	105.480	1,801.36	-186.27	604.08	489.69	0.87	0.86	-0.27
2,035.00	39.37	104.810	1,849.23	-196.56	642.11	521.05	0.73	-0.26	-1.08
2,097.00	39.72	104.140	1,897.04	-206.43	680.33	552.76	0.89	0.56	-1.08
2,158.00	40.34	103.390	1,943.75	-215.76	718.43	584.56	1.29	1.02	-1.23
2,221.00	40.47	100.870	1,991.73	-224.34	758.35	618.32	2.60	0.21	-4.00
2,283.00	40.80	97.540	2,038.78	-230.79	798.20	652.81	3.54	0.53	-5.37
2,346.00	40.34	93.690	2,086.65	-234.81	838.96	689.07	4.04	-0.73	-6.11
2,408.00	39.59	90.970	2,134.17	-236.43	878.74	725.32	3.07	-1.21	-4.39
2,471.00	38.82	87.720	2,182.99	-235.99	918.55	762.37	3.48	-1.22	-5.16
2,533.00	37.81	82.910	2,231.65	-232.87	956.83	799.02	5.08	-1.63	-7.76
2,596.00	36.59	79.040	2,281.84	-226.91	994.44	836.11	4.19	-1.94	-6.14
2,659.00	35.55	75.320	2,332.76	-218.70	1,030.59	872.70	3.85	-1.65	-5.90
2,720.00	35.73	72.810	2,382.34	-208.94	1,064.77	908.03	2.42	0.30	-4.11
2,783.00	34.22	68.990	2,433.97	-197.15	1,098.88	944.08	4.22	-2.40	-6.06
2,846.00	32.03	63.940	2,486.74	-183.46	1,130.44	978.46	5.59	-3.48	-8.02
2,909.00	30.11	60.100	2,540.70	-168.24	1,159.15	1,010.79	4.38	-3.05	-6.10
2,972.00	29.92	56.600	2,595.26	-151.71	1,185.97	1,041.86	2.80	-0.30	-5.56
3,035.00	29.24	52.880	2,650.05	-133.77	1,211.36	1,072.13	3.11	-1.08	-5.90
3,097.00	27.76	47.630	2,704.54	-114.90	1,234.10	1,100.30	4.69	-2.39	-8.47
3,160.00	26.55	44.160	2,760.60	-94.91	1,254.75	1,126.95	3.16	-1.92	-5.51
3,223.00	26.57	38.980	2,816.96	-73.85	1,273.43	1,152.18	3.68	0.03	-8.22
3,285.00	27.10	33.050	2,872.29	-51.23	1,289.85	1,175.90	4.40	0.85	-9.56
3,348.00	27.57	28.510	2,928.27	-26.39	1,304.64	1,198.95	3.39	0.75	-7.21
3,411.00	26.24	24.620	2,984.45	-0.92	1,317.40	1,220.35	3.50	-2.11	-6.17
3,473.00	25.88	21.870	3,040.15	24.10	1,328.15	1,239.72	2.03	-0.58	-4.44
3,536.00	27.14	19.330	3,096.52	50.42	1,338.03	1,258.78	2.69	2.00	-4.03
3,599.00	29.70	15.830	3,151.93	79.00	1,347.05	1,277.88	4.85	4.06	-5.56

Scientific Drilling

Survey Report



Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-28 1
Project:	Rio Arriba County, NM	TVD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Site:	Carson 32-5-28 Pad	MD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Well:	Carson 32-5-28 1	North Reference:	True
Wellbore:	Pilot	Survey Calculation Method:	Minimum Curvature
Design:	Pilot	Database:	Grand Junction

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,662.00	30.90	9.760	3,206.34	109.97	1,354.05	1,296.01	5.22	1.90	-9.63
3,724.00	32.17	5.840	3,259.19	142.08	1,358.43	1,312.14	3.89	2.05	-6.32
3,787.00	32.85	4.270	3,312.31	175.81	1,361.41	1,327.59	1.72	1.08	-2.49
3,849.00	33.68	1.230	3,364.16	209.77	1,363.03	1,341.86	3.00	1.34	-4.90
3,912.00	35.44	359.900	3,416.04	245.50	1,363.37	1,355.62	3.04	2.79	-2.11
3,974.00	36.57	359.790	3,466.19	281.95	1,363.27	1,369.23	1.83	1.82	-0.18
4,037.00	36.46	359.660	3,516.83	319.43	1,363.09	1,383.16	0.21	-0.17	-0.21
4,100.00	38.18	359.190	3,566.93	357.62	1,362.71	1,397.17	2.77	2.73	-0.75
4,162.00	37.33	358.310	3,615.95	395.58	1,361.88	1,410.67	1.62	-1.37	-1.42
4,225.00	33.13	356.200	3,667.40	431.87	1,360.18	1,422.74	6.94	-6.67	-3.35
4,287.00	31.12	355.130	3,719.90	464.74	1,357.69	1,432.80	3.37	-3.24	-1.73
4,350.00	31.53	354.270	3,773.72	497.35	1,354.67	1,442.26	0.96	0.65	-1.37
4,390.00	31.66	354.090	3,807.79	518.20	1,352.54	1,448.13	0.40	0.33	-0.45
4,445.00	31.66	354.090	3,854.61	546.91	1,349.57	1,456.18	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____



Survey Certification

7327 West Barton Road
Casper, WY 82604
(307)-472-6621

Operator	Coleman Oil & Gas
Well Name & No.	Carson 32-5-28 1 Lateral 2
API #	30-039-31436
County & State	Rio Arriba County, NM
SDI Job #	OP.046135
Rig	Aztec 1099
Survey Date	9/17/2024 to 9/20/2024
GL & KB Elevation	GL 6951 & KB 17' = 6968'

I, Janie Collins, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 4036 feet to a measured depth of 7,994 feet is true and correct as determined from all available records.

A handwritten signature in blue ink, appearing to read 'Janie Collins', written over a horizontal line.

Signature

23-Sep-2024

Date

Janie Collins

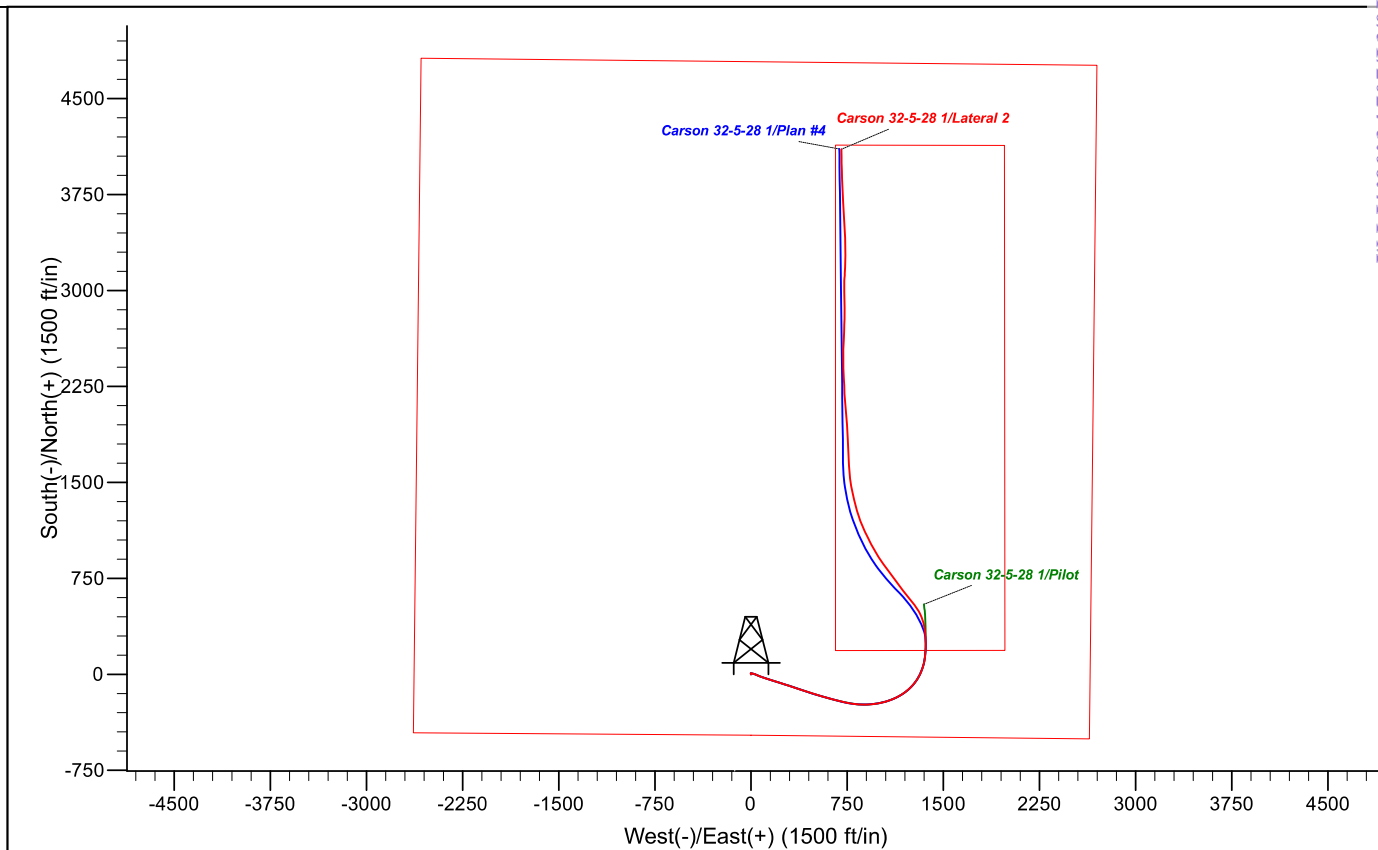
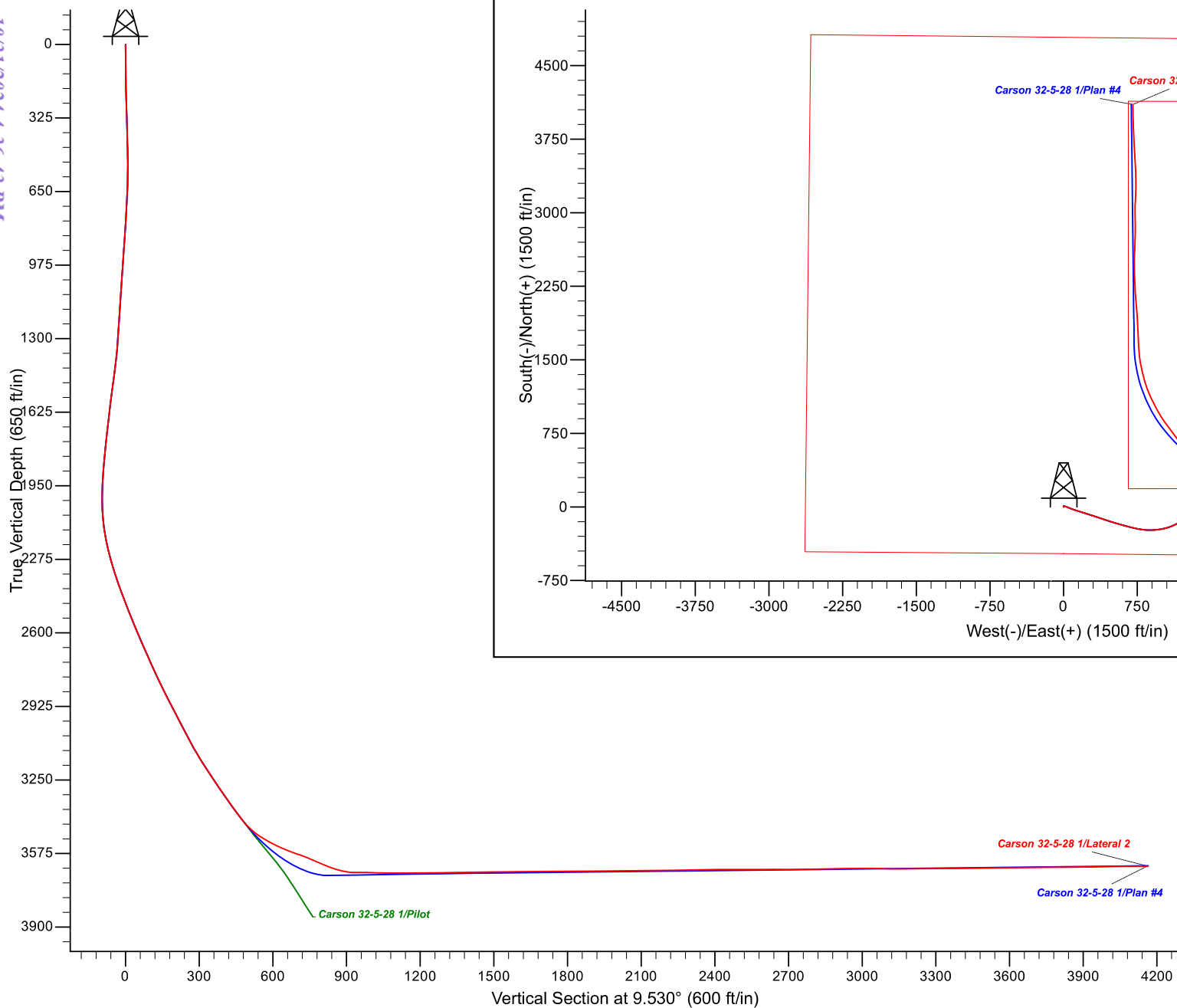
Rockies Region Well Planner
Scientific Drilling - Rocky Mountain District



WELL DETAILS: Carson 32-5-28 1



+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	2165314.45	1313788.80	36.9453467	-107.3677567



Company Name: Coleman Oil & Gas Inc.
 Project: Rio Arriba County, NM
 Site: Carson 32-5-28 Pad
 Well: Carson 32-5-28 1
 Wellbore: Lateral 2

PROJECT DETAILS: Rio Arriba County, NM

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Central Zone

System Datum: Mean Sea Level
 Local North: True

Created By: Janie Collins Date: 15:48, September 23 2024



Coleman Oil & Gas Inc.

Rio Arriba County, NM

Carson 32-5-28 Pad

Carson 32-5-28 1

Lateral 2

Design: Lateral 2

Standard Survey Report

23 September, 2024



Scientific Drilling

www.scientificdrilling.com



Scientific Drilling

Survey Report



Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-28 1
Project:	Rio Arriba County, NM	TVD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Site:	Carson 32-5-28 Pad	MD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Well:	Carson 32-5-28 1	North Reference:	True
Wellbore:	Lateral 2	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 2	Database:	Grand Junction

Project	Rio Arriba County, NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site		Carson 32-5-28 Pad			
Site Position:		Northing:	2,165,314.45 usft	Latitude:	36.9453467
From:	Lat/Long	Easting:	1,313,788.80 usft	Longitude:	-107.3677568
Position Uncertainty:	0.00 ft	Slot Radius:	13.20 in	Grid Convergence:	-0.67 °

Well	Carson 32-5-28 1					
Well Position	+N/-S	0.00 ft	Northing:	2,165,314.45 usft	Latitude:	36.9453467
	+E/-W	0.00 ft	Easting:	1,313,788.80 usft	Longitude:	-107.3677568
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	6,951.00 ft

Wellbore	Lateral 2				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2024	9/18/2024	8.42	63.30	49,316.50000000

Design	Lateral 2				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	3,922.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	9.530	

Survey Program	Date	9/21/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
382.00	3,922.00	Survey #1 - MWD Survey (Pilot)	MWD+HDGM	OWSG MWD + HDGM	
4,036.00	7,994.00	Survey #1 - MWD Survey (Lateral 2)	MWD+HDGM	OWSG MWD + HDGM	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
382.00	2.00	346.610	381.92	6.49	-1.54	6.14	0.52	0.52	0.00	
442.00	1.97	61.540	441.90	8.00	-0.88	7.74	4.02	-0.05	124.88	
503.00	4.36	94.020	502.80	8.33	2.36	8.61	4.75	3.92	53.25	
564.00	7.09	101.540	563.49	7.42	8.36	8.70	4.63	4.48	12.33	
623.00	10.88	106.280	621.76	5.13	17.27	7.92	6.54	6.42	8.03	
684.00	12.93	111.440	681.45	1.02	29.15	5.83	3.78	3.36	8.46	
744.00	14.11	112.520	739.78	-4.24	42.16	2.80	2.01	1.97	1.80	
803.00	15.10	111.460	796.87	-9.80	55.95	-0.40	1.74	1.68	-1.80	
864.00	17.18	110.380	855.47	-15.85	71.80	-3.74	3.45	3.41	-1.77	

Scientific Drilling

Survey Report



Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-28 1
Project:	Rio Arriba County, NM	TVD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Site:	Carson 32-5-28 Pad	MD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Well:	Carson 32-5-28 1	North Reference:	True
Wellbore:	Lateral 2	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 2	Database:	Grand Junction

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
924.00	18.99	110.500	912.50	-22.35	89.25	-7.27	3.02	3.02	0.20
984.00	20.67	110.100	968.94	-29.41	108.34	-11.07	2.81	2.80	-0.67
1,044.00	21.56	108.600	1,024.91	-36.57	128.73	-14.75	1.74	1.48	-2.50
1,104.00	22.25	107.920	1,080.58	-43.58	149.99	-18.15	1.23	1.15	-1.13
1,163.00	23.02	107.940	1,135.04	-50.57	171.59	-21.46	1.31	1.31	0.03
1,222.00	24.66	106.990	1,189.00	-57.72	194.34	-24.75	2.85	2.78	-1.61
1,283.00	26.26	106.050	1,244.07	-65.17	219.48	-27.93	2.71	2.62	-1.54
1,345.00	27.92	106.280	1,299.27	-73.03	246.60	-31.20	2.68	2.68	0.37
1,408.00	30.07	108.170	1,354.37	-82.09	275.76	-35.30	3.71	3.41	3.00
1,471.00	32.87	109.220	1,408.10	-92.64	306.90	-40.55	4.53	4.44	1.67
1,534.00	35.87	108.720	1,460.10	-104.20	340.53	-46.38	4.78	4.76	-0.79
1,597.00	38.54	108.720	1,510.27	-116.42	376.61	-52.46	4.24	4.24	0.00
1,659.00	39.85	107.600	1,558.32	-128.63	413.84	-58.34	2.40	2.11	-1.81
1,722.00	39.86	107.580	1,606.68	-140.83	452.32	-64.00	0.03	0.02	-0.03
1,784.00	39.40	107.360	1,654.43	-152.70	490.05	-69.46	0.78	-0.74	-0.35
1,847.00	38.48	107.150	1,703.43	-164.45	527.86	-74.78	1.48	-1.46	-0.33
1,910.00	38.99	105.650	1,752.58	-175.57	565.67	-79.49	1.70	0.81	-2.38
1,973.00	39.53	105.480	1,801.36	-186.27	604.08	-83.69	0.87	0.86	-0.27
2,035.00	39.37	104.810	1,849.23	-196.56	642.11	-87.54	0.73	-0.26	-1.08
2,097.00	39.72	104.140	1,897.04	-206.43	680.33	-90.94	0.89	0.56	-1.08
2,158.00	40.34	103.390	1,943.75	-215.76	718.43	-93.84	1.29	1.02	-1.23
2,221.00	40.47	100.870	1,991.73	-224.34	758.35	-95.69	2.60	0.21	-4.00
2,283.00	40.80	97.540	2,038.78	-230.79	798.20	-95.46	3.54	0.53	-5.37
2,346.00	40.34	93.690	2,086.65	-234.81	838.96	-92.67	4.04	-0.73	-6.11
2,408.00	39.59	90.970	2,134.17	-236.43	878.74	-87.68	3.07	-1.21	-4.39
2,471.00	38.82	87.720	2,182.99	-235.99	918.55	-80.65	3.48	-1.22	-5.16
2,533.00	37.81	82.910	2,231.65	-232.87	956.83	-71.24	5.08	-1.63	-7.76
2,596.00	36.59	79.040	2,281.84	-226.91	994.44	-59.14	4.19	-1.94	-6.14
2,659.00	35.55	75.320	2,332.76	-218.70	1,030.59	-45.05	3.85	-1.65	-5.90
2,720.00	35.73	72.810	2,382.34	-208.94	1,064.77	-29.77	2.42	0.30	-4.11
2,783.00	34.22	68.990	2,433.97	-197.15	1,098.88	-12.50	4.22	-2.40	-6.06
2,846.00	32.03	63.940	2,486.74	-183.46	1,130.44	6.23	5.59	-3.48	-8.02
2,909.00	30.11	60.100	2,540.70	-168.24	1,159.15	26.00	4.38	-3.05	-6.10
2,972.00	29.92	56.600	2,595.26	-151.71	1,185.97	46.74	2.80	-0.30	-5.56
3,035.00	29.24	52.880	2,650.05	-133.77	1,211.36	68.63	3.11	-1.08	-5.90
3,097.00	27.76	47.630	2,704.54	-114.90	1,234.10	91.01	4.69	-2.39	-8.47
3,160.00	26.55	44.160	2,760.60	-94.91	1,254.75	114.14	3.16	-1.92	-5.51
3,223.00	26.57	38.980	2,816.96	-73.85	1,273.43	138.00	3.68	0.03	-8.22
3,285.00	27.10	33.050	2,872.29	-51.23	1,289.85	163.03	4.40	0.85	-9.56
3,348.00	27.57	28.510	2,928.27	-26.39	1,304.64	189.97	3.39	0.75	-7.21
3,411.00	26.24	24.620	2,984.45	-0.92	1,317.40	217.21	3.50	-2.11	-6.17
3,473.00	25.88	21.870	3,040.15	24.10	1,328.15	243.66	2.03	-0.58	-4.44
3,536.00	27.14	19.330	3,096.52	50.42	1,338.03	271.26	2.69	2.00	-4.03

Scientific Drilling

Survey Report



Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-28 1
Project:	Rio Arriba County, NM	TVD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Site:	Carson 32-5-28 Pad	MD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Well:	Carson 32-5-28 1	North Reference:	True
Wellbore:	Lateral 2	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 2	Database:	Grand Junction

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,599.00	29.70	15.830	3,151.93	79.00	1,347.05	300.94	4.85	4.06	-5.56
3,662.00	30.90	9.760	3,206.34	109.97	1,354.05	332.63	5.22	1.90	-9.63
3,724.00	32.17	5.840	3,259.19	142.08	1,358.43	365.03	3.89	2.05	-6.32
3,787.00	32.85	4.270	3,312.31	175.81	1,361.41	398.78	1.72	1.08	-2.49
3,849.00	33.68	1.230	3,364.16	209.77	1,363.03	432.54	3.00	1.34	-4.90
3,912.00	35.44	359.900	3,416.04	245.50	1,363.37	467.84	3.04	2.79	-2.11
3,922.00	35.62	359.882	3,424.18	251.31	1,363.36	473.57	1.83	1.82	-0.18
4,036.00	56.81	353.310	3,502.65	332.86	1,357.67	553.05	19.03	18.59	-5.76
4,098.00	62.59	347.620	3,533.94	385.59	1,348.73	603.57	12.23	9.32	-9.18
4,160.00	69.55	339.810	3,559.11	439.86	1,332.77	654.45	16.07	11.23	-12.60
4,222.00	74.28	330.530	3,578.39	493.24	1,308.00	702.99	16.14	7.63	-14.97
4,285.00	72.75	320.980	3,596.30	543.12	1,274.07	746.57	14.74	-2.43	-15.16
4,346.00	72.15	321.540	3,614.69	588.49	1,237.67	785.28	1.32	-0.98	0.92
4,409.00	73.88	322.450	3,633.10	635.96	1,200.58	825.96	3.07	2.75	1.44
4,472.00	79.02	323.090	3,647.85	684.71	1,163.54	867.90	8.22	8.16	1.02
4,534.00	84.08	323.580	3,656.96	733.89	1,126.93	910.34	8.20	8.16	0.79
4,575.00	91.07	323.430	3,658.69	766.80	1,102.58	938.76	17.05	17.05	-0.37
4,636.00	88.79	322.670	3,658.77	815.54	1,065.92	980.77	3.94	-3.74	-1.25
4,696.00	89.03	325.060	3,659.91	863.99	1,030.54	1,022.69	4.00	0.40	3.98
4,757.00	89.13	327.360	3,660.89	914.68	996.62	1,067.06	3.77	0.16	3.77
4,816.00	89.63	330.630	3,661.53	965.24	966.24	1,111.89	5.61	0.85	5.54
4,876.00	90.30	331.830	3,661.57	1,017.83	937.36	1,158.97	2.29	1.12	2.00
4,937.00	90.81	334.040	3,660.97	1,072.14	909.61	1,207.94	3.72	0.84	3.62
4,997.00	91.44	335.980	3,659.80	1,126.51	884.27	1,257.37	3.40	1.05	3.23
5,057.00	90.87	337.560	3,658.59	1,181.63	860.61	1,307.81	2.80	-0.95	2.63
5,117.00	90.54	341.470	3,657.85	1,237.83	839.62	1,359.75	6.54	-0.55	6.52
5,179.00	90.84	344.360	3,657.10	1,297.08	821.40	1,415.17	4.69	0.48	4.66
5,238.00	89.97	347.280	3,656.68	1,354.27	806.95	1,469.18	5.16	-1.47	4.95
5,298.00	89.97	347.420	3,656.72	1,412.82	793.81	1,524.74	0.23	0.00	0.23
5,358.00	91.51	350.130	3,655.94	1,471.66	782.14	1,580.84	5.19	2.57	4.52
5,418.00	91.07	352.510	3,654.59	1,530.95	773.08	1,637.82	4.03	-0.73	3.97
5,477.00	90.30	356.830	3,653.88	1,589.68	767.61	1,694.82	7.44	-1.31	7.32
5,538.00	90.44	357.080	3,653.49	1,650.59	764.37	1,754.36	0.47	0.23	0.41
5,597.00	89.93	356.960	3,653.30	1,709.51	761.30	1,811.96	0.89	-0.86	-0.20
5,659.00	90.71	357.610	3,652.95	1,771.44	758.36	1,872.55	1.64	1.26	1.05
5,720.00	90.50	357.360	3,652.31	1,832.37	755.69	1,932.20	0.54	-0.34	-0.41
5,780.00	90.57	356.560	3,651.75	1,892.29	752.50	1,990.76	1.34	0.12	-1.33
5,841.00	90.40	356.420	3,651.23	1,953.17	748.77	2,050.18	0.36	-0.28	-0.23
5,901.00	90.37	355.720	3,650.83	2,013.03	744.66	2,108.53	1.17	-0.05	-1.17
5,961.00	91.11	354.070	3,650.05	2,072.78	739.32	2,166.58	3.01	1.23	-2.75
6,021.00	91.44	354.940	3,648.72	2,132.49	733.57	2,224.51	1.55	0.55	1.45
6,081.00	91.18	358.890	3,647.35	2,192.38	730.35	2,283.04	6.60	-0.43	6.58
6,143.00	90.81	356.580	3,646.27	2,254.31	727.90	2,343.72	3.77	-0.60	-3.73

Scientific Drilling

Survey Report



Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-28 1
Project:	Rio Arriba County, NM	TVD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Site:	Carson 32-5-28 Pad	MD Reference:	GL 6951' & RKB 17' @ 6968.00ft (Aztec 1099)
Well:	Carson 32-5-28 1	North Reference:	True
Wellbore:	Lateral 2	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 2	Database:	Grand Junction

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,203.00	90.44	356.780	3,645.62	2,314.21	724.42	2,402.21	0.70	-0.62	0.33
6,263.00	89.83	358.640	3,645.47	2,374.16	722.03	2,460.93	3.26	-1.02	3.10
6,323.00	89.83	358.210	3,645.65	2,434.14	720.38	2,519.81	0.72	0.00	-0.72
6,383.00	90.27	0.700	3,645.60	2,494.13	719.81	2,578.88	4.21	0.73	4.15
6,443.00	90.54	2.450	3,645.18	2,554.10	721.45	2,638.30	2.95	0.45	2.92
6,504.00	89.43	2.970	3,645.19	2,615.03	724.34	2,698.87	2.01	-1.82	0.85
6,564.00	90.40	1.990	3,645.28	2,674.97	726.93	2,758.41	2.30	1.62	-1.63
6,624.00	92.12	1.550	3,643.96	2,734.93	728.79	2,817.85	2.96	2.87	-0.73
6,684.00	91.75	1.190	3,641.94	2,794.88	730.22	2,877.20	0.86	-0.62	-0.60
6,745.00	91.14	359.260	3,640.40	2,855.85	730.46	2,937.38	3.32	-1.00	-3.16
6,806.00	89.56	358.360	3,640.02	2,916.84	729.19	2,997.31	2.98	-2.59	-1.48
6,866.00	87.75	359.530	3,641.43	2,976.81	728.09	3,056.27	3.59	-3.02	1.95
6,926.00	89.03	0.300	3,643.12	3,036.78	728.00	3,115.40	2.49	2.13	1.28
6,985.00	90.91	2.500	3,643.15	3,095.76	729.44	3,173.80	4.90	3.19	3.73
7,045.00	91.51	4.910	3,641.88	3,155.61	733.32	3,233.48	4.14	1.00	4.02
7,106.00	89.73	0.500	3,641.22	3,216.53	736.19	3,294.02	7.80	-2.92	-7.23
7,166.00	90.74	1.170	3,640.98	3,276.52	737.07	3,353.33	2.02	1.68	1.12
7,226.00	90.74	358.950	3,640.20	3,336.51	737.13	3,412.50	3.70	0.00	-3.70
7,287.00	90.03	356.970	3,639.79	3,397.47	734.96	3,472.26	3.45	-1.16	-3.25
7,348.00	90.91	356.960	3,639.29	3,458.38	731.73	3,531.80	1.44	1.44	-0.02
7,408.00	91.58	356.540	3,637.99	3,518.27	728.33	3,590.30	1.32	1.12	-0.70
7,467.00	90.34	357.220	3,637.00	3,577.17	725.12	3,647.85	2.40	-2.10	1.15
7,528.00	90.37	356.970	3,636.62	3,638.09	722.03	3,707.42	0.41	0.05	-0.41
7,586.00	90.67	357.990	3,636.09	3,696.03	719.48	3,764.14	1.83	0.52	1.76
7,645.00	90.84	358.970	3,635.32	3,755.00	717.91	3,822.04	1.69	0.29	1.66
7,704.00	90.07	355.240	3,634.85	3,813.92	714.93	3,879.65	6.46	-1.31	-6.32
7,764.00	91.28	356.950	3,634.14	3,873.77	710.85	3,938.00	3.49	2.02	2.85
7,827.00	92.15	358.940	3,632.26	3,936.70	708.59	3,999.68	3.45	1.38	3.16
7,889.00	89.70	358.570	3,631.25	3,998.67	707.24	4,060.58	4.00	-3.95	-0.60
7,937.00	90.60	359.840	3,631.13	4,046.66	706.58	4,107.80	3.24	1.88	2.65
7,994.00	90.60	359.840	3,630.53	4,103.66	706.42	4,163.98	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

ACKNOWLEDGMENTS

Action 398012

ACKNOWLEDGMENTS

Operator: COLEMAN OIL & GAS INC P.O. Drawer 3337 Farmington, NM 87499	OGRID: 4838
	Action Number: 398012
	Action Type: [C-104] Completion Packet - Test Allowable (C-104RT)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.
☒	I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

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CONDITIONS

Action 398012

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
smcgrath	RT C-104 Expires 90 days from ready date for a Horizontal well.	10/31/2024