

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 32-5-21 1H	Property Code: 329781
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	API Number: 30-039-31399
Pool Name: Basin Fruitland Coal	Pool Code: 71629

Section 2 – Surface Location

UL K	Section 28	Township 32N	Range 5W	Lot	Ft. from N/S 2475 FSL	Ft. from E/W 1714 FWL	Latitude 36.9508367	Longitude -107.3709071	County Rio Arriba
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Section 3 – Completion Information

Producing Method Flowing	Ready Date 11/14/2025	Perforations MD 5727-9263, 5688-9310	Perforations TVD 3810-3780, 3804-3777
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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: 528808	Unit: ☐ Yes ☒ No, Order No.
Intermediate 1 Casing Action ID: 528808	Compulsory Pooling: ☐ Yes ☒ No, Order No.
Intermediate 2 Casing Action ID:	Down Hole Commingling: ☐ Yes ☒ No, Order No.
Production Casing Action ID: 528808	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 11/21/2025

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	Pool Code	Pool Name
Property Code	Property Name CARSON 32-5-21	Well Number 1H
OGRID No.	Operator Name COLEMAN OIL & GAS, INC.	Ground Level Elevation 7174.2
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
K	28	32 N	5 W		2475 FSL	1714 FWL	36.9508367° N	107.3709071° W	RIO ARRIBA

Pilot Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	21	32 N	5 W		1099 FSL	1705 FWL	36.9615569° N	107.3709493° W	RIO ARRIBA

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			

Pilot Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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Pilot First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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Pilot Last Take Point (LTP)

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

Nolan Redmond 11/24/2025

Signature Date

Nolan Redmond

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. I further certify that United Field Services, Inc., located at 21 Road 3520 in Flora Vista, New Mexico is the company providing this information.



Signature and Seal of Professional Surveyor

14831

9/30/25

11/21/2025

Certificate Number

Date of Field Survey

Date of Certification

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
		Submittal Type:
		☐ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
Property Code	Property Name CARSON 32-5-21	Well Number 1H
OGRID No.	Operator Name COLEMAN OIL & GAS, INC.	Ground Level Elevation 7174.2
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
K	28	32 N	5 W		2475 FSL	1714 FWL	36.9508367° N	107.3709071° W	RIO ARRIBA

Lateral #1 Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	21	32 N	5 W		711 FNL	1910 FWL	36.9710577° N	107.3702767° W	RIO ARRIBA

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	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	21	32 N	5 W		747 FSL	1718 FWL	36.9605905° N	107.3709034° 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
N	21	32 N	5 W		997 FSL	1753 FWL	36.9612783° N	107.3707849° W	RIO ARRIBA

Lateral #1 Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	21	32 N	5 W		711 FNL	1910 FWL	36.9710577° N	107.3702767° W	RIO ARRIBA

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.

Nolan Redmond 11/24/2025

Signature Date

Nolan Redmond

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. I further certify that United Field Services, Inc., located at 21 Road 3520 in Flora Vista, New Mexico is the company providing this information.



Signature and Seal of Professional Surveyor

14831

9/30/25

11/21/2025

Certificate Number

Date of Field Survey

Date of Certification

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
		Submittal Type:
		☐ Initial Submittal ☐ Amended Report ☒ As Drilled

WELL LOCATION INFORMATION

API Number 30-039-31399	Pool Code 71629	Pool Name BASIN FRUITLAND COAL (GAS)
Property Code 329781	Property Name CARSON 32-5-21	Well Number 1H
OGRID No. 4838	Operator Name COLEMAN OIL & GAS, INC.	Ground Level Elevation 7174.2
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
K	28	32 N	5 W		2475 FSL	1714 FWL	36.9508367° N	107.3709071° W	RIO ARRIBA

Lateral #2 Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	21	32 N	5 W		690 FNL	1363 FWL	36.9711145° N	107.3721504° W	RIO ARRIBA

Dedicated Acres 320.00	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code N/A
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
N	21	32 N	5 W		713 FSL	1718 FWL	36.9604978° N	107.3709023° 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
N	21	32 N	5 W		1070 FSL	1648 FWL	36.9614771° N	107.3711449° 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
C	21	32 N	5 W		690 FNL	1363 FWL	36.9711145° N	107.3721504° W	RIO ARRIBA

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 Date
 Nolan Redmond
 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. I further certify that United Field Services, Inc., located at 21 Road 3520 in Flora Vista, New Mexico is the company providing this information.


 Signature and Seal of Professional Surveyor
 Certificate Number **14831** Date of Field Survey **9/30/25** Date of Certification **11/21/2025**

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

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with 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.

United Field Services, Inc., located at 21 Road 3520, Flora Vista, New Mexico, is the company providing this plat.

Plat Revised: 11/14/25

UFSI PROJECT NO. 10522

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 10/29/25

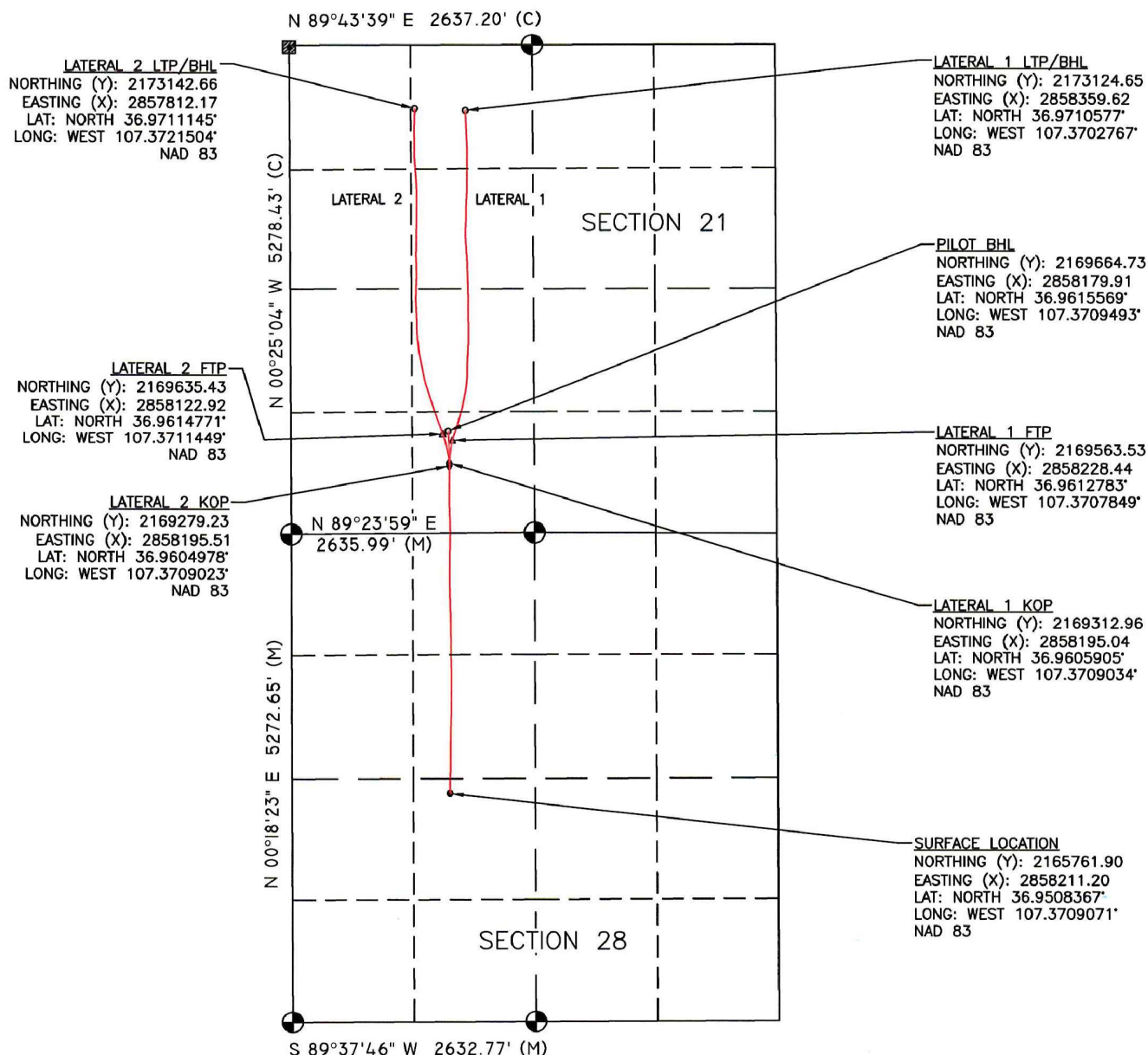
COLEMAN OIL & GAS, INC.			
CARSON 32-5-21 1H LATERAL 1			
FOOTAGES			SEC
SHL	2475' FSL	1714' FWL	28
KOP	747' FSL	1718' FWL	21
FTP	997' FSL	1753' FWL	21
LTP/BHL	711' FNL	1910' FWL	21

COLEMAN OIL & GAS, INC.			
CARSON 32-5-21 1H LATERAL 2			
FOOTAGES			SEC
SHL	2475' FSL	1714' FWL	28
KOP	713' FSL	1718' FWL	21
FTP	1070' FSL	1648' FWL	21
LTP/BHL	690' FNL	1363' FWL	21

COLEMAN OIL & GAS, INC.			
CARSON 32-5-21 1H PILOT			
FOOTAGES			SEC
SHL	2475' FSL	1714' FWL	28
BHL	1099' FSL	1705' FWL	21

LEGEND:

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





Survey Certification

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

Operator	Coleman Oil & Gas Inc.
Well Name & No.	Carson 32-5-21 1H Lateral 1
County & State	Rio Arriba County, NM
SDI Job #	OP.050667
Rig	Aztec 920
Survey Date	10/15/2025 to 10/18/2025
GL & KB Elevation	GL 7174' & KB 15' = 7189'

I, Janie Collins, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 5424 feet to a measured depth of 9,280 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

29-Oct-2025

Date

Janie Collins

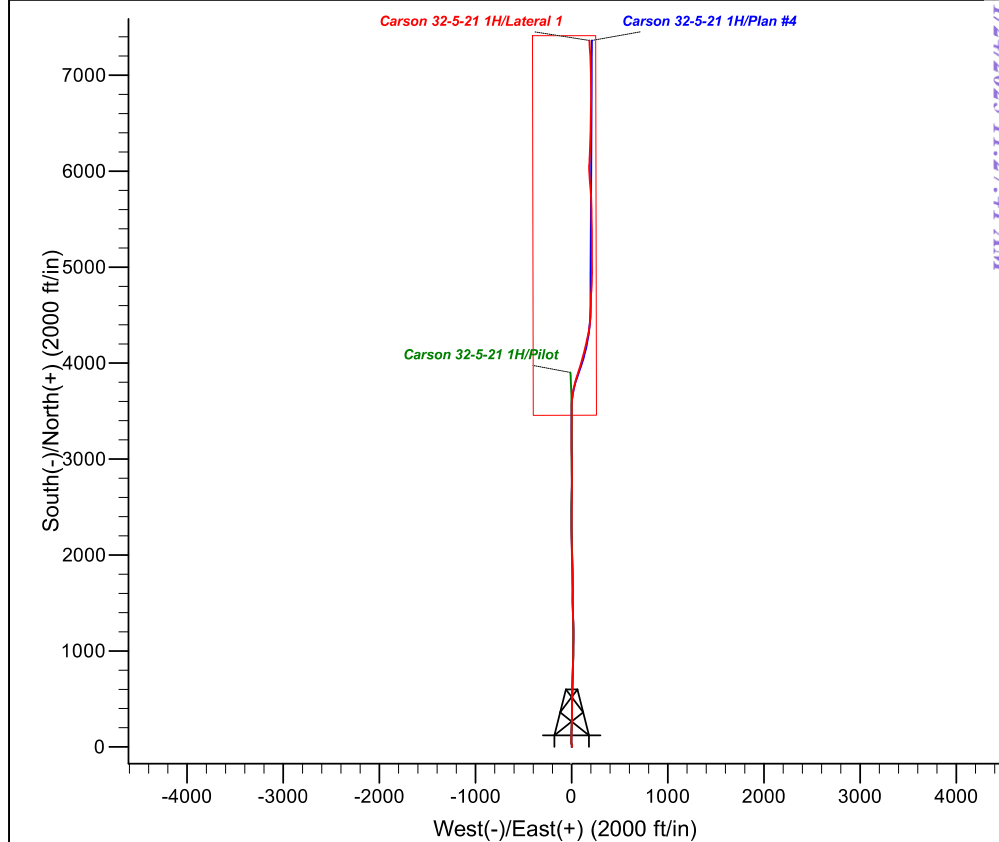
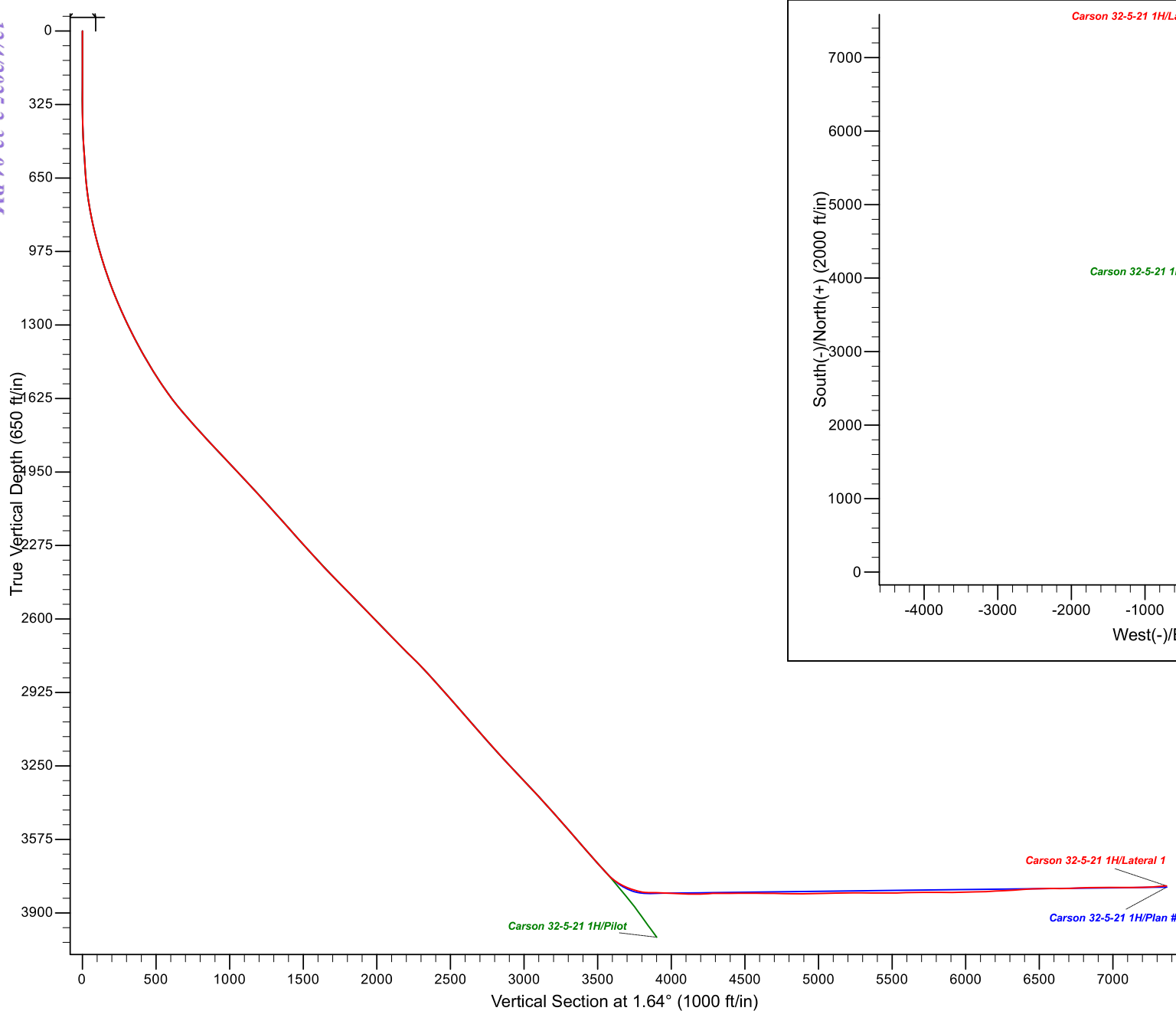
Rockies Region Well Planning Engineer
Scientific Drilling - Rocky Mountain District



WELL DETAILS: Carson 32-5-21 1H



GL 7174' & RKB 15' @ 7189.00ft (Aztec 920) 7174.00
+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 2165761.9003 2858211.1818 36.9508367 -107.3709071



Company Name: Coleman Oil & Gas Inc.
Project: Rio Arriba County, NMW NAD83
Site: Carson 32-5-21 Pad
Well: Carson 32-5-21 1H
Wellbore: Lateral 1

PROJECT DETAILS: Rio Arriba County, NMW NAD83

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

System Datum: Mean Sea Level
Local North: True

Created By: Janie Collins Date: 9:15, October 29 2025



Coleman Oil & Gas Inc.

Rio Arriba County, NMW NAD83

Carson 32-5-21 Pad

Carson 32-5-21 1H

Lateral 1

Design: Lateral 1

Standard Survey Report

29 October, 2025



www.scientificdrilling.com





Scientific Drilling Survey Report



Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-21 1H
Project:	Rio Arriba County, NMW NAD83	TVD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Site:	Carson 32-5-21 Pad	MD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Well:	Carson 32-5-21 1H	North Reference:	True
Wellbore:	Lateral 1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 1	Database:	Grand Junction

Project	Rio Arriba County, NMW NAD83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	Carson 32-5-21 Pad		
Site Position:		Northing:	2,165,761.9003 usft
From:	Lat/Long	Easting:	2,858,211.1818 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	36.9508367
		Longitude:	-107.3709071
		Grid Convergence:	0.28 °

Well	Carson 32-5-21 1H		
Well Position	+N/-S	0.00 ft	Northing: 2,165,761.9003 usft
	+E/-W	0.00 ft	Easting: 2,858,211.1818 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	36.9508367
		Longitude:	-107.3709071
		Ground Level:	7,174.00 ft

Wellbore	Lateral 1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	HDGM2025	10/15/2025	8.32
			Dip Angle
			(°)
			63.27
			Field Strength
			(nT)
			49,202.20000000

Design	Lateral 1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	5,365.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction
			(°)
			1.64

Survey Program	Date	10/19/2025		
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
12.37	247.55	Survey #1 - Surface Gyro (Pilot)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
345.00	734.00	Survey #2 - Gyro MWD (Pilot)	Gyro MWD 105	Gyro MWD Error Model Ver 1.0.5
770.00	5,365.00	Survey #3 - MWD Survey (Pilot)	MWD+HDGM	OWSG MWD + HDGM
5,424.00	9,280.00	Survey #1 - MWD Surveys (Lateral 1)	MWD+HDGM	OWSG MWD + HDGM

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(ft)	(ft)	Section	Rate	Rate	Rate
(ft)			(ft)			(ft)	(°/100ft)	(°/100ft)	(°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12.37	0.18	173.76	12.37	-0.02	0.00	-0.02	1.46	1.46	0.00
20.00	0.24	169.05	20.00	-0.05	0.01	-0.05	0.82	0.79	-61.73
30.00	0.11	194.65	30.00	-0.08	0.01	-0.08	1.49	-1.30	256.00
40.00	0.15	163.36	40.00	-0.10	0.01	-0.10	0.80	0.40	-312.90
50.00	0.14	141.87	50.00	-0.12	0.02	-0.12	0.55	-0.10	-214.90
60.00	0.25	131.60	60.00	-0.14	0.04	-0.14	1.15	1.10	-102.70
70.00	0.27	142.94	70.00	-0.18	0.07	-0.18	0.55	0.20	113.40

Scientific Drilling

Survey Report



Scientific Drilling

Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-21 1H
Project:	Rio Arriba County, NMW NAD83	TVD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Site:	Carson 32-5-21 Pad	MD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Well:	Carson 32-5-21 1H	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 (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
80.00	0.37	124.82	80.00	-0.22	0.12	-0.21	1.41	1.00	-181.20	
90.00	0.39	133.63	90.00	-0.26	0.17	-0.25	0.62	0.20	88.10	
100.00	0.43	109.44	100.00	-0.29	0.23	-0.29	1.76	0.40	-241.90	
110.00	0.55	103.46	110.00	-0.32	0.31	-0.31	1.30	1.20	-59.80	
120.00	0.62	104.90	120.00	-0.34	0.41	-0.33	0.72	0.70	14.40	
130.00	0.69	110.25	130.00	-0.38	0.52	-0.36	0.93	0.70	53.50	
140.00	0.68	111.55	140.00	-0.42	0.63	-0.40	0.18	-0.10	13.00	
150.00	0.65	110.23	150.00	-0.46	0.74	-0.44	0.34	-0.30	-13.20	
160.00	0.72	102.69	160.00	-0.49	0.85	-0.47	1.14	0.70	-75.40	
170.00	0.67	98.16	169.99	-0.52	0.97	-0.49	0.74	-0.50	-45.30	
180.00	0.60	86.64	179.99	-0.52	1.08	-0.49	1.45	-0.70	-115.20	
190.00	0.53	82.55	189.99	-0.51	1.18	-0.48	0.81	-0.70	-40.90	
200.00	0.47	88.05	199.99	-0.51	1.27	-0.47	0.77	-0.60	55.00	
210.00	0.36	93.18	209.99	-0.51	1.34	-0.47	1.16	-1.10	51.30	
220.00	0.31	93.81	219.99	-0.51	1.40	-0.47	0.50	-0.50	6.30	
230.00	0.29	115.56	229.99	-0.52	1.45	-0.48	1.15	-0.20	217.50	
240.00	0.26	116.98	239.99	-0.54	1.49	-0.50	0.31	-0.30	14.20	
247.55	0.23	121.56	247.54	-0.56	1.52	-0.51	0.47	-0.40	60.66	
345.00	0.70	72.33	344.99	-0.48	2.25	-0.42	0.59	0.48	-50.52	
375.00	1.58	44.82	374.98	-0.13	2.72	-0.05	3.37	2.93	-91.70	
435.00	3.52	16.00	434.92	2.23	3.81	2.33	3.78	3.23	-48.03	
495.00	5.45	3.25	494.74	6.84	4.48	6.97	3.60	3.22	-21.25	
555.00	5.54	346.73	554.47	12.51	3.97	12.61	2.63	0.15	-27.53	
615.00	6.16	340.75	614.15	18.36	2.25	18.42	1.45	1.03	-9.97	
674.00	9.15	346.38	672.62	25.91	0.10	25.91	5.22	5.07	9.54	
734.00	11.70	351.83	731.63	36.57	-1.89	36.51	4.55	4.25	9.08	
770.00	13.80	357.49	766.74	44.48	-2.60	44.39	6.78	5.83	15.72	
830.00	17.78	359.29	824.46	60.79	-3.02	60.68	6.68	6.63	3.00	
890.00	20.22	1.84	881.19	80.32	-2.80	80.21	4.29	4.07	4.25	
948.00	22.06	1.00	935.29	101.23	-2.29	101.12	3.22	3.17	-1.45	
1,007.00	23.73	359.91	989.64	124.18	-2.12	124.07	2.92	2.83	-1.85	
1,067.00	26.28	1.06	1,044.01	149.54	-1.89	149.42	4.33	4.25	1.92	
1,127.00	28.85	2.58	1,097.19	177.29	-0.99	177.18	4.44	4.28	2.53	
1,187.00	31.06	3.27	1,149.18	207.20	0.54	207.13	3.73	3.68	1.15	
1,247.00	33.12	3.10	1,200.01	239.03	2.31	239.00	3.44	3.43	-0.28	
1,306.00	34.76	1.06	1,248.95	271.94	3.49	271.93	3.38	2.78	-3.46	
1,365.00	36.18	0.27	1,297.00	306.17	3.89	306.16	2.53	2.41	-1.34	
1,426.00	38.10	0.62	1,345.63	343.00	4.18	342.98	3.17	3.15	0.57	
1,487.00	39.87	0.61	1,393.04	381.37	4.59	381.35	2.90	2.90	-0.02	
1,546.00	41.07	0.52	1,437.93	419.67	4.97	419.64	2.04	2.03	-0.15	
1,609.00	43.10	0.23	1,484.68	461.89	5.24	461.85	3.24	3.22	-0.46	
1,671.00	44.67	0.68	1,529.36	504.86	5.58	504.82	2.58	2.53	0.73	
1,734.00	46.19	1.27	1,573.57	549.74	6.35	549.69	2.50	2.41	0.94	

Scientific Drilling

Survey Report



Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-21 1H
Project:	Rio Arriba County, NMW NAD83	TVD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Site:	Carson 32-5-21 Pad	MD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Well:	Carson 32-5-21 1H	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 (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,796.00	48.38	1.23	1,615.63	595.28	7.34	595.24	3.53	3.53	-0.06
1,859.00	50.74	1.57	1,656.49	643.21	8.52	643.19	3.77	3.75	0.54
1,922.00	53.26	1.71	1,695.28	692.83	9.94	692.83	4.00	4.00	0.22
1,984.00	54.13	1.79	1,731.98	742.77	11.47	742.79	1.41	1.40	0.13
2,047.00	53.63	1.96	1,769.12	793.63	13.13	793.68	0.82	-0.79	0.27
2,109.00	55.32	1.54	1,805.15	844.06	14.67	844.14	2.78	2.73	-0.68
2,172.00	55.77	0.75	1,840.79	896.00	15.71	896.08	1.26	0.71	-1.25
2,235.00	55.42	0.54	1,876.39	947.98	16.29	948.05	0.62	-0.56	-0.33
2,297.00	54.66	0.63	1,911.91	998.79	16.81	998.86	1.23	-1.23	0.15
2,360.00	55.59	0.91	1,947.93	1,050.47	17.51	1,050.54	1.52	1.48	0.44
2,423.00	55.22	0.35	1,983.70	1,102.32	18.08	1,102.39	0.94	-0.59	-0.89
2,485.00	54.44	359.78	2,019.42	1,153.00	18.13	1,153.05	1.47	-1.26	-0.92
2,548.00	54.14	359.69	2,056.19	1,204.16	17.90	1,204.18	0.49	-0.48	-0.14
2,611.00	54.23	359.32	2,093.05	1,255.24	17.46	1,255.23	0.50	0.14	-0.59
2,674.00	54.03	358.97	2,129.97	1,306.29	16.70	1,306.23	0.55	-0.32	-0.56
2,737.00	54.46	358.68	2,166.78	1,357.40	15.65	1,357.30	0.78	0.68	-0.46
2,800.00	53.64	358.54	2,203.77	1,408.39	14.41	1,408.22	1.31	-1.30	-0.22
2,863.00	54.00	358.33	2,240.96	1,459.22	13.02	1,459.00	0.63	0.57	-0.33
2,925.00	54.07	358.95	2,277.37	1,509.39	11.83	1,509.11	0.82	0.11	1.00
2,988.00	54.90	0.48	2,313.97	1,560.66	11.58	1,560.36	2.38	1.32	2.43
3,050.00	53.80	0.16	2,350.10	1,611.04	11.86	1,610.72	1.82	-1.77	-0.52
3,113.00	56.27	0.04	2,386.20	1,662.67	11.95	1,662.33	3.92	3.92	-0.19
3,176.00	56.72	359.67	2,420.98	1,715.20	11.82	1,714.83	0.87	0.71	-0.59
3,238.00	55.97	358.75	2,455.34	1,766.80	11.11	1,766.40	1.73	-1.21	-1.48
3,300.00	56.25	358.52	2,489.91	1,818.25	9.88	1,817.79	0.55	0.45	-0.37
3,362.00	56.17	358.53	2,524.39	1,869.76	8.55	1,869.24	0.13	-0.13	0.02
3,425.00	56.25	358.47	2,559.43	1,922.10	7.18	1,921.52	0.15	0.13	-0.10
3,488.00	56.51	358.36	2,594.31	1,974.55	5.73	1,973.90	0.44	0.41	-0.17
3,550.00	56.38	358.18	2,628.58	2,026.19	4.17	2,025.48	0.32	-0.21	-0.29
3,613.00	55.63	357.71	2,663.81	2,078.39	2.30	2,077.60	1.34	-1.19	-0.75
3,676.00	56.50	358.19	2,698.98	2,130.62	0.43	2,129.76	1.52	1.38	0.76
3,738.00	56.77	359.84	2,733.08	2,182.39	-0.46	2,181.49	2.26	0.44	2.66
3,801.00	58.15	359.73	2,766.96	2,235.50	-0.66	2,234.57	2.20	2.19	-0.17
3,864.00	55.97	359.69	2,801.22	2,288.37	-0.92	2,287.41	3.46	-3.46	-0.06
3,926.00	54.29	0.41	2,836.66	2,339.24	-0.88	2,338.25	2.87	-2.71	1.16
3,989.00	54.49	0.20	2,873.35	2,390.45	-0.61	2,389.46	0.42	0.32	-0.33
4,051.00	54.38	0.45	2,909.41	2,440.89	-0.32	2,439.88	0.37	-0.18	0.40
4,114.00	53.41	0.35	2,946.53	2,491.79	0.03	2,490.77	1.55	-1.54	-0.16
4,177.00	52.89	0.46	2,984.31	2,542.20	0.39	2,541.17	0.84	-0.83	0.17
4,239.00	53.07	0.75	3,021.64	2,591.70	0.91	2,590.66	0.47	0.29	0.47
4,302.00	53.88	1.32	3,059.14	2,642.31	1.83	2,641.28	1.48	1.29	0.90
4,365.00	53.59	1.72	3,096.40	2,693.09	3.17	2,692.08	0.69	-0.46	0.63
4,428.00	52.55	1.96	3,134.26	2,743.43	4.79	2,742.44	1.68	-1.65	0.38
4,521.00	54.54	359.40	3,189.52	2,818.21	5.66	2,817.22	3.08	2.14	-2.75

Scientific Drilling

Survey Report



Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-21 1H
Project:	Rio Arriba County, NMW NAD83	TVD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Site:	Carson 32-5-21 Pad	MD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Well:	Carson 32-5-21 1H	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 (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,553.00	54.93	359.24	3,208.00	2,844.33	5.35	2,843.32	1.29	1.22	-0.50
4,615.00	55.75	359.09	3,243.25	2,895.33	4.60	2,894.27	1.34	1.32	-0.24
4,678.00	55.15	358.88	3,278.98	2,947.21	3.68	2,946.11	0.99	-0.95	-0.33
4,740.00	55.16	358.63	3,314.41	2,998.08	2.58	2,996.92	0.33	0.02	-0.40
4,802.00	55.40	358.14	3,349.72	3,049.02	1.14	3,047.80	0.76	0.39	-0.79
4,865.00	55.06	358.58	3,385.65	3,100.75	-0.34	3,099.47	0.79	-0.54	0.70
4,927.00	54.42	359.43	3,421.44	3,151.36	-1.22	3,150.04	1.52	-1.03	1.37
4,989.00	53.64	0.37	3,457.86	3,201.54	-1.31	3,200.19	1.76	-1.26	1.52
5,052.00	53.61	1.55	3,495.22	3,252.26	-0.46	3,250.91	1.51	-0.05	1.87
5,114.00	53.09	1.23	3,532.23	3,301.99	0.75	3,300.65	0.94	-0.84	-0.52
5,177.00	52.78	0.56	3,570.20	3,352.25	1.53	3,350.92	0.98	-0.49	-1.06
5,240.00	53.05	0.02	3,608.19	3,402.51	1.79	3,401.16	0.81	0.43	-0.86
5,302.00	54.21	359.84	3,644.96	3,452.43	1.72	3,451.06	1.89	1.87	-0.29
5,365.00	54.38	359.63	3,681.72	3,503.59	1.49	3,502.19	0.38	0.27	-0.33
5,424.00	52.92	359.40	3,716.69	3,551.10	1.09	3,549.68	2.49	-2.47	-0.39
5,552.00	71.50	9.08	3,776.22	3,663.28	10.23	3,662.07	15.96	14.52	7.56
5,614.00	76.76	11.53	3,793.17	3,721.93	20.91	3,721.00	9.30	8.48	3.95
5,676.00	81.75	12.30	3,804.73	3,781.51	33.48	3,780.92	8.14	8.05	1.24
5,739.00	87.98	16.38	3,810.37	3,842.25	49.02	3,842.08	11.80	9.89	6.48
5,772.00	90.77	18.41	3,810.73	3,873.74	58.89	3,873.84	10.46	8.45	6.15
5,832.00	88.22	17.74	3,811.25	3,930.77	77.50	3,931.38	4.39	-4.25	-1.12
5,892.00	87.92	17.27	3,813.27	3,987.96	95.54	3,989.06	0.93	-0.50	-0.78
5,952.00	88.15	15.76	3,815.33	4,045.45	112.58	4,047.01	2.54	0.38	-2.52
6,011.00	89.46	14.13	3,816.56	4,102.44	127.79	4,104.41	3.54	2.22	-2.76
6,071.00	90.03	12.15	3,816.83	4,160.86	141.43	4,163.21	3.43	0.95	-3.30
6,132.00	92.42	13.19	3,815.53	4,220.36	154.81	4,223.06	4.27	3.92	1.70
6,191.00	90.57	12.37	3,813.99	4,277.87	167.85	4,280.93	3.43	-3.14	-1.39
6,251.00	89.97	9.65	3,813.70	4,336.76	179.31	4,340.12	4.64	-1.00	-4.53
6,310.00	90.40	8.12	3,813.51	4,395.05	188.42	4,398.64	2.69	0.73	-2.59
6,369.00	90.34	3.88	3,813.13	4,453.71	194.59	4,457.46	7.19	-0.10	-7.19
6,428.00	90.13	1.65	3,812.89	4,512.64	197.43	4,516.44	3.80	-0.36	-3.78
6,488.00	89.80	0.84	3,812.93	4,572.63	198.74	4,576.44	1.46	-0.55	-1.35
6,548.00	89.29	1.41	3,813.40	4,632.61	199.92	4,636.44	1.27	-0.85	0.95
6,608.00	89.60	2.78	3,813.98	4,692.57	202.11	4,696.43	2.34	0.52	2.28
6,668.00	89.26	3.84	3,814.58	4,752.46	205.57	4,756.40	1.86	-0.57	1.77
6,727.00	89.29	2.56	3,815.33	4,811.37	208.87	4,815.37	2.17	0.05	-2.17
6,788.00	90.71	1.65	3,815.33	4,872.32	211.11	4,876.37	2.76	2.33	-1.49
6,848.00	90.13	0.10	3,814.89	4,932.31	212.02	4,936.36	2.76	-0.97	-2.58
6,908.00	91.24	0.25	3,814.17	4,992.31	212.21	4,996.34	1.87	1.85	0.25
6,967.00	90.91	359.05	3,813.06	5,051.29	211.85	5,055.29	2.11	-0.56	-2.03
7,027.00	90.44	359.33	3,812.36	5,111.28	211.00	5,115.23	0.91	-0.78	0.47
7,087.00	90.70	0.85	3,811.76	5,171.28	211.09	5,175.20	2.57	0.43	2.53
7,147.00	90.64	0.47	3,811.06	5,231.27	211.78	5,235.19	0.64	-0.10	-0.63



Scientific Drilling Survey Report



Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-21 1H
Project:	Rio Arriba County, NMW NAD83	TVD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Site:	Carson 32-5-21 Pad	MD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Well:	Carson 32-5-21 1H	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 (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
7,206.00	89.50	359.27	3,810.99	5,290.27	211.65	5,294.16	2.81	-1.93	-2.03
7,266.00	89.46	358.90	3,811.53	5,350.26	210.69	5,354.10	0.62	-0.07	-0.62
7,326.00	90.24	359.49	3,811.69	5,410.25	209.85	5,414.04	1.63	1.30	0.98
7,386.00	89.87	358.42	3,811.63	5,470.24	208.75	5,473.97	1.89	-0.62	-1.78
7,445.00	90.13	358.71	3,811.63	5,529.22	207.28	5,532.89	0.66	0.44	0.49
7,505.00	91.51	358.91	3,810.77	5,589.20	206.03	5,592.81	2.32	2.30	0.33
7,564.00	90.40	358.44	3,809.79	5,648.18	204.67	5,651.72	2.04	-1.88	-0.80
7,624.00	90.27	358.48	3,809.44	5,708.15	203.05	5,711.63	0.23	-0.22	0.07
7,683.00	89.90	357.07	3,809.35	5,767.11	200.76	5,770.49	2.47	-0.63	-2.39
7,743.00	90.00	354.95	3,809.40	5,826.96	196.59	5,830.20	3.54	0.17	-3.53
7,803.00	90.03	355.31	3,809.39	5,886.74	191.50	5,889.81	0.60	0.05	0.60
7,866.00	90.60	355.75	3,809.04	5,949.55	186.59	5,952.45	1.14	0.90	0.70
7,929.00	91.58	358.32	3,807.84	6,012.45	183.33	6,015.23	4.37	1.56	4.08
7,991.00	90.74	2.79	3,806.59	6,074.42	183.93	6,077.19	7.33	-1.35	7.21
8,054.00	91.04	3.72	3,805.61	6,137.31	187.50	6,140.16	1.55	0.48	1.48
8,116.00	92.65	2.21	3,803.61	6,199.19	190.71	6,202.11	3.56	2.60	-2.44
8,179.00	91.41	0.76	3,801.38	6,262.12	192.34	6,265.06	3.03	-1.97	-2.30
8,241.00	92.76	1.04	3,799.12	6,324.07	193.31	6,327.01	2.22	2.18	0.45
8,304.00	92.65	1.70	3,796.15	6,386.98	194.82	6,389.94	1.06	-0.17	1.05
8,367.00	91.44	3.15	3,793.90	6,449.88	197.48	6,452.89	3.00	-1.92	2.30
8,430.00	91.88	3.52	3,792.08	6,512.75	201.15	6,515.84	0.91	0.70	0.59
8,492.00	88.76	359.60	3,791.73	6,574.71	202.83	6,577.82	8.08	-5.03	-6.32
8,555.00	90.00	359.02	3,792.41	6,637.70	202.07	6,640.76	2.17	1.97	-0.92
8,617.00	92.01	359.76	3,791.33	6,699.68	201.41	6,702.70	3.45	3.24	1.19
8,680.00	91.24	1.65	3,789.54	6,762.65	202.19	6,765.66	3.24	-1.22	3.00
8,742.00	91.08	1.05	3,788.28	6,824.62	203.65	6,827.65	1.00	-0.26	-0.97
8,804.00	89.90	0.21	3,787.75	6,886.61	204.33	6,889.64	2.34	-1.90	-1.35
8,867.00	89.90	358.53	3,787.86	6,949.60	203.64	6,952.59	2.67	0.00	-2.67
8,930.00	90.40	358.37	3,787.70	7,012.58	201.94	7,015.49	0.83	0.79	-0.25
8,992.00	89.36	357.37	3,787.83	7,074.54	199.63	7,077.35	2.33	-1.68	-1.61
9,055.00	90.47	358.12	3,787.92	7,137.49	197.15	7,140.20	2.13	1.76	1.19
9,117.00	91.11	357.32	3,787.07	7,199.43	194.69	7,202.05	1.65	1.03	-1.29
9,180.00	92.65	355.80	3,785.00	7,262.28	190.91	7,264.77	3.43	2.44	-2.41
9,231.00	92.49	356.24	3,782.71	7,313.10	187.37	7,315.47	0.92	-0.31	0.86
9,280.00	92.49	356.24	3,780.58	7,361.95	184.16	7,364.21	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 Inc.
Well Name & No.	Carson 32-5-21 1H Lateral 2
County & State	Rio Arriba County, NM
SDI Job #	OP.050787
Rig	Aztec 920
Survey Date	10/19/2025 to 10/22/2025
GL & KB Elevation	GL 7174' & KB 15' = 7189'

I, Janie Collins, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 5382 feet to a measured depth of 9,321 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

29-Oct-2025

Date

Janie Collins

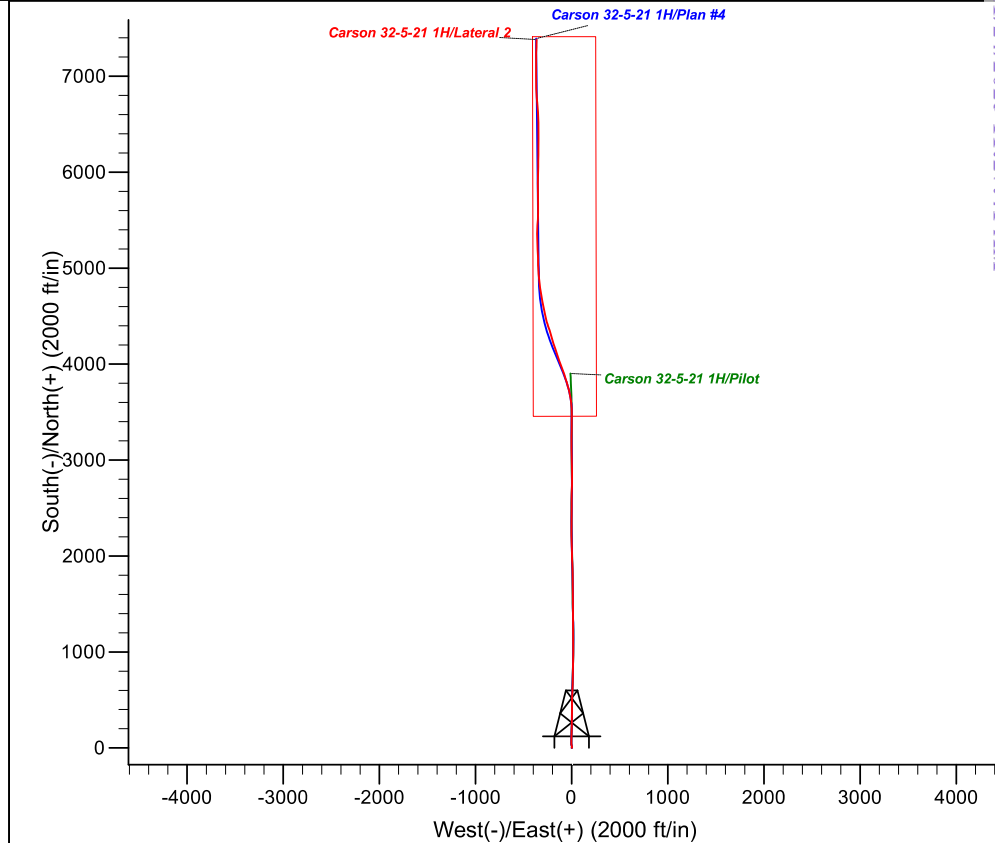
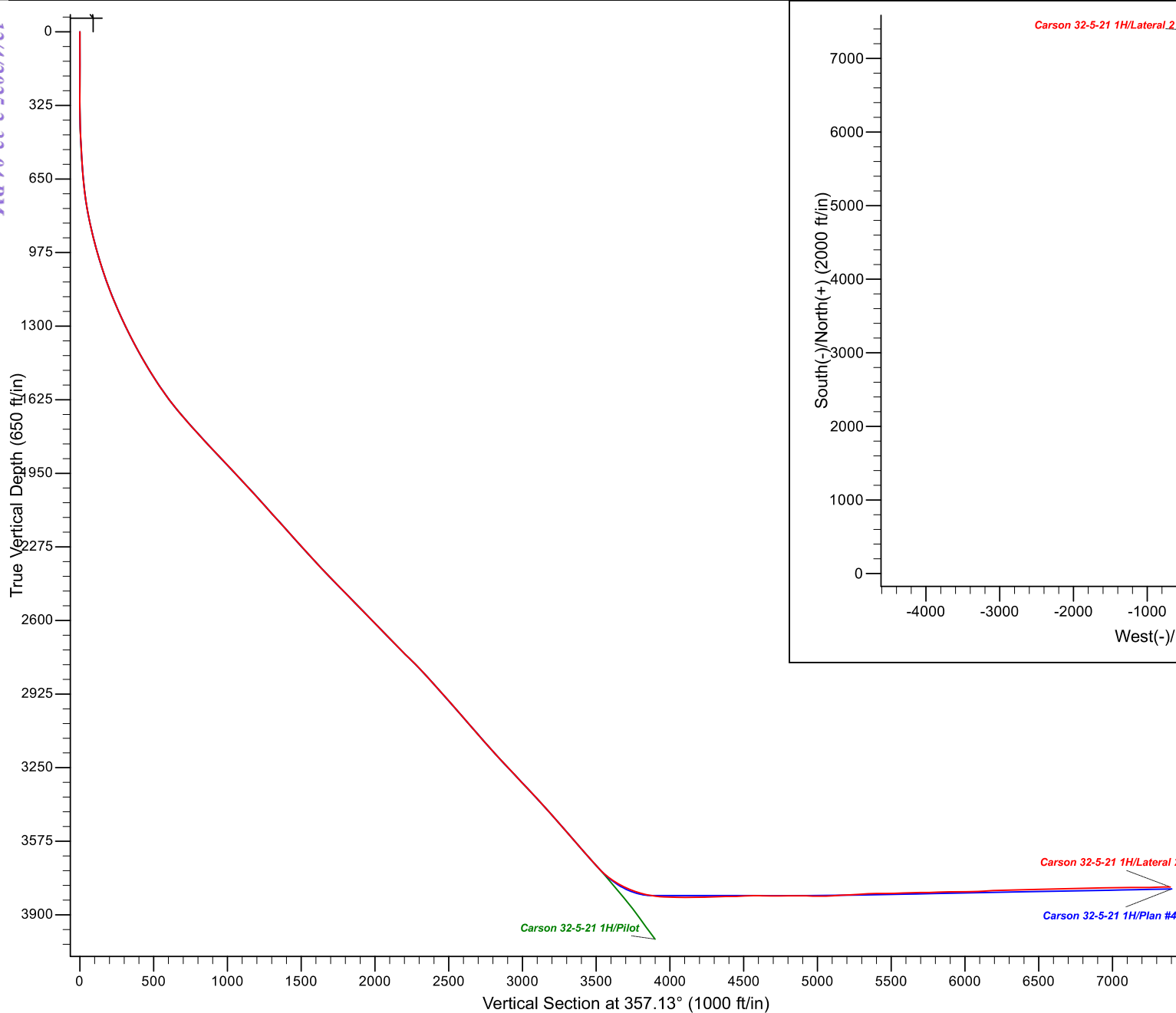
Rockies Region Well Planning Engineer
Scientific Drilling - Rocky Mountain District



WELL DETAILS: Carson 32-5-21 1H



GL 7174' & RKB 15' @ 7189.00ft (Aztec 920) 7174.00
+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 2165761.9003 2858211.1818 36.9508367 -107.3709071



Company Name: Coleman Oil & Gas Inc.
Project: Rio Arriba County, NMW NAD83
Site: Carson 32-5-21 Pad
Well: Carson 32-5-21 1H
Wellbore: Lateral 2

PROJECT DETAILS: Rio Arriba County, NMW NAD83

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

System Datum: Mean Sea Level
Local North: True

Created By: Janie Collins Date: 9:31, October 29 2025



Coleman Oil & Gas Inc.

Rio Arriba County, NMW NAD83

Carson 32-5-21 Pad

Carson 32-5-21 1H

Lateral 2

Design: Lateral 2

Standard Survey Report

29 October, 2025



www.scientificdrilling.com





Scientific Drilling

Survey Report



Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-21 1H
Project:	Rio Arriba County, NMW NAD83	TVD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Site:	Carson 32-5-21 Pad	MD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Well:	Carson 32-5-21 1H	North Reference:	True
Wellbore:	Lateral 2	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 2	Database:	Grand Junction

Project	Rio Arriba County, NMW NAD83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	Carson 32-5-21 Pad				
Site Position:		Northing:	2,165,761.9003 usft	Latitude:	36.9508367
From:	Lat/Long	Easting:	2,858,211.1818 usft	Longitude:	-107.3709071
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.28 °

Well	Carson 32-5-21 1H					
Well Position	+N/-S	0.00 ft	Northing:	2,165,761.9003 usft	Latitude:	36.9508367
	+E/-W	0.00 ft	Easting:	2,858,211.1818 usft	Longitude:	-107.3709071
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	7,174.00 ft

Wellbore	Lateral 2				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2025	10/19/2025	8.32	63.27	49,200.90000000

Design	Lateral 2				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	5,365.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	357.13	

Survey Program	Date	10/22/2025			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
12.37	247.55	Survey #1 - Surface Gyro (Pilot)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
345.00	734.00	Survey #2 - Gyro MWD (Pilot)	Gyro MWD 105	Gyro MWD Error Model Ver 1.0.5	
770.00	5,365.00	Survey #3 - MWD Survey (Pilot)	MWD+HDGM	OWSG MWD + HDGM	
5,382.00	9,321.00	Survey #1 - MWD Surveys (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 (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12.37	0.18	173.76	12.37	-0.02	0.00	-0.02	1.46	1.46	0.00	
20.00	0.24	169.05	20.00	-0.05	0.01	-0.05	0.82	0.79	-61.73	
30.00	0.11	194.65	30.00	-0.08	0.01	-0.08	1.49	-1.30	256.00	
40.00	0.15	163.36	40.00	-0.10	0.01	-0.10	0.80	0.40	-312.90	
50.00	0.14	141.87	50.00	-0.12	0.02	-0.12	0.55	-0.10	-214.90	
60.00	0.25	131.60	60.00	-0.14	0.04	-0.15	1.15	1.10	-102.70	
70.00	0.27	142.94	70.00	-0.18	0.07	-0.18	0.55	0.20	113.40	

Scientific Drilling

Survey Report



Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-21 1H
Project:	Rio Arriba County, NMW NAD83	TVD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Site:	Carson 32-5-21 Pad	MD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Well:	Carson 32-5-21 1H	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 (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
80.00	0.37	124.82	80.00	-0.22	0.12	-0.22	1.41	1.00	-181.20	
90.00	0.39	133.63	90.00	-0.26	0.17	-0.27	0.62	0.20	88.10	
100.00	0.43	109.44	100.00	-0.29	0.23	-0.30	1.76	0.40	-241.90	
110.00	0.55	103.46	110.00	-0.32	0.31	-0.33	1.30	1.20	-59.80	
120.00	0.62	104.90	120.00	-0.34	0.41	-0.36	0.72	0.70	14.40	
130.00	0.69	110.25	130.00	-0.38	0.52	-0.40	0.93	0.70	53.50	
140.00	0.68	111.55	140.00	-0.42	0.63	-0.45	0.18	-0.10	13.00	
150.00	0.65	110.23	150.00	-0.46	0.74	-0.50	0.34	-0.30	-13.20	
160.00	0.72	102.69	160.00	-0.49	0.85	-0.54	1.14	0.70	-75.40	
170.00	0.67	98.16	169.99	-0.52	0.97	-0.56	0.74	-0.50	-45.30	
180.00	0.60	86.64	179.99	-0.52	1.08	-0.58	1.45	-0.70	-115.20	
190.00	0.53	82.55	189.99	-0.51	1.18	-0.57	0.81	-0.70	-40.90	
200.00	0.47	88.05	199.99	-0.51	1.27	-0.57	0.77	-0.60	55.00	
210.00	0.36	93.18	209.99	-0.51	1.34	-0.57	1.16	-1.10	51.30	
220.00	0.31	93.81	219.99	-0.51	1.40	-0.58	0.50	-0.50	6.30	
230.00	0.29	115.56	229.99	-0.52	1.45	-0.59	1.15	-0.20	217.50	
240.00	0.26	116.98	239.99	-0.54	1.49	-0.62	0.31	-0.30	14.20	
247.55	0.23	121.56	247.54	-0.56	1.52	-0.63	0.47	-0.40	60.66	
345.00	0.70	72.33	344.99	-0.48	2.25	-0.59	0.59	0.48	-50.52	
375.00	1.58	44.82	374.98	-0.13	2.72	-0.27	3.37	2.93	-91.70	
435.00	3.52	16.00	434.92	2.23	3.81	2.03	3.78	3.23	-48.03	
495.00	5.45	3.25	494.74	6.84	4.48	6.61	3.60	3.22	-21.25	
555.00	5.54	346.73	554.47	12.51	3.97	12.29	2.63	0.15	-27.53	
615.00	6.16	340.75	614.15	18.36	2.25	18.23	1.45	1.03	-9.97	
674.00	9.15	346.38	672.62	25.91	0.10	25.88	5.22	5.07	9.54	
734.00	11.70	351.83	731.63	36.57	-1.89	36.62	4.55	4.25	9.08	
770.00	13.80	357.49	766.74	44.48	-2.60	44.55	6.78	5.83	15.72	
830.00	17.78	359.29	824.46	60.79	-3.02	60.87	6.68	6.63	3.00	
890.00	20.22	1.84	881.19	80.32	-2.80	80.36	4.29	4.07	4.25	
948.00	22.06	1.00	935.29	101.23	-2.29	101.22	3.22	3.17	-1.45	
1,007.00	23.73	359.91	989.64	124.18	-2.12	124.13	2.92	2.83	-1.85	
1,067.00	26.28	1.06	1,044.01	149.54	-1.89	149.45	4.33	4.25	1.92	
1,127.00	28.85	2.58	1,097.19	177.29	-0.99	177.11	4.44	4.28	2.53	
1,187.00	31.06	3.27	1,149.18	207.20	0.54	206.92	3.73	3.68	1.15	
1,247.00	33.12	3.10	1,200.01	239.03	2.31	238.61	3.44	3.43	-0.28	
1,306.00	34.76	1.06	1,248.95	271.94	3.49	271.43	3.38	2.78	-3.46	
1,365.00	36.18	0.27	1,297.00	306.17	3.89	305.60	2.53	2.41	-1.34	
1,426.00	38.10	0.62	1,345.63	343.00	4.18	342.36	3.17	3.15	0.57	
1,487.00	39.87	0.61	1,393.04	381.37	4.59	380.67	2.90	2.90	-0.02	
1,546.00	41.07	0.52	1,437.93	419.67	4.97	418.89	2.04	2.03	-0.15	
1,609.00	43.10	0.23	1,484.68	461.89	5.24	461.04	3.24	3.22	-0.46	
1,671.00	44.67	0.68	1,529.36	504.86	5.58	503.95	2.58	2.53	0.73	
1,734.00	46.19	1.27	1,573.57	549.74	6.35	548.73	2.50	2.41	0.94	

Scientific Drilling

Survey Report



Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-21 1H
Project:	Rio Arriba County, NMW NAD83	TVD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Site:	Carson 32-5-21 Pad	MD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Well:	Carson 32-5-21 1H	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 (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,796.00	48.38	1.23	1,615.63	595.28	7.34	594.16	3.53	3.53	-0.06
1,859.00	50.74	1.57	1,656.49	643.21	8.52	641.97	3.77	3.75	0.54
1,922.00	53.26	1.71	1,695.28	692.83	9.94	691.46	4.00	4.00	0.22
1,984.00	54.13	1.79	1,731.98	742.77	11.47	741.26	1.41	1.40	0.13
2,047.00	53.63	1.96	1,769.12	793.63	13.13	791.98	0.82	-0.79	0.27
2,109.00	55.32	1.54	1,805.15	844.06	14.67	842.27	2.78	2.73	-0.68
2,172.00	55.77	0.75	1,840.79	896.00	15.71	894.09	1.26	0.71	-1.25
2,235.00	55.42	0.54	1,876.39	947.98	16.29	945.97	0.62	-0.56	-0.33
2,297.00	54.66	0.63	1,911.91	998.79	16.81	996.69	1.23	-1.23	0.15
2,360.00	55.59	0.91	1,947.93	1,050.47	17.51	1,048.27	1.52	1.48	0.44
2,423.00	55.22	0.35	1,983.70	1,102.32	18.08	1,100.03	0.94	-0.59	-0.89
2,485.00	54.44	359.78	2,019.42	1,153.00	18.13	1,150.65	1.47	-1.26	-0.92
2,548.00	54.14	359.69	2,056.19	1,204.16	17.90	1,201.75	0.49	-0.48	-0.14
2,611.00	54.23	359.32	2,093.05	1,255.24	17.46	1,252.79	0.50	0.14	-0.59
2,674.00	54.03	358.97	2,129.97	1,306.29	16.70	1,303.81	0.55	-0.32	-0.56
2,737.00	54.46	358.68	2,166.78	1,357.40	15.65	1,354.92	0.78	0.68	-0.46
2,800.00	53.64	358.54	2,203.77	1,408.39	14.41	1,405.90	1.31	-1.30	-0.22
2,863.00	54.00	358.33	2,240.96	1,459.22	13.02	1,456.74	0.63	0.57	-0.33
2,925.00	54.07	358.95	2,277.37	1,509.39	11.83	1,506.90	0.82	0.11	1.00
2,988.00	54.90	0.48	2,313.97	1,560.66	11.58	1,558.13	2.38	1.32	2.43
3,050.00	53.80	0.16	2,350.10	1,611.04	11.86	1,608.43	1.82	-1.77	-0.52
3,113.00	56.27	0.04	2,386.20	1,662.67	11.95	1,659.98	3.92	3.92	-0.19
3,176.00	56.72	359.67	2,420.98	1,715.20	11.82	1,712.46	0.87	0.71	-0.59
3,238.00	55.97	358.75	2,455.34	1,766.80	11.11	1,764.03	1.73	-1.21	-1.48
3,300.00	56.25	358.52	2,489.91	1,818.25	9.88	1,815.48	0.55	0.45	-0.37
3,362.00	56.17	358.53	2,524.39	1,869.76	8.55	1,866.99	0.13	-0.13	0.02
3,425.00	56.25	358.47	2,559.43	1,922.10	7.18	1,919.33	0.15	0.13	-0.10
3,488.00	56.51	358.36	2,594.31	1,974.55	5.73	1,971.78	0.44	0.41	-0.17
3,550.00	56.38	358.18	2,628.58	2,026.19	4.17	2,023.44	0.32	-0.21	-0.29
3,613.00	55.63	357.71	2,663.81	2,078.39	2.30	2,075.67	1.34	-1.19	-0.75
3,676.00	56.50	358.19	2,698.98	2,130.62	0.43	2,127.93	1.52	1.38	0.76
3,738.00	56.77	359.84	2,733.08	2,182.39	-0.46	2,179.68	2.26	0.44	2.66
3,801.00	58.15	359.73	2,766.96	2,235.50	-0.66	2,232.73	2.20	2.19	-0.17
3,864.00	55.97	359.69	2,801.22	2,288.37	-0.92	2,285.55	3.46	-3.46	-0.06
3,926.00	54.29	0.41	2,836.66	2,339.24	-0.88	2,336.35	2.87	-2.71	1.16
3,989.00	54.49	0.20	2,873.35	2,390.45	-0.61	2,387.49	0.42	0.32	-0.33
4,051.00	54.38	0.45	2,909.41	2,440.89	-0.32	2,437.84	0.37	-0.18	0.40
4,114.00	53.41	0.35	2,946.53	2,491.79	0.03	2,488.66	1.55	-1.54	-0.16
4,177.00	52.89	0.46	2,984.31	2,542.20	0.39	2,538.99	0.84	-0.83	0.17
4,239.00	53.07	0.75	3,021.64	2,591.70	0.91	2,588.40	0.47	0.29	0.47
4,302.00	53.88	1.32	3,059.14	2,642.31	1.83	2,638.91	1.48	1.29	0.90
4,365.00	53.59	1.72	3,096.40	2,693.09	3.17	2,689.56	0.69	-0.46	0.63
4,428.00	52.55	1.96	3,134.26	2,743.43	4.79	2,739.75	1.68	-1.65	0.38
4,521.00	54.54	359.40	3,189.52	2,818.21	5.66	2,814.39	3.08	2.14	-2.75

Scientific Drilling

Survey Report



Scientific Drilling

Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-21 1H
Project:	Rio Arriba County, NMW NAD83	TVD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Site:	Carson 32-5-21 Pad	MD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Well:	Carson 32-5-21 1H	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 (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,553.00	54.93	359.24	3,208.00	2,844.33	5.35	2,840.50	1.29	1.22	-0.50
4,615.00	55.75	359.09	3,243.25	2,895.33	4.60	2,891.46	1.34	1.32	-0.24
4,678.00	55.15	358.88	3,278.98	2,947.21	3.68	2,943.33	0.99	-0.95	-0.33
4,740.00	55.16	358.63	3,314.41	2,998.08	2.58	2,994.19	0.33	0.02	-0.40
4,802.00	55.40	358.14	3,349.72	3,049.02	1.14	3,045.14	0.76	0.39	-0.79
4,865.00	55.06	358.58	3,385.65	3,100.75	-0.34	3,096.88	0.79	-0.54	0.70
4,927.00	54.42	359.43	3,421.44	3,151.36	-1.22	3,147.47	1.52	-1.03	1.37
4,989.00	53.64	0.37	3,457.86	3,201.54	-1.31	3,197.59	1.76	-1.26	1.52
5,052.00	53.61	1.55	3,495.22	3,252.26	-0.46	3,248.20	1.51	-0.05	1.87
5,114.00	53.09	1.23	3,532.23	3,301.99	0.75	3,297.81	0.94	-0.84	-0.52
5,177.00	52.78	0.56	3,570.20	3,352.25	1.53	3,347.97	0.98	-0.49	-1.06
5,240.00	53.05	0.02	3,608.19	3,402.51	1.79	3,398.15	0.81	0.43	-0.86
5,302.00	54.21	359.84	3,644.96	3,452.43	1.72	3,448.01	1.89	1.87	-0.29
5,365.00	54.38	359.63	3,681.72	3,503.59	1.49	3,499.12	0.38	0.27	-0.33
5,382.00	53.96	359.56	3,691.68	3,517.37	1.39	3,512.89	2.49	-2.47	-0.41
5,489.00	66.12	352.51	3,745.06	3,609.56	-5.35	3,605.30	12.71	11.36	-6.59
5,551.00	71.16	348.43	3,767.64	3,666.47	-14.94	3,662.62	10.18	8.13	-6.58
5,614.00	74.50	346.33	3,786.24	3,725.19	-28.10	3,721.93	6.18	5.30	-3.33
5,677.00	78.38	344.66	3,801.01	3,784.47	-43.44	3,781.90	6.68	6.16	-2.65
5,739.00	83.44	342.58	3,810.80	3,843.18	-60.71	3,841.40	8.81	8.16	-3.35
5,802.00	84.04	340.33	3,817.67	3,902.55	-80.62	3,901.69	3.68	0.95	-3.57
5,833.00	87.65	340.40	3,819.92	3,931.66	-91.01	3,931.29	11.65	11.65	0.23
5,893.00	88.76	340.10	3,821.80	3,988.11	-111.28	3,988.67	1.92	1.85	-0.50
5,952.00	89.03	339.71	3,822.94	4,043.50	-131.54	4,045.02	0.80	0.46	-0.66
6,012.00	90.57	341.55	3,823.15	4,100.10	-151.44	4,102.54	4.00	2.57	3.07
6,072.00	90.61	342.47	3,822.53	4,157.17	-169.97	4,160.46	1.53	0.07	1.53
6,132.00	90.10	341.78	3,822.16	4,214.27	-188.39	4,218.41	1.43	-0.85	-1.15
6,192.00	91.71	344.92	3,821.21	4,271.74	-205.57	4,276.67	5.88	2.68	5.23
6,252.00	90.87	343.00	3,819.86	4,329.38	-222.15	4,335.07	3.49	-1.40	-3.20
6,310.00	90.10	340.64	3,819.37	4,384.48	-240.24	4,391.01	4.28	-1.33	-4.07
6,369.00	91.21	343.92	3,818.69	4,440.67	-258.20	4,448.03	5.87	1.88	5.56
6,429.00	92.02	347.94	3,817.00	4,498.83	-272.77	4,506.85	6.83	1.35	6.70
6,489.00	90.47	349.71	3,815.70	4,557.68	-284.40	4,566.20	3.92	-2.58	2.95
6,549.00	88.96	347.83	3,816.00	4,616.52	-296.08	4,625.56	4.02	-2.52	-3.13
6,609.00	89.50	348.45	3,816.80	4,675.24	-308.41	4,684.82	1.37	0.90	1.03
6,669.00	90.30	351.73	3,816.91	4,734.33	-318.74	4,744.35	5.63	1.33	5.47
6,727.00	90.77	351.65	3,816.37	4,791.72	-327.12	4,802.09	0.82	0.81	-0.14
6,788.00	89.93	353.10	3,815.99	4,852.18	-335.21	4,862.88	2.75	-1.38	2.38
6,849.00	89.09	355.34	3,816.51	4,912.86	-341.36	4,923.79	3.92	-1.38	3.67
6,908.00	89.13	356.51	3,817.43	4,971.70	-345.55	4,982.77	1.98	0.07	1.98
6,968.00	90.17	358.37	3,817.80	5,031.64	-348.23	5,042.77	3.55	1.73	3.10
7,028.00	92.89	0.42	3,816.20	5,091.61	-348.86	5,102.69	5.68	4.53	3.42
7,088.00	92.15	356.33	3,813.56	5,151.51	-350.56	5,162.60	6.92	-1.23	-6.82

Scientific Drilling

Survey Report



Scientific Drilling

Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-21 1H
Project:	Rio Arriba County, NMW NAD83	TVD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Site:	Carson 32-5-21 Pad	MD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Well:	Carson 32-5-21 1H	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 (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
7,147.00	91.14	356.15	3,811.86	5,210.36	-354.43	5,221.57	1.74	-1.71	-0.31	
7,206.00	92.52	358.75	3,809.98	5,269.26	-357.05	5,280.53	4.99	2.34	4.41	
7,267.00	92.45	0.70	3,807.33	5,330.20	-357.34	5,341.41	3.20	-0.11	3.20	
7,326.00	90.23	0.97	3,805.95	5,389.18	-356.49	5,400.27	3.79	-3.76	0.46	
7,386.00	89.66	3.17	3,806.01	5,449.13	-354.32	5,460.04	3.79	-0.95	3.67	
7,446.00	91.31	2.16	3,805.50	5,509.06	-351.53	5,519.76	3.22	2.75	-1.68	
7,505.00	91.58	1.07	3,804.02	5,568.02	-349.87	5,578.56	1.90	0.46	-1.85	
7,565.00	91.38	0.33	3,802.47	5,628.00	-349.13	5,638.42	1.28	-0.33	-1.23	
7,624.00	90.37	359.40	3,801.56	5,686.99	-349.27	5,697.34	2.33	-1.71	-1.58	
7,684.00	90.40	357.91	3,801.16	5,746.97	-350.68	5,757.32	2.48	0.05	-2.48	
7,744.00	91.54	359.61	3,800.15	5,806.94	-351.98	5,817.28	3.41	1.90	2.83	
7,804.00	90.77	1.37	3,798.94	5,866.93	-351.47	5,877.16	3.20	-1.28	2.93	
7,867.00	90.64	0.83	3,798.16	5,929.91	-350.26	5,940.01	0.88	-0.21	-0.86	
7,930.00	89.56	0.51	3,798.05	5,992.90	-349.52	6,002.89	1.79	-1.71	-0.51	
7,992.00	91.51	2.14	3,797.47	6,054.88	-348.09	6,064.71	4.10	3.15	2.63	
8,054.00	91.95	0.84	3,795.60	6,116.83	-346.48	6,126.50	2.21	0.71	-2.10	
8,117.00	92.66	0.93	3,793.07	6,179.77	-345.50	6,189.32	1.14	1.13	0.14	
8,179.00	90.30	359.57	3,791.47	6,241.74	-345.23	6,251.20	4.39	-3.81	-2.19	
8,242.00	90.20	0.22	3,791.19	6,304.74	-345.35	6,314.12	1.04	-0.16	1.03	
8,305.00	91.58	1.05	3,790.21	6,367.73	-344.65	6,377.00	2.56	2.19	1.32	
8,368.00	91.81	0.31	3,788.35	6,430.70	-343.90	6,439.85	1.23	0.37	-1.17	
8,430.00	90.87	358.45	3,786.90	6,492.67	-344.57	6,501.78	3.36	-1.52	-3.00	
8,493.00	90.30	357.45	3,786.26	6,555.63	-346.83	6,564.77	1.83	-0.90	-1.59	
8,555.00	90.20	356.39	3,785.98	6,617.54	-350.16	6,626.77	1.72	-0.16	-1.71	
8,618.00	91.38	356.87	3,785.12	6,680.42	-353.86	6,689.76	2.02	1.87	0.76	
8,680.00	91.08	354.09	3,783.78	6,742.21	-358.75	6,751.71	4.51	-0.48	-4.48	
8,743.00	91.48	356.00	3,782.38	6,804.95	-364.19	6,814.65	3.10	0.63	3.03	
8,805.00	89.80	356.83	3,781.68	6,866.82	-368.06	6,876.64	3.02	-2.71	1.34	
8,868.00	90.64	359.88	3,781.44	6,929.79	-369.87	6,939.62	5.02	1.33	4.84	
8,930.00	91.24	0.74	3,780.43	6,991.78	-369.54	7,001.51	1.69	0.97	1.39	
8,993.00	90.67	0.02	3,779.38	7,054.77	-369.12	7,064.40	1.46	-0.90	-1.14	
9,056.00	89.70	358.78	3,779.17	7,117.76	-369.78	7,127.35	2.50	-1.54	-1.97	
9,118.00	90.07	0.66	3,779.30	7,179.76	-370.08	7,189.28	3.09	0.60	3.03	
9,180.00	90.50	2.45	3,778.99	7,241.73	-368.40	7,251.10	2.97	0.69	2.89	
9,243.00	91.31	2.39	3,777.99	7,304.67	-365.74	7,313.82	1.29	1.29	-0.10	
9,273.00	90.50	1.74	3,777.52	7,334.64	-364.66	7,343.70	3.46	-2.70	-2.17	
9,321.00	90.50	1.74	3,777.10	7,382.62	-363.20	7,391.55	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 Inc.
Well Name & No.	Carson 32-5-21 1H Pilot
County & State	Rio Arriba County, NM
SDI Job #	OP.050619
Rig	Aztec 920
Survey Date	10/6/2025 to 10/10/2025
GL & KB Elevation	GL 7174' & KB 15' = 7189'

I, Janie Collins, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 12.37 feet to a measured depth of 5,881 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

29-Oct-2025

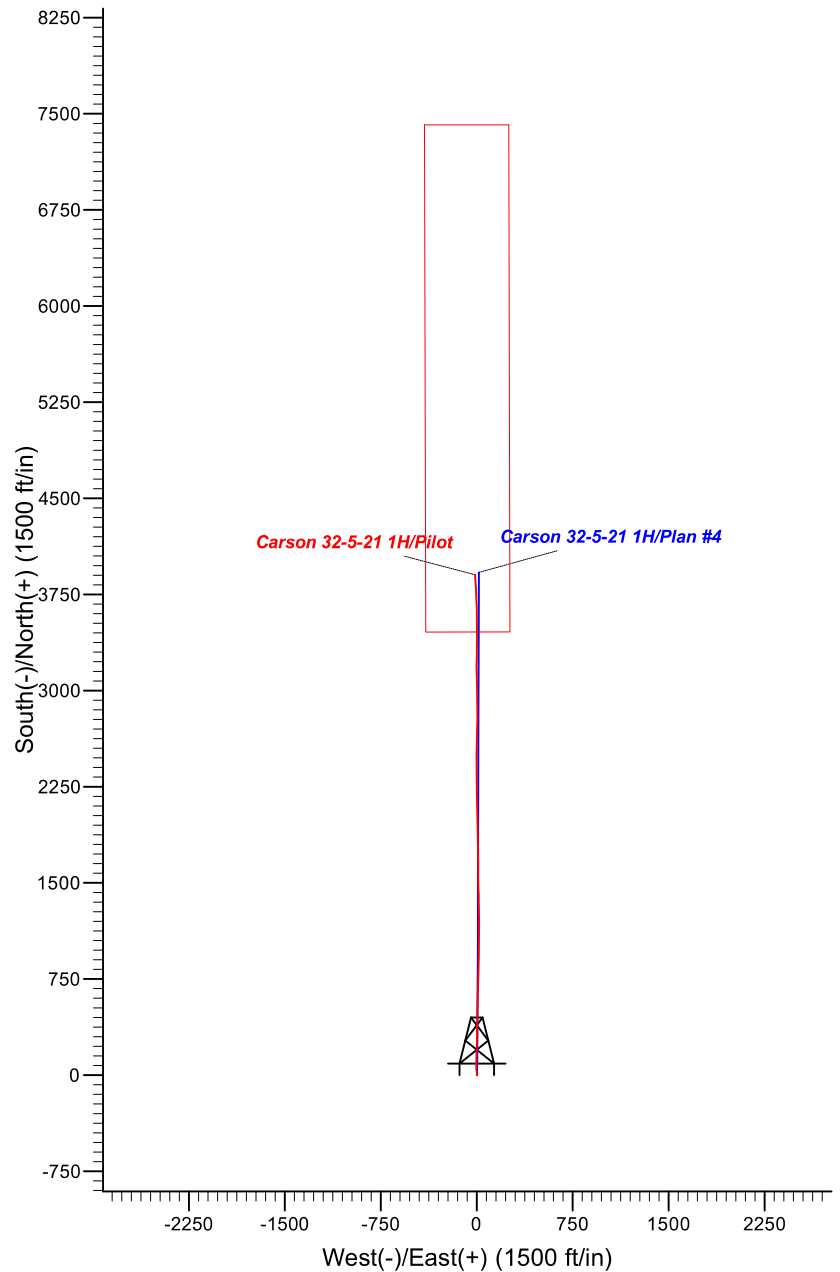
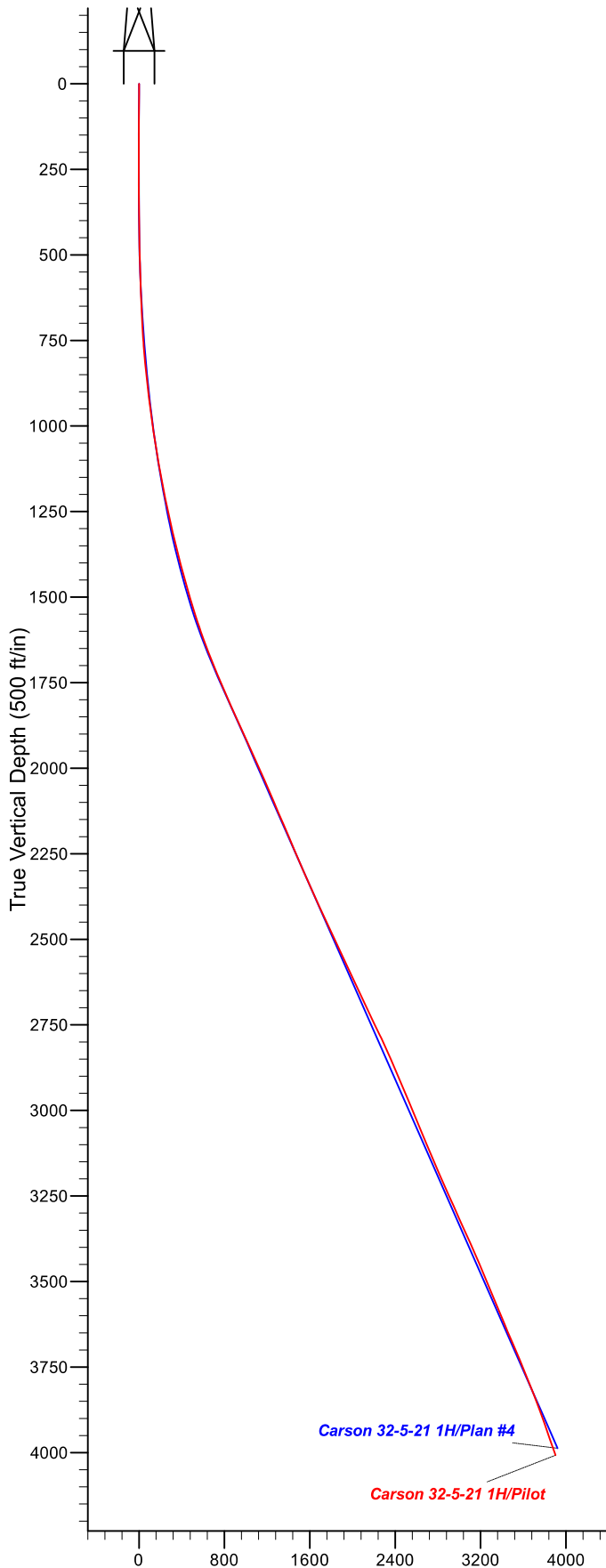
Date

Janie Collins

Rockies Region Well Planning Engineer
Scientific Drilling - Rocky Mountain District



Company: Coleman Oil & Gas Inc.
 Project: Rio Arriba County, NMW NAD83
 Site: Carson 32-5-21 Pad
 Well: Carson 32-5-21 1H
 Wellbore: Pilot
 Design: Pilot



Well Details: Carson 32-5-21 1H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	2165761.9003	2858211.1818	36.9508367	-107.3709071	

PROJECT DETAILS: Rio Arriba County, NMW NAD83

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

System Datum: Mean Sea Level

Plan: Pilot

8:27, October 29 2025
 Created By: Janie Collins



Coleman Oil & Gas Inc.

Rio Arriba County, NMW NAD83

Carson 32-5-21 Pad

Carson 32-5-21 1H

Pilot

Design: Pilot

Standard Survey Report

29 October, 2025



Scientific Drilling

www.scientificdrilling.com





Scientific Drilling

Survey Report



Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-21 1H
Project:	Rio Arriba County, NMW NAD83	TVD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Site:	Carson 32-5-21 Pad	MD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Well:	Carson 32-5-21 1H	North Reference:	True
Wellbore:	Pilot	Survey Calculation Method:	Minimum Curvature
Design:	Pilot	Database:	Grand Junction

Project	Rio Arriba County, NMW NAD83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	Carson 32-5-21 Pad		
Site Position:		Northing:	2,165,761.9003 usft
From:	Lat/Long	Easting:	2,858,211.1818 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	36.9508367
		Longitude:	-107.3709071
		Grid Convergence:	0.28 °

Well	Carson 32-5-21 1H		
Well Position	+N/-S	0.00 ft	Northing: 2,165,761.9003 usft
	+E/-W	0.00 ft	Easting: 2,858,211.1818 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	36.9508367
		Longitude:	-107.3709071
		Ground Level:	7,174.00 ft

Wellbore	Pilot		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM2025	10/5/2025	8.32
			Dip Angle (°)
			63.27
			Field Strength (nT)
			49,205.60000000

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 (°)
			0.25

Survey Program	Date	10/9/2025		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
12.37	247.55	Survey #1 - Surface Gyro (Pilot)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
345.00	734.00	Survey #2 - Gyro MWD (Pilot)	Gyro MWD 105	Gyro MWD Error Model Ver 1.0.5
770.00	5,881.00	Survey #3 - 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 (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12.37	0.18	173.76	12.37	-0.02	0.00	-0.02	1.46	1.46	0.00
20.00	0.24	169.05	20.00	-0.05	0.01	-0.05	0.82	0.79	-61.73
30.00	0.11	194.65	30.00	-0.08	0.01	-0.08	1.49	-1.30	256.00
40.00	0.15	163.36	40.00	-0.10	0.01	-0.10	0.80	0.40	-312.90
50.00	0.14	141.87	50.00	-0.12	0.02	-0.12	0.55	-0.10	-214.90
60.00	0.25	131.60	60.00	-0.14	0.04	-0.14	1.15	1.10	-102.70
70.00	0.27	142.94	70.00	-0.18	0.07	-0.18	0.55	0.20	113.40
80.00	0.37	124.82	80.00	-0.22	0.12	-0.21	1.41	1.00	-181.20

Scientific Drilling

Survey Report



Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-21 1H
Project:	Rio Arriba County, NMW NAD83	TVD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Site:	Carson 32-5-21 Pad	MD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Well:	Carson 32-5-21 1H	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 (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
90.00	0.39	133.63	90.00	-0.26	0.17	-0.26	0.62	0.20	88.10
100.00	0.43	109.44	100.00	-0.29	0.23	-0.29	1.76	0.40	-241.90
110.00	0.55	103.46	110.00	-0.32	0.31	-0.32	1.30	1.20	-59.80
120.00	0.62	104.90	120.00	-0.34	0.41	-0.34	0.72	0.70	14.40
130.00	0.69	110.25	130.00	-0.38	0.52	-0.37	0.93	0.70	53.50
140.00	0.68	111.55	140.00	-0.42	0.63	-0.42	0.18	-0.10	13.00
150.00	0.65	110.23	150.00	-0.46	0.74	-0.46	0.34	-0.30	-13.20
160.00	0.72	102.69	160.00	-0.49	0.85	-0.49	1.14	0.70	-75.40
170.00	0.67	98.16	169.99	-0.52	0.97	-0.51	0.74	-0.50	-45.30
180.00	0.60	86.64	179.99	-0.52	1.08	-0.52	1.45	-0.70	-115.20
190.00	0.53	82.55	189.99	-0.51	1.18	-0.51	0.81	-0.70	-40.90
200.00	0.47	88.05	199.99	-0.51	1.27	-0.50	0.77	-0.60	55.00
210.00	0.36	93.18	209.99	-0.51	1.34	-0.50	1.16	-1.10	51.30
220.00	0.31	93.81	219.99	-0.51	1.40	-0.50	0.50	-0.50	6.30
230.00	0.29	115.56	229.99	-0.52	1.45	-0.52	1.15	-0.20	217.50
240.00	0.26	116.98	239.99	-0.54	1.49	-0.54	0.31	-0.30	14.20
247.55	0.23	121.56	247.54	-0.56	1.52	-0.55	0.47	-0.40	60.66
345.00	0.70	72.33	344.99	-0.48	2.25	-0.47	0.59	0.48	-50.52
375.00	1.58	44.82	374.98	-0.13	2.72	-0.12	3.37	2.93	-91.70
435.00	3.52	16.00	434.92	2.23	3.81	2.24	3.78	3.23	-48.03
495.00	5.45	3.25	494.74	6.84	4.48	6.86	3.60	3.22	-21.25
555.00	5.54	346.73	554.47	12.51	3.97	12.52	2.63	0.15	-27.53
615.00	6.16	340.75	614.15	18.36	2.25	18.37	1.45	1.03	-9.97
674.00	9.15	346.38	672.62	25.91	0.10	25.91	5.22	5.07	9.54
734.00	11.70	351.83	731.63	36.57	-1.89	36.57	4.55	4.25	9.08
770.00	13.80	357.49	766.74	44.48	-2.60	44.47	6.78	5.83	15.72
830.00	17.78	359.29	824.46	60.79	-3.02	60.78	6.68	6.63	3.00
890.00	20.22	1.84	881.19	80.32	-2.80	80.31	4.29	4.07	4.25
948.00	22.06	1.00	935.29	101.23	-2.29	101.22	3.22	3.17	-1.45
1,007.00	23.73	359.91	989.64	124.18	-2.12	124.17	2.92	2.83	-1.85
1,067.00	26.28	1.06	1,044.01	149.54	-1.89	149.53	4.33	4.25	1.92
1,127.00	28.85	2.58	1,097.19	177.29	-0.99	177.28	4.44	4.28	2.53
1,187.00	31.06	3.27	1,149.18	207.20	0.54	207.20	3.73	3.68	1.15
1,247.00	33.12	3.10	1,200.01	239.03	2.31	239.04	3.44	3.43	-0.28
1,306.00	34.76	1.06	1,248.95	271.94	3.49	271.95	3.38	2.78	-3.46
1,365.00	36.18	0.27	1,297.00	306.17	3.89	306.19	2.53	2.41	-1.34
1,426.00	38.10	0.62	1,345.63	343.00	4.18	343.02	3.17	3.15	0.57
1,487.00	39.87	0.61	1,393.04	381.37	4.59	381.39	2.90	2.90	-0.02
1,546.00	41.07	0.52	1,437.93	419.67	4.97	419.68	2.04	2.03	-0.15
1,609.00	43.10	0.23	1,484.68	461.89	5.24	461.91	3.24	3.22	-0.46
1,671.00	44.67	0.68	1,529.36	504.86	5.58	504.88	2.58	2.53	0.73
1,734.00	46.19	1.27	1,573.57	549.74	6.35	549.76	2.50	2.41	0.94
1,796.00	48.38	1.23	1,615.63	595.28	7.34	595.30	3.53	3.53	-0.06

Scientific Drilling

Survey Report



Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-21 1H
Project:	Rio Arriba County, NMW NAD83	TVD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Site:	Carson 32-5-21 Pad	MD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Well:	Carson 32-5-21 1H	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 (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,859.00	50.74	1.57	1,656.49	643.21	8.52	643.24	3.77	3.75	0.54
1,922.00	53.26	1.71	1,695.28	692.83	9.94	692.86	4.00	4.00	0.22
1,984.00	54.13	1.79	1,731.98	742.77	11.47	742.81	1.41	1.40	0.13
2,047.00	53.63	1.96	1,769.12	793.63	13.13	793.68	0.82	-0.79	0.27
2,109.00	55.32	1.54	1,805.15	844.06	14.67	844.12	2.78	2.73	-0.68
2,172.00	55.77	0.75	1,840.79	896.00	15.71	896.06	1.26	0.71	-1.25
2,235.00	55.42	0.54	1,876.39	947.98	16.29	948.04	0.62	-0.56	-0.33
2,297.00	54.66	0.63	1,911.91	998.79	16.81	998.85	1.23	-1.23	0.15
2,360.00	55.59	0.91	1,947.93	1,050.47	17.51	1,050.53	1.52	1.48	0.44
2,423.00	55.22	0.35	1,983.70	1,102.32	18.08	1,102.39	0.94	-0.59	-0.89
2,485.00	54.44	359.78	2,019.42	1,153.00	18.13	1,153.07	1.47	-1.26	-0.92
2,548.00	54.14	359.69	2,056.19	1,204.16	17.90	1,204.22	0.49	-0.48	-0.14
2,611.00	54.23	359.32	2,093.05	1,255.24	17.46	1,255.31	0.50	0.14	-0.59
2,674.00	54.03	358.97	2,129.97	1,306.29	16.70	1,306.35	0.55	-0.32	-0.56
2,737.00	54.46	358.68	2,166.78	1,357.40	15.65	1,357.46	0.78	0.68	-0.46
2,800.00	53.64	358.54	2,203.77	1,408.39	14.41	1,408.44	1.31	-1.30	-0.22
2,863.00	54.00	358.33	2,240.96	1,459.22	13.02	1,459.26	0.63	0.57	-0.33
2,925.00	54.07	358.95	2,277.37	1,509.39	11.83	1,509.43	0.82	0.11	1.00
2,988.00	54.90	0.48	2,313.97	1,560.66	11.58	1,560.70	2.38	1.32	2.43
3,050.00	53.80	0.16	2,350.10	1,611.04	11.86	1,611.08	1.82	-1.77	-0.52
3,113.00	56.27	0.04	2,386.20	1,662.67	11.95	1,662.70	3.92	3.92	-0.19
3,176.00	56.72	359.67	2,420.98	1,715.20	11.82	1,715.23	0.87	0.71	-0.59
3,238.00	55.97	358.75	2,455.34	1,766.80	11.11	1,766.83	1.73	-1.21	-1.48
3,300.00	56.25	358.52	2,489.91	1,818.25	9.88	1,818.28	0.55	0.45	-0.37
3,362.00	56.17	358.53	2,524.39	1,869.76	8.55	1,869.78	0.13	-0.13	0.02
3,425.00	56.25	358.47	2,559.43	1,922.10	7.18	1,922.12	0.15	0.13	-0.10
3,488.00	56.51	358.36	2,594.31	1,974.55	5.73	1,974.55	0.44	0.41	-0.17
3,550.00	56.38	358.18	2,628.58	2,026.19	4.17	2,026.19	0.32	-0.21	-0.29
3,613.00	55.63	357.71	2,663.81	2,078.39	2.30	2,078.38	1.34	-1.19	-0.75
3,676.00	56.50	358.19	2,698.98	2,130.62	0.43	2,130.60	1.52	1.38	0.76
3,738.00	56.77	359.84	2,733.08	2,182.39	-0.46	2,182.37	2.26	0.44	2.66
3,801.00	58.15	359.73	2,766.96	2,235.50	-0.66	2,235.48	2.20	2.19	-0.17
3,864.00	55.97	359.69	2,801.22	2,288.37	-0.92	2,288.34	3.46	-3.46	-0.06
3,926.00	54.29	0.41	2,836.66	2,339.24	-0.88	2,339.21	2.87	-2.71	1.16
3,989.00	54.49	0.20	2,873.35	2,390.45	-0.61	2,390.43	0.42	0.32	-0.33
4,051.00	54.38	0.45	2,909.41	2,440.89	-0.32	2,440.86	0.37	-0.18	0.40
4,114.00	53.41	0.35	2,946.53	2,491.79	0.03	2,491.76	1.55	-1.54	-0.16
4,177.00	52.89	0.46	2,984.31	2,542.20	0.39	2,542.18	0.84	-0.83	0.17
4,239.00	53.07	0.75	3,021.64	2,591.70	0.91	2,591.68	0.47	0.29	0.47
4,302.00	53.88	1.32	3,059.14	2,642.31	1.83	2,642.30	1.48	1.29	0.90
4,365.00	53.59	1.72	3,096.40	2,693.09	3.17	2,693.08	0.69	-0.46	0.63
4,428.00	52.55	1.96	3,134.26	2,743.43	4.79	2,743.42	1.68	-1.65	0.38
4,521.00	54.54	359.40	3,189.52	2,818.21	5.66	2,818.21	3.08	2.14	-2.75



Scientific Drilling

Survey Report



Company:	Coleman Oil & Gas Inc.	Local Co-ordinate Reference:	Well Carson 32-5-21 1H
Project:	Rio Arriba County, NMW NAD83	TVD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Site:	Carson 32-5-21 Pad	MD Reference:	GL 7174' & RKB 15' @ 7189.00ft (Aztec 920)
Well:	Carson 32-5-21 1H	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 (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,553.00	54.93	359.24	3,208.00	2,844.33	5.35	2,844.33	1.29	1.22	-0.50	
4,615.00	55.75	359.09	3,243.25	2,895.33	4.60	2,895.32	1.34	1.32	-0.24	
4,678.00	55.15	358.88	3,278.98	2,947.21	3.68	2,947.19	0.99	-0.95	-0.33	
4,740.00	55.16	358.63	3,314.41	2,998.08	2.58	2,998.06	0.33	0.02	-0.40	
4,802.00	55.40	358.14	3,349.72	3,049.02	1.14	3,048.99	0.76	0.39	-0.79	
4,865.00	55.06	358.58	3,385.65	3,100.75	-0.34	3,100.72	0.79	-0.54	0.70	
4,927.00	54.42	359.43	3,421.44	3,151.36	-1.22	3,151.33	1.52	-1.03	1.37	
4,989.00	53.64	0.37	3,457.86	3,201.54	-1.31	3,201.51	1.76	-1.26	1.52	
5,052.00	53.61	1.55	3,495.22	3,252.26	-0.46	3,252.22	1.51	-0.05	1.87	
5,114.00	53.09	1.23	3,532.23	3,301.99	0.75	3,301.96	0.94	-0.84	-0.52	
5,177.00	52.78	0.56	3,570.20	3,352.25	1.53	3,352.22	0.98	-0.49	-1.06	
5,240.00	53.05	0.02	3,608.19	3,402.51	1.79	3,402.48	0.81	0.43	-0.86	
5,302.00	54.21	359.84	3,644.96	3,452.43	1.72	3,452.40	1.89	1.87	-0.29	
5,365.00	54.38	359.63	3,681.72	3,503.59	1.49	3,503.56	0.38	0.27	-0.33	
5,428.00	52.82	359.38	3,719.11	3,554.29	1.05	3,554.26	2.50	-2.48	-0.40	
5,490.00	52.95	359.05	3,756.52	3,603.73	0.37	3,603.69	0.47	0.21	-0.53	
5,553.00	52.40	358.97	3,794.72	3,653.82	-0.49	3,653.78	0.88	-0.87	-0.13	
5,615.00	51.22	357.95	3,833.05	3,702.53	-1.80	3,702.48	2.30	-1.90	-1.65	
5,678.00	49.78	357.16	3,873.12	3,751.09	-3.87	3,751.04	2.48	-2.29	-1.25	
5,741.00	47.86	356.78	3,914.60	3,798.44	-6.37	3,798.38	3.08	-3.05	-0.60	
5,803.00	48.40	356.83	3,955.99	3,844.54	-8.95	3,844.46	0.87	0.87	0.08	
5,824.00	48.62	356.66	3,969.90	3,860.24	-9.84	3,860.16	1.21	1.05	-0.81	
5,881.00	48.62	356.66	4,007.58	3,902.94	-12.33	3,902.85	0.00	0.00	0.00	

Checked By: _____ Approved By: _____ Date: _____

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

General Information
Phone: (505) 629-6116

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

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

ACKNOWLEDGMENTS

Action 528813

ACKNOWLEDGMENTS

Operator: COLEMAN OIL & GAS INC P.O. Drawer 3337 Farmington, NM 87499	OGRID: 4838
	Action Number: 528813
	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 528813

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CONDITIONS

Created By	Condition	Condition Date
plmartinez	RT C-104 EXPIRES 2/14/2026.	12/4/2025
plmartinez	RT C-104 Expires 90 days from ready date for a Horizontal well.	12/4/2025