U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

06/25/2025

Well Name: SAN JUAN 32-7 UNIT

Well Location: T32N / R7W / SEC 09 / NWSW / 36.997664 / -107.579338

County or Parish/State: SAN JUAN / NM

Well Number: 249H

Type of Well: COALBED NATURAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMSF078460

Unit or CA Name: SAN JUAN 32-7

Unit or CA Number: NMNM078423X

US Well Number:

Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2858256

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 06/16/2025

Time Sundry Submitted: 11:26

Date proposed operation will begin: 07/01/2025

Procedure Description: Hilcorp Energy Company requests to extend the lateral on the approved APD. Attached please find the revised, plat, directional plans and technical plans. Please note that there will no longer be any production take points in a federal lease. All production points are now proposed to be within a FEE lease.

NOI Attachments

Procedure Description

San_Juan_32_7_Unit_249H_Lateral_1_Plan_3_20250616112536.pdf

SAN_JUAN_32_7_UNIT_249H_REVISED_PLAT_20250616112536.pdf

San_Juan_32_7_Unit_249H___Drilling_Technical_Plan___Rev_4___20250616_20250616112536.pdf

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Lease Number: NMSF078460

Unit or CA Name: SAN JUAN 32-7

Unit or CA Number: NMNM078423X

US Well Number:

Operator: HILCORP ENERGY COMPANY

Operator

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

Operator Electronic Signature: AMANDA WALKER

Signed on: JUN 17, 2025 05:54 AM

Name: HILCORP ENERGY COMPANY

Title: Operations/Regulatory Technician

Street Address: 1111 TRAVIS ST

City: HOUSTON **State:** TX

Phone: (346) 237-2177

Email address: MWALKER@HILCORP.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647742

BLM POC Email Address: krennick@blm.gov

Disposition: Approved

Disposition Date: 06/18/2025

Signature: Dave J Mankiewicz

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool or Exploratory Area

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect ofthis form to U.S. Department ofthe Interior, Bureau ofLand Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: NWSW / 2654 FSL / 421 FWL / TWSP: 32N / RANGE: 7W / SECTION: 09 / LAT: 36.997664 / LONG: -107.579338 (TVD: 0 feet, MD: 0 feet)

PPP: LOT 5 / 1578 FSL / 499 FEL / TWSP: 32N / RANGE: 7W / SECTION: 08 / LAT: 36.994531 / LONG: -107.58294 (TVD: 2701 feet, MD: 2878 feet)

PPP: LOT 5 / 1363 FSL / 1255 FEL / TWSP: 32N / RANGE: 7W / SECTION: 08 / LAT: 36.99352 / LONG: -107.585676 (TVD: 3221 feet, MD: 8918 feet)

BHL: SWSW / 1077 FSL / 195 FWL / TWSP: 32N / RANGE: 7W / SECTION: 08 / LAT: 36.990676 / LONG: -107.598998 (TVD: 3221 feet, MD: 8918 feet)

Hilcorp Energy Company

San Juan 32-7 Unit 249H
Lateral 1
Plan #3

GL 6339' & RKB 17' @ 6356.00ft

Northing	Easting	Latitude	Longitude
2182517.20	574351.00	36.997660	-107.578728

PROJECT DETAILS: San Juan, NM NAD27

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico West 3003
System Datum: Mean Sea Level

Scientific Drilling

PLAN DETAILS

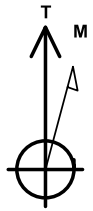
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect	Annotation
3450.00	65.00	245.000	2943.30	-449.00	-962.88	0.00	1045.75	
3733.45	89.67	240.000	3005.00	-576.19	-1205.94	8.87	1313.28	
4380.21	89.68	256.169	3008.71	-816.78	-1803.96	2.50	1952.98	
4865.16	89.68	256.169	3011.45	-932.71	-2274.85	0.00	2437.85	
5027.34	89.93	252.123	3012.00	-977.00	-2430.83	2.50	2599.97	
5088.12	89.89	250.604	3012.09	-996.43	-2488.41	2.50	2660.61	
6314.68	89.89	250.604	3014.51	-1403.75	-3645.36	0.00	3883.28	
6771.49	90.24	262.019	3014.00	-1511.67	-4088.47	2.50	4339.25	
8440.91	90.24	262.019	3007.00	-1743.45	-5741.69	0.00	5996.71	
10240.91	90.24	262.019	2999.45	-1993.37	-7524.25	0.00	7783.81	

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SJ 249H LP	3005.00	-339.29	-1051.91	2182175.10	573300.00	36.996728	-107.582330
SJ 249H BHL	3007.00	-1743.45	-5741.69	2180758.40	568614.00	36.992870	-107.598388
SJ 249H CP1	3012.00	-977.00	-2430.83	2181533.70	571922.80	36.994976	-107.587052
SJ 249H CP2	3014.00	-1511.67	-4088.47	2180994.60	570266.60	36.993507	-107.592728

Plan: Plan #3 (San Juan 32-7 Unit 249H/Lateral 1)

Created By: Janie Collins Date: 13:27, June 13 2025

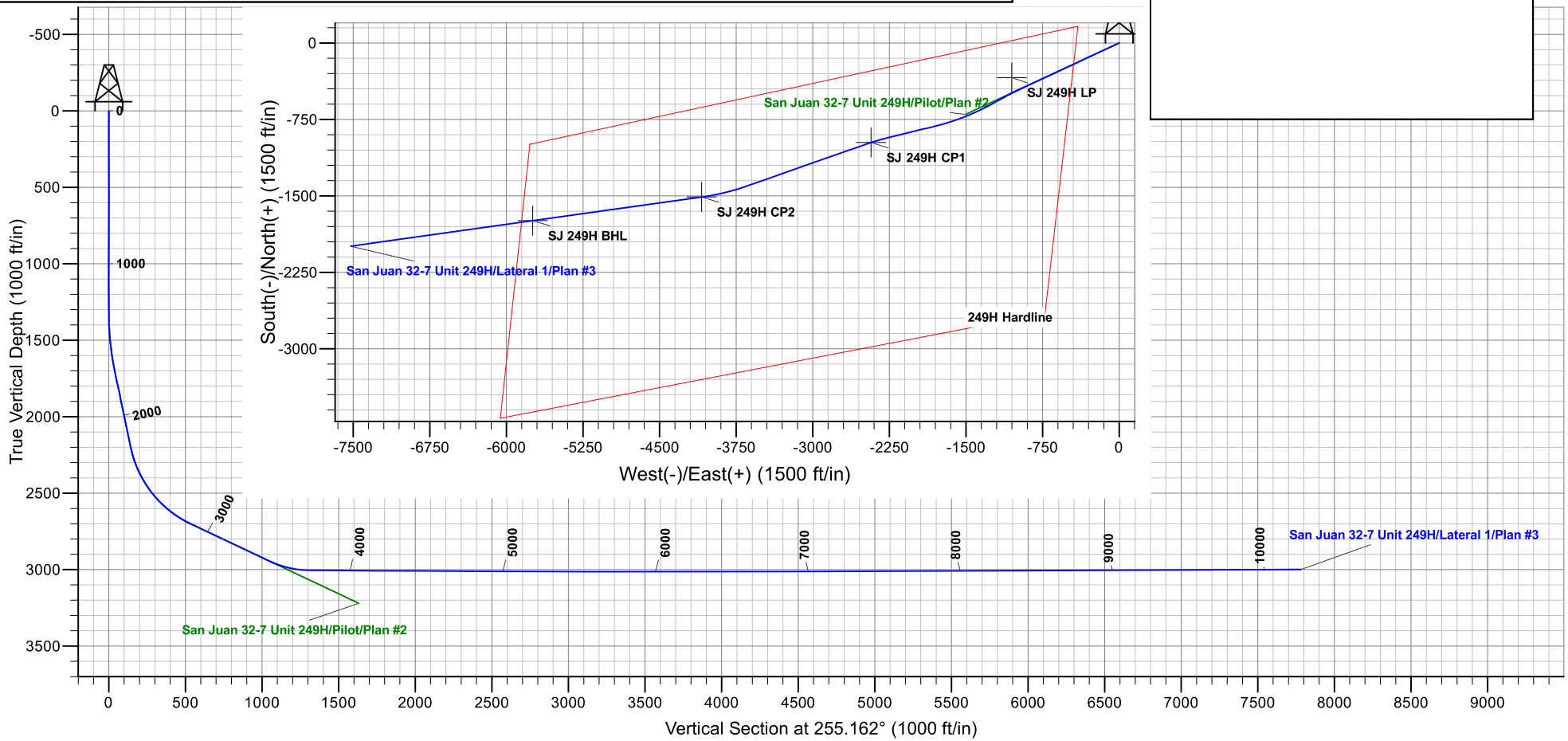


Azimuths to True North
Magnetic North: 8.58°

Magnetic Field
Strength: 49299.3nT
Dip Angle: 63.32°
Date: 8/27/2024
Model: HDGM2024

CASING DETAILS

No casing data is available



Hilcorp Energy Company

Hilcorp Energy - San Juan Basin

San Juan, NM NAD27
San Juan 32-7 Unit 249H
San Juan 32-7 Unit 249H

Lateral 1

Plan: Plan #3

Standard Planning Report

13 June, 2025

Scientific Drilling

www.scientificdrilling.com

Hilcorp Energy Company

Scientific Drilling

Planning Report

Scientific Drilling

Database:	Grand Junction	**Local Co-ordinate Reference:**	Well San Juan 32-7 Unit 249H
Company:	Hilcorp Energy - San Juan Basin	**TVD Reference:**	GL 6339' & RKB 17' @ 6356.00ft
Project:	San Juan, NM NAD27	**MD Reference:**	GL 6339' & RKB 17' @ 6356.00ft
Site:	San Juan 32-7 Unit 249H	**North Reference:**	True
Well:	San Juan 32-7 Unit 249H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Lateral 1		
Design:	Plan #3		

Project San Juan, NM NAD27

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		

Site San Juan 32-7 Unit 249H

Site Position:		**Northing:**	2,182,517.20 usft	**Latitude:**	36.997660
From:	Map	**Easting:**	574,351.00 usft	**Longitude:**	-107.578728
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.20 in	**Grid Convergence:**	0.15 °

Well San Juan 32-7 Unit 249H

Well Position	**+N/-S**	0.00 ft	**Northing:**	2,182,517.20 usft	**Latitude:**	36.997660
	+E/-W	0.00 ft	**Easting:**	574,351.00 usft	**Longitude:**	-107.578728
Position Uncertainty		0.00 ft	**Wellhead Elevation:**		**Ground Level:**	6,339.00 ft

Wellbore Lateral 1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2024	8/27/2024	8.58	63.32	49,299.30000000

Design Plan #3

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	3,450.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	255.162

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
3,450.00	65.00	245.000	2,943.30	-449.00	-962.88	0.00	0.00	0.00	0.00	
3,733.45	89.67	240.000	3,005.00	-576.19	-1,205.94	8.87	8.70	-1.76	-11.84	
4,380.21	89.68	256.169	3,008.71	-816.78	-1,803.96	2.50	0.00	2.50	90.02	
4,865.16	89.68	256.169	3,011.45	-932.71	-2,274.85	0.00	0.00	0.00	0.00	
5,027.35	89.93	252.123	3,012.00	-977.00	-2,430.83	2.50	0.16	-2.49	-86.37	SJ 249H CP1
5,088.12	89.89	250.604	3,012.09	-996.43	-2,488.41	2.50	-0.08	-2.50	-91.77	
6,314.68	89.89	250.604	3,014.51	-1,403.75	-3,645.36	0.00	0.00	0.00	0.00	
6,771.49	90.24	262.019	3,014.00	-1,511.67	-4,088.47	2.50	0.08	2.50	88.23	SJ 249H CP2
8,440.91	90.24	262.019	3,007.00	-1,743.45	-5,741.69	0.00	0.00	0.00	0.00	SJ 249H BHL
10,240.91	90.24	262.019	2,999.45	-1,993.37	-7,524.25	0.00	0.00	0.00	0.00	

Hilcorp Energy Company

Scientific Drilling

Planning Report

Scientific Drilling

Database:	Grand Junction	**Local Co-ordinate Reference:**	Well San Juan 32-7 Unit 249H
Company:	Hilcorp Energy - San Juan Basin	**TVD Reference:**	GL 6339' & RKB 17' @ 6356.00ft
Project:	San Juan, NM NAD27	**MD Reference:**	GL 6339' & RKB 17' @ 6356.00ft
Site:	San Juan 32-7 Unit 249H	**North Reference:**	True
Well:	San Juan 32-7 Unit 249H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Lateral 1		
Design:	Plan #3		

Planned 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)
3,450.00	65.00	245.000	2,943.30	-449.00	-962.88	1,045.75	0.00	0.00	0.00
3,500.00	69.34	244.029	2,962.69	-468.83	-1,004.47	1,091.03	8.87	8.69	-1.94
3,600.00	78.04	242.234	2,990.74	-512.19	-1,089.98	1,184.80	8.87	8.70	-1.79
3,700.00	86.76	240.552	3,003.96	-559.61	-1,176.91	1,280.97	8.87	8.71	-1.68
3,733.45	89.67	240.000	3,005.00	-576.19	-1,205.94	1,313.28	8.87	8.71	-1.65
3,800.00	89.67	241.664	3,005.38	-608.62	-1,264.05	1,377.76	2.50	0.00	2.50
3,900.00	89.67	244.164	3,005.96	-654.15	-1,353.07	1,475.47	2.50	0.00	2.50
4,000.00	89.67	246.664	3,006.54	-695.75	-1,444.00	1,574.02	2.50	0.00	2.50
4,100.00	89.67	249.164	3,007.11	-733.35	-1,536.65	1,673.21	2.50	0.00	2.50
4,200.00	89.67	251.664	3,007.69	-766.87	-1,630.85	1,772.86	2.50	0.00	2.50
4,300.00	89.67	254.164	3,008.26	-796.25	-1,726.43	1,872.77	2.50	0.00	2.50
4,380.21	89.68	256.169	3,008.71	-816.78	-1,803.96	1,952.98	2.50	0.00	2.50
4,400.00	89.68	256.169	3,008.82	-821.51	-1,823.18	1,972.76	0.00	0.00	0.00
4,500.00	89.68	256.169	3,009.39	-845.42	-1,920.28	2,072.74	0.00	0.00	0.00
4,600.00	89.68	256.169	3,009.95	-869.32	-2,017.38	2,172.73	0.00	0.00	0.00
4,700.00	89.68	256.169	3,010.52	-893.23	-2,114.48	2,272.71	0.00	0.00	0.00
4,800.00	89.68	256.169	3,011.08	-917.13	-2,211.57	2,372.69	0.00	0.00	0.00
4,865.16	89.68	256.169	3,011.45	-932.71	-2,274.85	2,437.85	0.00	0.00	0.00
4,900.00	89.73	255.300	3,011.63	-941.29	-2,308.61	2,472.68	2.50	0.16	-2.50
5,000.00	89.89	252.805	3,011.96	-968.77	-2,404.75	2,572.65	2.50	0.16	-2.49
5,027.35	89.93	252.123	3,012.00	-977.00	-2,430.83	2,599.97	2.50	0.16	-2.49
5,088.12	89.89	250.604	3,012.09	-996.43	-2,488.41	2,660.61	2.50	-0.08	-2.50
5,100.00	89.89	250.604	3,012.12	-1,000.37	-2,499.62	2,672.45	0.00	0.00	0.00
5,200.00	89.89	250.604	3,012.32	-1,033.58	-2,593.94	2,772.13	0.00	0.00	0.00
5,300.00	89.89	250.604	3,012.51	-1,066.79	-2,688.27	2,871.82	0.00	0.00	0.00
5,400.00	89.89	250.604	3,012.71	-1,100.00	-2,782.59	2,971.50	0.00	0.00	0.00
5,500.00	89.89	250.604	3,012.91	-1,133.21	-2,876.92	3,071.18	0.00	0.00	0.00
5,600.00	89.89	250.604	3,013.10	-1,166.42	-2,971.24	3,170.87	0.00	0.00	0.00
5,700.00	89.89	250.604	3,013.30	-1,199.62	-3,065.57	3,270.55	0.00	0.00	0.00
5,800.00	89.89	250.604	3,013.50	-1,232.83	-3,159.89	3,370.23	0.00	0.00	0.00
5,900.00	89.89	250.604	3,013.69	-1,266.04	-3,254.22	3,469.92	0.00	0.00	0.00
6,000.00	89.89	250.604	3,013.89	-1,299.25	-3,348.54	3,569.60	0.00	0.00	0.00
6,100.00	89.89	250.604	3,014.09	-1,332.46	-3,442.86	3,669.29	0.00	0.00	0.00
6,200.00	89.89	250.604	3,014.28	-1,365.67	-3,537.19	3,768.97	0.00	0.00	0.00
6,300.00	89.89	250.604	3,014.48	-1,398.88	-3,631.51	3,868.65	0.00	0.00	0.00
6,314.68	89.89	250.604	3,014.51	-1,403.75	-3,645.36	3,883.28	0.00	0.00	0.00
6,400.00	89.95	252.736	3,014.63	-1,430.58	-3,726.35	3,968.44	2.50	0.08	2.50
6,500.00	90.03	255.235	3,014.64	-1,458.17	-3,822.46	4,068.41	2.50	0.08	2.50
6,600.00	90.11	257.734	3,014.52	-1,481.54	-3,919.68	4,168.38	2.50	0.08	2.50
6,700.00	90.19	260.233	3,014.27	-1,500.65	-4,017.83	4,268.15	2.50	0.08	2.50
6,771.49	90.24	262.019	3,014.00	-1,511.67	-4,088.47	4,339.25	2.50	0.08	2.50
6,800.00	90.24	262.019	3,013.88	-1,515.63	-4,116.69	4,367.55	0.00	0.00	0.00
6,900.00	90.24	262.019	3,013.46	-1,529.52	-4,215.73	4,466.84	0.00	0.00	0.00
7,000.00	90.24	262.019	3,013.04	-1,543.40	-4,314.76	4,566.12	0.00	0.00	0.00
7,100.00	90.24	262.019	3,012.62	-1,557.28	-4,413.79	4,665.41	0.00	0.00	0.00
7,200.00	90.24	262.019	3,012.20	-1,571.17	-4,512.82	4,764.69	0.00	0.00	0.00
7,300.00	90.24	262.019	3,011.78	-1,585.05	-4,611.85	4,863.97	0.00	0.00	0.00
7,400.00	90.24	262.019	3,011.36	-1,598.94	-4,710.88	4,963.26	0.00	0.00	0.00
7,500.00	90.24	262.019	3,010.95	-1,612.82	-4,809.91	5,062.54	0.00	0.00	0.00
7,600.00	90.24	262.019	3,010.53	-1,626.70	-4,908.94	5,161.82	0.00	0.00	0.00
7,700.00	90.24	262.019	3,010.11	-1,640.59	-5,007.97	5,261.11	0.00	0.00	0.00
7,800.00	90.24	262.019	3,009.69	-1,654.47	-5,107.00	5,360.39	0.00	0.00	0.00
7,900.00	90.24	262.019	3,009.27	-1,668.36	-5,206.03	5,459.68	0.00	0.00	0.00
8,000.00	90.24	262.019	3,008.85	-1,682.24	-5,305.06	5,558.96	0.00	0.00	0.00

Hilcorp Energy Company

Scientific Drilling

Planning Report

Scientific Drilling

Database:	Grand Junction	**Local Co-ordinate Reference:**	Well San Juan 32-7 Unit 249H
Company:	Hilcorp Energy - San Juan Basin	**TVD Reference:**	GL 6339' & RKB 17' @ 6356.00ft
Project:	San Juan, NM NAD27	**MD Reference:**	GL 6339' & RKB 17' @ 6356.00ft
Site:	San Juan 32-7 Unit 249H	**North Reference:**	True
Well:	San Juan 32-7 Unit 249H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Lateral 1		
Design:	Plan #3		

Planned 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)
8,100.00	90.24	262.019	3,008.43	-1,696.12	-5,404.09	5,658.24	0.00	0.00	0.00
8,200.00	90.24	262.019	3,008.01	-1,710.01	-5,503.12	5,757.53	0.00	0.00	0.00
8,300.00	90.24	262.019	3,007.59	-1,723.89	-5,602.15	5,856.81	0.00	0.00	0.00
8,400.00	90.24	262.019	3,007.17	-1,737.78	-5,701.18	5,956.09	0.00	0.00	0.00
8,440.91	90.24	262.019	3,007.00	-1,743.45	-5,741.69	5,996.71	0.00	0.00	0.00
8,500.00	90.24	262.019	3,006.75	-1,751.66	-5,800.22	6,055.38	0.00	0.00	0.00
8,600.00	90.24	262.019	3,006.33	-1,765.54	-5,899.25	6,154.66	0.00	0.00	0.00
8,700.00	90.24	262.019	3,005.91	-1,779.43	-5,998.28	6,253.95	0.00	0.00	0.00
8,800.00	90.24	262.019	3,005.49	-1,793.31	-6,097.31	6,353.23	0.00	0.00	0.00
8,900.00	90.24	262.019	3,005.08	-1,807.19	-6,196.34	6,452.51	0.00	0.00	0.00
9,000.00	90.24	262.019	3,004.66	-1,821.08	-6,295.37	6,551.80	0.00	0.00	0.00
9,100.00	90.24	262.019	3,004.24	-1,834.96	-6,394.40	6,651.08	0.00	0.00	0.00
9,200.00	90.24	262.019	3,003.82	-1,848.85	-6,493.43	6,750.36	0.00	0.00	0.00
9,300.00	90.24	262.019	3,003.40	-1,862.73	-6,592.46	6,849.65	0.00	0.00	0.00
9,400.00	90.24	262.019	3,002.98	-1,876.61	-6,691.49	6,948.93	0.00	0.00	0.00
9,500.00	90.24	262.019	3,002.56	-1,890.50	-6,790.52	7,048.22	0.00	0.00	0.00
9,600.00	90.24	262.019	3,002.14	-1,904.38	-6,889.55	7,147.50	0.00	0.00	0.00
9,700.00	90.24	262.019	3,001.72	-1,918.27	-6,988.58	7,246.78	0.00	0.00	0.00
9,800.00	90.24	262.019	3,001.30	-1,932.15	-7,087.61	7,346.07	0.00	0.00	0.00
9,900.00	90.24	262.019	3,000.88	-1,946.03	-7,186.64	7,445.35	0.00	0.00	0.00
10,000.00	90.24	262.019	3,000.46	-1,959.92	-7,285.67	7,544.63	0.00	0.00	0.00
10,100.00	90.24	262.019	3,000.04	-1,973.80	-7,384.70	7,643.92	0.00	0.00	0.00
10,200.00	90.24	262.019	2,999.62	-1,987.69	-7,483.74	7,743.20	0.00	0.00	0.00
10,240.91	90.24	262.019	2,999.45	-1,993.37	-7,524.25	7,783.82	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SJ 249H LP	0.00	0.000	3,005.00	-339.29	-1,051.91	2,182,175.10	573,300.00	36.996728	-107.582330
- plan misses target center by 144.30ft at 3500.00ft MD (2962.69 TVD, -468.83 N, -1004.47 E)									
- Point									
SJ 249H BHL	0.00	0.000	3,007.00	-1,743.45	-5,741.69	2,180,758.40	568,614.00	36.992870	-107.598389
- plan hits target center									
- Point									
SJ 249H CP1	0.00	0.000	3,012.00	-977.00	-2,430.83	2,181,533.70	571,922.80	36.994976	-107.587052
- plan hits target center									
- Point									
SJ 249H CP2	0.00	0.000	3,014.00	-1,511.67	-4,088.47	2,180,994.60	570,266.60	36.993507	-107.592728
- plan hits target center									
- Point									

C-102

Submit Electronically Via OCD Permitting

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

Revised July 9, 2024

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

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-045-35886	71629	BASIN FRUITLAND COAL

Property Code	Property Name	Well Number
	SAN JUAN 32-7 UNIT	249H

OGRID No.	Operator Name	Ground Level Elevation
372171	HILCORP ENERGY COMPANY	6339'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Mineral Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal

Surface Location

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County
L	9	32N	7W		2654' SOUTH	421' WEST	36.997664 °N	-107.579338 °W	SAN JUAN

Bottom Hole Location

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County
J	7	32N	7W		1559' SOUTH	1647' EAST	36.992186 °N	-107.605103 °W	SAN JUAN

Dedicated Acres	Penetrated Spacing Unit	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit	Consolidation Code
482.24	SE/4 - Section 7 S/2 - Section 8	Defining		☐ Yes ☒ No	Unit

Order Numbers

Well setbacks are under Common Ownership: ☒ Yes ☐ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County
L	9	32N	7W		2654' SOUTH	421' WEST	36.997664 °N	-107.579338 °W	SAN JUAN

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County
I	8	32N	7W		2252' SOUTH	490' EAST	36.996431 °N	-107.582635 °W	SAN JUAN

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County
J	7	32N	7W		1559' SOUTH	1647' EAST	36.992186 °N	-107.605103 °W	SAN JUAN

Unitized Area or Area of Uniform Interest	Spacing Unit Type	Ground Floor Elevation
SAN JUAN 32-7 UNIT	☒ Horizontal ☐ Vertical ☐ Directional	

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Signature

6/16/2025
Date

Amanda Walker
Printed Name

mwalker@hilcorp.com
E-mail Address

SURVEYOR CERTIFICATION

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.

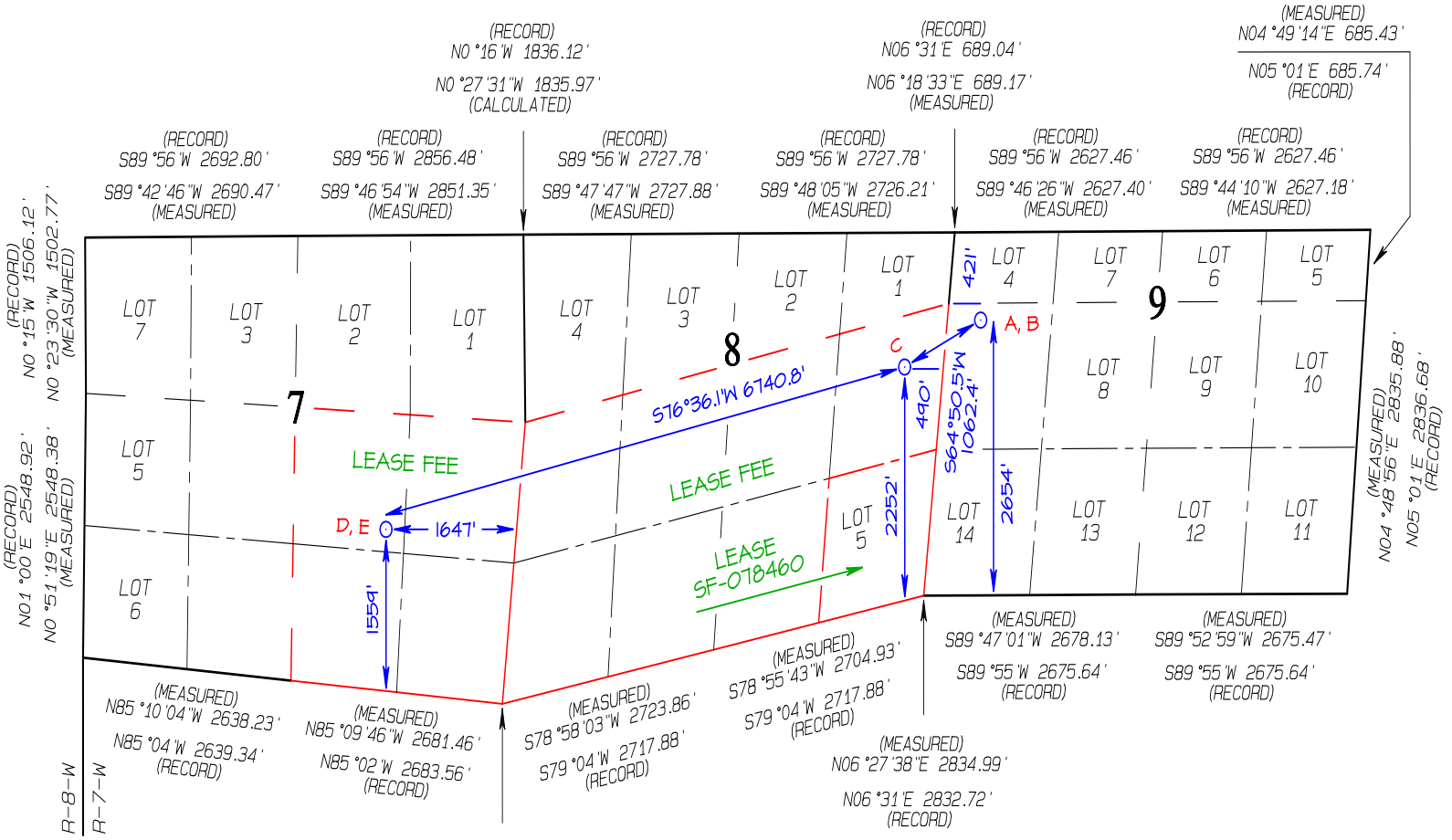
JASON C. EDWARDS
NEW MEXICO
15269
6/12/2025
REGISTERED PROFESSIONAL SURVEYOR

JASON C. EDWARDS

Signature and Seal of Professional Surveyor

Certificate Number	Date of Survey
15269	JUNE 13, 2018

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.



BOTTOM HOLE LOCATION (E)
1559' FSL 1647' FEL
SECTION 7, T32N, R7W
LAT 36.992182 °N
LONG -107.604492 °W
DATUM: NAD1927

LAT 36.992186 °N
LONG -107.605103 °W
DATUM: NAD1983

LAST TAKE POINT (D)
1559' FSL 1647' FEL
SECTION 7, T32N, R7W
LAT 36.992182 °N
LONG -107.604492 °W
DATUM: NAD1927

LAT 36.992186 °N
LONG -107.605103 °W
DATUM: NAD1983

FIRST TAKE POINT (C)
2252' FSL 490' FEL
SECTION 8, T32N, R7W
LAT 36.996427 °N
LONG -107.582025 °W
DATUM: NAD1927

LAT 36.996431 °N
LONG -107.582635 °W
DATUM: NAD1983

KICK OFF POINT (B)
2654' FSL 421' FWL
SECTION 9, T32N, R7W
LAT 36.997660 °N
LONG -107.578728 °W
DATUM: NAD1927

LAT 36.997664 °N
LONG -107.579338 °W
DATUM: NAD1983

SURFACE LOCATION (A)
2654' FSL 421' FWL
SECTION 9, T32N, R7W
LAT 36.997660 °N
LONG -107.578728 °W
DATUM: NAD1927

LAT 36.997664 °N
LONG -107.579338 °W
DATUM: NAD1983

San Juan County, NM San Juan 32-7 Unit 249H

Hilcorp Energy Company

Technical Drilling Plan (Rev. 4)

Hilcorp Energy Company proposes to drill and complete the referenced horizontal well targeting a coal seam in the Fruitland formation.

Note: This technical drilling plan will be adjusted based upon actual conditions.

1. Location

Date:	June 16, 2025	Pool:	Basin Fruitland Coal
Well Name:	San Juan 32-7 Unit 249H	Ground Elevation (ft. MSL):	6,339’
Surface Hole Location:	36.997660° N, 107.578728° W	Total Depth (ft. TMD/TVD)	10,241’ / 2,999’
Bottom Hole Location:	36.992182° N, 107.604492° W	County, State:	San Juan County, NM

Note: All geographic coordinates on the drilling tech plan and the directional drilling plan refer to NAD 27 geodetic coordinate system. All depths on the drilling tech plan and the directional drilling plan are referenced from an estimated RKB datum of 17’ above ground level.

2. Geological Markers

Anticipated formation tops with comments of any possible water, gas or oil shows are indicated below:

Formation	Depth (ft. TVD)	Remarks
Ojo Alamo	1,801	Water (fresh/useable)
Kirtland	2,013	None
Fruitland Coal	2,723	Gas, Water
Pictured Cliffs	3,121	None

3. Pressure Control Equipment

A. BOP Equipment

See Appendix A for BOP equipment and choke manifold diagram.

- BOP equipment will be nippled up on top of the wellhead after surface casing is set and cemented.
- Pressure control configurations will be designed to meet the minimum 2M standards.
- All equipment will have 3M pressure rating at a minimum.
- A rotating head will be installed on top of the annular as seen in the attached diagram.

B. BOP Pressure Testing

- For all BOP pressure testing, a test unit with a chart recorder and a BOP test plug will be utilized.
- All tests and inspections will be recorded and logged with time and results.
- A full BOP pressure test will be conducted when initially installed or if a seal subject to test pressure is broken, following related repairs, and at a minimum in 30-day intervals.
- The New Mexico Oil & Gas Conservation Division and the BLM will be notified 24 hours in advance of pressure testing BOPE.
- The BOPE will be tested to 250 psi (Low) for 5 minutes and 3,000 psi (High) for 10 minutes.

C. BOP Function Testing

- Annular preventors will be functionally tested at least once per week.
- Pipe and blind rams will be function tested each trip.

D. Casing Pressure Testing

- For all casing pressure testing, a test unit with a chart recorder will be utilized.
- Surface casing will be pressure tested to 600 psi for 30 minutes.
- Intermediate casing will be pressure tested to 1,500 psi for 30 minutes.

4. Casing Program

A. Proposed Casing Program:

Proposed Casing Design							
Casing String	Hole Size	Casing (size/weight/grade)	Top Depth (MD/TVD)	Btm. Depth (MD/TVD)	Collapse	Burst	Tensile
Surface	12-1/4"	9-5/8"-32.3#-H40 (or equiv.)-LTC/BTC	0'	300'/300'	1,370 psi	2,270 psi	254 klbs
Intermediate	8-3/4"	7"-23#-J55 (or equiv.)-LTC/BTC	0'	4,065'/3,203'	3,270 psi	4,360 psi	366 klbs
Intermediate Shoe Joint	8-3/4"	5-1/2"-15.5#-J55 (or equiv.)-LTC/BTC	4,065'/3,203'	4,107'/3,221'	4,040 psi	4,810 psi	217 klbs
Production Liner (Pre-Perforated)	6-1/4"	4-1/2"-11.6#-J55 (or equiv.)-LTC/BTC	3,460'/2,947'	10,241'/2,999'	4,960 psi	5,350 psi	184 klbs

Proposed Casing Design Safety Factors				
Casing String	Burst Design SF	Collapse Design SF	Joint Tensile Design SF	Connection Tensile Design SF
Surface	16.2	12.4	43.7	30.4
Intermediate	2.8	2.6	4.6	5.4
Int. Shoe Joint	3.0	3.2	4.7	4.1
Production	3.4	3.9	1.5	1.5

B. Casing Design Parameters & Calculations (*designed for full wellbore evacuation*):

- Mud Weights used for calculations:

Surface:	9.0 ppg	Intermediate:	9.5 ppg	Production:	10.0 ppg

- Minimum Acceptable Safety Factors:

Burst:	1.15	Collapse:	1.15	Tensile:	1.50

- Casing Safety Factor Calculations:

$$Casing\ Burst\ Safety\ Factor = \frac{Casing\ Burst\ Rating(psi)}{Maximum\ Mud\ Weight\ (ppg) \times TVD(ft) \times 0.052}$$

$$Casing\ Collapse\ Safety\ Factor = Hydrostatic\ of\ Mud\ Weight\ in\ Annulus(psi) - \left[TVD\ of\ Casing\ Shoe\ (ft) \times 0.10\frac{psi}{ft}\right]$$

$$Tensile\ Safety\ Factor = \frac{Tensile\ Rating\ of\ Casing\ String\ (lbs)}{Measured\ Depth\ of\ Casing(ft) \times Casing\ Weight\ \frac{lb}{ft} \times DrillingFluid\ Bouyancy\ Factor}$$

Production Casing Notes:

- The pre-perforated production liner will be dropped off in the open hole (uncemented). The top of the production liner will be ~10' outside of the casing exit (no overlap between the liner and 7" casing).
- The production liner length and setting depth depending on final TD of the 6-1/4" hole section.
- The 7" casing will be set across the setback boundary line and with the casing shoe within the drill block.

5. Proposed Centralizer Program:

Proposed Centralizer Program	
Casing String	Centralizers & Placement
Surface Casing	1 centralizer per joint on bottom 3 joints.
Intermediate Casing	1 centralizer per joint in shoe track with lock collars. 1 centralizer every other joint on bottom 10 joints. 1 centralizer every 3rd joint up to the base of Ojo Alamo. 1 centralizer per joint from base of Ojo Alamo to the top of the Ojo Alamo. 1 centralizer every 3rd joint from top of Ojo Alamo to surface.
Production Casing	N/A

6. Proposed Cement Program:

Proposed Cement Design								
Interval	Depth (ft. MD)	Lead/Tail	Volume (ft^3)	Sacks	Excess (%)	Slurry	Density (ppg)	Planned TOC
Surface	300’	Lead	188 ft^3	136	100%	Class G Cement Yield: 1.38 ft^3/sk	14.6	Surface
		Slurry Additives: CaCl (1%), Cello Flake (0.25 lb/sk), CD-2 (0.2%)						
Intermediate	4,107	Lead	798 ft^3	156	50%	ASTM Type IL Yield: 5.12 ft^3/sk	9.5	Surface
		Slurry Additives: FL-24 (0.5%), FL-66 (0.5%), IntegraGuard GW-86 (0.2%), IntegraSeal PHENO (2.0 lb/sk), IntegraSeal POLI (0.25 lb/sk), LW-5E (50.0%), R-3 (0.4%), S-8 Silica Flour (35.0%), XCem-311 (0.3%)						
		Tail	113 ft^3	82	50%	ASTM Type IL Yield: 1.38 ft^3/sk	14.6	3,607’
		Slurry Additives: $CaCl_2$ (3.0%), Celloflake (0.25 lb/sk), LCM-1 (5 ppm), FL-52 (0.4%), Bentonite (8%), SMS (0.4%)						
Production	10,241’	N/A	N/A	N/A	N/A	N/A – Uncemented pre-perforated liner.	N/A	N/A

Cement Program Notes:

- The cement slurry additives may be adjusted to accommodate required pump and compressive test times.
- Actual cement volumes will be determined and may be adjusted onsite based on well conditions.
- For the intermediate hole section, a 2-stage or 3-stage cement job may be performed if hole conditions dictate. If needed, the stage tool(s) will be placed appropriately.
- Cement will be circulated to surface on surface and intermediate casing sections to protect water bearing zones.
- A minimum of 8 hours of wait on cement time will be observed on each hole section to allow adequate time for cement to achieve a minimum of 500 psi of compressive strength. The BOP will not be nippled down, the wellhead will not be installed, the casing will not be tested and the prior casing shoe will not be drilled out until adequate wait on cement time has been observed (8 hours or time to reach 500 psi compressive strength).

7. Drilling Fluids Program

A. Proposed Drilling Fluids Program:

Proposed Drilling Fluids Program					
Interval	Fluid Type	Density	Fluid Loss	Maximum Chlorides	Depth
		(ppg)	(mL/30 min)	(ppm)	(ft. MD)
Surface	Water/Gel	8.4 – 9.2	NC	1,000	0' – 300'
Intermediate	LSND / Gel	8.4 – 9.2	6-16	5,000	300' – 4,107'
Production	LSND / Gel	8.4 – 9.2	6-16	5,000	3,491' – 10,241'

Drilling Fluids Notes:

- In the 6-1/4" production hole section, CaCl2 brine will only be utilized if a weighting agent is necessary for either well control or wellbore stability.
- Lost circulation material may be added to the mud systems to manage fluid losses as hole conditions dictate.
- The well will be drilled utilizing a closed-loop circulating system. Drill cuttings for all hole sections will be transported to an approved disposal site.
- Estimated total volume of drill cuttings for disposal: 585 bbls (3,286 ft^3).

8. Estimated Pressures & Drilling Hazards

A. Estimated Pressures

- Fruitland Coal: 650 – 750 psi
- Pictured Cliffs: 780 psi

- No abnormal temperatures or drilling hazards are anticipated.
- Maximum anticipated surface pressure is 500 psi.

B. Water Flows

- Water flows are possible in the intermediate section. Water flows will be mitigated with increased mud weight.

C. Lost Circulation

- Lost circulation is possible in the intermediate and production sections. Losses will be mitigated by utilizing LCM in the mud system.

D. Hydrogen Sulfide

- No hydrogen sulfide is expected to be encountered based on nearby well production.

9. Pilot Hole

- The 8-3/4" hole will serve as a pilot hole. The hole section will be drilled to a measured depth of 4,107' and cased with 7" casing. A whipstock will be set at ~3,491' to enable a window to be cut into the 7" casing and the 6-1/4" production hole to be drilled. After dropping off the pre-perforated liner in the production section, the whipstock will be retrieved.

10. Testing, Logging, Coring

A. Mud Logging

- Mud loggers will collect formation samples every 60' from the surface casing shoe to both the TD of the pilot hole and TD of the production hole.

B. MWD

- Measurement while drilling tools will be utilized from the surface casing shoe to TD of the production hole to measure and record inclination and azimuth.

C. LWD

- Logging while drilling tools (gamma ray) will be utilized in the intermediate section from the surface casing shoe to the pilot hole section TD.

- Logging while drilling tools (gamma ray) will be utilized while drilling the production section from the intermediate casing kick-off to the production hole section TD to assist in staying in the desired coal seam while drilling the lateral section.

D. Open Hole Logging

- There are no plans to open hole log the well.

E. Coring & Formation Testing

- There are no plans for coring or formation testing.

F. Cased Hole Logging

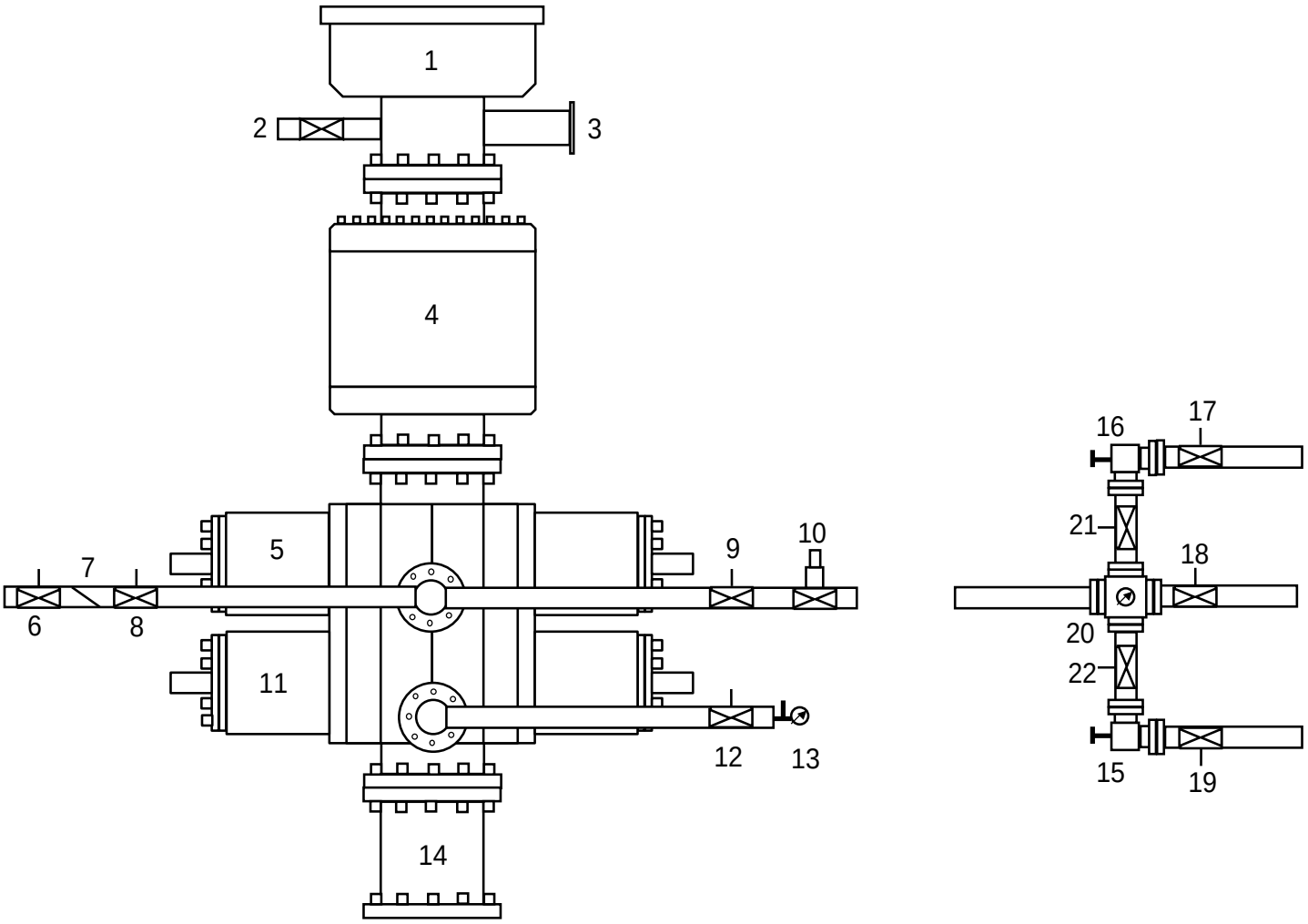
- The 7" intermediate casing will be cemented to surface to protect water bearing zones. If cement is not circulated to surface on the intermediate cement job, a cement bod log will be run to verify top of cement.

11. Directional Drilling Plan

- The well is planned as a directional wellbore. Surveys will be monitored to ensure adherence to the planned wellpath.
- The directional plan is attached in the APD application.
- The directional plan is built from geologic targets from offset wells and lease boundaries. The production hole section will be landed and drilled horizontally within the target formation utilizing LWD tools to steer the wellbore. On-site adjustments to the directional plan will be made and formation and wellbore dictate.

Appendix A

11” 3M BOP & 3M Choke Manifold Configuration



1	Rotating Head	12	Manual Isolation Valve
2	Fill-Up Line	13	Needle Valve & Pressure Gauge
3	Flow Line	14	Spacer Spool (if needed)
4	3M Annular Preventer	15	Manual Choke
5	3M Pipe Rams	16	Hydraulicly Operated Choke
6	Manual Isolation Valve	17	Manual Isolation Valve
7	Check Valve	18	Manual Isolation Valve
8	Manual Isolation Valve	19	Manual Isolation Valve
9	Manual Isolation Valve	20	Valve Block & Pressure Gauge
10	High Closing Ratio Valve	21	Manual Isolation Valve
11	3M Blind Rams	22	Manual Isolation Valve

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 478589

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 478589
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
dmcclure	Approval is based off the TVD associated with the directional plan as the TVD listed on the casing plan does not match it.	7/3/2025
dmcclure	8-3/4 casing shall be set within the FLC formation.	7/3/2025
dmcclure	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	7/3/2025
dmcclure	Cement shall be circulated to surface for both surface and 8-3/4 casing strings.	7/3/2025