

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: Hilcorp Energy Company	OGRID: 372171
Property Name and Well Number: San Juan 32-7 602 Federal Com 603H	Property Code: 335848
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	API Number: 30-045-38341
Pool Name: Basin Mancos	Pool Code: 97232

Section 2 – Surface Location

UL M	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	26	32N	07W		1059' S	259' W	36.947363	-107.544651	San Juan

Section 3 – Completion Information

Producing Method Flowing	Ready Date 11/10/2024	Perforations MD 7,982' – 17,844'	Perforations TVD 7,329' – 7,325'
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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): 394953	Communitization Agreement ☐ Yes ☒ No, Order No.
Surface Casing Action ID: 383677	Unit: ☐ Yes ☒ No, Order No.
Intermediate 1 Casing Action ID: 383677	Compulsory Pooling: ☐ Yes ☒ No, Order No.
Intermediate 2 Casing Action ID:	Down Hole Commingling: ☐ Yes ☒ No, Order No.
Production Casing Action ID: 383677	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): NO	Simultaneous Dedication: ☐ Yes ☒ No, Order No.

Section 5 - Operator Signature and Certification

☒ I hereby certify that the required Water Use Report has been, or will be, submitted for this well's completion.	
☒ I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well's 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.	
Name 	
Title: Operations Regulatory Tech Sr.	Date 12/18/2024



Survey Certification

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

Operator	HilCorp Energy
Well Name & No.	San Juan 32 7 602 Federal Com 603H OH
API #	30-045-38341
County & State	San Juan County, NM
SDI Job #	OP.045137
Rig	Nabors B29
Survey Date	7/4/2024 to 7/13/2024
GL & KB Elevation	GL 6748 & KB 25.1' = 6773.1'

I, Janie Collins, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 462 feet to a measured depth of 6,511 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

1-Oct-2024

Date

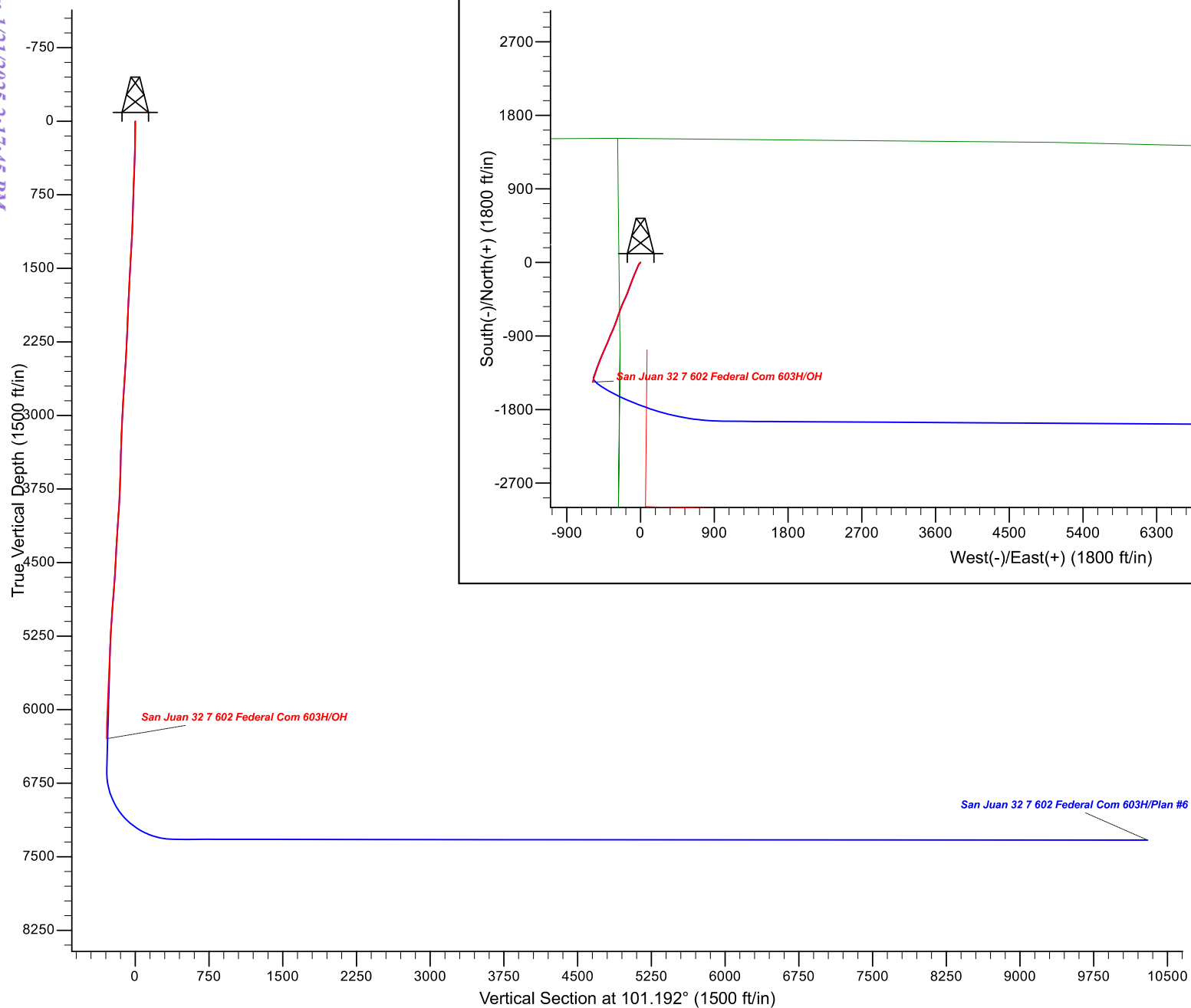
Janie Collins

Rockies Region Well Planner
Scientific Drilling - Rocky Mountain District



WELL DETAILS: San Juan 32 7 602 Federal Com 603H

GL 6748' & RKB 25.1' @ 6773.10ft (Nabors B29) 6748.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	2164297.20	2807447.43	36.9473630	-107.5446510



Company Name: Hilcorp Energy - San Juan Basin
 Project: San Juan, NM NAD83
 Site: Burnt Mesa Pad
 Well: San Juan 32 7 602 Federal Com 603H
 Wellbore: OH

PROJECT DETAILS: San Juan, NM 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: 11:52, October 25 2024



Hilcorp Energy - San Juan Basin

San Juan, NM NAD83

Burnt Mesa Pad

San Juan 32 7 602 Federal Com 603H

OH

Design: OH

Standard Survey Report

25 October, 2024



www.scientificdrilling.com





Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 32 7 602 Federal Com 603H
Project:	San Juan, NM NAD83	TVD Reference:	GL 6748' & RKB 25.1' @ 6773.10ft (Nabors B29)
Site:	Burnt Mesa Pad	MD Reference:	GL 6748' & RKB 25.1' @ 6773.10ft (Nabors B29)
Well:	San Juan 32 7 602 Federal Com 603H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction

Project	San Juan, NM 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	Burnt Mesa Pad				
Site Position:		Northing:	2,164,372.20 usft	Latitude:	36.9475690
From:	Lat/Long	Easting:	2,807,446.32 usft	Longitude:	-107.5446540
Position Uncertainty:	0.00 ft	Slot Radius:	13.20 in	Grid Convergence:	0.17 °

Well	San Juan 32 7 602 Federal Com 603H					
Well Position	+N/-S	0.00 ft	Northing:	2,164,297.20 usft	Latitude:	36.9473630
	+E/-W	0.00 ft	Easting:	2,807,447.43 usft	Longitude:	-107.5446510
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,748.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2024	7/3/2024	8.57	63.28	49,307.00000000

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	101.192	

Survey Program	Date	10/23/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
462.00	2,375.00	Survey #1 - Surface (OH)	MWD+HDGM	OWSG MWD + HDGM	
2,469.00	6,511.00	Survey #2 - Intermediate (OH)	MWD+HDGM	OWSG MWD + HDGM	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
462.00	3.68	224.770	461.68	-10.53	-10.45	-8.20	0.80	0.80	0.00	
522.00	4.29	224.210	521.54	-13.51	-13.37	-10.49	1.02	1.02	-0.93	
611.00	5.67	216.860	610.20	-19.41	-18.33	-14.21	1.71	1.55	-8.26	
701.00	6.74	211.530	699.67	-27.47	-23.75	-17.97	1.35	1.19	-5.92	
791.00	7.40	205.120	788.99	-37.22	-28.98	-21.20	1.14	0.73	-7.12	
881.00	8.70	200.150	878.10	-48.86	-33.78	-23.66	1.64	1.44	-5.52	
970.00	10.10	199.380	965.90	-62.54	-38.69	-25.82	1.58	1.57	-0.87	
1,060.00	11.17	200.430	1,054.36	-78.15	-44.35	-28.34	1.21	1.19	1.17	
1,153.00	12.39	202.410	1,145.40	-95.82	-51.30	-31.73	1.38	1.31	2.13	



Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 32 7 602 Federal Com 603H
Project:	San Juan, NM NAD83	TVD Reference:	GL 6748' & RKB 25.1' @ 6773.10ft (Nabors B29)
Site:	Burnt Mesa Pad	MD Reference:	GL 6748' & RKB 25.1' @ 6773.10ft (Nabors B29)
Well:	San Juan 32 7 602 Federal Com 603H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,247.00	14.03	204.650	1,236.91	-115.50	-59.90	-36.34	1.83	1.74	2.38
1,341.00	15.16	205.170	1,327.87	-136.98	-69.88	-41.96	1.21	1.20	0.55
1,435.00	15.80	203.110	1,418.46	-159.87	-80.13	-47.57	0.90	0.68	-2.19
1,529.00	15.85	201.580	1,508.90	-183.58	-89.87	-52.53	0.45	0.05	-1.63
1,623.00	15.76	200.720	1,599.35	-207.46	-99.11	-56.96	0.27	-0.10	-0.91
1,716.00	16.17	200.770	1,688.76	-231.38	-108.17	-61.20	0.44	0.44	0.05
1,810.00	16.78	200.280	1,778.90	-256.34	-117.52	-65.53	0.67	0.65	-0.52
1,903.00	16.88	199.590	1,867.92	-281.66	-126.70	-69.62	0.24	0.11	-0.74
1,997.00	17.64	199.190	1,957.68	-307.97	-135.95	-73.59	0.82	0.81	-0.43
2,091.00	15.75	199.370	2,047.72	-333.46	-144.87	-77.39	2.01	-2.01	0.19
2,185.00	14.27	199.920	2,138.51	-356.38	-153.05	-80.96	1.58	-1.57	0.59
2,280.00	14.64	202.300	2,230.50	-378.50	-161.59	-85.05	0.74	0.39	2.51
2,375.00	14.47	202.680	2,322.45	-400.56	-170.72	-89.73	0.21	-0.18	0.40
2,469.00	14.91	202.920	2,413.38	-422.53	-179.96	-94.53	0.47	0.47	0.26
2,564.00	15.24	204.890	2,505.11	-445.12	-189.98	-99.97	0.64	0.35	2.07
2,659.00	15.21	205.640	2,596.78	-467.68	-200.62	-106.03	0.21	-0.03	0.79
2,753.00	16.09	205.010	2,687.29	-490.60	-211.47	-112.22	0.95	0.94	-0.67
2,848.00	16.28	202.920	2,778.52	-514.79	-222.22	-118.07	0.64	0.20	-2.20
2,942.00	16.57	202.980	2,868.69	-539.27	-232.58	-123.49	0.31	0.31	0.06
3,036.00	16.98	200.910	2,958.69	-564.43	-242.71	-128.54	0.77	0.44	-2.20
3,130.00	15.86	199.780	3,048.85	-589.34	-251.96	-132.78	1.24	-1.19	-1.20
3,224.00	16.82	200.190	3,139.06	-614.19	-261.00	-136.82	1.03	1.02	0.44
3,319.00	15.14	199.890	3,230.38	-638.76	-269.97	-140.85	1.77	-1.77	-0.32
3,413.00	14.62	199.150	3,321.23	-661.51	-278.03	-144.35	0.59	-0.55	-0.79
3,506.00	13.32	197.310	3,411.48	-682.83	-285.07	-147.12	1.48	-1.40	-1.98
3,600.00	11.97	195.400	3,503.20	-702.56	-290.88	-148.98	1.50	-1.44	-2.03
3,694.00	11.34	198.320	3,595.26	-720.74	-296.38	-150.85	0.92	-0.67	3.11
3,788.00	12.22	199.660	3,687.28	-738.88	-302.63	-153.46	0.98	0.94	1.43
3,845.00	12.94	200.360	3,742.91	-750.54	-306.88	-155.36	1.29	1.26	1.23
3,881.00	13.45	199.960	3,777.96	-758.26	-309.71	-156.64	1.44	1.42	-1.11
3,974.00	14.93	204.560	3,868.12	-779.32	-318.38	-161.06	2.00	1.59	4.95
4,067.00	15.94	204.770	3,957.77	-801.81	-328.71	-166.83	1.09	1.09	0.23
4,161.00	16.80	204.430	4,047.95	-825.90	-339.74	-172.97	0.92	0.91	-0.36
4,255.00	16.97	203.780	4,137.90	-850.82	-350.89	-179.07	0.27	0.18	-0.69
4,349.00	17.55	202.740	4,227.67	-876.45	-361.90	-184.90	0.70	0.62	-1.11
4,443.00	18.22	202.040	4,317.13	-903.14	-372.89	-190.50	0.75	0.71	-0.74
4,538.00	16.48	200.060	4,407.80	-929.57	-383.09	-195.38	1.93	-1.83	-2.08
4,632.00	16.82	200.330	4,497.86	-954.84	-392.39	-199.59	0.37	0.36	0.29
4,726.00	17.98	202.310	4,587.56	-981.02	-402.62	-204.55	1.39	1.23	2.11
4,820.00	15.93	203.810	4,677.47	-1,006.25	-413.34	-210.16	2.23	-2.18	1.60
4,914.00	17.46	203.730	4,767.50	-1,030.96	-424.22	-216.04	1.63	1.63	-0.09
5,008.00	18.77	205.690	4,856.84	-1,057.50	-436.45	-222.89	1.54	1.39	2.09
5,102.00	17.71	205.130	4,946.12	-1,084.07	-449.08	-230.12	1.14	-1.13	-0.60



Scientific Drilling
Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 32 7 602 Federal Com 603H
Project:	San Juan, NM NAD83	TVD Reference:	GL 6748' & RKB 25.1' @ 6773.10ft (Nabors B29)
Site:	Burnt Mesa Pad	MD Reference:	GL 6748' & RKB 25.1' @ 6773.10ft (Nabors B29)
Well:	San Juan 32 7 602 Federal Com 603H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,196.00	16.43	204.970	5,035.97	-1,109.07	-460.76	-236.73	1.36	-1.36	-0.17
5,289.00	16.97	203.100	5,125.05	-1,133.47	-471.64	-242.67	0.82	0.58	-2.01
5,383.00	16.30	202.160	5,215.12	-1,158.31	-482.00	-248.01	0.77	-0.71	-1.00
5,476.00	16.37	200.070	5,304.36	-1,182.71	-491.42	-252.51	0.64	0.08	-2.25
5,570.00	16.55	199.310	5,394.51	-1,207.78	-500.39	-256.45	0.30	0.19	-0.81
5,663.00	17.44	199.520	5,483.45	-1,233.42	-509.43	-260.34	0.96	0.96	0.23
5,758.00	17.33	198.440	5,574.11	-1,260.26	-518.66	-264.18	0.36	-0.12	-1.14
5,851.00	17.21	198.480	5,662.92	-1,286.45	-527.40	-267.68	0.13	-0.13	0.04
5,945.00	18.41	199.280	5,752.41	-1,313.65	-536.71	-271.53	1.30	1.28	0.85
6,040.00	18.08	198.540	5,842.64	-1,341.79	-546.35	-275.52	0.42	-0.35	-0.78
6,134.00	17.04	199.160	5,932.25	-1,368.63	-555.51	-279.30	1.12	-1.11	0.66
6,229.00	16.48	198.270	6,023.22	-1,394.57	-564.30	-282.89	0.65	-0.59	-0.94
6,323.00	15.84	197.580	6,113.50	-1,419.46	-572.36	-285.96	0.71	-0.68	-0.73
6,417.00	14.29	195.710	6,204.27	-1,442.86	-579.37	-288.30	1.73	-1.65	-1.99
6,511.00	14.10	194.690	6,295.40	-1,465.10	-585.42	-289.91	0.33	-0.20	-1.09

Checked By: _____

Approved By: _____

Date: _____



Survey Certification

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

Operator	<u>HilCorp Energy</u>
Well Name & No.	<u>San Juan 32 7 602 Federal Com 603H ST1</u>
API #	<u>30-045-38341</u>
County & State	<u>San Juan County, NM</u>
SDI Job #	<u>OP.045137</u>
Rig	<u>Nabors B29</u>
Survey Date	<u>7/13/2024 to 9/3/2024</u>
GL & KB Elevation	<u>GL 6748 & KB 25.1' = 6773.1'</u>

I, Janie Collins, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 5469 feet to a measured depth of 17,937 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

1-Oct-2024

Date

Janie Collins

Rockies Region Well Planner
Scientific Drilling - Rocky Mountain District



Hilcorp Energy - San Juan Basin

San Juan, NM NAD83

Burnt Mesa Pad

San Juan 32 7 602 Federal Com 603H

ST1

Design: ST1

Standard Survey Report

25 October, 2024



www.scientificdrilling.com





Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 32 7 602 Federal Com 603H
Project:	San Juan, NM NAD83	TVD Reference:	GL 6748' & RKB 25.1' @ 6773.10ft (Nabors B29)
Site:	Burnt Mesa Pad	MD Reference:	GL 6748' & RKB 25.1' @ 6773.10ft (Nabors B29)
Well:	San Juan 32 7 602 Federal Com 603H	North Reference:	True
Wellbore:	ST1	Survey Calculation Method:	Minimum Curvature
Design:	ST1	Database:	Grand Junction

Project	San Juan, NM 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	Burnt Mesa Pad				
Site Position:		Northing:	2,164,372.20 usft	Latitude:	36.9475690
From:	Lat/Long	Easting:	2,807,446.32 usft	Longitude:	-107.5446540
Position Uncertainty:	0.00 ft	Slot Radius:	13.20 in	Grid Convergence:	0.17 °

Well	San Juan 32 7 602 Federal Com 603H					
Well Position	+N/-S	0.00 ft	Northing:	2,164,297.20 usft	Latitude:	36.9473630
	+E/-W	0.00 ft	Easting:	2,807,447.43 usft	Longitude:	-107.5446510
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,748.00 ft

Wellbore	ST1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2024	7/3/2024	8.57	63.28	49,307.00000000

Design	ST1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	5,383.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	101.192	

Survey Program	Date	10/23/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
462.00	2,375.00	Survey #1 - Surface (OH)	MWD+HDGM	OWSG MWD + HDGM	
2,469.00	5,383.00	Survey #2 - Intermediate (OH)	MWD+HDGM	OWSG MWD + HDGM	
5,469.00	5,883.00	Survey #1 - Intermediate (ST1)	MWD+HDGM	OWSG MWD + HDGM	
5,907.14	6,598.20	Survey #2 - Gyro Survey (ST1)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
6,767.00	7,893.00	Survey #3 - Curve (ST1)	MWD+HDGM	OWSG MWD + HDGM	
7,987.00	17,937.00	Survey #4 - Lateral (ST1)	MWD+HDGM	OWSG MWD + HDGM	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
462.00	3.68	224.770	461.68	-10.53	-10.45	-8.20	0.80	0.80	0.00	
522.00	4.29	224.210	521.54	-13.51	-13.37	-10.49	1.02	1.02	-0.93	
611.00	5.67	216.860	610.20	-19.41	-18.33	-14.21	1.71	1.55	-8.26	
701.00	6.74	211.530	699.67	-27.47	-23.75	-17.97	1.35	1.19	-5.92	
791.00	7.40	205.120	788.99	-37.22	-28.98	-21.20	1.14	0.73	-7.12	



Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 32 7 602 Federal Com 603H
Project:	San Juan, NM NAD83	TVD Reference:	GL 6748' & RKB 25.1' @ 6773.10ft (Nabors B29)
Site:	Burnt Mesa Pad	MD Reference:	GL 6748' & RKB 25.1' @ 6773.10ft (Nabors B29)
Well:	San Juan 32 7 602 Federal Com 603H	North Reference:	True
Wellbore:	ST1	Survey Calculation Method:	Minimum Curvature
Design:	ST1	Database:	Grand Junction

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
881.00	8.70	200.150	878.10	-48.86	-33.78	-23.66	1.64	1.44	-5.52
970.00	10.10	199.380	965.90	-62.54	-38.69	-25.82	1.58	1.57	-0.87
1,060.00	11.17	200.430	1,054.36	-78.15	-44.35	-28.34	1.21	1.19	1.17
1,153.00	12.39	202.410	1,145.40	-95.82	-51.30	-31.73	1.38	1.31	2.13
1,247.00	14.03	204.650	1,236.91	-115.50	-59.90	-36.34	1.83	1.74	2.38
1,341.00	15.16	205.170	1,327.87	-136.98	-69.88	-41.96	1.21	1.20	0.55
1,435.00	15.80	203.110	1,418.46	-159.87	-80.13	-47.57	0.90	0.68	-2.19
1,529.00	15.85	201.580	1,508.90	-183.58	-89.87	-52.53	0.45	0.05	-1.63
1,623.00	15.76	200.720	1,599.35	-207.46	-99.11	-56.96	0.27	-0.10	-0.91
1,716.00	16.17	200.770	1,688.76	-231.38	-108.17	-61.20	0.44	0.44	0.05
1,810.00	16.78	200.280	1,778.90	-256.34	-117.52	-65.53	0.67	0.65	-0.52
1,903.00	16.88	199.590	1,867.92	-281.66	-126.70	-69.62	0.24	0.11	-0.74
1,997.00	17.64	199.190	1,957.68	-307.97	-135.95	-73.59	0.82	0.81	-0.43
2,091.00	15.75	199.370	2,047.72	-333.46	-144.87	-77.39	2.01	-2.01	0.19
2,185.00	14.27	199.920	2,138.51	-356.38	-153.05	-80.96	1.58	-1.57	0.59
2,280.00	14.64	202.300	2,230.50	-378.50	-161.59	-85.05	0.74	0.39	2.51
2,375.00	14.47	202.680	2,322.45	-400.56	-170.72	-89.73	0.21	-0.18	0.40
2,469.00	14.91	202.920	2,413.38	-422.53	-179.96	-94.53	0.47	0.47	0.26
2,564.00	15.24	204.890	2,505.11	-445.12	-189.98	-99.97	0.64	0.35	2.07
2,659.00	15.21	205.640	2,596.78	-467.68	-200.62	-106.03	0.21	-0.03	0.79
2,753.00	16.09	205.010	2,687.29	-490.60	-211.47	-112.22	0.95	0.94	-0.67
2,848.00	16.28	202.920	2,778.52	-514.79	-222.22	-118.07	0.64	0.20	-2.20
2,942.00	16.57	202.980	2,868.69	-539.27	-232.58	-123.49	0.31	0.31	0.06
3,036.00	16.98	200.910	2,958.69	-564.43	-242.71	-128.54	0.77	0.44	-2.20
3,130.00	15.86	199.780	3,048.85	-589.34	-251.96	-132.78	1.24	-1.19	-1.20
3,224.00	16.82	200.190	3,139.06	-614.19	-261.00	-136.82	1.03	1.02	0.44
3,319.00	15.14	199.890	3,230.38	-638.76	-269.97	-140.85	1.77	-1.77	-0.32
3,413.00	14.62	199.150	3,321.23	-661.51	-278.03	-144.35	0.59	-0.55	-0.79
3,506.00	13.32	197.310	3,411.48	-682.83	-285.07	-147.12	1.48	-1.40	-1.98
3,600.00	11.97	195.400	3,503.20	-702.56	-290.88	-148.98	1.50	-1.44	-2.03
3,694.00	11.34	198.320	3,595.26	-720.74	-296.38	-150.85	0.92	-0.67	3.11
3,788.00	12.22	199.660	3,687.28	-738.88	-302.63	-153.46	0.98	0.94	1.43
3,845.00	12.94	200.360	3,742.91	-750.54	-306.88	-155.36	1.29	1.26	1.23
3,881.00	13.45	199.960	3,777.96	-758.26	-309.71	-156.64	1.44	1.42	-1.11
3,974.00	14.93	204.560	3,868.12	-779.32	-318.38	-161.06	2.00	1.59	4.95
4,067.00	15.94	204.770	3,957.77	-801.81	-328.71	-166.83	1.09	1.09	0.23
4,161.00	16.80	204.430	4,047.95	-825.90	-339.74	-172.97	0.92	0.91	-0.36
4,255.00	16.97	203.780	4,137.90	-850.82	-350.89	-179.07	0.27	0.18	-0.69
4,349.00	17.55	202.740	4,227.67	-876.45	-361.90	-184.90	0.70	0.62	-1.11
4,443.00	18.22	202.040	4,317.13	-903.14	-372.89	-190.50	0.75	0.71	-0.74
4,538.00	16.48	200.060	4,407.80	-929.57	-383.09	-195.38	1.93	-1.83	-2.08
4,632.00	16.82	200.330	4,497.86	-954.84	-392.39	-199.59	0.37	0.36	0.29
4,726.00	17.98	202.310	4,587.56	-981.02	-402.62	-204.55	1.39	1.23	2.11
4,820.00	15.93	203.810	4,677.47	-1,006.25	-413.34	-210.16	2.23	-2.18	1.60



Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 32 7 602 Federal Com 603H
Project:	San Juan, NM NAD83	TVD Reference:	GL 6748' & RKB 25.1' @ 6773.10ft (Nabors B29)
Site:	Burnt Mesa Pad	MD Reference:	GL 6748' & RKB 25.1' @ 6773.10ft (Nabors B29)
Well:	San Juan 32 7 602 Federal Com 603H	North Reference:	True
Wellbore:	ST1	Survey Calculation Method:	Minimum Curvature
Design:	ST1	Database:	Grand Junction

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,914.00	17.46	203.730	4,767.50	-1,030.96	-424.22	-216.04	1.63	1.63	-0.09
5,008.00	18.77	205.690	4,856.84	-1,057.50	-436.45	-222.89	1.54	1.39	2.09
5,102.00	17.71	205.130	4,946.12	-1,084.07	-449.08	-230.12	1.14	-1.13	-0.60
5,196.00	16.43	204.970	5,035.97	-1,109.07	-460.76	-236.73	1.36	-1.36	-0.17
5,289.00	16.97	203.100	5,125.05	-1,133.47	-471.64	-242.67	0.82	0.58	-2.01
5,383.00	16.30	202.160	5,215.12	-1,158.31	-482.00	-248.01	0.77	-0.71	-1.00
5,469.00	16.19	200.130	5,297.69	-1,180.74	-490.68	-252.16	0.67	-0.13	-2.36
5,563.00	16.30	199.760	5,387.93	-1,205.46	-499.65	-256.17	0.16	0.12	-0.39
5,657.00	16.78	201.160	5,478.04	-1,230.53	-509.00	-260.48	0.66	0.51	1.49
5,750.00	15.36	199.690	5,567.41	-1,254.65	-518.00	-264.62	1.59	-1.53	-1.58
5,844.00	13.21	198.830	5,658.50	-1,276.54	-525.66	-267.89	2.30	-2.29	-0.91
5,883.00	13.15	199.220	5,696.47	-1,284.95	-528.56	-269.10	0.28	-0.15	1.00
5,907.14	13.15	198.530	5,719.97	-1,290.14	-530.34	-269.84	0.65	0.00	-2.86
5,932.77	13.30	198.570	5,744.93	-1,295.70	-532.20	-270.59	0.59	0.59	0.16
5,957.22	12.88	198.440	5,768.74	-1,300.95	-533.96	-271.29	1.72	-1.72	-0.53
5,982.08	12.55	197.940	5,792.99	-1,306.15	-535.67	-271.96	1.40	-1.33	-2.01
6,007.38	11.50	199.630	5,817.73	-1,311.14	-537.36	-272.65	4.38	-4.15	6.68
6,032.87	10.68	200.740	5,842.75	-1,315.74	-539.05	-273.42	3.32	-3.22	4.35
6,057.56	10.01	200.710	5,867.04	-1,319.89	-540.62	-274.15	2.71	-2.71	-0.12
6,080.87	9.27	201.490	5,890.02	-1,323.53	-542.03	-274.82	3.22	-3.17	3.35
6,107.23	8.82	202.790	5,916.05	-1,327.37	-543.59	-275.61	1.87	-1.71	4.93
6,130.76	8.29	203.750	5,939.32	-1,330.59	-544.97	-276.34	2.33	-2.25	4.08
6,157.97	7.55	204.470	5,966.27	-1,334.01	-546.50	-277.18	2.74	-2.72	2.65
6,181.34	7.07	204.300	5,989.45	-1,336.72	-547.73	-277.86	2.06	-2.05	-0.73
6,206.43	6.72	204.850	6,014.36	-1,339.46	-548.98	-278.55	1.42	-1.39	2.19
6,232.90	6.88	199.590	6,040.64	-1,342.36	-550.16	-279.15	2.43	0.60	-19.87
6,256.54	7.06	198.200	6,064.11	-1,345.07	-551.09	-279.53	1.04	0.76	-5.88
6,282.53	6.96	200.290	6,089.90	-1,348.06	-552.13	-279.98	1.05	-0.38	8.04
6,306.79	6.49	200.470	6,113.99	-1,350.73	-553.12	-280.43	1.94	-1.94	0.74
6,332.59	6.47	198.310	6,139.63	-1,353.47	-554.09	-280.85	0.95	-0.08	-8.37
6,357.36	6.88	195.430	6,164.23	-1,356.23	-554.92	-281.13	2.14	1.66	-11.63
6,382.23	6.70	192.680	6,188.93	-1,359.08	-555.64	-281.28	1.49	-0.72	-11.06
6,406.69	6.19	195.620	6,213.23	-1,361.74	-556.31	-281.42	2.48	-2.09	12.02
6,432.13	5.84	195.690	6,238.53	-1,364.31	-557.03	-281.62	1.38	-1.38	0.28
6,457.90	5.25	195.170	6,264.18	-1,366.71	-557.69	-281.81	2.30	-2.29	-2.02
6,481.78	4.55	198.230	6,287.98	-1,368.66	-558.27	-282.00	3.13	-2.93	12.81
6,507.21	4.04	196.720	6,313.33	-1,370.48	-558.84	-282.21	2.05	-2.01	-5.94
6,531.28	3.51	200.730	6,337.35	-1,371.98	-559.35	-282.41	2.46	-2.20	16.66
6,557.90	3.09	200.580	6,363.93	-1,373.41	-559.89	-282.67	1.58	-1.58	-0.56
6,582.20	2.53	206.900	6,388.20	-1,374.51	-560.36	-282.92	2.63	-2.30	26.01
6,598.20	2.39	207.100	6,404.18	-1,375.12	-560.67	-283.11	0.88	-0.88	1.25
6,767.00	2.08	192.300	6,572.86	-1,381.24	-562.93	-284.13	0.39	-0.18	-8.77
6,861.00	11.68	163.660	6,666.08	-1,392.07	-560.61	-279.75	10.54	10.21	-30.47



Scientific Drilling Survey Report



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Project:	San Juan, NM NAD83	TVD Reference:	GL 6748' & RKB 25.1' @ 6773.10ft (Nabors B29)
Site:	Burnt Mesa Pad	MD Reference:	GL 6748' & RKB 25.1' @ 6773.10ft (Nabors B29)
Well:	San Juan 32 7 602 Federal Com 603H	North Reference:	True
Wellbore:	ST1	Survey Calculation Method:	Minimum Curvature
Design:	ST1	Database:	Grand Junction

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,954.00	20.23	163.240	6,755.42	-1,416.54	-553.31	-267.84	9.19	9.19	-0.45
7,049.00	28.65	162.740	6,841.83	-1,454.09	-541.80	-249.26	8.87	8.86	-0.53
7,143.00	36.76	156.490	6,920.88	-1,501.49	-523.86	-222.46	9.34	8.63	-6.65
7,236.00	39.96	143.970	6,993.91	-1,551.25	-495.14	-184.63	9.02	3.44	-13.46
7,330.00	45.14	131.670	7,063.25	-1,597.93	-452.39	-133.64	10.40	5.51	-13.09
7,424.00	49.62	119.550	7,127.02	-1,637.83	-396.22	-70.78	10.60	4.77	-12.89
7,517.00	55.67	109.030	7,183.52	-1,667.90	-328.92	1.07	11.09	6.51	-11.31
7,611.00	61.69	104.400	7,232.38	-1,690.88	-252.05	80.94	7.66	6.40	-4.93
7,705.00	68.10	101.560	7,272.25	-1,709.93	-169.15	165.96	7.35	6.82	-3.02
7,799.00	74.10	98.820	7,302.69	-1,725.62	-81.66	254.83	6.95	6.38	-2.91
7,893.00	82.39	95.770	7,321.82	-1,737.26	9.54	346.55	9.37	8.82	-3.24
7,987.00	89.26	94.360	7,328.66	-1,745.52	102.86	439.71	7.46	7.31	-1.50
8,080.00	89.03	94.210	7,330.05	-1,752.47	195.59	532.02	0.30	-0.25	-0.16
8,174.00	89.03	93.330	7,331.64	-1,758.65	289.37	625.22	0.94	0.00	-0.94
8,268.00	89.36	92.480	7,332.96	-1,763.41	383.24	718.23	0.97	0.35	-0.90
8,362.00	89.56	92.650	7,333.85	-1,767.62	477.15	811.16	0.28	0.21	0.18
8,456.00	89.73	92.860	7,334.43	-1,772.14	571.03	904.14	0.29	0.18	0.22
8,550.00	89.97	92.750	7,334.68	-1,776.74	664.92	997.14	0.28	0.26	-0.12
8,643.00	90.00	91.850	7,334.70	-1,780.47	757.85	1,089.02	0.97	0.03	-0.97
8,737.00	90.00	92.160	7,334.70	-1,783.76	851.79	1,181.81	0.33	0.00	0.33
8,831.00	90.03	91.930	7,334.68	-1,787.11	945.73	1,274.62	0.25	0.03	-0.24
8,925.00	90.34	91.360	7,334.37	-1,789.81	1,039.69	1,367.31	0.69	0.33	-0.61
9,019.00	90.24	90.570	7,333.90	-1,791.40	1,133.67	1,459.82	0.85	-0.11	-0.84
9,112.00	90.34	91.220	7,333.43	-1,792.85	1,226.66	1,551.32	0.71	0.11	0.70
9,206.00	90.27	90.520	7,332.93	-1,794.28	1,320.65	1,643.80	0.75	-0.07	-0.74
9,300.00	90.34	91.090	7,332.43	-1,795.60	1,414.64	1,736.25	0.61	0.07	0.61
9,393.00	90.40	90.670	7,331.83	-1,797.02	1,507.62	1,827.75	0.46	0.06	-0.45
9,488.00	90.64	89.740	7,330.96	-1,797.36	1,602.62	1,921.00	1.01	0.25	-0.98
9,582.00	90.50	89.890	7,330.03	-1,797.06	1,696.61	2,013.15	0.22	-0.15	0.16
9,675.00	90.40	90.930	7,329.30	-1,797.73	1,789.61	2,104.51	1.12	-0.11	1.12
9,770.00	90.40	91.200	7,328.64	-1,799.49	1,884.59	2,198.02	0.28	0.00	0.28
9,865.00	90.57	91.650	7,327.83	-1,801.85	1,979.55	2,291.64	0.51	0.18	0.47
9,958.00	90.50	91.570	7,326.96	-1,804.47	2,072.51	2,383.34	0.11	-0.08	-0.09
10,052.00	90.54	91.430	7,326.11	-1,806.93	2,166.48	2,476.00	0.15	0.04	-0.15
10,146.00	90.17	91.850	7,325.53	-1,809.62	2,260.44	2,568.69	0.60	-0.39	0.45
10,240.00	90.27	91.760	7,325.17	-1,812.58	2,354.39	2,661.43	0.14	0.11	-0.10
10,333.00	90.30	91.730	7,324.70	-1,815.41	2,447.34	2,753.17	0.05	0.03	-0.03
10,428.00	90.20	91.870	7,324.29	-1,818.39	2,542.30	2,846.89	0.18	-0.11	0.15
10,522.00	90.30	92.090	7,323.88	-1,821.64	2,636.24	2,939.68	0.26	0.11	0.23
10,616.00	90.20	91.590	7,323.47	-1,824.66	2,730.19	3,032.43	0.54	-0.11	-0.53
10,710.00	90.03	91.800	7,323.28	-1,827.44	2,824.15	3,125.14	0.29	-0.18	0.22
10,803.00	89.90	93.350	7,323.34	-1,831.62	2,917.05	3,217.09	1.67	-0.14	1.67
10,897.00	89.80	93.870	7,323.58	-1,837.54	3,010.86	3,310.27	0.56	-0.11	0.55



Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 32 7 602 Federal Com 603H
Project:	San Juan, NM NAD83	TVD Reference:	GL 6748' & RKB 25.1' @ 6773.10ft (Nabors B29)
Site:	Burnt Mesa Pad	MD Reference:	GL 6748' & RKB 25.1' @ 6773.10ft (Nabors B29)
Well:	San Juan 32 7 602 Federal Com 603H	North Reference:	True
Wellbore:	ST1	Survey Calculation Method:	Minimum Curvature
Design:	ST1	Database:	Grand Junction

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,990.00	89.90	93.200	7,323.83	-1,843.27	3,103.69	3,402.44	0.73	0.11	-0.72
11,084.00	89.93	92.680	7,323.97	-1,848.09	3,197.56	3,495.46	0.55	0.03	-0.55
11,179.00	90.13	91.770	7,323.92	-1,851.78	3,292.49	3,589.30	0.98	0.21	-0.96
11,273.00	90.10	92.170	7,323.73	-1,855.01	3,386.43	3,682.09	0.43	-0.03	0.43
11,367.00	90.00	91.490	7,323.65	-1,858.01	3,480.39	3,774.83	0.73	-0.11	-0.72
11,460.00	90.27	90.110	7,323.43	-1,859.31	3,573.37	3,866.30	1.51	0.29	-1.48
11,554.00	90.13	90.060	7,323.10	-1,859.45	3,667.37	3,958.54	0.16	-0.15	-0.05
11,647.00	90.27	90.130	7,322.77	-1,859.61	3,760.37	4,049.80	0.17	0.15	0.08
11,741.00	90.07	90.070	7,322.50	-1,859.77	3,854.37	4,142.05	0.22	-0.21	-0.06
11,834.00	90.27	90.280	7,322.22	-1,860.05	3,947.37	4,233.33	0.31	0.22	0.23
11,928.00	90.30	90.650	7,321.75	-1,860.82	4,041.37	4,325.69	0.39	0.03	0.39
12,022.00	90.07	90.980	7,321.45	-1,862.15	4,135.36	4,418.15	0.43	-0.24	0.35
12,117.00	90.07	91.810	7,321.33	-1,864.47	4,230.33	4,511.76	0.87	0.00	0.87
12,210.00	90.07	91.260	7,321.22	-1,866.96	4,323.29	4,603.45	0.59	0.00	-0.59
12,305.00	90.10	90.820	7,321.08	-1,868.68	4,418.28	4,696.96	0.46	0.03	-0.46
12,399.00	90.03	90.570	7,320.97	-1,869.82	4,512.27	4,789.39	0.28	-0.07	-0.27
12,492.00	89.93	90.860	7,321.00	-1,870.98	4,605.26	4,880.83	0.33	-0.11	0.31
12,586.00	90.03	90.970	7,321.04	-1,872.48	4,699.25	4,973.33	0.16	0.11	0.12
12,680.00	89.93	92.150	7,321.07	-1,875.04	4,793.21	5,066.00	1.26	-0.11	1.26
12,774.00	89.87	92.170	7,321.23	-1,878.59	4,887.15	5,158.83	0.07	-0.06	0.02
12,868.00	89.87	92.220	7,321.45	-1,882.19	4,981.08	5,251.68	0.05	0.00	0.05
12,962.00	90.00	91.250	7,321.55	-1,885.03	5,075.03	5,344.40	1.04	0.14	-1.03
13,056.00	90.13	90.860	7,321.45	-1,886.76	5,169.02	5,436.93	0.44	0.14	-0.41
13,150.00	90.03	90.960	7,321.32	-1,888.26	5,263.01	5,529.42	0.15	-0.11	0.11
13,243.00	89.93	90.540	7,321.35	-1,889.47	5,356.00	5,620.88	0.46	-0.11	-0.45
13,337.00	89.90	90.400	7,321.49	-1,890.24	5,449.99	5,713.24	0.15	-0.03	-0.15
13,431.00	89.46	90.630	7,322.01	-1,891.09	5,543.99	5,805.61	0.53	-0.47	0.24
13,525.00	89.97	92.160	7,322.48	-1,893.38	5,637.96	5,898.24	1.72	0.54	1.63
13,619.00	90.27	93.370	7,322.28	-1,897.91	5,731.85	5,991.22	1.33	0.32	1.29
13,713.00	90.00	94.160	7,322.06	-1,904.08	5,825.64	6,084.43	0.89	-0.29	0.84
13,807.00	89.50	91.370	7,322.47	-1,908.62	5,919.52	6,177.40	3.02	-0.53	-2.97
13,901.00	89.46	90.740	7,323.32	-1,910.35	6,013.50	6,269.93	0.67	-0.04	-0.67
13,995.00	89.56	90.780	7,324.13	-1,911.60	6,107.49	6,362.37	0.11	0.11	0.04
14,089.00	89.50	90.290	7,324.90	-1,912.47	6,201.48	6,454.75	0.53	-0.06	-0.52
14,183.00	89.46	90.590	7,325.75	-1,913.20	6,295.48	6,547.10	0.32	-0.04	0.32
14,277.00	89.46	90.520	7,326.64	-1,914.11	6,389.47	6,639.48	0.07	0.00	-0.07
14,372.00	89.46	90.550	7,327.53	-1,914.99	6,484.46	6,732.83	0.03	0.00	0.03
14,466.00	89.46	90.960	7,328.42	-1,916.23	6,578.45	6,825.27	0.44	0.00	0.44
14,560.00	89.73	90.540	7,329.08	-1,917.46	6,672.44	6,917.71	0.53	0.29	-0.45
14,654.00	89.66	91.060	7,329.58	-1,918.77	6,766.42	7,010.17	0.56	-0.07	0.55
14,749.00	89.77	91.030	7,330.06	-1,920.51	6,861.41	7,103.68	0.12	0.12	-0.03
14,843.00	89.76	90.830	7,330.44	-1,922.03	6,955.39	7,196.18	0.21	-0.01	-0.21
14,937.00	90.03	90.660	7,330.62	-1,923.26	7,049.39	7,288.62	0.34	0.29	-0.18
15,031.00	89.90	90.870	7,330.67	-1,924.51	7,143.38	7,381.07	0.26	-0.14	0.22



Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 32 7 602 Federal Com 603H
Project:	San Juan, NM NAD83	TVD Reference:	GL 6748' & RKB 25.1' @ 6773.10ft (Nabors B29)
Site:	Burnt Mesa Pad	MD Reference:	GL 6748' & RKB 25.1' @ 6773.10ft (Nabors B29)
Well:	San Juan 32 7 602 Federal Com 603H	North Reference:	True
Wellbore:	ST1	Survey Calculation Method:	Minimum Curvature
Design:	ST1	Database:	Grand Junction

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,125.00	89.93	91.040	7,330.81	-1,926.08	7,237.36	7,473.57	0.18	0.03	0.18
15,219.00	89.93	91.250	7,330.93	-1,927.96	7,331.35	7,566.13	0.22	0.00	0.22
15,313.00	89.93	90.890	7,331.04	-1,929.71	7,425.33	7,658.67	0.38	0.00	-0.38
15,408.00	90.00	91.360	7,331.10	-1,931.58	7,520.31	7,752.20	0.50	0.07	0.49
15,502.00	89.97	91.630	7,331.12	-1,934.03	7,614.28	7,844.86	0.29	-0.03	0.29
15,596.00	90.24	91.470	7,330.95	-1,936.57	7,708.24	7,937.53	0.33	0.29	-0.17
15,690.00	90.30	91.670	7,330.51	-1,939.15	7,802.21	8,030.21	0.22	0.06	0.21
15,785.00	90.17	91.970	7,330.12	-1,942.16	7,897.16	8,123.94	0.34	-0.14	0.32
15,879.00	90.17	91.580	7,329.84	-1,945.08	7,991.11	8,216.67	0.41	0.00	-0.41
15,972.00	90.17	91.500	7,329.56	-1,947.57	8,084.08	8,308.36	0.09	0.00	-0.09
16,066.00	90.13	91.750	7,329.32	-1,950.24	8,178.04	8,401.05	0.27	-0.04	0.27
16,160.00	90.13	91.510	7,329.11	-1,952.91	8,272.00	8,493.74	0.26	0.00	-0.26
16,254.00	90.07	91.530	7,328.94	-1,955.41	8,365.97	8,586.41	0.07	-0.06	0.02
16,348.00	90.20	91.660	7,328.72	-1,958.02	8,459.93	8,679.09	0.20	0.14	0.14
16,443.00	90.27	91.530	7,328.33	-1,960.67	8,554.89	8,772.76	0.16	0.07	-0.14
16,537.00	90.20	91.540	7,327.94	-1,963.19	8,648.86	8,865.43	0.08	-0.07	0.01
16,631.00	90.24	91.350	7,327.58	-1,965.56	8,742.83	8,958.07	0.21	0.04	-0.20
16,726.00	90.03	91.410	7,327.36	-1,967.84	8,837.80	9,051.68	0.23	-0.22	0.06
16,821.00	90.10	91.680	7,327.25	-1,970.41	8,932.77	9,145.34	0.29	0.07	0.28
16,915.00	90.10	91.370	7,327.09	-1,972.91	9,026.73	9,238.00	0.33	0.00	-0.33
17,009.00	90.13	91.360	7,326.90	-1,975.15	9,120.71	9,330.62	0.03	0.03	-0.01
17,103.00	90.10	91.470	7,326.71	-1,977.47	9,214.68	9,423.26	0.12	-0.03	0.12
17,198.00	90.17	91.400	7,326.49	-1,979.85	9,309.65	9,516.88	0.10	0.07	-0.07
17,292.00	90.13	91.290	7,326.24	-1,982.05	9,403.62	9,609.50	0.12	-0.04	-0.12
17,386.00	90.24	91.380	7,325.94	-1,984.24	9,497.59	9,702.11	0.15	0.12	0.10
17,480.00	90.17	91.900	7,325.60	-1,986.93	9,591.56	9,794.80	0.56	-0.07	0.55
17,573.00	90.24	91.290	7,325.27	-1,989.52	9,684.52	9,886.50	0.66	0.08	-0.66
17,667.00	90.10	91.510	7,324.99	-1,991.82	9,778.49	9,979.13	0.28	-0.15	0.23
17,761.00	90.20	91.260	7,324.74	-1,994.09	9,872.46	10,071.76	0.29	0.11	-0.27
17,855.00	89.93	91.590	7,324.64	-1,996.43	9,966.43	10,164.40	0.45	-0.29	0.35
17,915.00	89.90	91.250	7,324.73	-1,997.92	10,026.41	10,223.52	0.57	-0.05	-0.57
17,937.00	89.90	91.250	7,324.76	-1,998.40	10,048.41	10,245.19	0.00	0.00	0.00

Checked By: _____	Approved By: _____	Date: _____
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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2018

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMSF078543

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other: _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator

Hilcorp Energy Company

8. Lease Name and Well No.

San Juan 32-7 602 Federal Com 603H

3. Address

382 Road 3100, Aztec, NM 87410

3a. Phone No. (include area code)

(505) 599-3400

9. API Well No.

30-045-38341

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface

M (SW/SW) 1059' FSL & 259' FWL

At top prod. Interval reported below

D (NW/NW) 684' FNL & 348' FWL Sec. 35

At total depth

Sec 36. A(NE/NE) LTP: 717' FNL & 395' FEL/BHL: 717' FNL & 301' FEL

10. Field and Pool or Exploratory

Basin Mancos

11. Sec., T., R., M., on Block and
Survey or Area

Sec. 26, T32N, R07W

12. County or Parish

San Juan

13. State

New Mexico

14. Date Spudded

5/8/2024

15. Date T.D. Reached

9/1/2024

16. Date Completed

11/10/2024

☐ D & A

☒ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*

6748' GL

18. Total Depth:

7,325' TVD/17,937' MD

19. Plug Back T.D.:

7,325' TVD/17,873' MD

20. Depth Bridge Plug Set:

MD

TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

CBL

22. Was well cored?

☒ No

☐ Yes (Submit analysis)

Was DST run?

☒ No

☐ Yes (Submit report)

Directional Survey?

☐ No

☒ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement top*	Amount Pulled
17 1/2"	13 3/8" J-55	54.5	0	393'		372 sx	91 bbls	0	45 bbls surf
12 1/4"	9 5/8" L80	43.5	0	6735'		1558 sx	766 bbls		50 bbls to surf
8 1/2"	5 1/2" P110	20	0	17,920		2041 sx	543 bbls	4,340'	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Mancos	7,982'	17,844	6 SPF	0.38"	2,388	Open
B)						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
6,351' - 5974' - Fish	Cmt'd hole w/ 347 sx (61 bbls, 17 ppg) 6351-5974' MD + 453 sx (81 bbls, 17 ppg) 5974-5400' MD
7,982' - 17,844' - Mancos	50 STAGES: TOTAL 15% HCL 155.4 BBL, TOTAL FLUID 669,459 BBL, TOTAL PROPPANT 24,500,000 LBS.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
11/10/2024	11/10/2024	12 hours		0	1471	421			Flowing
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
16/64"	N/A	2379		0	2,942	842			Producing

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
									
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
									

*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			██████████						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			██████████						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			██████████						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			██████████						

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem test, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
Ojo Alamo	2451'	2623'	White, cr-gr ss	Ojo Alamo	2451'
Kirtland	2623'	3363'	Gry sh interbedded w/tight, gry, fine-gr ss.	Kirtland	2623'
Fruitland	3363'	3681'	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss.	Fruitland	3363'
Pictured Cliffs	3681'	4101'	Bn-Gry, fine grn, tight ss.	Pictured Cliffs	3681'
Lewis	4101'	4999'	Shale w/ siltstone stringers	Lewis	4101'
Chacra	4999'	5577'	Gry fn grn silty, glauconitic sd stone w/ drk gry shale	Chacra	4999'
Cliffhouse	5577'	5998'	Light gry, med-fine gr ss, carb sh & coal	Mesaverde	5577'
Menefee	5998'	6194'	Med-dark gry, fine gr ss, carb sh & coal	Menefee	5998'
Point Lookout	6194'	6678'	Med-light gry, very fine gr ss w/ frequent sh breaks in lower part of formation	Point Lookout	6194'
Mancos	6678'	'	Dark gry carb sh.	Mancos	6678'
Gallup	'	'	Lt. gry to brn calc carb micac glauc silts & very fine gry gry ss w/ irreg. interbed sh.	Gallup	'
Greenhorn	'	'	Highly calc gry sh w/ thin lmst.	Greenhorn	'
Graneros	'	'	Dk gry shale, fossil & carb w/ pyrite incl.	Graneros	'
Dakota	'	'	Lt to dark gry foss carb sl calc sl sity ss w/ pyrite incl thin sh bands cly Y shale breaks	Dakota	'
Morrison			Interbed grn, brn & red waxy sh & fine to coard grn ss	Morrison	'

32. Additional remarks (include plugging procedure):

**Well is now producing as a Mancos HZ under NMNM078423X
Com Agreement delivered 4/27/2023**

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☒ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
- ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Amanda Walker Title Operations/Regulatory Technician - Sr.

Signature  Date 12/5/2024

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.

Mandi Walker

From: blm-afmss-notifications@blm.gov
Sent: Tuesday, December 17, 2024 10:23 AM
To: Mandi Walker
Subject: [EXTERNAL] Well Name: SAN JUAN 32 7 602 FEDERAL COM, Well Number: 603H, Notification of Well Completion Acceptance

CAUTION: External sender. DO NOT open links or attachments from UNKNOWN senders.

The Bureau of Land Management

Notice of Acceptance for Well Completion Report

- Operator Name: **HILCORP ENERGY COMPANY**
- Well Name: **SAN JUAN 32 7 602 FEDERAL COM**
- Well Number: **603H**
- US Well Number: **3004538341**
- Well Completion Report Id: **WCR2024121793981**

This notification is automatically generated. Please do not reply to this message as this account is not monitored.

Well Name: SAN JUAN 32 7 602 FEDERAL COM	Well Location: T32N / R07W / SEC 26 / SWSW / 36.947088 / -107.544647	County or Parish/State: SAN JUAN / NM
Well Number: 603H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078543	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004538341	Operator: HILCORP ENERGY COMPANY	

Subsequent Report

Sundry ID: 2826991

Type of Submission: Subsequent Report

Date Sundry Submitted: 12/11/2024

Date Operation Actually Began: 09/10/2024

Type of Action: Drilling Operations

Time Sundry Submitted: 12:09

Actual Procedure: Hilcorp Energy Company has drilled and completed the following well within the Mancos. Please see the attached completions operations.

SR Attachments

PAActual Procedure

SJ_32_7_602_Federal_Com_603H_SR_Writeup_20241211120910.pdf

Received by OCD: 1/20/2025 5:38:33 AM

Page 20 of 27

Well Name: SAN JUAN 32 7 602 FEDERAL COM	Well Location: T32N / R07W / SEC 26 / SWSW / 36.947088 / -107.544647	County or Parish/State: SAN JUAN / NM
Well Number: 603H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078543	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004538341	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: DEC 11, 2024 12:09 PM
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: Accepted	Disposition Date: 12/12/2024
Signature: Kenneth Rennick	

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 <i>Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i>		5. Lease Serial No.
		6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2		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
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ 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 recompleate 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 OFFICE 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 of this form to U.S. Department of the Interior, Bureau of Land 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: SWSW / 959 FSL / 259 FWL / TWSP: 32N / RANGE: 07W / SECTION: 26 / LAT: 36.947088 / LONG: -107.544647 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 470 FNL / 0 FWL / TWSP: 32N / RANGE: 07W / SECTION: 36 / LAT: 36.942894 / LONG: -107.527331 (TVD: 7515 feet, MD: 8103 feet)

PPP: NWNW / 479 FNL / 330 FWL / TWSP: 32N / RANGE: 07W / SECTION: 35 / LAT: 36.943134 / LONG: -107.544383 (TVD: 7515 feet, MD: 8103 feet)

PPP: NENE / 432 FNL / 330 FEL / TWSP: 32N / RANGE: 07W / SECTION: 36 / LAT: 36.942652 / LONG: -107.510367 (TVD: 7520 feet, MD: 18145 feet)

BHL: NENE / 432 FNL / 230 FEL / TWSP: 32N / RANGE: 07W / SECTION: 36 / LAT: 36.942647 / LONG: -107.510025 (TVD: 7520 feet, MD: 18145 feet)

CONFIDENTIAL

San Juan 32-7 602 Federal Com 603H
30-045-38341
NMSF078543
SR Completion Operations

9/10/2024: MIRU FRAC/PERF CREW. TEST CSG TO 4601 PSI FOR 30 MIN, GOOD TEST.

FRAC OPERATIONS: 9/12/2024 – 10/15/2024 50 STAGES: TOTAL 15% HCL 155.4 BBL, TOTAL FLUID 669,459 BBL, TOTAL PROPPANT 24,500,000 LBS.

PERF OPERATIONS: 9/11/2024 – 10/15/2024 50 STAGES: 2,388 SHOTS, 6 SPF, 0.38" DIA, 3 1/8" GUN @ 7,329' TVD/7,982' MD TO 7,325' TVD/17,844' MD

FRAC PLUGS SET BETWEEN STAGES AT THE FOLLOWING INTERVALS: 9/8/2024: 7325' TVD/17679' MD **REMOVED 11/1/2024**. 9/13/2024: 7325' TVD/17653' MD **REMOVED 11/1/2024**. 9/14/2024: 7326' TVD/17453 MD **REMOVED 11/1/2024**. 9/15/2024: 7326' TVD/17253' MD AND 7327' TVD/17053' TVD AND 7327' TVD/16853' MD **REMOVED 11/1/2024**. 9/17/2024: 7328' TVD/16653' MD **REMOVED 10/31/2024**. 9/18/2024: 7328' TVD/16453' MD **REMOVED 10/31/2024**. 9/19/2024: 7329' TVD/16253' MD **REMOVED 10/31/2024**. 9/20/2024: 7330' TVD/15853' MD **REMOVED 10/31/2024**. 9/21/2024: 7331' TVD/15653' MD **REMOVED 10/31/2024**. 9/22/2024: 7331' TVD/15453' MD **REMOVED 10/31/2024**. 9/23/2024: 7331' TVD/15253' MD **REMOVED 10/31/2024**. 9/24/2024: 7331' TVD/15053' MD **REMOVED 10/31/2024**. 9/25/2024: 7330' TVD/14653' MD AND 7331' TVD/14853' MD **REMOVED 10/31/2024**. 9/26/2024: 7328' TVD/14453' MD **REMOVED 10/31/2024**. 9/27/2024: 7326' TVD/14253' MD AND 7325' TVD/14053' MD **REMOVED 10/31/2024**. 9/28/2024: 7323' TVD/13853' MD AND 7322' TVD/13653' MD **REMOVED 10/31/2024**. 9/29/2024: 7322' TVD/13453' MD **REMOVED 10/31/2024**. 9/30/2024: 7321' TVD/13253' MD **REMOVED 10/31/2024**. 10/1/2024: 7322' TVD/13053' MD AND 7321' TVD/12853' MD **REMOVED 10/31/2024**. 10/2/2024: 7321' TVD/12653' MD AND 7321' TVD/12453' MD **REMOVED 10/31/2024**. 10/3/2024: 7321' TVD/12253' MD **REMOVED 10/31/2024**. 10/4/2024: 7321' TVD/12053' MD AND 7322' TVD/11853' MD **REMOVED 10/31/2024**. 10/5/2024: 7323' TVD/11653' MD **REMOVED 10/31/2024**. 10/6/2024: 7324' TVD/11453' MD AND 7324' TVD/11253' MD **REMOVED 10/31/2024**. 10/7/2024: 7234' TVD/11053' MD AND 7323' TVD/10853' MD **REMOVED 10/31/2024**. 10/8/2024: 7323' TVD/10653' MD AND 7324' TVD/10453' MD **REMOVED 10/30/2024**. 10/9/2024: 7325' TVD/10253' MD **REMOVED 10/30/2024**. 10/10/2024: 7326' TVD/10053' MD AND 7329' TVD/9675' MD **REMOVED 10/30/2024**. 10/11/2024: 7330' TVD/9653' MD AND 7331' TVD/9453' MD **REMOVED 10/30/2024**. 10/12/2024: 7333' TVD/9253' MD AND 7334' TVD/9053' MD **REMOVED 10/30/2024**. 10/13/2024: 7335' TVD/8853' MD AND 7335' TVD/8653' MD **REMOVED 10/30/2024**. 10/14/2024: 7334' TVD/8453' MD AND 7333' TVD/8253' MD **REMOVED 10/30/2024**. 10/15/2024: 7330' TVD/8103' MD **REMOVED 10/30/2024**.

Per BLM COA: BHP is as follows: First stage perms were opened on September 9, 2024. On September 10, 2024 BHP gauges were ran to 7,611' TMD, calculated bottomhole pressure is 4,641 psi.

San Juan 32-7 602 Federal Com 603H

AS DRILLED WBD
DRAWING NOT TO SCALE

State: NM
County: San Juan
API: 3004538341
GL: 6748'
KB: 26'
SPUD: 5/8/2024

Surface Casing

17-1/2" Hole TD @ 393' MD
13-3/8" 54.5# J55 BTC set at 393' MD
372 sx (91 bbls, 14.6ppg) cmt
Circ'd 45 bbls cmt to surface

Released to Imaging: 1/21/2025 2:17:45 PM

Formation	TVD
OJO	2451
KIRTLAND	2623
FRUITLAND	3363
PICTURED CLIFFS	3681
MESAVERDE	4101
MANCOS	6678

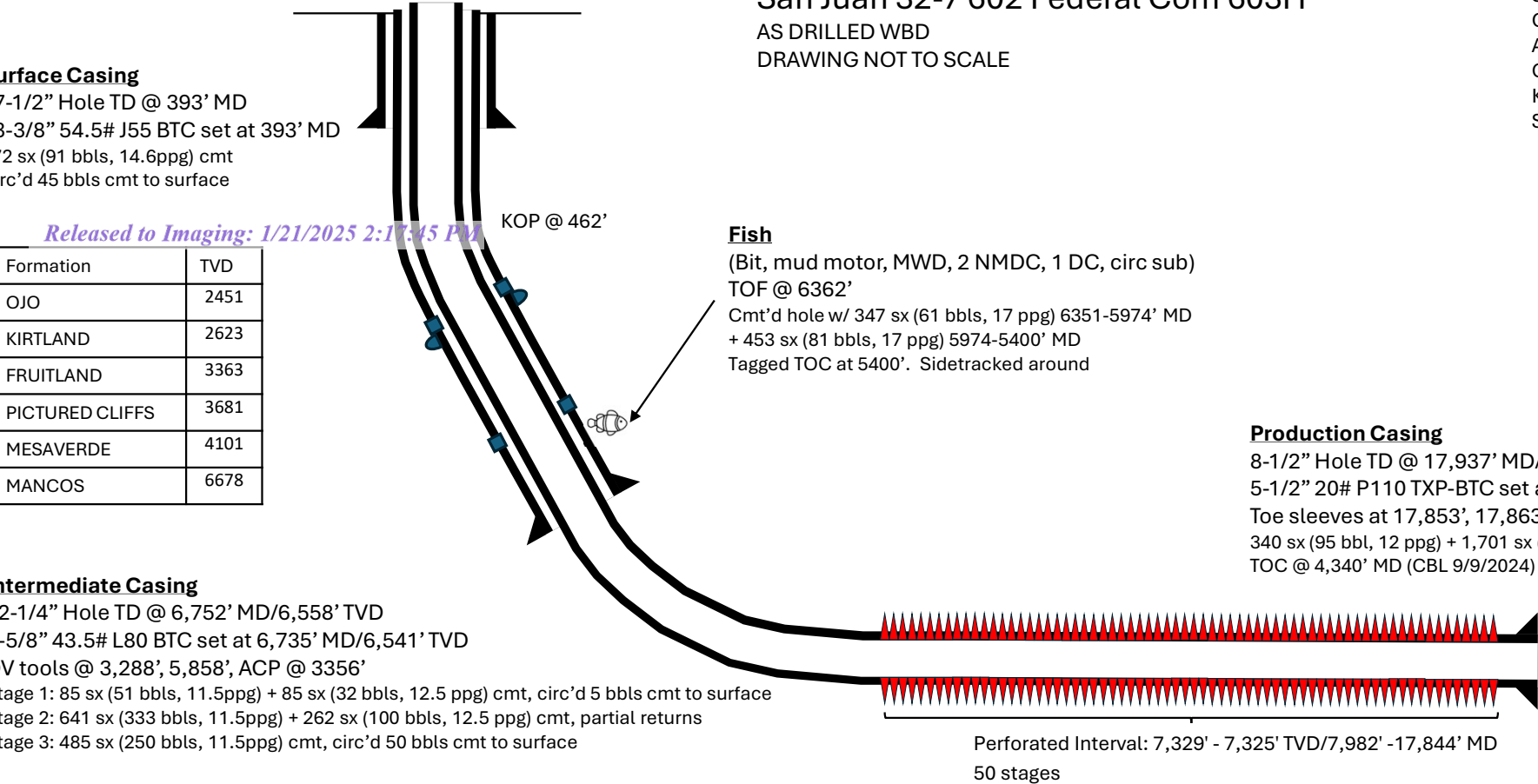
Intermediate Casing

12-1/4" Hole TD @ 6,752' MD/6,558' TVD
9-5/8" 43.5# L80 BTC set at 6,735' MD/6,541' TVD
DV tools @ 3,288', 5,858', ACP @ 3356'
Stage 1: 85 sx (51 bbls, 11.5ppg) + 85 sx (32 bbls, 12.5 ppg) cmt, circ'd 5 bbls cmt to surface
Stage 2: 641 sx (333 bbls, 11.5ppg) + 262 sx (100 bbls, 12.5 ppg) cmt, partial returns
Stage 3: 485 sx (250 bbls, 11.5ppg) cmt, circ'd 50 bbls cmt to surface

Fish
(Bit, mud motor, MWD, 2 NMDC, 1 DC, circ sub)
TOF @ 6362'
Cmt'd hole w/ 347 sx (61 bbls, 17 ppg) 6351-5974' MD
+ 453 sx (81 bbls, 17 ppg) 5974-5400' MD
Tagged TOC at 5400'. Sidetracked around

Production Casing

8-1/2" Hole TD @ 17,937' MD/7,325' TVD
5-1/2" 20# P110 TXP-BTC set at 17,920' MD/7,325' TVD
Toe sleeves at 17,853', 17,863'
340 sx (95 bbl, 12 ppg) + 1,701 sx (448 bbls, 14ppg) cmt
TOC @ 4,340' MD (CBL 9/9/2024)



Perforated Interval: 7,329' - 7,325' TVD/7,982' - 17,844' MD
50 stages

Bore Name	Casing Top (MD)	KOP Method	KOP (MD)	KOP (TVD)	Top of String T-32-N R-7-W	Top of KOP T-32-N R-7-W	First Take Point T-32-N R-7-W	Total Depth (MD)	Total Depth (TVD)	Casing Bottom (MD)	Last Take Point T-32-N R-7-W
Surface	0	N/A	N/A	N/A	1059' FSL & 259' FWL (26)	N/A	N/A	393	393	393	N/A
Intermediate	0	Steerable	462'	462'	1059' FSL & 259' FWL (26)	1048' FSL & 249' FWL (26)	N/A	6752	6558	6736	N/A
Production	0	Steerable	462'	462'	1059' FSL & 259' FWL (26)	1048' FSL & 249' FWL (26)	684' FNL & 348' FWL (35)	17937	7325	17920	717' FNL & 395' FEL (36)

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 422193

ACKNOWLEDGMENTS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 422193
	Action Type: [C-104] Completion Packet - New Well (C-104NW)

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.

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

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Phone: (505) 629-6116

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

CONDITIONS

Action 422193

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 422193
	Action Type: [C-104] Completion Packet - New Well (C-104NW)

CONDITIONS

Created By	Condition	Condition Date
smcgrath	None	1/21/2025