

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 26	Township 32N	Range 07W	Lot	Ft. from N/S 1059' S	Ft. from E/W 259' W	Latitude 36.947363	Longitude -107.544651	County San Juan
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Section 3 – Completion Information

Producing Method N/A	Ready Date ~10/28/2024	Perforations MD 7982' – 17,844'	Perforations TVD 7325'-7325'
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Section 4 – Action IDs for Submissions and Order Numbers

List Action IDs for Drilling Sundries	Was an Order required / needed (Y/N), if yes list Order number:
C-104 RT Action ID (if C-104NW):	Communitization Agreement ☐ Yes ☒ No, Order No.
Surface Casing Action ID: 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 10/21/2024

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 30-045-38341	Pool Code 97232	Pool Name BASIN MANCOS
Property Code 335848	Property Name SAN JUAN 32 7 602 FEDERAL COM	Well Number 603H
OGRID No. 372171	Operator Name HILCORP ENERGY COMPANY	Ground Level Elevation 6748'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL M	Section 26	Township 32N	Range 7W	Lot	Feet from N/S Line 1059' SOUTH	Feet from E/W Line 259' WEST	Latitude 36.947363 °N	Longitude -107.544651 °W	County SAN JUAN
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Bottom Hole Location

UL A	Section 36	Township 32N	Range 7W	Lot	Feet from N/S Line 717' NORTH	Feet from E/W Line 301' EAST	Latitude 36.941869 °N	Longitude -107.510266 °W	County SAN JUAN
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Dedicated Acres 640.00	Penetrated Spacing Unit: N/2 - Section 35, T32N, R7W N/2 - Section 36, T32N, R7W	Infill or Defining Well Defining	Defining Well API 30-045-38341	Overlapping Spacing Unit ☐ Yes ☒ No	Consolidation Code Com
Order Numbers			Well setbacks are under Common Ownership: ☐ Yes ☒ No		

Kick Off Point (KOP)

UL M	Section 26	Township 32N	Range 7W	Lot	Feet from N/S Line 1048' SOUTH	Feet from E/W Line 249' WEST	Latitude 36.947334 °N	Longitude -107.544688 °W	County SAN JUAN
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First Take Point (FTP)

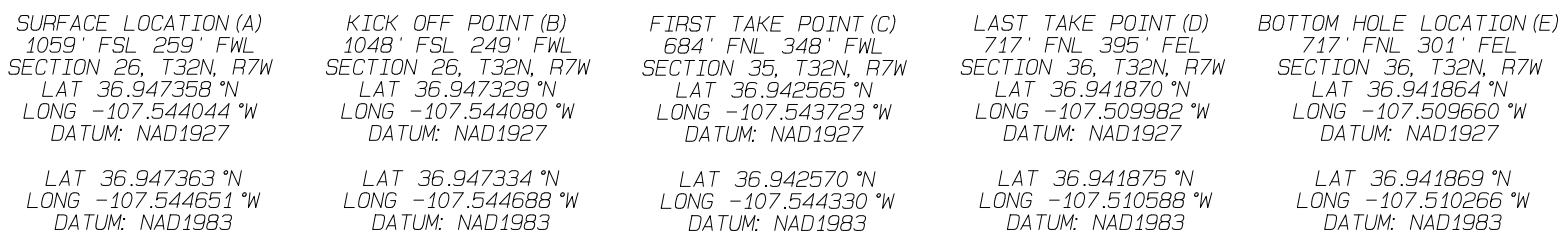
UL D	Section 35	Township 32N	Range 7W	Lot	Feet from N/S Line 684' NORTH	Feet from E/W Line 348' WEST	Latitude 36.942570 °N	Longitude -107.544330 °W	County SAN JUAN
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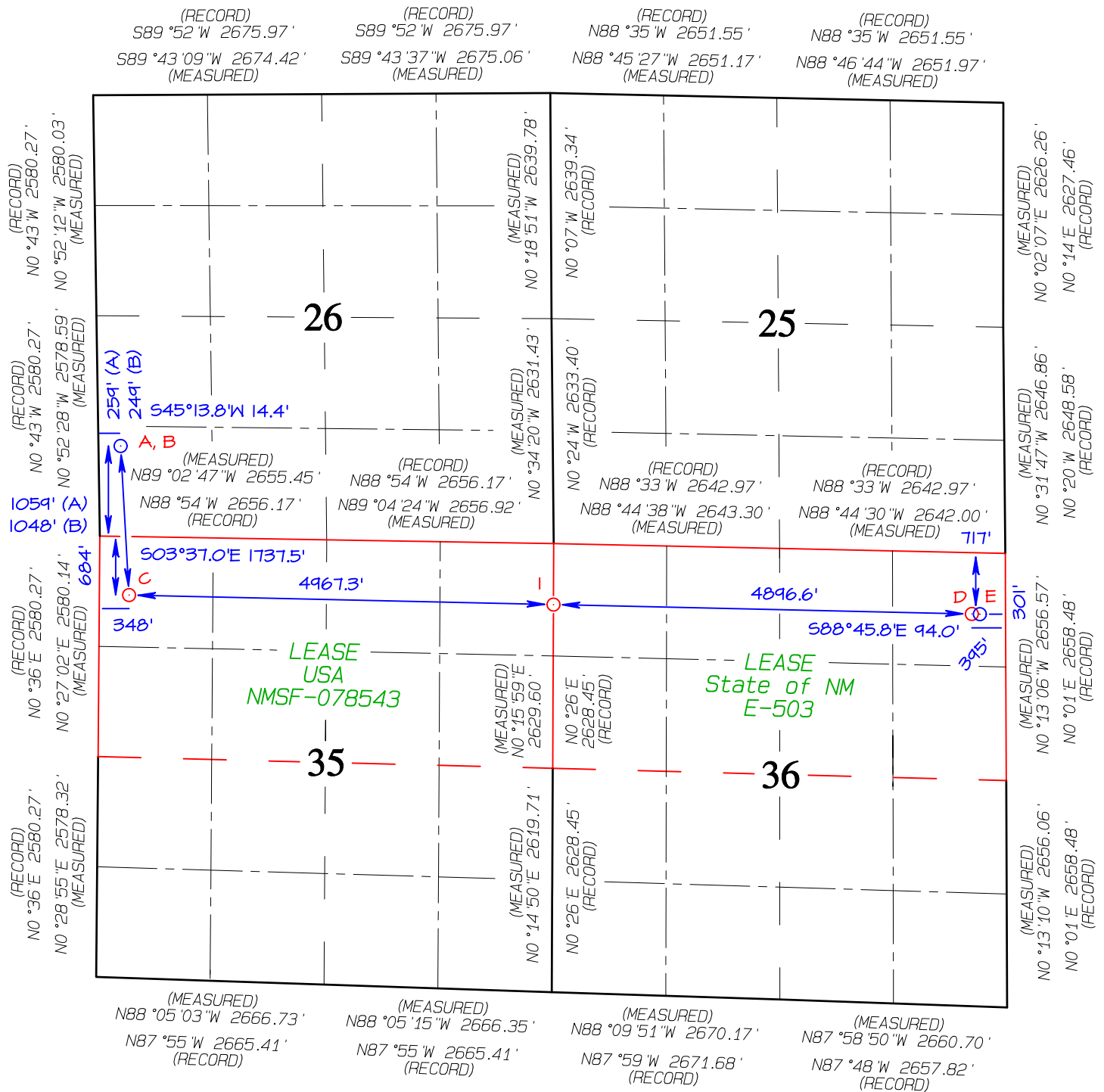
Last Take Point (LTP)

UL A	Section 36	Township 32N	Range 7W	Lot	Feet from N/S Line 717' NORTH	Feet from E/W Line 395' EAST	Latitude 36.941875 °N	Longitude -107.510588 °W	County SAN JUAN
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Unitized Area or Area of Uniform Interest SAN JUAN 32-7 UNIT	Spacing Unit Type ☒ Horizontal ☐ Vertical ☐ Directional	Ground Floor Elevation
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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 10/16/2024 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 Signature and Seal of Professional Surveyor Certificate Number 15269 Date of Survey JULY 27, 2022
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SURFACE LOCATION (A)
1059' FSL 259' FWL
SECTION 26, T32N, R7W
LAT 36.947358°N
LONG -107.544044°W
DATUM: NAD1927

FIRST TAKE POINT (C)
684' FNL 348' FWL
SECTION 35, T32N, R7W
LAT 36.942565°N
LONG -107.543723°W
DATUM: NAD1927

LEASE X-ING (1)
714' FNL 0' FEL
SECTION 35, T32N, R7W
LAT 36.942217°N
LONG -107.526731°W
DATUM: NAD1927

LAST TAKE POINT (D)
717' FNL 395' FEL
SECTION 36, T32N, R7W
LAT 36.941870°N
LONG -107.509982°W
DATUM: NAD1927

BOTTOM HOLE LOCATION (E)
717' FNL 301' FEL
SECTION 36, T32N, R7W
LAT 36.941864°N
LONG -107.509660°W
DATUM: NAD1927

LAT 36.947363°N
LONG -107.544651°W
DATUM: NAD1983

LAT 36.942570°N
LONG -107.544330°W
DATUM: NAD1983

LAT 36.942222°N
LONG -107.527338°W
DATUM: NAD1983

LAT 36.941875°N
LONG -107.510588°W
DATUM: NAD1983

LAT 36.941869°N
LONG -107.510266°W
DATUM: NAD1983



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

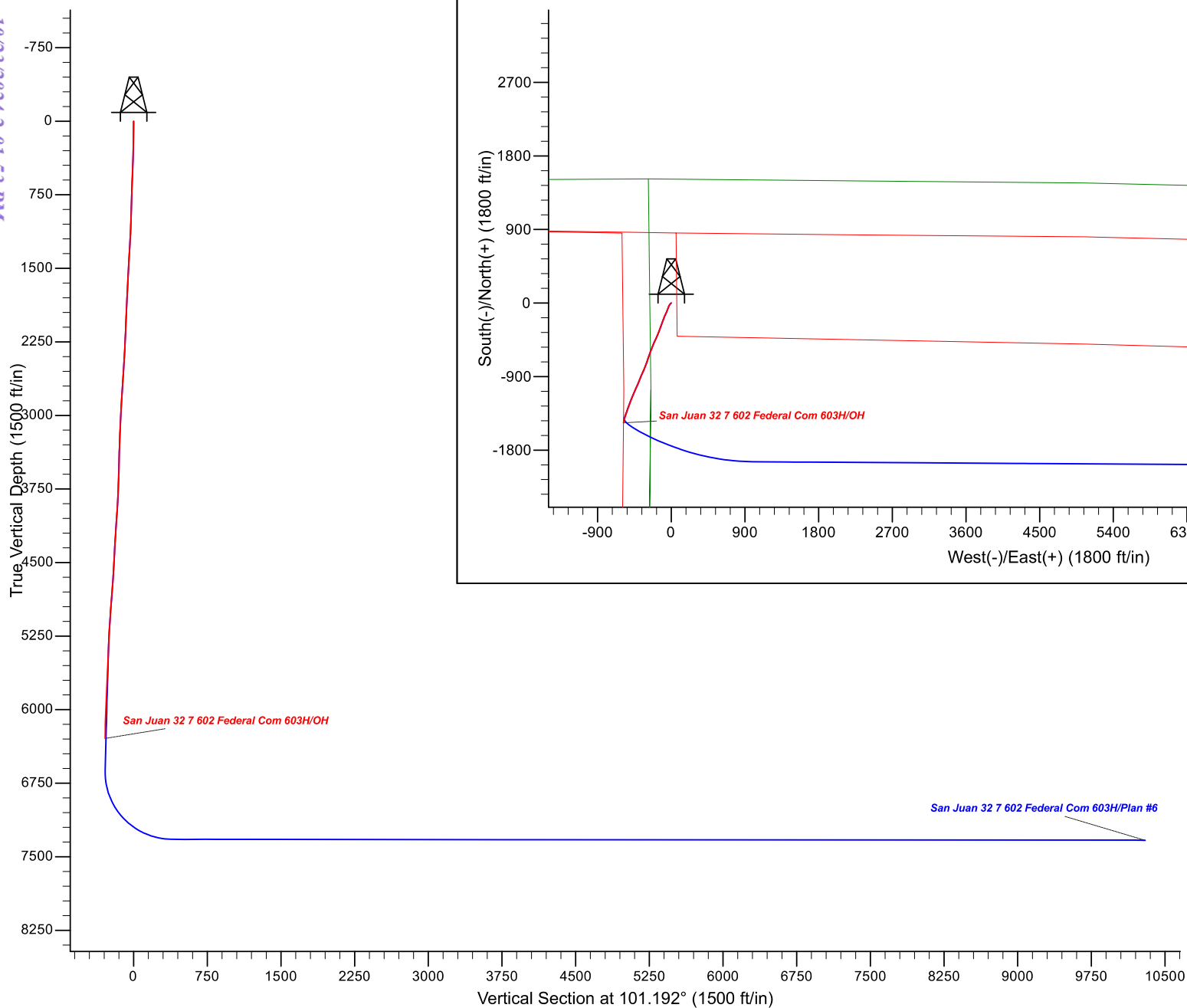
Rockies Region Well Planner
Scientific Drilling - Rocky Mountain District



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

+N/-S	+E/-W	GL 6748' & RKB 25.1' @ 6773.10ft (Nabors B29)	6748.00		
0.00	0.00	Northings	Easting	Latitude	Longitude
		2164233.17	584535.19	36.9473580	-107.5440440

A08



Company Name: Hilcorp Energy - San Juan Basin
Project: San Juan, NM NAD27
Site: Burnt Mesa Pad
Well: San Juan 32 7 602 Federal Com 603H
Wellbore: OH

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
Local North: True

Created By: Janie Collins Date: 16:52, October 01 2024



Hilcorp Energy - San Juan Basin

San Juan, NM NAD27

Burnt Mesa Pad

San Juan 32 7 602 Federal Com 603H - Slot A08

OH

Design: OH

Standard Survey Report

16 September, 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 - Slot A08
Project:	San Juan, NM NAD27	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 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		Burnt Mesa Pad			
Site Position:		Northing:	2,164,058.07 usft	Latitude:	36.9468770
From:	Lat/Long	Easting:	584,538.07 usft	Longitude:	-107.5440360
Position Uncertainty:	0.00 ft	Slot Radius:	13.20 in	Grid Convergence:	0.17 °

Well	San Juan 32 7 602 Federal Com 603H - Slot A08					
Well Position	+N/-S	0.00 ft	Northing:	2,164,233.17 usft	Latitude:	36.9473580
	+E/-W	0.00 ft	Easting:	584,535.19 usft	Longitude:	-107.5440441
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	8/28/2024			
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



Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 32 7 602 Federal Com 603H - Slot A08
Project:	San Juan, NM NAD27	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)
1,153.00	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
4,914.00	17.46	203.730	4,767.50	-1,030.96	-424.22	-216.04	1.63	1.63	-0.09



Scientific Drilling
Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 32 7 602 Federal Com 603H - Slot A08
Project:	San Juan, NM NAD27	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)	
5,008.00	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	
5,476.00	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: _____
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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

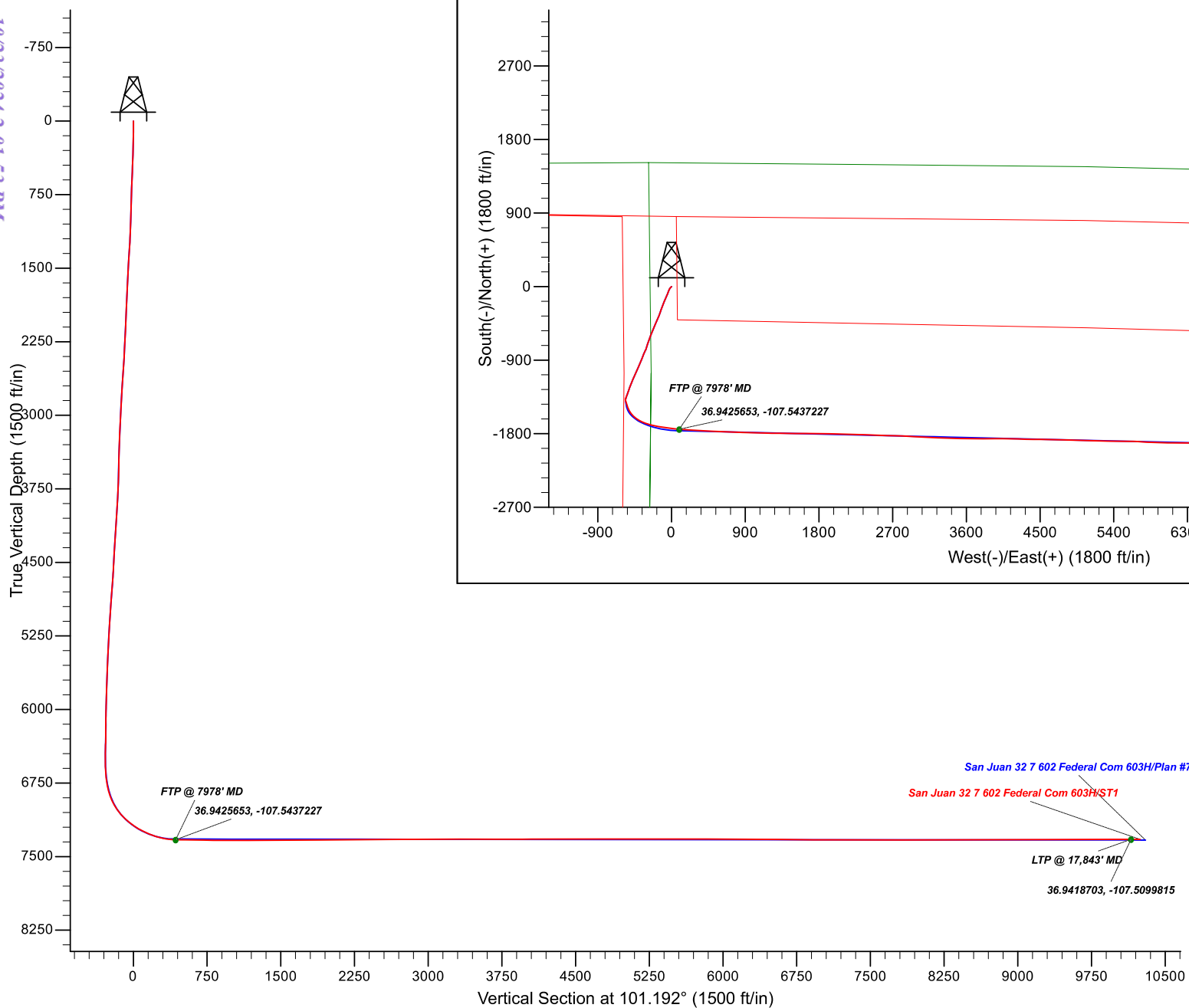
Rockies Region Well Planner
Scientific Drilling - Rocky Mountain District



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 2164233.17 584535.19 36.9473580 -107.5440440

A08



Company Name: Hilcorp Energy - San Juan Basin
 Project: San Juan, NM NAD27
 Site: Burnt Mesa Pad
 Well: San Juan 32 7 602 Federal Com 603H
 Wellbore: ST1

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
 Local North: True

Created By: Janie Collins Date: 17:01, October 01 2024



Hilcorp Energy - San Juan Basin

San Juan, NM NAD27

Burnt Mesa Pad

San Juan 32 7 602 Federal Com 603H - Slot A08

ST1

Design: ST1

Standard Survey Report

01 October, 2024



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Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 32 7 602 Federal Com 603H - Slot A08
Project:	San Juan, NM NAD27	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 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	Burnt Mesa Pad				
Site Position:		Northing:	2,164,058.07 usft	Latitude:	36.9468770
From:	Lat/Long	Easting:	584,538.07 usft	Longitude:	-107.5440360
Position Uncertainty:	0.00 ft	Slot Radius:	13.20 in	Grid Convergence:	0.17 °

Well	San Juan 32 7 602 Federal Com 603H - Slot A08					
Well Position	+N/-S	0.00 ft	Northing:	2,164,233.17 usft	Latitude:	36.9473580
	+E/-W	0.00 ft	Easting:	584,535.19 usft	Longitude:	-107.5440441
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	10/1/2024			
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



Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 32 7 602 Federal Com 603H - Slot A08
Project:	San Juan, NM NAD27	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)
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
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



Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 32 7 602 Federal Com 603H - Slot A08
Project:	San Juan, NM NAD27	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)
4,726.00	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
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



Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 32 7 602 Federal Com 603H - Slot A08
Project:	San Juan, NM NAD27	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)
6,598.20	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
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
7,978.00	88.60	94.494	7,328.50	-1,744.83	93.89	430.77	7.46	7.31	-1.50
FTP @ 7978' MD - 36.9425653, -107.5437227									
7,987.00	89.26	94.360	7,328.66	-1,745.52	102.86	439.71	7.46	7.31	-1.49
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



Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 32 7 602 Federal Com 603H - Slot A08
Project:	San Juan, NM NAD27	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)	
10,522.00	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	
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	



Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 32 7 602 Federal Com 603H - Slot A08
Project:	San Juan, NM NAD27	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)
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
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
17,843.00	89.96	91.548	7,324.63	-1,996.10	9,954.44	10,152.56	0.45	-0.29	0.35
LTP @ 17,843' MD - 36.9418703, -107.5099815									
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

Scientific Drilling
Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 32 7 602 Federal Com 603H - Slot A08
Project:	San Juan, NM NAD27	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

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

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

ACKNOWLEDGMENTS

Action 394953

ACKNOWLEDGMENTS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 394953
	Action Type: [C-104] Completion Packet - Test Allowable (C-104RT)

ACKNOWLEDGMENTS

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

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

CONDITIONS

Action 394953

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 394953
	Action Type: [C-104] Completion Packet - Test Allowable (C-104RT)

CONDITIONS

Created By	Condition	Condition Date
smcgrath	Submit the Directional Survey using NAD83 datum with the C-104 NW completion packet.	10/23/2024
smcgrath	RT Expires 01/26/2025	10/23/2024