

Santa Fe Main Office Phone: (505) 476-3441 Fax: (505) 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 32-7 603 Federal Com 613H	Property Code: 335849
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	API Number: 30-045-38343
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		1034' S	259' W	36.947294	-107.544650	San Juan

Section 3 – Completion Information

Producing Method N/A	Ready Date ~10/28/2024	Perforations MD 7640' – 20,185'	Perforations TVD 7283' – 7283'
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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: 394923	Unit: ☐ Yes ☒ No, Order No.
Intermediate 1 Casing Action ID: 394923	Compulsory Pooling: ☐ Yes ☒ No, Order No.
Intermediate 2 Casing Action ID:	Down Hole Commingling: ☐ Yes ☒ No, Order No.
Production Casing Action ID: 394923	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 10/23/2024

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 30-045-38343	Pool Code 97232	Pool Name BASIN MANCOS
Property Code 335849	Property Name SAN JUAN 32 7 603 FEDERAL COM	Well Number 613H
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 1034' SOUTH	Feet from E/W Line 259' WEST	Latitude 36.947294 °N	Longitude -107.544650 °W	County SAN JUAN
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Bottom Hole Location

UL O	Section 29	Township 32N	Range 7W	Lot	Feet from N/S Line 173' SOUTH	Feet from E/W Line 2410' EAST	Latitude 36.945779 °N	Longitude -107.590036 °W	County SAN JUAN
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Penetrated Spacing Unit:

Dedicated Acres 1593.48	S/2 - Section 27 & 28, T32N, R7W SE/4 - Section 29, T32N, R7W NE/4 - Section 32, T32N, R7W N/2 - Section 33 & 34, T32N, R7W	Infill or Defining Well Defining	Defining Well API 30-045-38343	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 1028' SOUTH	Feet from E/W Line 265' WEST	Latitude 36.947279 °N	Longitude -107.544629 °W	County SAN JUAN
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First Take Point (FTP)

UL P	Section 27	Township 32N	Range 7W	Lot	Feet from N/S Line 196' SOUTH	Feet from E/W Line 355' EAST	Latitude 36.945016 °N	Longitude -107.546717 °W	County SAN JUAN
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Last Take Point (LTP)

UL O	Section 29	Township 32N	Range 7W	Lot	Feet from N/S Line 169' SOUTH	Feet from E/W Line 2316' EAST	Latitude 36.945774 °N	Longitude -107.589714 °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

10/17/2024
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

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

BOTTOM HOLE LOCATION (E)
173' FSL 2410' FEL
SECTION 29, T32N, R7W
LAT 36.945775°N
LONG -107.589426°W
DATUM: NAD1927

LAST TAKE POINT (D)
169' FSL 2316' FEL
SECTION 29, T32N, R7W
LAT 36.945769°N
LONG -107.589104°W
DATUM: NAD1927

FIRST TAKE POINT (C)
196' FSL 355' FEL
SECTION 27, T32N, R7W
LAT 36.945011°N
LONG -107.546109°W
DATUM: NAD1927

KICK OFF POINT (B)
1028' FSL 265' FWL
SECTION 26, T32N, R7W
LAT 36.947274°N
LONG -107.544021°W
DATUM: NAD1927

SURFACE LOCATION (A)
1034' FSL 259' FWL
SECTION 26, T32N, R7W
LAT 36.947289°N
LONG -107.544042°W
DATUM: NAD1927

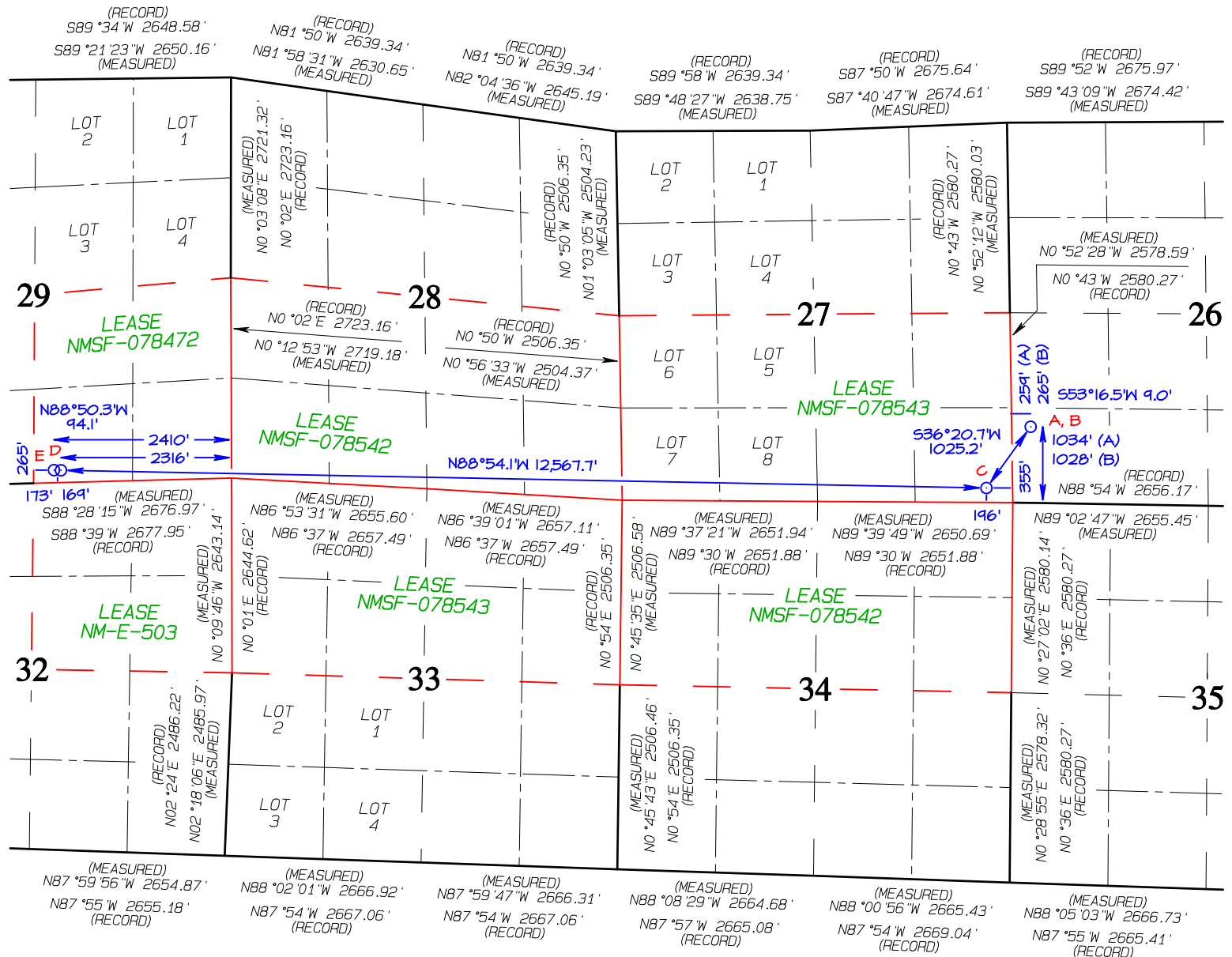
LAT 36.945779°N
LONG -107.590036°W
DATUM: NAD1983

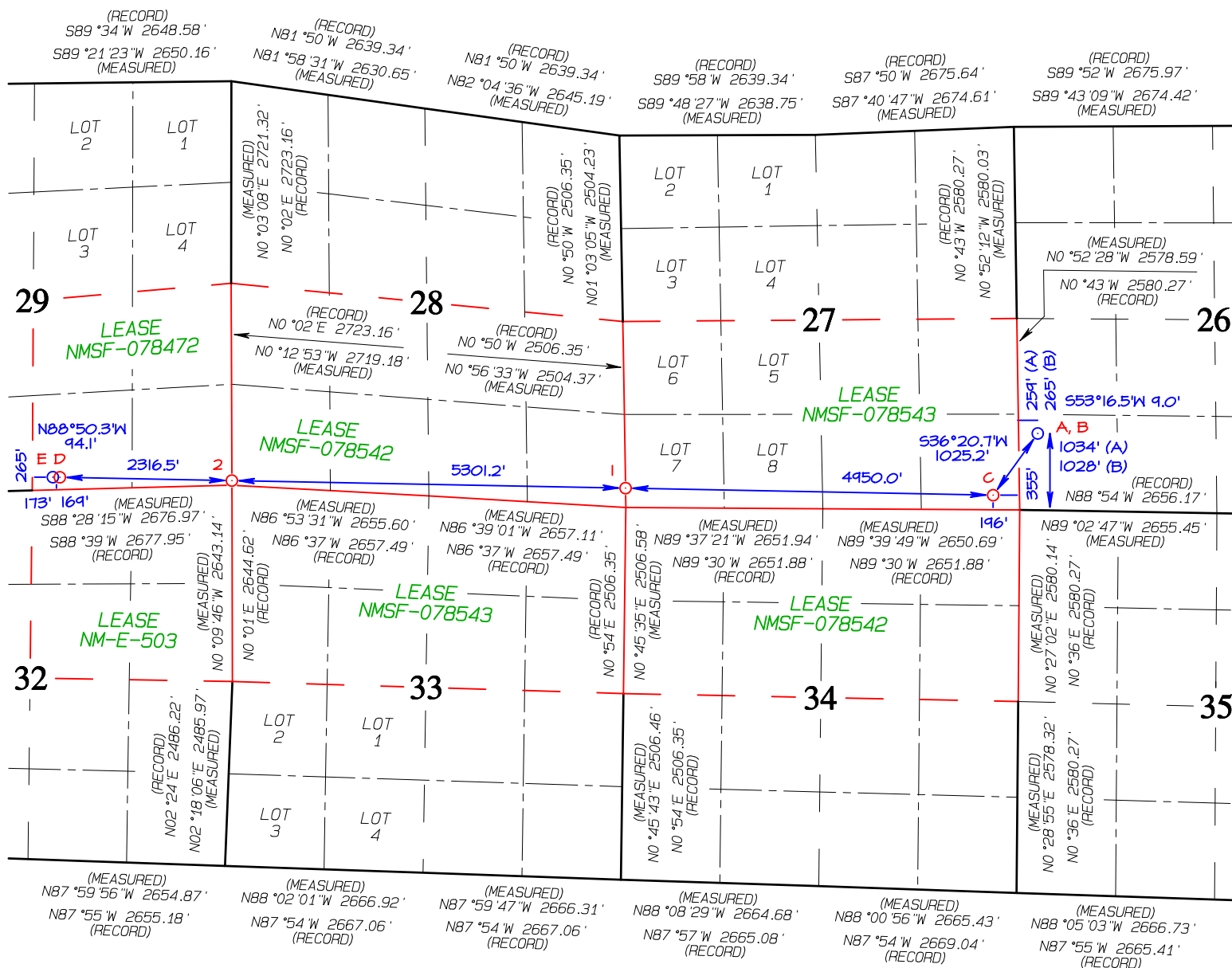
LAT 36.945774°N
LONG -107.589714°W
DATUM: NAD1983

LAT 36.945016°N
LONG -107.546717°W
DATUM: NAD1983

LAT 36.947279°N
LONG -107.544629°W
DATUM: NAD1983

LAT 36.947294°N
LONG -107.544650°W
DATUM: NAD1983





Mandi Walker

From: Rob Carlson
Sent: Friday, October 25, 2024 11:24 AM
To: Mandi Walker; Brian Bradshaw; John Brown
Cc: Craig Lingo; Christian Zuvich
Subject: RE: SJ 32-7 603 Federal Com 613H - C-104 Rejected

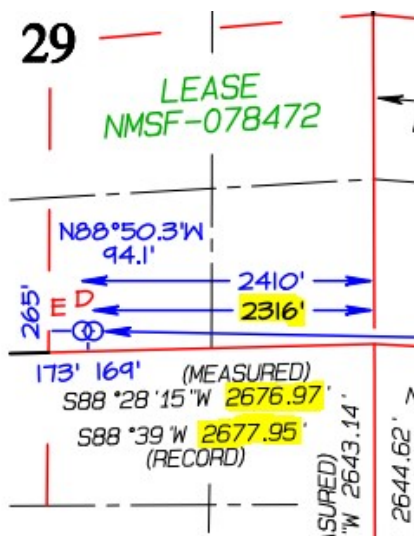
That's because it's not an NSL. Maybe they're assuming the BHL is producing? I'd provide the details below and ask them to confirm their reasoning for the NSL determination.

Using both the record and, separately, the measured length of the half-section (per the plat), both calculations result in a last-take point outside of the 330' setback requirement:

- *Record* length of the half-section (2,677.95') **minus** our last take-point distance from the east line (2,316') puts our last-take @ **361.95'** from the spacing unit boundary to the west
- *Measured* length of the half-section (2,676.97') **minus** our last take-point distance from the east line (2,316') puts our last-take @ **360.97'** from the spacing unit boundary to the west

LAST TAKE POINT (D)
 169' FSL 2316' FEL
 SECTION 29, T32N, R7W
 LAT 36.945769 °N
 LONG -107.589104 °W
 DATUM: NAD1927

LAT 36.945774 °N
 LONG -107.589714 °W
 DATUM: NAD1983



Rob Carlson, CPL
 Senior Landman
 Hilcorp Energy Company

From: Mandi Walker <mwalker@hilcorp.com>
Sent: Friday, October 25, 2024 11:00 AM
To: Rob Carlson <rcarlson@hilcorp.com>; Brian Bradshaw <Brian.Bradshaw@hilcorp.com>; John Brown <jbrown@hilcorp.com>
Cc: Craig Lingo <clingo@hilcorp.com>; Christian Zuvich <Christian.Zuvich@hilcorp.com>
Subject: SJ 32-7 603 Federal Com 613H - C-104 Rejected
Importance: High

Rob, I don't show that we filed for an NSL for this well...

Mandi Walker

SJE Regulatory Technician Sr.

Office: 346.237.2177

mwalker@hilcorp.com

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Friday, October 25, 2024 9:08 AM
To: Mandi Walker <mwalker@hilcorp.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 394961

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

To whom it may concern (c/o Mandi Walker for HILCORP ENERGY COMPANY),

The OCD has rejected the submitted "*Completion Packet*" for C-104 Test Allowable or C-104 Request to Test (C-104RT), for API number (30-#) 30-045-38343, for the following reasons:

- **As drilled, this well will need an NSL order to the west. The requirement for an NSL is one of the APD Conditions of Approval.**

The rejected C-104RT can be found in the OCD Online: Permitting - Action Status, under the Application ID: 394961.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-104RT.

Thank you,

Sarah McGrath

Petroleum Specialist - A

505-670-5601

SarahK.McGrath@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505



Survey Certification

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

Operator	HilCorp Energy
Well Name & No.	San Juan 32 7 603 Federal Com 613H
API #	30-045-38343
County & State	San Juan County, WY
SDI Job #	OP.044617
Rig	Nabors B29
Survey Date	6/25/2024 to 8/27/2024
GL & KB Elevation	GL 6748 & KB 25.1' = 67731'

I, Janie Collins, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 517 feet to a measured depth of 20,304 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

3-Sep-2024

Date

Janie Collins

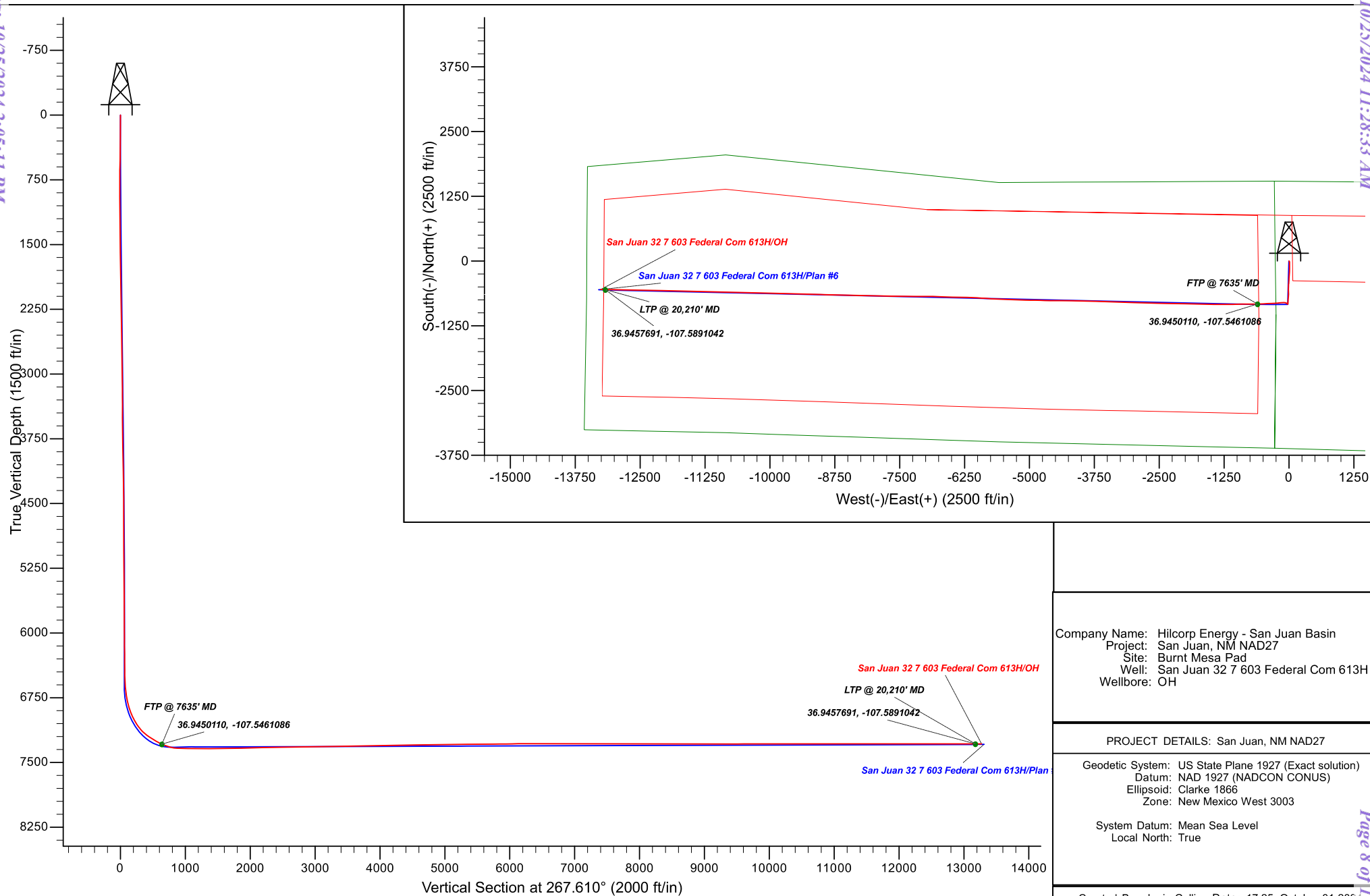
Rockies Region Well Planner
Scientific Drilling - Rocky Mountain District



WELL DETAILS: San Juan 32 7 603 Federal Com 613H

GL 6748' & RKB 25.1' @ 6773.10ft (Nabors B29) 6748.00
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 2164208.05 584535.85 36.9472890 -107.5440420

A07



Company Name: Hilcorp Energy - San Juan Basin
 Project: San Juan, NM NAD27
 Site: Burnt Mesa Pad
 Well: San Juan 32 7 603 Federal Com 613H
 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: 17:25, October 01 2024



Hilcorp Energy - San Juan Basin

San Juan, NM NAD27

Burnt Mesa Pad

San Juan 32 7 603 Federal Com 613H - Slot A07

OH

Design: OH

Standard Survey Report

01 October, 2024



www.scientificdrilling.com





Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 32 7 603 Federal Com 613H - Slot A07
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 7 603 Federal Com 613H	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 7 603 Federal Com 613H - Slot A07					
Well Position	+N/-S	0.00 ft	Northing:	2,164,208.05 usft	Latitude:	36.9472890
	+E/-W	0.00 ft	Easting:	584,535.86 usft	Longitude:	-107.5440420
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	5/15/2024	8.58	63.30	49,324.90000000

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		267.610

Survey Program	Date	10/1/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
517.00	2,372.00	Survey #1 - Surface (OH)	MWD+HDGM	OWSG MWD + HDGM	
2,467.00	6,575.00	Survey #2 - Intermediate (OH)	MWD+HDGM	OWSG MWD + HDGM	
6,643.00	7,797.00	Survey #3 - Curve (OH)	MWD+HDGM	OWSG MWD + HDGM	
7,891.00	20,304.00	Survey #4 - Lateral (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	
517.00	1.85	131.560	516.91	-5.54	6.24	-6.01	0.36	0.36	0.00	
607.00	2.84	152.970	606.84	-8.49	8.35	-7.98	1.45	1.10	23.79	
696.00	4.92	171.610	695.63	-14.23	9.90	-9.30	2.70	2.34	20.94	
786.00	7.49	175.680	785.10	-23.90	10.91	-9.90	2.90	2.86	4.52	
875.00	9.96	178.680	873.06	-37.38	11.52	-9.96	2.82	2.78	3.37	
965.00	11.86	182.040	961.43	-54.40	11.37	-9.10	2.23	2.11	3.73	



Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 32 7 603 Federal Com 613H - Slot A07
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 7 603 Federal Com 613H	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)
1,056.00	12.77	181.220	1,050.33	-73.80	10.83	-7.74	1.02	1.00	-0.90
1,150.00	13.18	180.090	1,141.93	-94.91	10.59	-6.62	0.51	0.44	-1.20
1,244.00	12.32	179.380	1,233.62	-115.65	10.68	-5.85	0.93	-0.91	-0.76
1,338.00	11.14	179.880	1,325.65	-134.76	10.81	-5.18	1.26	-1.26	0.53
1,433.00	11.69	180.180	1,418.77	-153.56	10.80	-4.38	0.58	0.58	0.32
1,526.00	12.32	180.070	1,509.74	-172.91	10.76	-3.54	0.68	0.68	-0.12
1,620.00	11.53	182.920	1,601.71	-192.32	10.26	-2.24	1.05	-0.84	3.03
1,714.00	11.42	183.600	1,693.83	-210.99	9.20	-0.40	0.19	-0.12	0.72
1,807.00	12.12	183.060	1,784.87	-229.92	8.10	1.49	0.76	0.75	-0.58
1,900.00	12.87	182.480	1,875.67	-250.02	7.13	3.30	0.82	0.81	-0.62
1,994.00	12.88	182.030	1,967.31	-270.95	6.31	5.00	0.11	0.01	-0.48
2,088.00	10.90	183.630	2,059.29	-290.29	5.38	6.74	2.14	-2.11	1.70
2,183.00	11.24	185.280	2,152.52	-308.48	3.95	8.91	0.49	0.36	1.74
2,277.00	11.86	184.910	2,244.61	-327.22	2.28	11.36	0.66	0.66	-0.39
2,372.00	12.66	184.510	2,337.45	-347.33	0.63	13.85	0.85	0.84	-0.42
2,467.00	11.88	184.550	2,430.28	-367.45	-0.96	16.29	0.82	-0.82	0.04
2,561.00	11.17	183.700	2,522.38	-386.19	-2.32	18.42	0.78	-0.76	-0.90
2,656.00	11.81	183.320	2,615.48	-405.07	-3.48	20.37	0.68	0.67	-0.40
2,751.00	12.99	181.660	2,708.26	-425.45	-4.35	22.09	1.30	1.24	-1.75
2,845.00	12.67	184.630	2,799.91	-446.29	-5.49	24.09	0.78	-0.34	3.16
2,939.00	11.99	184.830	2,891.74	-466.29	-7.14	26.58	0.72	-0.72	0.21
3,034.00	12.35	182.900	2,984.61	-486.27	-8.49	28.76	0.57	0.38	-2.03
3,128.00	13.46	180.280	3,076.23	-507.25	-9.05	30.19	1.33	1.18	-2.79
3,222.00	13.18	179.510	3,167.71	-528.91	-9.01	31.06	0.35	-0.30	-0.82
3,316.00	11.77	179.340	3,259.48	-549.21	-8.81	31.70	1.50	-1.50	-0.18
3,410.00	11.35	179.560	3,351.58	-568.05	-8.63	32.31	0.45	-0.45	0.23
3,504.00	11.38	178.820	3,443.73	-586.57	-8.36	32.82	0.16	0.03	-0.79
3,598.00	11.39	178.420	3,535.88	-605.12	-7.92	33.14	0.08	0.01	-0.43
3,692.00	12.18	178.170	3,627.90	-624.31	-7.34	33.37	0.84	0.84	-0.27
3,785.00	12.84	180.250	3,718.69	-644.45	-7.08	33.94	0.86	0.71	2.24
3,878.00	12.01	182.760	3,809.52	-664.45	-7.59	35.29	1.06	-0.89	2.70
3,971.00	11.22	186.170	3,900.61	-683.11	-9.03	37.50	1.13	-0.85	3.67
4,064.00	10.46	188.090	3,991.95	-700.46	-11.19	40.39	0.90	-0.82	2.06
4,158.00	9.96	188.240	4,084.46	-716.95	-13.55	43.44	0.53	-0.53	0.16
4,252.00	9.31	185.810	4,177.14	-732.56	-15.49	46.02	0.82	-0.69	-2.59
4,346.00	8.60	183.590	4,269.99	-747.14	-16.70	47.84	0.84	-0.76	-2.36
4,440.00	8.55	182.260	4,362.94	-761.14	-17.41	49.14	0.22	-0.05	-1.41
4,535.00	8.40	182.030	4,456.90	-775.13	-17.94	50.24	0.16	-0.16	-0.24
4,629.00	7.00	181.910	4,550.05	-787.72	-18.37	51.20	1.49	-1.49	-0.13
4,723.00	5.54	177.500	4,643.49	-797.98	-18.36	51.62	1.63	-1.55	-4.69
4,817.00	5.01	179.370	4,737.09	-806.61	-18.12	51.74	0.59	-0.56	1.99
4,911.00	5.01	178.180	4,830.73	-814.82	-17.95	51.91	0.11	0.00	-1.27
5,005.00	3.74	177.540	4,924.46	-821.99	-17.68	51.95	1.35	-1.35	-0.68



Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 32 7 603 Federal Com 613H - Slot A07
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 7 603 Federal Com 613H	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)
5,099.00	2.30	184.210	5,018.32	-826.93	-17.69	52.16	1.57	-1.53	7.10
5,192.00	1.16	200.080	5,111.28	-829.68	-18.15	52.73	1.32	-1.23	17.06
5,286.00	0.61	234.550	5,205.27	-830.86	-18.88	53.52	0.79	-0.59	36.67
5,380.00	0.57	275.780	5,299.26	-831.10	-19.76	54.40	0.44	-0.04	43.86
5,473.00	0.74	286.070	5,392.26	-830.89	-20.79	55.43	0.22	0.18	11.06
5,567.00	0.97	283.980	5,486.25	-830.53	-22.15	56.77	0.25	0.24	-2.22
5,660.00	1.13	293.820	5,579.23	-829.97	-23.75	58.34	0.26	0.17	10.58
5,754.00	0.72	311.040	5,673.22	-829.21	-25.05	59.60	0.52	-0.44	18.32
5,848.00	0.51	304.370	5,767.21	-828.58	-25.84	60.37	0.24	-0.22	-7.10
5,942.00	0.44	289.580	5,861.21	-828.23	-26.52	61.04	0.15	-0.07	-15.73
6,037.00	0.40	296.430	5,956.21	-827.96	-27.16	61.67	0.07	-0.04	7.21
6,131.00	0.57	311.160	6,050.21	-827.50	-27.81	62.29	0.22	0.18	15.67
6,226.00	1.05	323.740	6,145.20	-826.49	-28.68	63.12	0.54	0.51	13.24
6,320.00	1.50	331.190	6,239.17	-824.72	-29.78	64.15	0.51	0.48	7.93
6,414.00	1.91	324.690	6,333.13	-822.36	-31.28	65.55	0.48	0.44	-6.91
6,508.00	2.20	316.910	6,427.07	-819.76	-33.42	67.57	0.43	0.31	-8.28
6,575.00	2.33	313.950	6,494.02	-817.88	-35.28	69.35	0.26	0.19	-4.42
6,643.00	2.33	307.350	6,561.96	-816.08	-37.37	71.37	0.39	0.00	-9.71
6,672.00	3.61	293.870	6,590.92	-815.36	-38.67	72.64	5.00	4.41	-46.48
6,765.00	12.30	292.190	6,682.94	-810.42	-50.55	84.30	9.35	9.34	-1.81
6,859.00	14.07	280.550	6,774.47	-804.55	-71.06	104.54	3.39	1.88	-12.38
6,953.00	22.22	270.760	6,863.74	-802.21	-100.12	133.48	9.23	8.67	-10.41
7,047.00	29.99	264.750	6,948.11	-804.13	-141.35	174.76	8.72	8.27	-6.39
7,141.00	37.55	264.790	7,026.19	-808.89	-193.35	226.91	8.04	8.04	0.04
7,235.00	45.89	265.830	7,096.29	-813.95	-255.64	289.36	8.90	8.87	1.11
7,328.00	55.73	266.890	7,154.98	-818.48	-327.49	361.34	10.62	10.58	1.14
7,422.00	64.21	267.650	7,201.98	-822.32	-408.71	442.64	9.05	9.02	0.81
7,516.00	64.99	266.660	7,242.30	-826.54	-493.51	527.55	1.26	0.83	-1.05
7,609.00	70.08	269.760	7,277.84	-829.18	-579.37	613.45	6.28	5.47	3.33
7,635.00	71.35	269.540	7,286.42	-829.33	-603.91	637.97	4.96	4.89	-0.85
FTP @ 7635' MD - 36.9450110, -107.5461086									
7,704.00	74.73	268.970	7,306.55	-830.19	-669.90	703.93	4.96	4.90	-0.83
7,797.00	80.46	268.880	7,326.52	-831.90	-760.67	794.70	6.16	6.16	-0.10
7,891.00	89.19	270.460	7,334.99	-832.43	-854.19	888.16	9.44	9.29	1.68
7,985.00	89.33	269.100	7,336.20	-832.79	-948.18	982.09	1.45	0.15	-1.45
8,079.00	89.29	268.460	7,337.33	-834.79	-1,042.15	1,076.06	0.68	-0.04	-0.68
8,172.00	89.33	270.520	7,338.45	-835.62	-1,135.14	1,169.00	2.22	0.04	2.22
8,267.00	90.37	268.840	7,338.70	-836.15	-1,230.13	1,263.93	2.08	1.09	-1.77
8,360.00	90.40	270.070	7,338.08	-837.03	-1,323.12	1,356.88	1.32	0.03	1.32
8,454.00	90.27	269.810	7,337.53	-837.13	-1,417.12	1,450.80	0.31	-0.14	-0.28
8,548.00	90.40	270.740	7,336.98	-836.68	-1,511.12	1,544.69	1.00	0.14	0.99
8,642.00	90.47	271.640	7,336.27	-834.73	-1,605.09	1,638.51	0.96	0.07	0.96



Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 32 7 603 Federal Com 613H - Slot A07
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 7 603 Federal Com 613H	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)
8,735.00	90.60	271.480	7,335.40	-832.20	-1,698.06	1,731.28	0.22	0.14	-0.17
8,830.00	91.14	272.510	7,333.95	-828.89	-1,792.99	1,825.99	1.22	0.57	1.08
8,923.00	90.97	271.100	7,332.24	-825.96	-1,885.92	1,918.72	1.53	-0.18	-1.52
9,017.00	91.04	270.920	7,330.59	-824.30	-1,979.89	2,012.55	0.21	0.07	-0.19
9,111.00	90.91	270.890	7,328.99	-822.82	-2,073.87	2,106.38	0.14	-0.14	-0.03
9,204.00	91.24	271.520	7,327.25	-820.86	-2,166.83	2,199.18	0.76	0.35	0.68
9,298.00	90.84	271.180	7,325.54	-818.65	-2,260.79	2,292.96	0.56	-0.43	-0.36
9,392.00	90.87	270.170	7,324.14	-817.54	-2,354.77	2,386.81	1.07	0.03	-1.07
9,487.00	90.61	271.320	7,322.91	-816.31	-2,449.75	2,481.66	1.24	-0.27	1.21
9,581.00	90.50	271.270	7,322.00	-814.18	-2,543.72	2,575.46	0.13	-0.12	-0.05
9,674.00	90.37	271.500	7,321.30	-811.94	-2,636.69	2,668.26	0.28	-0.14	0.25
9,769.00	90.74	272.060	7,320.38	-808.98	-2,731.64	2,763.00	0.71	0.39	0.59
9,863.00	90.50	271.680	7,319.36	-805.92	-2,825.59	2,856.74	0.48	-0.26	-0.40
9,957.00	90.64	271.670	7,318.42	-803.17	-2,919.54	2,950.50	0.15	0.15	-0.01
10,050.00	90.81	272.110	7,317.25	-800.10	-3,012.48	3,043.23	0.51	0.18	0.47
10,144.00	90.87	271.950	7,315.87	-796.77	-3,106.41	3,136.94	0.18	0.06	-0.17
10,238.00	90.81	271.320	7,314.49	-794.09	-3,200.37	3,230.70	0.67	-0.06	-0.67
10,332.00	90.98	271.720	7,313.02	-791.60	-3,294.32	3,324.47	0.46	0.18	0.43
10,426.00	91.14	271.670	7,311.28	-788.82	-3,388.26	3,418.21	0.18	0.17	-0.05
10,520.00	90.74	270.710	7,309.74	-786.87	-3,482.23	3,512.01	1.11	-0.43	-1.02
10,614.00	90.94	272.340	7,308.36	-784.37	-3,576.18	3,605.78	1.75	0.21	1.73
10,708.00	90.60	272.690	7,307.10	-780.24	-3,670.08	3,699.43	0.52	-0.36	0.37
10,801.00	90.81	272.670	7,305.96	-775.89	-3,762.98	3,792.06	0.23	0.23	-0.02
10,895.00	90.60	272.150	7,304.80	-771.94	-3,856.88	3,885.72	0.60	-0.22	-0.55
10,988.00	90.64	270.600	7,303.79	-769.71	-3,949.85	3,978.51	1.67	0.04	-1.67
11,082.00	90.81	270.310	7,302.60	-768.96	-4,043.84	4,072.39	0.36	0.18	-0.31
11,177.00	90.74	270.650	7,301.32	-768.17	-4,138.83	4,167.26	0.37	-0.07	0.36
11,271.00	90.74	270.430	7,300.10	-767.28	-4,232.81	4,261.13	0.23	0.00	-0.23
11,365.00	90.60	271.250	7,299.01	-765.90	-4,326.80	4,354.97	0.88	-0.15	0.87
11,458.00	90.74	270.240	7,297.92	-764.69	-4,419.78	4,447.83	1.10	0.15	-1.09
11,552.00	90.47	270.500	7,296.93	-764.09	-4,513.77	4,541.71	0.40	-0.29	0.28
11,645.00	90.40	270.480	7,296.22	-763.29	-4,606.77	4,634.59	0.08	-0.08	-0.02
11,739.00	90.60	271.220	7,295.40	-761.90	-4,700.75	4,728.44	0.82	0.21	0.79
11,832.00	90.77	271.860	7,294.29	-759.40	-4,793.71	4,821.21	0.71	0.18	0.69
11,926.00	90.57	270.930	7,293.19	-757.11	-4,887.68	4,915.00	1.01	-0.21	-0.99
12,020.00	90.47	270.880	7,292.34	-755.63	-4,981.66	5,008.84	0.12	-0.11	-0.05
12,115.00	90.81	271.460	7,291.27	-753.69	-5,076.64	5,103.65	0.71	0.36	0.61
12,208.00	90.70	272.330	7,290.05	-750.61	-5,169.58	5,196.38	0.94	-0.12	0.94
12,303.00	90.74	272.260	7,288.85	-746.81	-5,264.49	5,291.06	0.08	0.04	-0.07
12,397.00	90.47	272.350	7,287.86	-743.03	-5,358.41	5,384.73	0.30	-0.29	0.10
12,490.00	90.03	271.370	7,287.46	-740.01	-5,451.36	5,477.48	1.16	-0.47	-1.05
12,584.00	89.73	272.040	7,287.65	-737.21	-5,545.32	5,571.24	0.78	-0.32	0.71
12,678.00	90.17	271.750	7,287.74	-734.10	-5,639.27	5,664.97	0.56	0.47	-0.31



Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 32 7 603 Federal Com 613H - Slot A07
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 7 603 Federal Com 613H	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)
12,772.00	91.01	273.950	7,286.77	-729.43	-5,733.14	5,758.57	2.51	0.89	2.34
12,866.00	90.60	274.820	7,285.45	-722.24	-5,826.85	5,851.90	1.02	-0.44	0.93
12,960.00	90.34	273.570	7,284.68	-715.37	-5,920.60	5,945.28	1.36	-0.28	-1.33
13,054.00	90.74	273.570	7,283.79	-709.51	-6,014.41	6,038.76	0.43	0.43	0.00
13,148.00	91.21	272.700	7,282.19	-704.37	-6,108.25	6,132.31	1.05	0.50	-0.93
13,241.00	90.17	270.910	7,281.07	-701.45	-6,201.19	6,225.05	2.23	-1.12	-1.92
13,335.00	90.27	270.840	7,280.71	-700.01	-6,295.18	6,318.90	0.13	0.11	-0.07
13,429.00	89.87	271.290	7,280.59	-698.26	-6,389.17	6,412.73	0.64	-0.43	0.48
13,523.00	89.77	271.980	7,280.89	-695.58	-6,483.13	6,506.49	0.74	-0.11	0.73
13,617.00	89.60	271.520	7,281.41	-692.71	-6,577.08	6,600.25	0.52	-0.18	-0.49
13,711.00	90.13	271.770	7,281.63	-690.01	-6,671.04	6,694.01	0.62	0.56	0.27
13,805.00	89.97	271.800	7,281.55	-687.08	-6,765.00	6,787.76	0.17	-0.17	0.03
13,899.00	89.80	271.060	7,281.73	-684.74	-6,858.97	6,881.55	0.81	-0.18	-0.79
13,993.00	89.83	270.720	7,282.04	-683.28	-6,952.95	6,975.40	0.36	0.03	-0.36
14,087.00	89.73	269.730	7,282.40	-682.91	-7,046.95	7,069.30	1.06	-0.11	-1.05
14,181.00	89.66	269.740	7,282.90	-683.34	-7,140.95	7,163.23	0.08	-0.07	0.01
14,275.00	89.53	269.980	7,283.56	-683.57	-7,234.95	7,257.16	0.29	-0.14	0.26
14,370.00	90.10	270.910	7,283.87	-682.84	-7,329.94	7,352.04	1.15	0.60	0.98
14,464.00	89.97	270.880	7,283.81	-681.37	-7,423.93	7,445.89	0.14	-0.14	-0.03
14,558.00	90.07	271.080	7,283.78	-679.76	-7,517.92	7,539.72	0.24	0.11	0.21
14,652.00	90.03	270.460	7,283.70	-678.50	-7,611.91	7,633.58	0.66	-0.04	-0.66
14,747.00	90.13	270.750	7,283.57	-677.49	-7,706.90	7,728.45	0.32	0.11	0.31
14,841.00	90.03	270.990	7,283.43	-676.07	-7,800.89	7,822.30	0.28	-0.11	0.26
14,935.00	90.10	271.980	7,283.33	-673.63	-7,894.86	7,916.08	1.06	0.07	1.05
15,029.00	90.03	271.630	7,283.22	-670.67	-7,988.81	8,009.83	0.38	-0.07	-0.37
15,123.00	90.10	271.400	7,283.11	-668.18	-8,082.78	8,103.61	0.26	0.07	-0.24
15,217.00	90.00	270.770	7,283.03	-666.40	-8,176.76	8,197.44	0.68	-0.11	-0.67
15,311.00	89.83	271.190	7,283.17	-664.80	-8,270.75	8,291.28	0.48	-0.18	0.45
15,406.00	90.00	271.040	7,283.31	-662.95	-8,365.73	8,386.10	0.24	0.18	-0.16
15,500.00	90.00	272.270	7,283.31	-660.23	-8,459.69	8,479.86	1.31	0.00	1.31
15,594.00	90.03	271.280	7,283.29	-657.32	-8,553.64	8,573.61	1.05	0.03	-1.05
15,688.00	89.66	271.080	7,283.54	-655.39	-8,647.62	8,667.43	0.45	-0.39	-0.21
15,783.00	90.00	271.610	7,283.82	-653.16	-8,742.59	8,762.23	0.66	0.36	0.56
15,877.00	89.97	271.850	7,283.85	-650.32	-8,836.55	8,855.98	0.26	-0.03	0.26
15,970.00	90.10	270.990	7,283.79	-648.01	-8,929.52	8,948.78	0.94	0.14	-0.92
16,064.00	89.77	271.460	7,283.90	-646.00	-9,023.50	9,042.59	0.61	-0.35	0.50
16,158.00	89.77	271.380	7,284.28	-643.67	-9,117.47	9,136.38	0.09	0.00	-0.09
16,252.00	89.77	271.240	7,284.65	-641.53	-9,211.44	9,230.18	0.15	0.00	-0.15
16,347.00	90.10	271.680	7,284.76	-639.11	-9,306.41	9,324.97	0.58	0.35	0.46
16,441.00	90.07	271.350	7,284.62	-636.62	-9,400.38	9,418.75	0.35	-0.03	-0.35
16,535.00	90.03	271.990	7,284.54	-633.88	-9,494.34	9,512.51	0.68	-0.04	0.68
16,630.00	90.20	271.570	7,284.35	-630.93	-9,589.29	9,607.26	0.48	0.18	-0.44



Scientific Drilling Survey Report



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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 7 603 Federal Com 613H	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)
16,724.00	90.17	271.530	7,284.05	-628.39	-9,683.26	9,701.04	0.05	-0.03	-0.04
16,819.00	90.17	271.470	7,283.76	-625.90	-9,778.23	9,795.82	0.06	0.00	-0.06
16,913.00	90.24	271.990	7,283.43	-623.06	-9,872.18	9,889.58	0.56	0.07	0.55
17,007.00	90.37	271.700	7,282.93	-620.04	-9,966.13	9,983.32	0.34	0.14	-0.31
17,101.00	90.10	271.140	7,282.54	-617.71	-10,060.10	10,077.11	0.66	-0.29	-0.60
17,196.00	89.83	271.460	7,282.60	-615.55	-10,155.08	10,171.91	0.44	-0.28	0.34
17,290.00	90.13	272.080	7,282.63	-612.65	-10,249.03	10,265.66	0.73	0.32	0.66
17,384.00	89.93	270.780	7,282.58	-610.30	-10,343.00	10,359.45	1.40	-0.21	-1.38
17,478.00	89.63	270.600	7,282.94	-609.17	-10,436.99	10,453.32	0.37	-0.32	-0.19
17,571.00	90.00	271.850	7,283.24	-607.18	-10,529.97	10,546.13	1.40	0.40	1.34
17,665.00	90.07	270.780	7,283.19	-605.02	-10,623.94	10,639.93	1.14	0.07	-1.14
17,759.00	90.03	271.370	7,283.10	-603.26	-10,717.93	10,733.76	0.63	-0.04	0.63
17,853.00	89.80	271.540	7,283.24	-600.87	-10,811.90	10,827.55	0.30	-0.24	0.18
17,947.00	89.87	271.640	7,283.51	-598.27	-10,905.86	10,921.32	0.13	0.07	0.11
18,042.00	89.93	271.420	7,283.68	-595.73	-11,000.82	11,016.10	0.24	0.06	-0.23
18,136.00	90.03	271.290	7,283.71	-593.51	-11,094.80	11,109.90	0.17	0.11	-0.14
18,230.00	90.17	270.580	7,283.55	-591.97	-11,188.79	11,203.74	0.77	0.15	-0.76
18,324.00	89.90	271.350	7,283.49	-590.39	-11,282.77	11,297.58	0.87	-0.29	0.82
18,418.00	90.03	271.630	7,283.55	-587.95	-11,376.74	11,391.36	0.33	0.14	0.30
18,511.00	89.83	271.630	7,283.66	-585.30	-11,469.70	11,484.13	0.22	-0.22	0.00
18,606.00	90.00	271.230	7,283.80	-582.93	-11,564.67	11,578.92	0.46	0.18	-0.42
18,700.00	90.10	271.540	7,283.72	-580.66	-11,658.64	11,672.72	0.35	0.11	0.33
18,795.00	90.20	271.380	7,283.47	-578.24	-11,753.61	11,767.50	0.20	0.11	-0.17
18,888.00	89.97	271.940	7,283.34	-575.54	-11,846.57	11,860.27	0.65	-0.25	0.60
18,982.00	89.97	271.740	7,283.38	-572.52	-11,940.52	11,954.01	0.21	0.00	-0.21
19,076.00	89.93	271.450	7,283.47	-569.91	-12,034.49	12,047.79	0.31	-0.04	-0.31
19,170.00	90.03	271.700	7,283.50	-567.32	-12,128.45	12,141.56	0.29	0.11	0.27
19,265.00	89.87	270.580	7,283.58	-565.43	-12,223.43	12,236.38	1.19	-0.17	-1.18
19,359.00	90.07	270.900	7,283.63	-564.22	-12,317.42	12,330.24	0.40	0.21	0.34
19,451.00	90.17	270.900	7,283.44	-562.78	-12,409.41	12,422.09	0.11	0.11	0.00
19,546.00	90.03	270.630	7,283.27	-561.51	-12,504.40	12,516.94	0.32	-0.15	-0.28
19,640.00	89.97	270.820	7,283.27	-560.32	-12,598.40	12,610.80	0.21	-0.06	0.20
19,734.00	89.87	271.510	7,283.40	-558.41	-12,692.38	12,704.62	0.74	-0.11	0.73
19,828.00	89.93	270.630	7,283.57	-556.65	-12,786.36	12,798.45	0.94	0.06	-0.94
19,922.00	90.17	270.730	7,283.49	-555.54	-12,880.35	12,892.31	0.28	0.26	0.11
20,016.00	90.07	271.330	7,283.29	-553.85	-12,974.34	12,986.15	0.65	-0.11	0.64
20,110.00	90.03	270.860	7,283.21	-552.05	-13,068.32	13,079.97	0.50	-0.04	-0.50
20,204.00	90.07	271.210	7,283.13	-550.35	-13,162.30	13,173.80	0.37	0.04	0.37
20,210.00	90.06	271.214	7,283.12	-550.22	-13,168.30	13,179.79	0.23	-0.22	0.06
LTP @ 20,210' MD - 36.9457691, -107.5891042									
20,282.00	89.90	271.260	7,283.15	-548.67	-13,240.28	13,251.65	0.23	-0.22	0.06
20,304.00	89.90	271.260	7,283.18	-548.19	-13,262.28	13,273.60	0.00	0.00	0.00

Scientific Drilling
Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 32 7 603 Federal Com 613H - Slot A07
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 7 603 Federal Com 613H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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 395940

ACKNOWLEDGMENTS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 395940
	Action Type: [C-104] Completion Packet - Test Allowable (C-104RT)

ACKNOWLEDGMENTS

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

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CONDITIONS

Action 395940

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 395940
	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.	10/25/2024
smcgrath	RT Expires 01/26/2025	10/25/2024