

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
--	---	---

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: Burnt Mesa Federal Com 602H	Property Code: 318466
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	API Number: 30-045-38339
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		1134' S	259' W	36.947569	-107.544654	San Juan

Section 3 – Completion Information

Producing Method N/A	Ready Date ~10/28/2024	Perforations MD 7825' – 17,733'	Perforations TVD 7318'–7318'
-------------------------	---------------------------	------------------------------------	---------------------------------

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: 383675	Unit: ☐ Yes ☒ No, Order No.
Intermediate 1 Casing Action ID: 383675	Compulsory Pooling: ☐ Yes ☒ No, Order No.
Intermediate 2 Casing Action ID:	Down Hole Commingling: ☐ Yes ☒ No, Order No.
Production Casing Action ID: 383675	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 30-045-38339	Pool Code 97232	Pool Name BASIN MANCOS
Property Code 318466	Property Name BURNT MESA FEDERAL COM	Well Number 602H
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 1134' SOUTH	Feet from E/W Line 259' WEST	Latitude 36.947569 °N	Longitude -107.544654 °W	County SAN JUAN
---------	---------------	-----------------	-------------	-----	-----------------------------------	---------------------------------	--------------------------	-----------------------------	--------------------

Bottom Hole Location

UL I	Section 25	Township 32N	Range 7W	Lot	Feet from N/S Line 1929' SOUTH	Feet from E/W Line 249' EAST	Latitude 36.949135 °N	Longitude -107.510130 °W	County SAN JUAN
---------	---------------	-----------------	-------------	-----	-----------------------------------	---------------------------------	--------------------------	-----------------------------	--------------------

Dedicated Acres 640.00	Penetrated Spacing Unit: S/2 - Section 25, T32N, R7W S/2 - Section 26, T32N, R7W	Infill or Defining Well Defining	Defining Well API 30-045-38339	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 1144' SOUTH	Feet from E/W Line 251' WEST	Latitude 36.947598 °N	Longitude -107.544685 °W	County SAN JUAN
---------	---------------	-----------------	-------------	-----	-----------------------------------	---------------------------------	--------------------------	-----------------------------	--------------------

First Take Point (FTP)

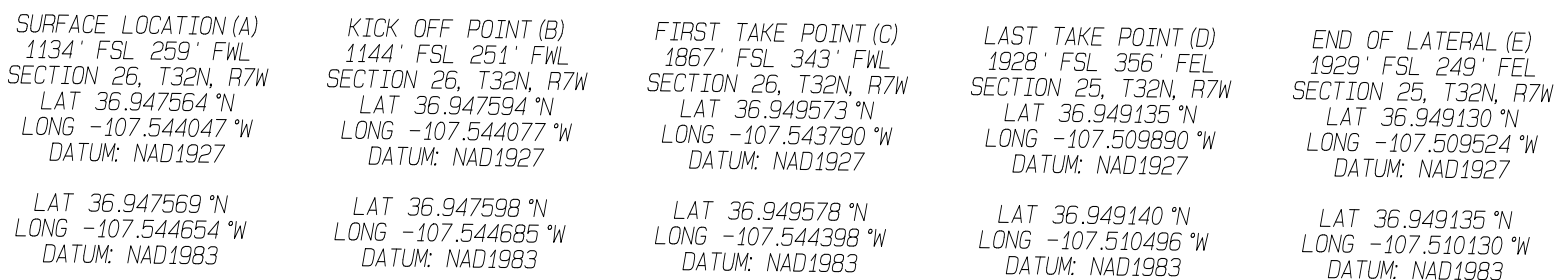
UL L	Section 26	Township 32N	Range 7W	Lot	Feet from N/S Line 1867' SOUTH	Feet from E/W Line 343' WEST	Latitude 36.949578 °N	Longitude -107.544398 °W	County SAN JUAN
---------	---------------	-----------------	-------------	-----	-----------------------------------	---------------------------------	--------------------------	-----------------------------	--------------------

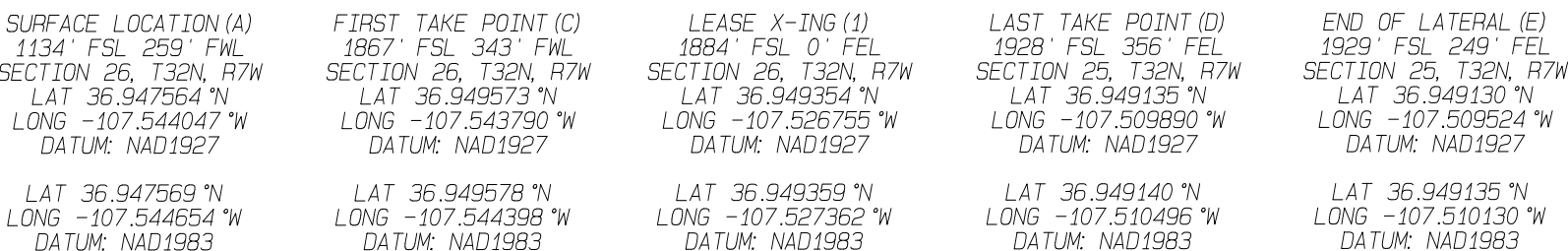
Last Take Point (LTP)

UL I	Section 25	Township 32N	Range 7W	Lot	Feet from N/S Line 1928' SOUTH	Feet from E/W Line 356' EAST	Latitude 36.949140 °N	Longitude -107.510496 °W	County SAN JUAN
---------	---------------	-----------------	-------------	-----	-----------------------------------	---------------------------------	--------------------------	-----------------------------	--------------------

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical ☐ Directional	Ground Floor Elevation
---	--	------------------------

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
--	---







Survey Certification

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

Operator	HilCorp Energy
Well Name & No.	Burnt Mesa Federal Com 602H
API #	30-045-38339
County & State	San Juan County, NM
SDI Job #	OP.044670
Rig	Nabors B29
Survey Date	5/18/2024 to 7/27/2024
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 453 feet to a measured depth of 17,840 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

19-Aug-2024

Date

Janie Collins

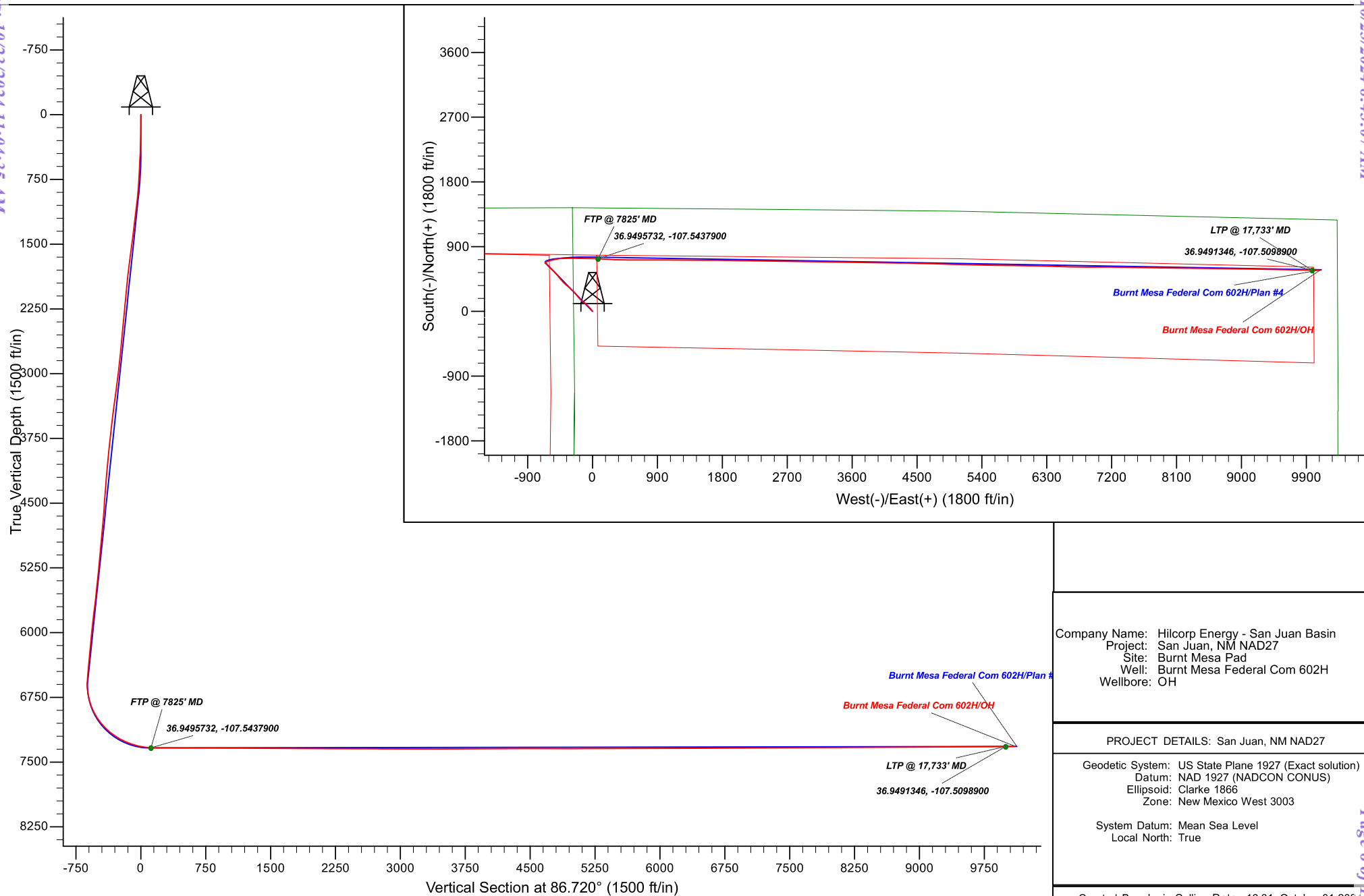
Rockies Region Well Planner
Scientific Drilling - Rocky Mountain District



WELL DETAILS: Burnt Mesa Federal Com 602H

+N/-S	+E/-W	GL 6748' & RKB 25.1' @ 6773.10ft (Nabors B29)	6748.00
0.00	0.00	Northing	Easting
		2164308.17	584534.09
		Latitude	Longitude
		36.9475640	-107.5440470

A11





Hilcorp Energy - San Juan Basin

San Juan, NM NAD27

Burnt Mesa Pad

Burnt Mesa Federal Com 602H - Slot A11

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 Burnt Mesa Federal Com 602H - Slot A11
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:	Burnt Mesa Federal Com 602H	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	Burnt Mesa Federal Com 602H - Slot A11					
Well Position	+N/-S	0.00 ft	Northing:	2,164,308.17 usft	Latitude:	36.9475640
	+E/-W	0.00 ft	Easting:	584,534.09 usft	Longitude:	-107.5440470
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	49,325.30000000

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	86.720	

Survey Program	Date	10/1/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
453.00	2,366.00	Survey #1 - Surface (OH)	MWD+HDGM	OWSG MWD + HDGM	
2,460.00	6,565.00	Survey #2 - Intermediate (OH)	MWD+HDGM	OWSG MWD + HDGM	
6,660.00	7,787.00	Survey #3 - Curve (OH)	MWD+HDGM	OWSG MWD + HDGM	
7,880.00	17,840.00	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	
453.00	3.52	320.870	452.72	10.79	-8.78	-8.15	0.78	0.78	0.00	
512.00	4.37	319.770	511.57	13.91	-11.37	-10.56	1.45	1.44	-1.86	
601.00	4.84	319.750	600.29	19.37	-15.99	-14.86	0.53	0.53	-0.02	
692.00	5.43	321.190	690.92	25.65	-21.17	-19.67	0.66	0.65	1.58	
782.00	6.01	323.320	780.47	32.75	-26.65	-24.73	0.69	0.64	2.37	
871.00	8.19	321.380	868.79	41.44	-33.39	-30.97	2.46	2.45	-2.18	
960.00	9.80	318.670	956.69	52.08	-42.35	-39.30	1.87	1.81	-3.04	



Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well Burnt Mesa Federal Com 602H - Slot A11
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:	Burnt Mesa Federal Com 602H	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)
1,055.00	10.33	318.050	1,050.23	64.49	-53.39	-49.61	0.57	0.56	-0.65
1,144.00	10.14	315.350	1,137.81	75.99	-64.23	-59.77	0.58	-0.21	-3.03
1,238.00	10.97	313.510	1,230.22	88.04	-76.53	-71.36	0.95	0.88	-1.96
1,332.00	9.60	311.210	1,322.71	99.36	-88.91	-83.08	1.52	-1.46	-2.45
1,427.00	8.82	309.810	1,416.48	109.24	-100.47	-94.05	0.85	-0.82	-1.47
1,520.00	9.32	307.870	1,508.32	118.43	-111.89	-104.93	0.63	0.54	-2.09
1,614.00	10.15	305.060	1,600.97	127.86	-124.68	-117.16	1.02	0.88	-2.99
1,708.00	9.98	305.980	1,693.52	137.40	-138.05	-129.96	0.25	-0.18	0.98
1,801.00	9.19	311.980	1,785.22	147.11	-150.09	-141.43	1.37	-0.85	6.45
1,894.00	8.61	316.650	1,877.10	157.14	-160.39	-151.14	1.00	-0.62	5.02
1,988.00	8.73	317.600	1,970.03	167.52	-170.03	-160.17	0.20	0.13	1.01
2,082.00	8.95	316.420	2,062.91	178.09	-179.88	-169.40	0.30	0.23	-1.26
2,176.00	9.63	317.280	2,155.68	189.16	-190.25	-179.12	0.74	0.72	0.91
2,271.00	8.58	320.280	2,249.48	200.45	-200.17	-188.38	1.21	-1.11	3.16
2,366.00	8.75	320.710	2,343.40	211.49	-209.28	-196.84	0.19	0.18	0.45
2,460.00	9.17	320.810	2,436.25	222.83	-218.54	-205.43	0.45	0.45	0.11
2,555.00	8.38	319.860	2,530.14	233.99	-227.79	-214.02	0.85	-0.83	-1.00
2,650.00	8.98	320.060	2,624.05	244.97	-237.01	-222.60	0.63	0.63	0.21
2,745.00	9.68	318.420	2,717.79	256.63	-247.07	-231.98	0.79	0.74	-1.73
2,839.00	9.14	318.020	2,810.53	268.09	-257.31	-241.55	0.58	-0.57	-0.43
2,934.00	9.39	315.610	2,904.29	279.23	-267.78	-251.36	0.49	0.26	-2.54
3,028.00	10.02	315.500	2,996.94	290.55	-278.87	-261.79	0.67	0.67	-0.12
3,122.00	10.49	313.500	3,089.44	302.27	-290.81	-273.04	0.63	0.50	-2.13
3,216.00	10.72	313.830	3,181.83	314.21	-303.32	-284.85	0.25	0.24	0.35
3,311.00	10.72	312.940	3,275.18	326.35	-316.17	-296.98	0.17	0.00	-0.94
3,404.00	10.39	310.340	3,366.60	337.67	-328.89	-309.03	0.62	-0.35	-2.80
3,505.00	9.86	309.880	3,466.03	349.11	-342.47	-321.93	0.53	-0.52	-0.46
3,599.00	9.59	307.130	3,558.68	359.00	-354.89	-333.77	0.57	-0.29	-2.93
3,693.00	9.06	308.770	3,651.44	368.36	-366.90	-345.22	0.63	-0.56	1.74
3,786.00	8.36	314.200	3,743.37	377.66	-377.46	-355.23	1.16	-0.75	5.84
3,879.00	8.17	315.470	3,835.40	387.08	-386.94	-364.16	0.28	-0.20	1.37
3,972.00	8.42	315.850	3,927.43	396.68	-396.31	-372.97	0.28	0.27	0.41
4,065.00	8.12	313.710	4,019.46	406.10	-405.80	-381.90	0.46	-0.32	-2.30
4,159.00	7.51	312.000	4,112.59	414.80	-415.17	-390.76	0.69	-0.65	-1.82
4,253.00	7.25	317.710	4,205.81	423.30	-423.73	-398.81	0.83	-0.28	6.07
4,347.00	7.02	320.250	4,299.08	432.11	-431.39	-405.96	0.42	-0.24	2.70
4,441.00	7.67	323.500	4,392.31	441.56	-438.79	-412.81	0.82	0.69	3.46
4,535.00	8.11	323.150	4,485.42	451.91	-446.50	-419.91	0.47	0.47	-0.37
4,629.00	7.71	322.780	4,578.52	462.24	-454.29	-427.10	0.43	-0.43	-0.39
4,724.00	7.97	322.150	4,672.64	472.51	-462.19	-434.40	0.29	0.27	-0.66
4,818.00	8.42	319.860	4,765.68	482.92	-470.62	-442.22	0.59	0.48	-2.44
4,912.00	7.52	318.500	4,858.77	492.79	-479.14	-450.16	0.98	-0.96	-1.45
5,006.00	8.33	320.210	4,951.87	502.63	-487.57	-458.01	0.90	0.86	1.82



Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well Burnt Mesa Federal Com 602H - Slot A11
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:	Burnt Mesa Federal Com 602H	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)	
5,100.00	8.55	318.700	5,044.85	513.11	-496.54	-466.37	0.33	0.23	-1.61	
5,193.00	9.00	317.480	5,136.76	523.67	-506.02	-475.23	0.52	0.48	-1.31	
5,287.00	8.59	314.730	5,229.66	534.03	-515.97	-484.57	0.62	-0.44	-2.93	
5,381.00	8.72	314.990	5,322.59	544.00	-526.00	-494.01	0.14	0.14	0.28	
5,474.00	9.22	317.600	5,414.45	554.49	-536.01	-503.41	0.69	0.54	2.81	
5,568.00	9.48	317.360	5,507.20	565.74	-546.33	-513.07	0.28	0.28	-0.26	
5,661.00	9.21	314.770	5,598.97	576.62	-556.80	-522.90	0.54	-0.29	-2.78	
5,755.00	9.59	313.100	5,691.71	587.27	-567.86	-533.33	0.50	0.40	-1.78	
5,849.00	9.69	310.650	5,784.38	597.77	-579.58	-544.43	0.45	0.11	-2.61	
5,943.00	9.04	312.130	5,877.12	607.88	-591.06	-555.31	0.74	-0.69	1.57	
6,037.00	8.80	311.860	5,969.99	617.63	-601.89	-565.57	0.26	-0.26	-0.29	
6,131.00	7.96	312.680	6,062.98	626.84	-612.03	-575.16	0.90	-0.89	0.87	
6,226.00	7.30	314.560	6,157.14	635.54	-621.17	-583.79	0.74	-0.69	1.98	
6,320.00	7.54	313.900	6,250.35	644.00	-629.87	-591.99	0.27	0.26	-0.70	
6,415.00	7.96	314.210	6,344.49	652.91	-639.07	-600.67	0.44	0.44	0.33	
6,509.00	7.96	317.230	6,437.58	662.23	-648.16	-609.21	0.44	0.00	3.21	
6,565.00	7.54	315.120	6,493.07	667.68	-653.38	-614.11	0.91	-0.75	-3.77	
6,660.00	5.99	327.490	6,587.41	676.28	-660.45	-620.67	2.23	-1.63	13.02	
6,754.00	9.01	57.500	6,680.85	684.39	-656.86	-616.63	11.50	3.21	95.76	
6,848.00	15.18	70.910	6,772.74	692.38	-639.01	-598.34	7.17	6.56	14.27	
6,941.00	21.61	74.490	6,860.94	700.95	-610.97	-569.86	7.02	6.91	3.85	
7,036.00	29.63	75.640	6,946.53	711.47	-571.30	-529.65	8.46	8.44	1.21	
7,130.00	36.58	78.270	7,025.23	722.94	-521.30	-479.08	7.55	7.39	2.80	
7,223.00	43.67	83.090	7,096.31	732.45	-462.20	-419.53	8.32	7.62	5.18	
7,317.00	50.78	87.810	7,160.13	737.76	-393.49	-350.63	8.41	7.56	5.02	
7,410.00	58.46	89.780	7,213.94	739.29	-317.74	-274.92	8.44	8.26	2.12	
7,504.00	65.13	91.260	7,258.34	738.50	-234.95	-192.32	7.23	7.10	1.57	
7,598.00	72.34	91.520	7,292.41	736.38	-147.44	-105.07	7.67	7.67	0.28	
7,692.00	78.33	90.050	7,316.20	735.15	-56.55	-14.40	6.55	6.37	-1.56	
7,787.00	84.08	92.400	7,330.72	733.12	37.26	79.15	6.53	6.05	2.47	
7,825.00	86.53	92.572	7,333.83	731.48	75.10	116.82	6.46	6.44	0.45	
FTP @ 7825' MD - 36.9495732, -107.5437900										
7,880.00	90.07	92.820	7,335.47	728.90	130.00	171.49	6.46	6.44	0.45	
7,975.00	89.90	93.200	7,335.49	723.91	224.87	265.92	0.44	-0.18	0.40	
8,069.00	89.83	92.600	7,335.71	719.15	318.75	359.37	0.64	-0.07	-0.64	
8,162.00	89.76	90.610	7,336.04	716.55	411.71	452.03	2.14	-0.08	-2.14	
8,256.00	89.70	90.810	7,336.49	715.38	505.70	545.80	0.22	-0.06	0.21	
8,350.00	89.76	89.760	7,336.93	714.92	599.70	639.62	1.12	0.06	-1.12	
8,444.00	89.80	89.350	7,337.29	715.65	693.69	733.50	0.44	0.04	-0.44	
8,537.00	89.87	90.130	7,337.56	716.07	786.69	826.37	0.84	0.08	0.84	
8,632.00	89.83	89.980	7,337.81	715.98	881.69	921.21	0.16	-0.04	-0.16	
8,726.00	89.60	91.390	7,338.28	714.85	975.68	1,014.98	1.52	-0.24	1.50	
8,820.00	89.73	90.300	7,338.82	713.47	1,069.67	1,108.73	1.17	0.14	-1.16	
8,914.00	89.83	89.870	7,339.19	713.33	1,163.66	1,202.57	0.47	0.11	-0.46	



Scientific Drilling

Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well Burnt Mesa Federal Com 602H - Slot A11
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:	Burnt Mesa Federal Com 602H	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)
9,007.00	89.70	90.260	7,339.57	713.22	1,256.66	1,295.41	0.44	-0.14	0.42
9,101.00	89.83	89.870	7,339.95	713.11	1,350.66	1,389.25	0.44	0.14	-0.41
9,194.00	89.66	91.000	7,340.37	712.41	1,443.66	1,482.05	1.23	-0.18	1.22
9,288.00	89.56	90.510	7,341.01	711.17	1,537.65	1,575.82	0.53	-0.11	-0.52
9,383.00	89.70	89.830	7,341.62	710.89	1,632.64	1,670.64	0.73	0.15	-0.72
9,477.00	89.76	89.930	7,342.06	711.09	1,726.64	1,764.50	0.12	0.06	0.11
9,571.00	89.77	90.560	7,342.45	710.68	1,820.64	1,858.32	0.67	0.01	0.67
9,664.00	89.63	90.690	7,342.94	709.67	1,913.63	1,951.10	0.21	-0.15	0.14
9,758.00	89.73	90.590	7,343.46	708.62	2,007.63	2,044.88	0.15	0.11	-0.11
9,851.00	89.90	90.400	7,343.76	707.82	2,100.62	2,137.68	0.27	0.18	-0.20
9,945.00	89.83	91.010	7,343.98	706.66	2,194.61	2,231.45	0.65	-0.07	0.65
10,038.00	89.77	91.080	7,344.31	704.96	2,287.60	2,324.19	0.10	-0.06	0.08
10,132.00	89.66	91.680	7,344.77	702.70	2,381.57	2,417.87	0.65	-0.12	0.64
10,226.00	89.60	91.960	7,345.38	699.71	2,475.52	2,511.50	0.30	-0.06	0.30
10,321.00	89.80	90.670	7,345.88	697.53	2,570.49	2,606.19	1.37	0.21	-1.36
10,414.00	89.70	91.140	7,346.28	696.06	2,663.48	2,698.94	0.52	-0.11	0.51
10,509.00	89.83	90.730	7,346.67	694.51	2,758.47	2,793.68	0.45	0.14	-0.43
10,603.00	89.66	91.100	7,347.09	693.01	2,852.45	2,887.43	0.43	-0.18	0.39
10,696.00	89.70	90.910	7,347.61	691.38	2,945.44	2,980.17	0.21	0.04	-0.20
10,790.00	89.60	91.220	7,348.19	689.63	3,039.42	3,073.90	0.35	-0.11	0.33
10,884.00	89.90	90.650	7,348.60	688.10	3,133.40	3,167.64	0.69	0.32	-0.61
10,978.00	89.87	91.060	7,348.79	686.70	3,227.39	3,261.40	0.44	-0.03	0.44
11,072.00	90.71	90.010	7,348.31	685.82	3,321.39	3,355.18	1.43	0.89	-1.12
11,166.00	90.60	90.170	7,347.23	685.67	3,415.38	3,449.02	0.21	-0.12	0.17
11,260.00	90.27	91.060	7,346.52	684.66	3,509.37	3,542.80	1.01	-0.35	0.95
11,353.00	90.10	91.120	7,346.22	682.90	3,602.35	3,635.52	0.19	-0.18	0.06
11,447.00	90.50	90.590	7,345.73	681.49	3,696.34	3,729.28	0.71	0.43	-0.56
11,541.00	90.27	91.350	7,345.10	679.90	3,790.32	3,823.02	0.84	-0.24	0.81
11,635.00	90.34	90.480	7,344.60	678.40	3,884.31	3,916.76	0.93	0.07	-0.93
11,729.00	90.64	90.890	7,343.79	677.28	3,978.30	4,010.53	0.54	0.32	0.44
11,823.00	89.43	91.210	7,343.74	675.55	4,072.28	4,104.26	1.33	-1.29	0.34
11,917.00	89.63	91.040	7,344.51	673.71	4,166.26	4,197.98	0.28	0.21	-0.18
12,011.00	90.17	90.240	7,344.67	672.66	4,260.25	4,291.76	1.03	0.57	-0.85
12,105.00	90.00	91.320	7,344.53	671.38	4,354.24	4,385.52	1.16	-0.18	1.15
12,199.00	90.17	91.250	7,344.39	669.27	4,448.22	4,479.23	0.20	0.18	-0.07
12,293.00	89.93	91.040	7,344.31	667.39	4,542.20	4,572.95	0.34	-0.26	-0.22
12,387.00	89.93	91.930	7,344.42	664.96	4,636.17	4,666.62	0.95	0.00	0.95
12,481.00	90.07	91.360	7,344.42	662.26	4,730.13	4,760.27	0.62	0.15	-0.61
12,575.00	90.17	91.310	7,344.23	660.07	4,824.10	4,853.97	0.12	0.11	-0.05
12,670.00	90.07	91.830	7,344.03	657.47	4,919.07	4,948.63	0.56	-0.11	0.55
12,764.00	90.13	91.610	7,343.86	654.64	5,013.02	5,042.27	0.24	0.06	-0.23
12,858.00	90.57	92.030	7,343.29	651.66	5,106.97	5,135.89	0.65	0.47	0.45
12,952.00	90.71	91.170	7,342.24	649.03	5,200.93	5,229.55	0.93	0.15	-0.91



Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well Burnt Mesa Federal Com 602H - Slot A11
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:	Burnt Mesa Federal Com 602H	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)	
13,046.00	90.40	90.910	7,341.33	647.33	5,294.91	5,323.27	0.43	-0.33	-0.28	
13,141.00	90.37	91.030	7,340.69	645.72	5,389.90	5,418.01	0.13	-0.03	0.13	
13,235.00	89.83	91.300	7,340.53	643.81	5,483.88	5,511.73	0.64	-0.57	0.29	
13,329.00	89.70	90.960	7,340.91	641.95	5,577.86	5,605.45	0.39	-0.14	-0.36	
13,423.00	89.90	90.890	7,341.24	640.44	5,671.84	5,699.20	0.23	0.21	-0.07	
13,517.00	89.70	90.400	7,341.57	639.38	5,765.84	5,792.97	0.56	-0.21	-0.52	
13,611.00	90.34	91.110	7,341.54	638.14	5,859.83	5,886.74	1.02	0.68	0.76	
13,706.00	90.13	90.920	7,341.15	636.46	5,954.81	5,981.47	0.30	-0.22	-0.20	
13,800.00	90.30	90.730	7,340.79	635.10	6,048.80	6,075.23	0.27	0.18	-0.20	
13,894.00	90.54	91.130	7,340.10	633.58	6,142.79	6,168.97	0.50	0.26	0.43	
13,989.00	90.37	91.860	7,339.35	631.10	6,237.75	6,263.64	0.79	-0.18	0.77	
14,083.00	90.40	91.800	7,338.72	628.10	6,331.70	6,357.26	0.07	0.03	-0.06	
14,176.00	90.20	92.130	7,338.23	624.91	6,424.64	6,449.87	0.41	-0.22	0.35	
14,270.00	89.73	91.550	7,338.29	621.89	6,518.59	6,543.50	0.79	-0.50	-0.62	
14,364.00	90.20	91.160	7,338.35	619.67	6,612.57	6,637.19	0.65	0.50	-0.41	
14,458.00	90.13	90.490	7,338.08	618.32	6,706.56	6,730.95	0.72	-0.07	-0.71	
14,552.00	89.90	90.610	7,338.05	617.41	6,800.55	6,824.74	0.28	-0.24	0.13	
14,647.00	90.57	89.770	7,337.66	617.10	6,895.55	6,919.56	1.13	0.71	-0.88	
14,741.00	90.20	90.250	7,337.03	617.08	6,989.55	7,013.40	0.64	-0.39	0.51	
14,835.00	90.03	90.180	7,336.84	616.73	7,083.55	7,107.23	0.20	-0.18	-0.07	
14,930.00	90.34	90.860	7,336.53	615.87	7,178.54	7,202.02	0.79	0.33	0.72	
15,025.00	90.47	91.420	7,335.86	613.98	7,273.52	7,296.73	0.61	0.14	0.59	
15,119.00	90.94	90.580	7,334.71	612.34	7,367.50	7,390.46	1.02	0.50	-0.89	
15,213.00	90.13	91.120	7,333.83	610.94	7,461.48	7,484.21	1.04	-0.86	0.57	
15,307.00	90.20	90.760	7,333.56	609.40	7,555.47	7,577.96	0.39	0.07	-0.38	
15,402.00	90.44	91.110	7,333.03	607.85	7,650.45	7,672.70	0.45	0.25	0.37	
15,496.00	90.00	91.090	7,332.67	606.04	7,744.44	7,766.42	0.47	-0.47	-0.02	
15,590.00	90.00	89.870	7,332.67	605.26	7,838.43	7,860.22	1.30	0.00	-1.30	
15,684.00	89.97	90.890	7,332.69	604.63	7,932.43	7,954.03	1.09	-0.03	1.09	
15,777.00	90.23	90.750	7,332.53	603.30	8,025.42	8,046.79	0.32	0.28	-0.15	
15,871.00	90.44	90.030	7,331.98	602.66	8,119.41	8,140.59	0.80	0.22	-0.77	
15,965.00	90.30	90.100	7,331.37	602.56	8,213.41	8,234.43	0.17	-0.15	0.07	
16,059.00	89.77	91.260	7,331.31	601.44	8,307.40	8,328.21	1.36	-0.56	1.23	
16,152.00	90.54	90.840	7,331.06	599.74	8,400.39	8,420.94	0.94	0.83	-0.45	
16,246.00	90.71	90.450	7,330.04	598.68	8,494.37	8,514.71	0.45	0.18	-0.41	
16,341.00	90.64	90.670	7,328.92	597.75	8,589.36	8,609.49	0.24	-0.07	0.23	
16,435.00	90.60	91.280	7,327.90	596.15	8,683.34	8,703.23	0.65	-0.04	0.65	
16,529.00	90.60	91.050	7,326.92	594.24	8,777.32	8,796.94	0.24	0.00	-0.24	
16,623.00	90.57	91.380	7,325.96	592.25	8,871.29	8,890.65	0.35	-0.03	0.35	
16,716.00	90.64	91.230	7,324.98	590.13	8,964.26	8,983.34	0.18	0.08	-0.16	
16,811.00	90.40	90.850	7,324.11	588.40	9,059.24	9,078.07	0.47	-0.25	-0.40	
16,905.00	90.37	90.990	7,323.48	586.90	9,153.23	9,171.81	0.15	-0.03	0.15	
17,000.00	90.37	90.490	7,322.87	585.67	9,248.22	9,266.58	0.53	0.00	-0.53	



Scientific Drilling
Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well Burnt Mesa Federal Com 602H - Slot A11
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:	Burnt Mesa Federal Com 602H	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)
17,093.00	90.34	91.090	7,322.29	584.39	9,341.21	9,359.34	0.65	-0.03	0.65
17,187.00	90.27	90.960	7,321.79	582.70	9,435.19	9,453.08	0.16	-0.07	-0.14
17,281.00	90.30	90.910	7,321.32	581.17	9,529.18	9,546.82	0.06	0.03	-0.05
17,375.00	90.37	90.970	7,320.77	579.63	9,623.16	9,640.56	0.10	0.07	0.06
17,469.00	90.34	91.110	7,320.19	577.92	9,717.15	9,734.29	0.15	-0.03	0.15
17,564.00	90.34	91.110	7,319.63	576.08	9,812.13	9,829.01	0.00	0.00	0.00
17,656.00	90.47	90.690	7,318.98	574.64	9,904.11	9,920.77	0.48	0.14	-0.46
17,733.00	90.36	90.868	7,318.42	573.59	9,981.10	9,997.57	0.27	-0.14	0.23
LTP @ 17,733' MD - 36.9491346, -107.5098900									
17,751.00	90.34	90.910	7,318.31	573.31	9,999.10	10,015.52	0.27	-0.14	0.23
17,840.00	90.34	90.910	7,317.78	571.90	10,088.09	10,104.28	0.00	0.00	0.00

Checked By: _____

Approved By: _____

Date: _____

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 394950

ACKNOWLEDGMENTS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 394950
	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.

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

CONDITIONS

Action 394950

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 394950
	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