

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 29-7 UNIT NP 516	Property Code: 318714
Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal	API Number: 30-039-24294
Pool Name: BASIN DAKOTA	Pool Code: 71599

Section 2 – Surface Location

UL K	Section 36	Township 029N	Range 007W	Lot	Ft. from N/S 1711' South	Ft. from E/W 1527' West	Latitude 36. 679712	Longitude -107.526125	County RIO ARriba
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Section 3 – Completion Information

Producing Method	Ready Date ~11/3/2024	Perforations MD ~8,174' – 8,500'	Perforations TVD ~7,852' – 8,178'
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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): N/A	Communitization Agreement ☐ Yes ☒ No, Order No.
Surface Casing Action ID: Previous to system	Unit: ☐ Yes ☒ No, Order No.
Intermediate 1 Casing Action ID: Previous to system	Compulsory Pooling: ☐ Yes ☒ No, Order No.
Intermediate 2 Casing Action ID: N/A	Down Hole Commingling: ☒ Yes ☐ No, Order No. Pending
Production Casing Action ID: 396029	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: N/A	Non-standard Proration: ☐ Yes ☒ No, Order No.
Casing was installed prior to OCD's Action ID system (Y/N): N	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 Cherylene Weston	
Title: Operations Regulatory Tech Sr.	Date: 10/25/2024

Cheryl Weston

From: Rikala, Ward, EMNRD <Ward.Rikala@emnrd.nm.gov>
Sent: Thursday, September 19, 2024 9:52 AM
To: Matthew Esz; Kuehling, Monica, EMNRD
Cc: Farmington Regulatory Techs
Subject: RE: [EXTERNAL] FW: San Juan 29-7 Unit NP 516, 3003924294

Follow Up Flag: Follow up
Flag Status: Flagged

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

Approved.

From: Matthew Esz <Matthew.Esz@hilcorp.com>
Sent: Thursday, September 19, 2024 8:27 AM
To: Rikala, Ward, EMNRD <Ward.Rikala@emnrd.nm.gov>; Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Cc: Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>
Subject: RE: [EXTERNAL] FW: San Juan 29-7 Unit NP 516, 3003924294

Good morning,

Attached is the CBL pulled yesterday 9/18, after the sqz work was completed earlier this week. We were unable to achieve the required TOC. I have attached a new sqz remediation procedure that we're looking to execute starting today. Please review at your earliest convenience and let me know if you have any questions.

Thanks,
Matthew Esz

From: Rikala, Ward, EMNRD <Ward.Rikala@emnrd.nm.gov>
Sent: Friday, September 13, 2024 8:58 AM
To: Matthew Esz <Matthew.Esz@hilcorp.com>; Cordero, Gilbert, EMNRD <Gilbert.Cordero@emnrd.nm.gov>; Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Cc: Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>
Subject: RE: [EXTERNAL] FW: San Juan 29-7 Unit NP 516, 3003924294

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

Matthew-

I'm good to go with the proposed remediation.

Ward

From: Matthew Esz <Matthew.Esz@hilcorp.com>
Sent: Thursday, September 12, 2024 6:00 PM
To: Rikala, Ward, EMNRD <Ward.Rikala@emnrd.nm.gov>; Cordero, Gilbert, EMNRD <Gilbert.Cordero@emnrd.nm.gov>;

Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Cc: Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>
Subject: RE: [EXTERNAL] FW: San Juan 29-7 Unit NP 516, 3003924294

Attached is the proposed sqz procedure. The rig is currently on location ready to execute, please review at your earliest convenience.

Stage 1 will be to sqz the leaking DV tool. Stage 2 will be to achieve sufficient cement above the proposed MV perforation interval (150' above top perf = 5350'). Let me know if you have any questions or need any other information.

Thanks,
Matthew

From: Rikala, Ward, EMNRD <Ward.Rikala@emnrd.nm.gov>
Sent: Thursday, September 12, 2024 3:46 PM
To: Matthew Esz <Matthew.Esz@hilcorp.com>; Cordero, Gilbert, EMNRD <Gilbert.Cordero@emnrd.nm.gov>; Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Cc: Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>
Subject: RE: [EXTERNAL] FW: San Juan 29-7 Unit NP 516, 3003924294

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

Matthew-

It appears that the TOC is around 6300'. Therefore, you can proceed with the Dakota and Mancos completion. Before you can complete the Mesa Verde, you will need to propose a remedial plan.

Ward

From: Matthew Esz <Matthew.Esz@hilcorp.com>
Sent: Thursday, September 12, 2024 2:09 PM
To: Rikala, Ward, EMNRD <Ward.Rikala@emnrd.nm.gov>; Cordero, Gilbert, EMNRD <Gilbert.Cordero@emnrd.nm.gov>; Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Cc: Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>
Subject: [EXTERNAL] FW: San Juan 29-7 Unit NP 516, 3003924294

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Ward, please see the attachments and email below. Thanks!

From: Matthew Esz
Sent: Thursday, September 12, 2024 2:47 PM
To: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>; Gilbert.Cordero@emnrd.nm.gov
Cc: Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>
Subject: San Juan 29-7 Unit NP 516, 3003924294

Good afternoon,

Attached is the CBL pulled yesterday, 9/11 on the San Juan 29-7 Unit NP 516 sidetrack. The witnessed MIT has not been completed, we are unable to pass a preliminary MIT and currently searching for the cause of the leak. At this time, we would like approval to complete the below zones based on the CBL. Once the leak has been identified, I will reach out about any remediation work needed and schedule the witnessed MIT so we can move forward with completion.

Mesa Verde: 5500'-6592'

Mancos: 7360'-7900'

Dakota: 8174'-8500'

Let me know if you need anything else. Thanks,

Matthew Esz

Operations Engineer

San Juan South Asset Team

Hilcorp Energy Company

c: (770) 843-9226

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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 30-039-24294	Pool Code 71599	Pool Name BASIN DAKOTA
Property Code 318714	Property Name SAN JUAN 29-7 UNIT NP	Well Number 516
OGRID No. 372171	Operator Name HILCORP ENERGY COMPANY	Ground Level Elevation 6819'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL K	Section 36	Township 29N	Range 7W	Lot	Feet from N/S Line 1711' SOUTH	Feet from E/W Line 1527' WEST	Latitude 36.679712 °N	Longitude -107.526125 °W	County RIO ARRIBA
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Bottom Hole Location

UL M	Section 36	Township 29N	Range 7W	Lot	Feet from N/S Line 634' SOUTH	Feet from E/W Line 682' WEST	Latitude 36.676766 °N	Longitude -107.529000 °W	County RIO ARRIBA
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Dedicated Acres 320.00	Penetrated Spacing Unit: W/2 - SECTION 36, T29N, R7W	Infill or Defining Well Infill	Defining Well API 30-045-26790	Overlapping Spacing Unit ☐ Yes ☒ No	Consolidation Code Unitized
Order Numbers			Well setbacks are under Common Ownership: ☒ Yes ☐ No		

Kick Off Point (KOP)

UL K	Section 36	Township 29N	Range 7W	Lot	Feet from N/S Line 1698' SOUTH	Feet from E/W Line 1509' WEST	Latitude 36.679677 °N	Longitude -107.526187 °W	County RIO ARRIBA
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First Take Point (FTP)

UL M	Section 36	Township 29N	Range 7W	Lot	Feet from N/S Line 804' SOUTH	Feet from E/W Line 803' WEST	Latitude 36.677229 °N	Longitude -107.528588 °W	County RIO ARRIBA
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Last Take Point (LTP)

UL M	Section 36	Township 29N	Range 7W	Lot	Feet from N/S Line 636' SOUTH	Feet from E/W Line 684' WEST	Latitude 36.676771 °N	Longitude -107.528994 °W	County RIO ARRIBA
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Unitized Area or Area of Uniform Interest Unitized	Spacing Unit Type ☐ Horizontal ☐ Vertical ☒ Directional	Ground Floor Elevation 6819'
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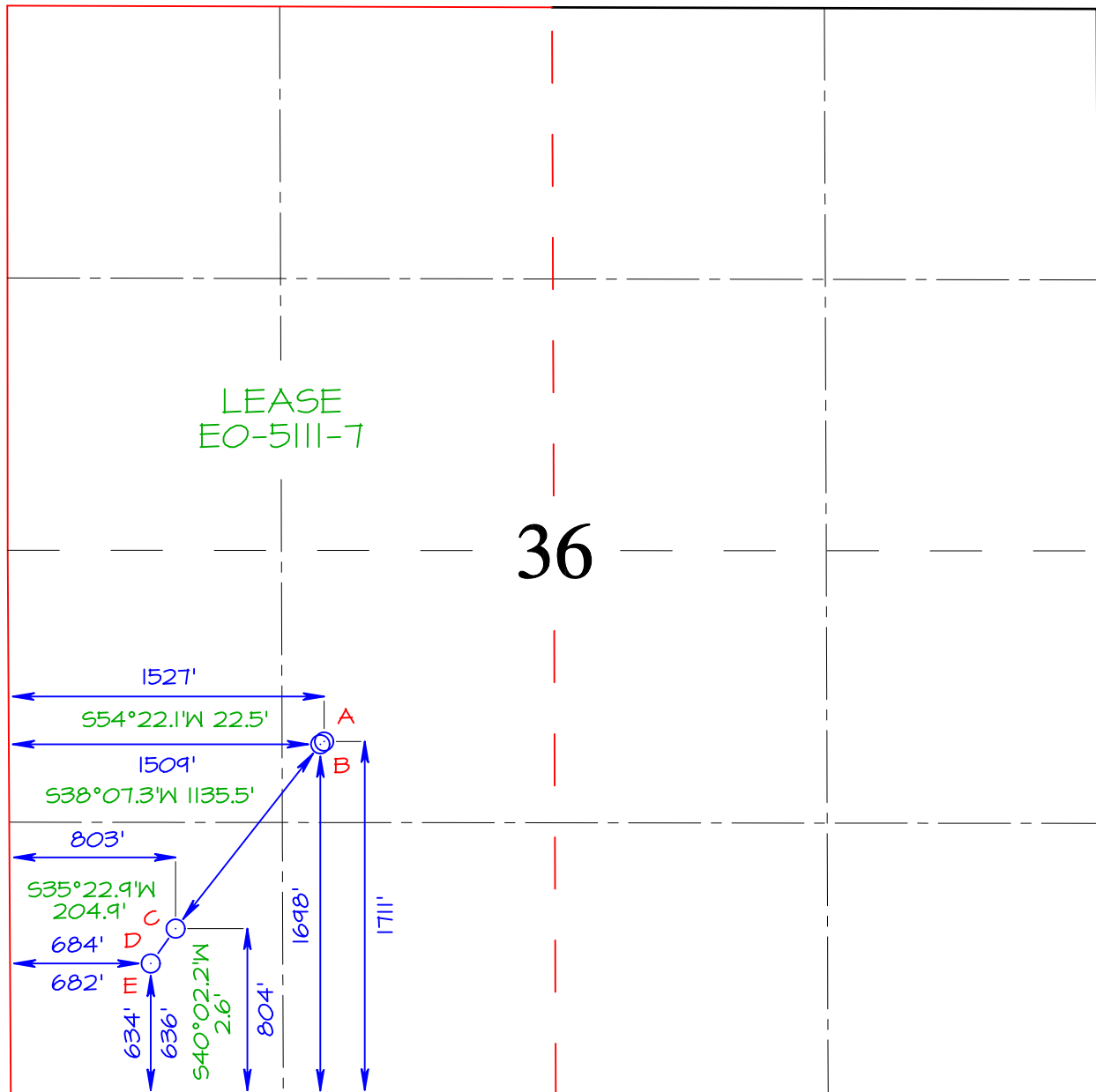
OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed 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. Cherylene Weston Signature Cherylene Weston, Operations/Regulatory Tech-Sr. Printed Name cweston@hilcorp.com E-mail Address 9/18/2024 Date	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 <table><tr><td>Certificate Number 15269</td><td>Date of Survey MAY 3, 2024</td></tr></table>	Certificate Number 15269	Date of Survey MAY 3, 2024
Certificate Number 15269	Date of Survey MAY 3, 2024		

N89°46'W 2641.98' (RECORD)

N89°46'W 2641.98' (RECORD)

N89°49'59"W 2638.51' (MEASURED)

N89°49'59"W 2638.50' (MEASURED)

N0°01'W 2640.00' (RECORD)
N0°03'01"W 2638.62' (MEASURED)N0°12'32"W 2626.34' (MEASURED)
NORTH 2640.00' (RECORD)N0°01'W 2640.00' (RECORD)
N0°18'45"W 2635.45' (MEASURED)N0°11'12"W 2641.19' (MEASURED)
NORTH 2640.00' (RECORD)

N89°53'23"W 2640.03' (MEASURED)

N89°55'05"W 2638.46' (MEASURED)

N89°43'W 2640.00' (RECORD)

N89°43'W 2640.00' (RECORD)

SURFACE LOCATION (A)
1711' FSL 1527' FWL
LAT 36.679705°N
LONG -107.525519°W
DATUM: NAD1927

LAT 36.679712°N
LONG -107.526125°W
DATUM: NAD1983

KICK OFF POINT (B)
1698' FSL 1509' FWL
LAT 36.679669°N
LONG -107.525582°W
DATUM: NAD1927

LAT 36.679677°N
LONG -107.526187°W
DATUM: NAD1983

FIRST TAKE POINT (C)
804' FSL 803' FWL
LAT 36.677222°N
LONG -107.527982°W
DATUM: NAD1927

LAT 36.677229°N
LONG -107.528588°W
DATUM: NAD1983

LAST TAKE POINT (D)
636' FSL 684' FWL
LAT 36.676764°N
LONG -107.528388°W
DATUM: NAD1927

LAT 36.676771°N
LONG -107.528994°W
DATUM: NAD1983

BOTTOM-HOLE LOCATION (E)
634' FSL 682' FWL
LAT 36.676758°N
LONG -107.528394°W
DATUM: NAD1927

LAT 36.676766°N
LONG -107.529000°W
DATUM: NAD1983



Survey Certification

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

Operator	HilCorp Energy
Well Name & No.	San Juan 29-7 Unit NP 516
API #	30-039-24294
County & State	Rio Arriba County, NM
SDI Job #	OP.045820
Rig	Drake 3
Survey Date	8/25/2024 to 8/31/2024
GL & KB Elevation	GL 6816 & KB 13' = 6829'

I, Janie Collins, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 95.24 feet to a measured depth of 8,571 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

6-Sep-2024

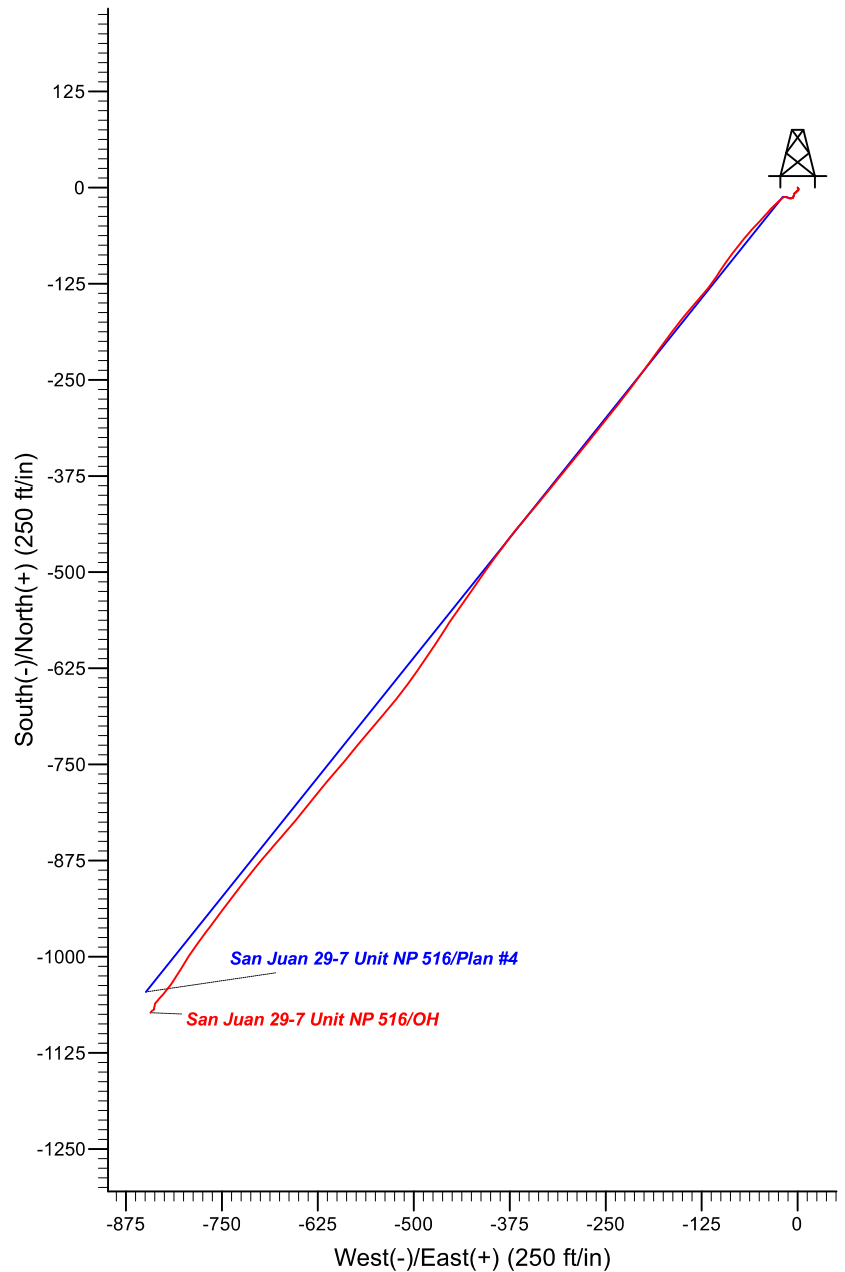
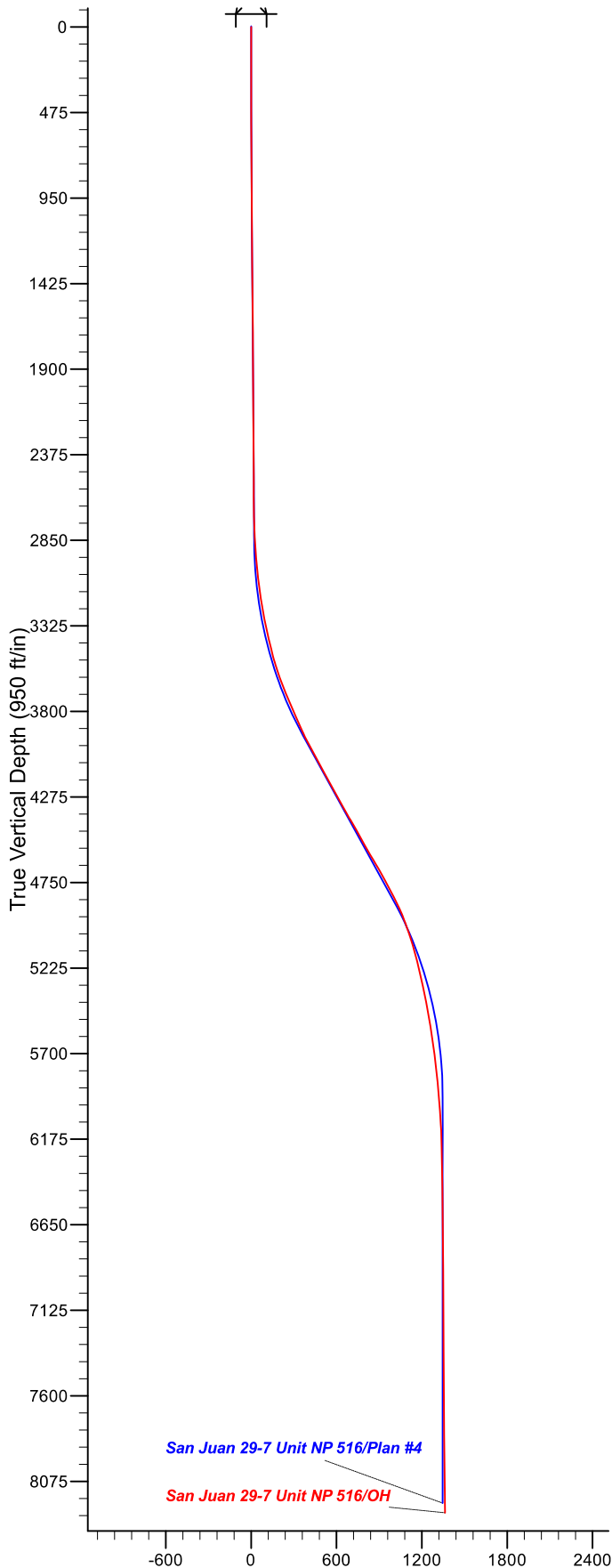
Date

Janie Collins

Rockies Region Well Planner
Scientific Drilling - Rocky Mountain District



Company: Hilcorp Energy - San Juan Basin
 Project: Rio Arriba, NM NAD27
 Site: San Juan 29-7 Unit NP 516 Pad
 Well: San Juan 29-7 Unit NP 516
 Wellbore: OH
 Design: OH



Well Details: San Juan 29-7 Unit NP 516

TVD Reference: GL 6816' & RKB 13' @ 6829.00ft						Slot
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	2066811.00	590262.20	36.6797050	-107.5255190	

PROJECT DETAILS: Rio Arriba, 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

Plan: OH

16:03, September 06 2024
 Created By: Janie Collins



Hilcorp Energy - San Juan Basin

Rio Arriba, NM NAD27

San Juan 29-7 Unit NP 516 Pad

San Juan 29-7 Unit NP 516

OH

Design: OH

Standard Survey Report

06 September, 2024



www.scientificdrilling.com



Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 29-7 Unit NP 516
Project:	Rio Arriba, NM NAD27	TVD Reference:	GL 6816' & RKB 13' @ 6829.00ft
Site:	San Juan 29-7 Unit NP 516 Pad	MD Reference:	GL 6816' & RKB 13' @ 6829.00ft
Well:	San Juan 29-7 Unit NP 516	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction

Project	Rio Arriba, NM NAD27		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		

Site	San Juan 29-7 Unit NP 516 Pad				
Site Position:		Northing:	2,066,811.00 usft	Latitude:	36.6797050
From:	Lat/Long	Easting:	590,262.20 usft	Longitude:	-107.5255190
Position Uncertainty:	0.00 ft	Slot Radius:	13.20 in	Grid Convergence:	0.18 °

Well	San Juan 29-7 Unit NP 516					
Well Position	+N/-S	0.00 ft	Northing:	2,066,811.00 usft	Latitude:	36.6797050
	+E/-W	0.00 ft	Easting:	590,262.20 usft	Longitude:	-107.5255190
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,816.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2024	8/18/2024	8.42	63.05	49,156.30000000

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	219.071	

Survey Program	Date	9/6/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
95.24	2,697.20	Survey #2 - Gyro Survey (OH)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
2,842.00	6,730.00	Survey #3 - Intermediate (OH)	MWD+HDGM	OWSG MWD + HDGM	
6,793.00	8,571.00	Survey #4 - Vertical (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	
95.24	0.52	148.200	95.24	-0.37	0.23	0.14	0.55	0.55	0.00	
121.66	0.50	152.460	121.66	-0.57	0.34	0.23	0.16	-0.08	16.12	
145.27	0.52	158.940	145.27	-0.76	0.43	0.32	0.26	0.08	27.45	
171.50	0.58	158.910	171.50	-1.00	0.52	0.45	0.23	0.23	-0.11	
197.91	0.35	155.360	197.90	-1.20	0.60	0.55	0.88	-0.87	-13.44	
222.80	0.22	103.510	222.79	-1.28	0.68	0.56	1.11	-0.52	-208.32	
248.96	0.23	133.900	248.95	-1.32	0.77	0.54	0.45	0.04	116.17	
270.93	0.17	146.090	270.92	-1.38	0.82	0.56	0.33	-0.27	55.48	



Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 29-7 Unit NP 516
Project:	Rio Arriba, NM NAD27	TVD Reference:	GL 6816' & RKB 13' @ 6829.00ft
Site:	San Juan 29-7 Unit NP 516 Pad	MD Reference:	GL 6816' & RKB 13' @ 6829.00ft
Well:	San Juan 29-7 Unit NP 516	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)	
296.98	0.33	172.200	296.97	-1.49	0.85	0.62	0.74	0.61	100.23	
323.11	0.28	170.830	323.10	-1.63	0.87	0.71	0.19	-0.19	-5.24	
345.31	0.29	167.120	345.30	-1.73	0.89	0.78	0.09	0.05	-16.71	
371.10	0.31	157.210	371.09	-1.86	0.93	0.86	0.22	0.08	-38.43	
395.73	0.24	158.280	395.72	-1.97	0.98	0.91	0.28	-0.28	4.34	
421.07	0.15	130.200	421.06	-2.04	1.02	0.94	0.51	-0.36	-110.81	
447.66	0.29	143.330	447.65	-2.12	1.09	0.96	0.56	0.53	49.38	
470.24	0.12	175.590	470.23	-2.19	1.12	0.99	0.88	-0.75	142.87	
497.29	0.11	174.660	497.28	-2.24	1.13	1.03	0.04	-0.04	-3.44	
520.58	0.15	198.930	520.57	-2.29	1.12	1.07	0.29	0.17	104.21	
547.35	0.22	177.780	547.34	-2.38	1.11	1.14	0.36	0.26	-79.01	
574.04	0.32	181.760	574.03	-2.50	1.11	1.24	0.38	0.37	14.91	
596.15	0.32	184.460	596.14	-2.63	1.11	1.34	0.07	0.00	12.21	
622.77	0.24	194.670	622.76	-2.75	1.09	1.45	0.35	-0.30	38.35	
646.27	0.23	216.010	646.26	-2.84	1.05	1.55	0.37	-0.04	90.81	
672.74	0.23	230.490	672.73	-2.92	0.97	1.65	0.22	0.00	54.70	
698.76	0.38	238.510	698.75	-3.00	0.86	1.78	0.60	0.58	30.82	
721.41	0.44	240.400	721.40	-3.08	0.72	1.94	0.27	0.26	8.34	
747.96	0.53	236.920	747.95	-3.20	0.53	2.15	0.36	0.34	-13.11	
774.32	0.53	235.540	774.31	-3.33	0.33	2.38	0.05	0.00	-5.24	
796.58	0.64	228.290	796.57	-3.47	0.15	2.60	0.59	0.49	-32.57	
823.07	0.56	216.840	823.05	-3.67	-0.04	2.88	0.54	-0.30	-43.22	
846.09	0.44	215.810	846.07	-3.84	-0.16	3.08	0.52	-0.52	-4.47	
873.16	0.46	218.190	873.14	-4.00	-0.29	3.29	0.10	0.07	8.79	
895.26	0.46	220.670	895.24	-4.14	-0.40	3.47	0.09	0.00	11.22	
922.00	0.52	221.760	921.98	-4.31	-0.55	3.70	0.23	0.22	4.08	
948.83	0.65	226.420	948.81	-4.51	-0.74	3.97	0.52	0.48	17.37	
972.18	0.75	225.260	972.16	-4.71	-0.95	4.25	0.43	0.43	-4.97	
998.50	0.76	224.990	998.48	-4.95	-1.19	4.60	0.04	0.04	-1.03	
1,022.74	0.72	219.090	1,022.71	-5.19	-1.40	4.91	0.35	-0.17	-24.34	
1,046.30	0.70	218.350	1,046.27	-5.41	-1.59	5.20	0.09	-0.08	-3.14	
1,072.93	0.59	223.400	1,072.90	-5.64	-1.78	5.50	0.46	-0.41	18.96	
1,097.47	0.62	224.570	1,097.44	-5.83	-1.96	5.76	0.13	0.12	4.77	
1,121.61	0.62	231.250	1,121.58	-6.00	-2.15	6.02	0.30	0.00	27.67	
1,145.31	0.67	235.630	1,145.28	-6.16	-2.37	6.27	0.30	0.21	18.48	
1,173.61	0.67	237.710	1,173.57	-6.34	-2.64	6.59	0.09	0.00	7.35	
1,198.15	0.72	240.830	1,198.11	-6.49	-2.90	6.87	0.26	0.20	12.71	
1,222.57	0.62	231.820	1,222.53	-6.65	-3.14	7.14	0.59	-0.41	-36.90	
1,246.30	0.58	220.780	1,246.26	-6.82	-3.32	7.39	0.51	-0.17	-46.52	
1,270.93	0.53	220.190	1,270.89	-7.00	-3.47	7.62	0.20	-0.20	-2.40	
1,299.22	0.46	221.420	1,299.18	-7.19	-3.63	7.87	0.25	-0.25	4.35	
1,322.71	0.46	222.690	1,322.67	-7.33	-3.76	8.06	0.04	0.00	5.41	
1,346.90	0.54	219.520	1,346.86	-7.49	-3.90	8.27	0.35	0.33	-13.10	



Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 29-7 Unit NP 516
Project:	Rio Arriba, NM NAD27	TVD Reference:	GL 6816' & RKB 13' @ 6829.00ft
Site:	San Juan 29-7 Unit NP 516 Pad	MD Reference:	GL 6816' & RKB 13' @ 6829.00ft
Well:	San Juan 29-7 Unit NP 516	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)
1,373.44	0.49	250.020	1,373.39	-7.62	-4.08	8.49	1.04	-0.19	114.92
1,398.85	0.52	233.310	1,398.80	-7.73	-4.28	8.70	0.59	0.12	-65.76
1,423.34	0.51	223.300	1,423.29	-7.87	-4.44	8.91	0.37	-0.04	-40.87
1,448.86	0.53	211.930	1,448.81	-8.06	-4.58	9.14	0.41	0.08	-44.55
1,474.19	0.47	200.110	1,474.14	-8.25	-4.68	9.36	0.47	-0.24	-46.66
1,498.70	0.56	185.000	1,498.65	-8.47	-4.72	9.55	0.66	0.37	-61.65
1,524.18	0.75	184.820	1,524.13	-8.76	-4.75	9.79	0.75	0.75	-0.71
1,549.67	0.75	181.860	1,549.62	-9.09	-4.77	10.06	0.15	0.00	-11.61
1,574.00	0.96	190.290	1,573.94	-9.45	-4.81	10.37	1.00	0.86	34.65
1,596.99	0.85	194.680	1,596.93	-9.80	-4.89	10.69	0.57	-0.48	19.10
1,623.58	0.99	196.360	1,623.52	-10.22	-5.00	11.08	0.54	0.53	6.32
1,646.14	0.80	195.220	1,646.07	-10.55	-5.10	11.41	0.85	-0.84	-5.05
1,672.54	0.91	197.590	1,672.47	-10.93	-5.21	11.77	0.44	0.42	8.98
1,695.46	0.77	194.930	1,695.39	-11.25	-5.31	12.08	0.63	-0.61	-11.61
1,721.04	0.54	192.960	1,720.97	-11.54	-5.38	12.35	0.90	-0.90	-7.70
1,747.25	0.47	199.290	1,747.18	-11.76	-5.44	12.56	0.34	-0.27	24.15
1,773.45	0.36	212.370	1,773.38	-11.93	-5.52	12.74	0.55	-0.42	49.92
1,795.98	0.42	224.290	1,795.90	-12.05	-5.62	12.89	0.45	0.27	52.91
1,824.66	0.37	220.910	1,824.58	-12.19	-5.75	13.09	0.19	-0.17	-11.79
1,848.75	0.58	207.830	1,848.67	-12.36	-5.86	13.29	0.98	0.87	-54.30
1,873.99	0.55	201.090	1,873.91	-12.59	-5.96	13.53	0.29	-0.12	-26.70
1,895.95	0.51	196.500	1,895.87	-12.78	-6.03	13.72	0.27	-0.18	-20.90
1,920.80	0.43	203.670	1,920.72	-12.97	-6.09	13.91	0.40	-0.32	28.85
1,945.93	0.30	298.740	1,945.85	-13.03	-6.19	14.01	2.17	-0.52	378.31
1,972.22	0.78	214.660	1,972.14	-13.14	-6.35	14.20	3.07	1.83	-319.82
1,997.27	0.56	250.740	1,997.19	-13.32	-6.56	14.48	1.86	-0.88	144.03
2,021.39	0.72	257.850	2,021.31	-13.39	-6.82	14.70	0.74	0.66	29.48
2,045.64	0.77	268.720	2,045.55	-13.43	-7.14	14.92	0.62	0.21	44.82
2,072.03	0.69	239.810	2,071.94	-13.51	-7.45	15.19	1.41	-0.30	-109.55
2,096.35	0.57	241.320	2,096.26	-13.64	-7.68	15.43	0.50	-0.49	6.21
2,122.73	0.50	232.930	2,122.64	-13.77	-7.89	15.67	0.40	-0.27	-31.80
2,146.73	0.55	241.730	2,146.64	-13.89	-8.08	15.88	0.39	0.21	36.67
2,170.48	0.60	252.310	2,170.39	-13.98	-8.29	16.08	0.49	0.21	44.55
2,196.41	0.70	274.510	2,196.32	-14.01	-8.58	16.29	1.04	0.39	85.62
2,220.42	0.75	269.570	2,220.32	-14.00	-8.88	16.47	0.33	0.21	-20.57
2,247.46	0.76	263.300	2,247.36	-14.02	-9.24	16.71	0.31	0.04	-23.19
2,273.03	0.84	267.410	2,272.93	-14.05	-9.60	16.96	0.38	0.31	16.07
2,295.51	0.68	270.830	2,295.41	-14.06	-9.89	17.15	0.74	-0.71	15.21
2,322.19	0.88	291.770	2,322.08	-13.98	-10.24	17.31	1.29	0.75	78.49
2,348.24	1.01	293.760	2,348.13	-13.81	-10.64	17.43	0.51	0.50	7.64
2,371.52	1.07	289.490	2,371.41	-13.66	-11.03	17.56	0.42	0.26	-18.34
2,397.83	1.09	286.410	2,397.71	-13.51	-11.50	17.73	0.23	0.08	-11.71
2,421.22	1.22	295.380	2,421.10	-13.34	-11.94	17.88	0.95	0.56	38.35



Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 29-7 Unit NP 516
Project:	Rio Arriba, NM NAD27	TVD Reference:	GL 6816' & RKB 13' @ 6829.00ft
Site:	San Juan 29-7 Unit NP 516 Pad	MD Reference:	GL 6816' & RKB 13' @ 6829.00ft
Well:	San Juan 29-7 Unit NP 516	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)
2,447.47	1.21	291.670	2,447.34	-13.11	-12.45	18.03	0.30	-0.04	-14.13
2,470.42	1.21	286.610	2,470.29	-12.96	-12.91	18.19	0.47	0.00	-22.05
2,498.21	1.19	293.900	2,498.07	-12.75	-13.45	18.38	0.55	-0.07	26.23
2,522.63	1.17	284.290	2,522.48	-12.59	-13.93	18.55	0.81	-0.08	-39.35
2,546.43	1.25	280.300	2,546.28	-12.48	-14.42	18.78	0.49	0.34	-16.76
2,571.13	1.20	278.910	2,570.97	-12.40	-14.94	19.04	0.24	-0.20	-5.63
2,595.49	1.16	275.640	2,595.33	-12.33	-15.44	19.30	0.32	-0.16	-13.42
2,624.20	1.01	273.650	2,624.03	-12.29	-15.98	19.61	0.54	-0.52	-6.93
2,647.80	0.92	284.230	2,647.63	-12.23	-16.37	19.81	0.84	-0.38	44.83
2,672.42	0.93	280.980	2,672.25	-12.14	-16.76	19.99	0.22	0.04	-13.20
2,697.20	0.84	275.110	2,697.02	-12.09	-17.13	20.18	0.52	-0.36	-23.69
2,842.00	4.16	227.480	2,841.67	-15.54	-22.06	25.97	2.52	2.29	-32.89
2,905.00	5.13	227.530	2,904.47	-18.99	-25.83	31.02	1.54	1.54	0.08
2,967.00	6.56	227.570	2,966.14	-23.25	-30.49	37.26	2.31	2.31	0.06
3,030.00	7.92	221.950	3,028.64	-28.91	-36.04	45.16	2.43	2.16	-8.92
3,093.00	9.78	220.810	3,090.89	-36.18	-42.44	54.84	2.97	2.95	-1.81
3,155.00	10.46	222.970	3,151.92	-44.29	-49.72	65.72	1.26	1.10	3.48
3,218.00	9.84	224.790	3,213.94	-52.29	-57.41	76.78	1.11	-0.98	2.89
3,280.00	15.10	220.190	3,274.45	-62.23	-66.36	90.14	8.63	8.48	-7.42
3,343.00	15.71	218.350	3,335.19	-75.19	-76.95	106.87	1.24	0.97	-2.92
3,405.00	15.94	216.570	3,394.84	-88.61	-87.23	123.77	0.87	0.37	-2.87
3,467.00	17.47	213.520	3,454.22	-103.20	-97.44	141.54	2.84	2.47	-4.92
3,530.00	19.83	214.750	3,513.91	-119.87	-108.76	161.61	3.80	3.75	1.95
3,592.00	22.30	220.350	3,571.77	-137.48	-122.37	183.86	5.14	3.98	9.03
3,655.00	25.10	220.770	3,629.45	-156.71	-138.84	209.17	4.45	4.44	0.67
3,717.00	28.11	218.000	3,684.88	-178.19	-156.42	236.93	5.25	4.85	-4.47
3,780.00	27.68	216.210	3,740.56	-201.69	-174.20	266.38	1.49	-0.68	-2.84
3,843.00	28.17	215.880	3,796.23	-225.55	-191.56	295.85	0.82	0.78	-0.52
3,906.00	29.77	217.060	3,851.34	-250.08	-209.71	326.33	2.70	2.54	1.87
3,968.00	30.36	217.590	3,905.00	-274.78	-228.54	357.37	1.04	0.95	0.85
4,031.00	32.28	218.850	3,958.82	-300.50	-248.81	390.12	3.22	3.05	2.00
4,094.00	35.12	218.620	4,011.23	-327.76	-270.68	425.07	4.51	4.51	-0.37
4,156.00	34.76	219.230	4,062.05	-355.39	-292.99	460.57	0.81	-0.58	0.98
4,218.00	34.35	219.310	4,113.11	-382.61	-315.24	495.74	0.67	-0.66	0.13
4,281.00	33.68	220.100	4,165.33	-409.73	-337.76	530.98	1.27	-1.06	1.25
4,344.00	34.64	219.590	4,217.46	-436.89	-360.42	566.35	1.59	1.52	-0.81
4,407.00	35.93	216.830	4,268.89	-465.48	-382.91	602.73	3.25	2.05	-4.38
4,470.00	34.69	214.670	4,320.30	-495.03	-404.19	639.08	2.79	-1.97	-3.43
4,532.00	35.70	215.610	4,370.97	-524.24	-424.76	674.73	1.85	1.63	1.52
4,595.00	37.71	214.870	4,421.47	-555.00	-446.48	712.29	3.27	3.19	-1.17
4,658.00	35.65	212.300	4,472.00	-586.33	-467.31	749.75	4.08	-3.27	-4.08
4,721.00	34.29	214.800	4,523.63	-616.43	-487.25	785.68	3.14	-2.16	3.97
4,784.00	36.11	216.240	4,575.11	-645.97	-508.36	821.92	3.17	2.89	2.29
4,846.00	37.56	219.960	4,624.73	-675.20	-531.30	859.07	4.29	2.34	6.00



Scientific Drilling Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 29-7 Unit NP 516
Project:	Rio Arriba, NM NAD27	TVD Reference:	GL 6816' & RKB 13' @ 6829.00ft
Site:	San Juan 29-7 Unit NP 516 Pad	MD Reference:	GL 6816' & RKB 13' @ 6829.00ft
Well:	San Juan 29-7 Unit NP 516	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)
4,909.00	36.39	220.520	4,675.06	-704.12	-555.78	896.95	1.93	-1.86	0.89
4,972.00	33.60	219.080	4,726.67	-731.87	-578.91	933.08	4.62	-4.43	-2.29
5,035.00	34.37	220.790	4,778.91	-758.87	-601.52	968.28	1.95	1.22	2.71
5,098.00	33.26	219.060	4,831.25	-785.74	-624.02	1,003.34	2.33	-1.76	-2.75
5,161.00	30.99	218.910	4,884.60	-811.78	-645.10	1,036.84	3.61	-3.60	-0.24
5,223.00	26.70	220.980	4,938.90	-834.73	-664.27	1,066.73	7.10	-6.92	3.34
5,286.00	24.29	220.840	4,995.76	-855.22	-682.03	1,093.83	3.83	-3.83	-0.22
5,349.00	22.43	219.720	5,053.59	-874.27	-698.18	1,118.81	3.04	-2.95	-1.78
5,412.00	20.09	218.800	5,112.30	-891.95	-712.65	1,141.65	3.75	-3.71	-1.46
5,474.00	17.92	217.920	5,170.92	-907.78	-725.18	1,161.83	3.53	-3.50	-1.42
5,537.00	16.54	217.230	5,231.09	-922.56	-736.56	1,180.49	2.21	-2.19	-1.10
5,600.00	15.61	216.890	5,291.63	-936.48	-747.08	1,197.92	1.48	-1.48	-0.54
5,663.00	14.51	216.210	5,352.46	-949.63	-756.83	1,214.28	1.77	-1.75	-1.08
5,726.00	14.41	217.860	5,413.47	-962.19	-766.30	1,230.00	0.67	-0.16	2.62
5,789.00	12.61	216.670	5,474.72	-973.89	-775.22	1,244.70	2.89	-2.86	-1.89
5,852.00	11.88	216.050	5,536.29	-984.65	-783.14	1,258.05	1.18	-1.16	-0.98
5,915.00	11.00	214.190	5,598.03	-994.87	-790.34	1,270.52	1.51	-1.40	-2.95
5,977.00	9.59	212.290	5,659.04	-1,004.13	-796.42	1,281.54	2.34	-2.27	-3.06
6,040.00	8.72	210.180	5,721.23	-1,012.69	-801.63	1,291.47	1.48	-1.38	-3.35
6,103.00	7.89	211.270	5,783.57	-1,020.51	-806.27	1,300.47	1.34	-1.32	1.73
6,166.00	7.59	212.990	5,846.00	-1,027.70	-810.78	1,308.89	0.60	-0.48	2.73
6,229.00	6.86	213.800	5,908.50	-1,034.32	-815.14	1,316.78	1.17	-1.16	1.29
6,291.00	5.82	217.110	5,970.12	-1,039.90	-819.10	1,323.60	1.78	-1.68	5.34
6,354.00	4.44	223.050	6,032.86	-1,044.23	-822.69	1,329.23	2.34	-2.19	9.43
6,416.00	3.67	220.830	6,094.71	-1,047.49	-825.62	1,333.61	1.27	-1.24	-3.58
6,479.00	2.52	222.730	6,157.61	-1,050.03	-827.88	1,337.01	1.83	-1.83	3.02
6,542.00	1.94	219.690	6,220.57	-1,051.87	-829.50	1,339.45	0.94	-0.92	-4.83
6,605.00	1.59	217.060	6,283.54	-1,053.38	-830.71	1,341.39	0.57	-0.56	-4.17
6,668.00	1.38	226.930	6,346.52	-1,054.60	-831.79	1,343.02	0.52	-0.33	15.67
6,730.00	1.03	222.480	6,408.50	-1,055.52	-832.71	1,344.31	0.58	-0.56	-7.18
6,793.00	0.98	211.500	6,471.49	-1,056.40	-833.38	1,345.41	0.32	-0.08	-17.43
6,856.00	0.67	226.380	6,534.49	-1,057.11	-833.92	1,346.31	0.59	-0.49	23.62
6,919.00	0.81	221.310	6,597.48	-1,057.70	-834.49	1,347.12	0.25	0.22	-8.05
6,981.00	0.59	207.930	6,659.48	-1,058.31	-834.92	1,347.87	0.44	-0.35	-21.58
7,044.00	0.48	216.010	6,722.47	-1,058.81	-835.23	1,348.46	0.21	-0.17	12.83
7,106.00	0.53	232.310	6,784.47	-1,059.20	-835.61	1,348.99	0.24	0.08	26.29
7,169.00	0.54	218.160	6,847.47	-1,059.61	-836.02	1,349.58	0.21	0.02	-22.46
7,231.00	0.63	223.240	6,909.46	-1,060.09	-836.44	1,350.21	0.17	0.15	8.19
7,293.00	0.46	203.270	6,971.46	-1,060.56	-836.77	1,350.79	0.41	-0.27	-32.21
7,356.00	0.58	214.250	7,034.46	-1,061.06	-837.05	1,351.35	0.25	0.19	17.43
7,418.00	0.50	187.200	7,096.46	-1,061.59	-837.26	1,351.89	0.43	-0.13	-43.63
7,481.00	0.44	184.930	7,159.45	-1,062.10	-837.32	1,352.32	0.10	-0.10	-3.60
7,544.00	0.27	205.810	7,222.45	-1,062.47	-837.40	1,352.67	0.33	-0.27	33.14



Scientific Drilling
Survey Report



Company:	Hilcorp Energy - San Juan Basin	Local Co-ordinate Reference:	Well San Juan 29-7 Unit NP 516
Project:	Rio Arriba, NM NAD27	TVD Reference:	GL 6816' & RKB 13' @ 6829.00ft
Site:	San Juan 29-7 Unit NP 516 Pad	MD Reference:	GL 6816' & RKB 13' @ 6829.00ft
Well:	San Juan 29-7 Unit NP 516	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)
7,607.00	0.31	191.660	7,285.45	-1,062.78	-837.50	1,352.96	0.13	0.06	-22.46
7,670.00	0.45	181.340	7,348.45	-1,063.19	-837.54	1,353.31	0.25	0.22	-16.38
7,732.00	0.34	171.090	7,410.45	-1,063.61	-837.52	1,353.63	0.21	-0.18	-16.53
7,795.00	0.61	199.030	7,473.45	-1,064.12	-837.60	1,354.07	0.55	0.43	44.35
7,858.00	0.42	198.650	7,536.45	-1,064.65	-837.78	1,354.60	0.30	-0.30	-0.60
7,921.00	0.66	195.550	7,599.44	-1,065.22	-837.95	1,355.15	0.38	0.38	-4.92
7,984.00	1.03	198.100	7,662.44	-1,066.11	-838.23	1,356.01	0.59	0.59	4.05
8,048.00	0.81	174.910	7,726.43	-1,067.11	-838.36	1,356.87	0.67	-0.34	-36.23
8,110.00	0.43	153.830	7,788.42	-1,067.75	-838.22	1,357.28	0.70	-0.61	-34.00
8,173.00	0.39	190.660	7,851.42	-1,068.17	-838.16	1,357.57	0.42	-0.06	58.46
8,236.00	0.74	230.970	7,914.42	-1,068.64	-838.51	1,358.16	0.81	0.56	63.98
8,299.00	0.85	233.050	7,977.41	-1,069.18	-839.20	1,359.01	0.18	0.17	3.30
8,362.00	0.97	244.870	8,040.41	-1,069.69	-840.06	1,359.94	0.35	0.19	18.76
8,425.00	1.01	230.040	8,103.40	-1,070.27	-840.97	1,360.97	0.41	0.06	-23.54
8,487.00	1.38	220.920	8,165.38	-1,071.18	-841.88	1,362.25	0.67	0.60	-14.71
8,518.00	1.25	217.690	8,196.37	-1,071.73	-842.33	1,362.96	0.48	-0.42	-10.42
8,571.00	1.25	217.690	8,249.36	-1,072.65	-843.03	1,364.12	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 397275

ACKNOWLEDGMENTS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 397275
	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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Energy, Minerals and Natural Resources
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CONDITIONS

Action 397275

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 397275
	Action Type: [C-104] Completion Packet - Test Allowable (C-104RT)

CONDITIONS

Created By	Condition	Condition Date
smcgrath	RT approved for the Basin Dakota Pool (71599), DHC may not take place until DHC approved. RT Expires 02/01/2025.	10/30/2024