Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO. 30-039-31482

5. Indicate Type of Lease STATE ☒ FEE ☐

6. State Oil & Gas Lease No. EO-289-57

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name: San Juan 29-6 Unit

1. Type of Well: Oil Well ☐ Gas Well ☒ Other

8. Well Number 109N

2. Name of Operator: Hilcorp Energy Company

9. OGRID Number: 372171

3. Address of Operator: 382 Road 3100, Aztec, NM 87410

10. Pool name or Wildcat: Blanco Mesaverde/Basin Mancos/Basin Dakota

4. Well Location
Unit Letter D: 1022' feet from the North line and 933' feet from the West line
Section 32 Township 029N Range 005W NMPM County RIO ARRIBA

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 6385' GL

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☒	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:	☐	SIDETRACK		OTHER:	☐		

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Hilcorp Energy requests permission to add the Mancos formation to the previously approved APD. The revised plats and directional plans are attached. The bottom hole location has been revised.

Spud Date: | Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Dawnash Deal TITLE Operations/Regulatory Tech DATE 5/2/2025

Type or print name Dawn Nash-Deal E-mail address: dnash@hilcorp.com PHONE: 505-324-5132

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____
Conditions of Approval (if any)

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	Pool Code	Pool Name
30-039-31482	72319	BLANCO MESAVERDE

Property Code	Property Name	Well Number
318838	SAN JUAN 29-6 UNIT	109N

OGRID No.	Operator Name	Ground Level Elevation
372171	HILCORP ENERGY COMPANY	6385'

Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County
D	32	29N	6W		1022' NORTH	933' WEST	36.686654 °N	-107.492175 °W	RIO ARRIBA

Bottom Hole Location

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County
C	32	29N	6W		710' NORTH	1930' WEST	36.687504 °N	-107.488776 °W	RIO ARRIBA

Dedicated Acres	Penetrated Spacing Unit:	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit	Consolidation Code
320.00	W/2 - SECTION 32, T29N, R6W	INFILL	3003921090	☐ Yes ☒ No	U

Order Numbers

Well setbacks are under Common Ownership: ☒ Yes ☐ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County

Unitized Area or Area of Uniform Interest	Spacing Unit Type	Ground Floor Elevation
	☐ Horizontal ☐ Vertical ☒ Directional	6385'

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.

Dawnash Deal
Signature

5/2/2025
Date

DAWN NASH-DEAL
Printed Name

DNASH@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	Date of Survey
15269	JUNE 6, 2024

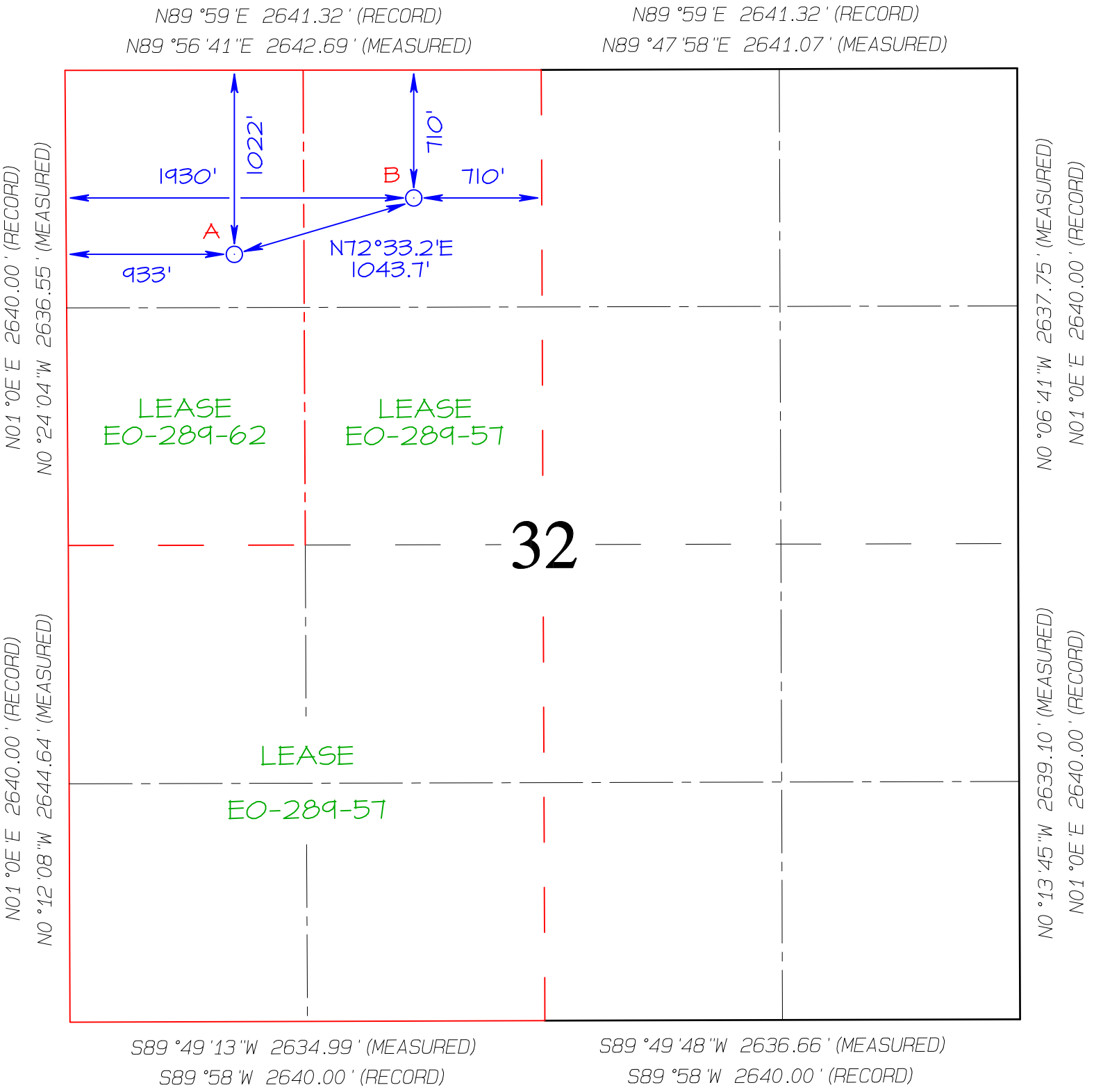
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

SURFACE LOCATION (A)
1022' FNL 933' FWL
LAT 36.686647 °N
LONG -107.491570 °W
DATUM: NAD1927

LAT 36.686654 °N
LONG -107.492175 °W
DATUM: NAD1983

BOTTOM-HOLE LOCATION (B)
710' FNL 1930' FWL
LAT 36.687497 °N
LONG -107.488171 °W
DATUM: NAD1927

LAT 36.687504 °N
LONG -107.488776 °W
DATUM: NAD1983



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	Pool Code	Pool Name
30-039-31482	71599	BASIN DAKOTA

Property Code	Property Name	Well Number
318838	SAN JUAN 29-6 UNIT	109N

OGRID No.	Operator Name	Ground Level Elevation
372171	HILCORP ENERGY COMPANY	6385'

Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County
D	32	29N	6W		1022' NORTH	933' WEST	36.686654 °N	-107.492175 °W	RIO ARRIBA

Bottom Hole Location

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C	32	29N	6W		710' NORTH	1930' WEST	36.687504 °N	-107.488776 °W	RIO ARRIBA

Dedicated Acres	Penetrated Spacing Unit:	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit	Consolidation Code
320.00	W/2 - SECTION 32, T29N, R6W	INFILL	3003930233	☐ Yes ☒ No	U

Order Numbers

Well setbacks are under Common Ownership: ☒ Yes ☐ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County

First Take Point (FTP)

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Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County

Unitized Area or Area of Uniform Interest	Spacing Unit Type	Ground Floor Elevation
	☐ Horizontal ☐ Vertical ☒ Directional	6385'

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Dawnash Deal
Signature

5/2/2025
Date

DAWN NASH-DEAL
Printed Name

DNASH@HILCORP.COM
E-mail Address

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15269	JUNE 6, 2024

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1022' FNL 933' FWL
LAT 36.686647 °N
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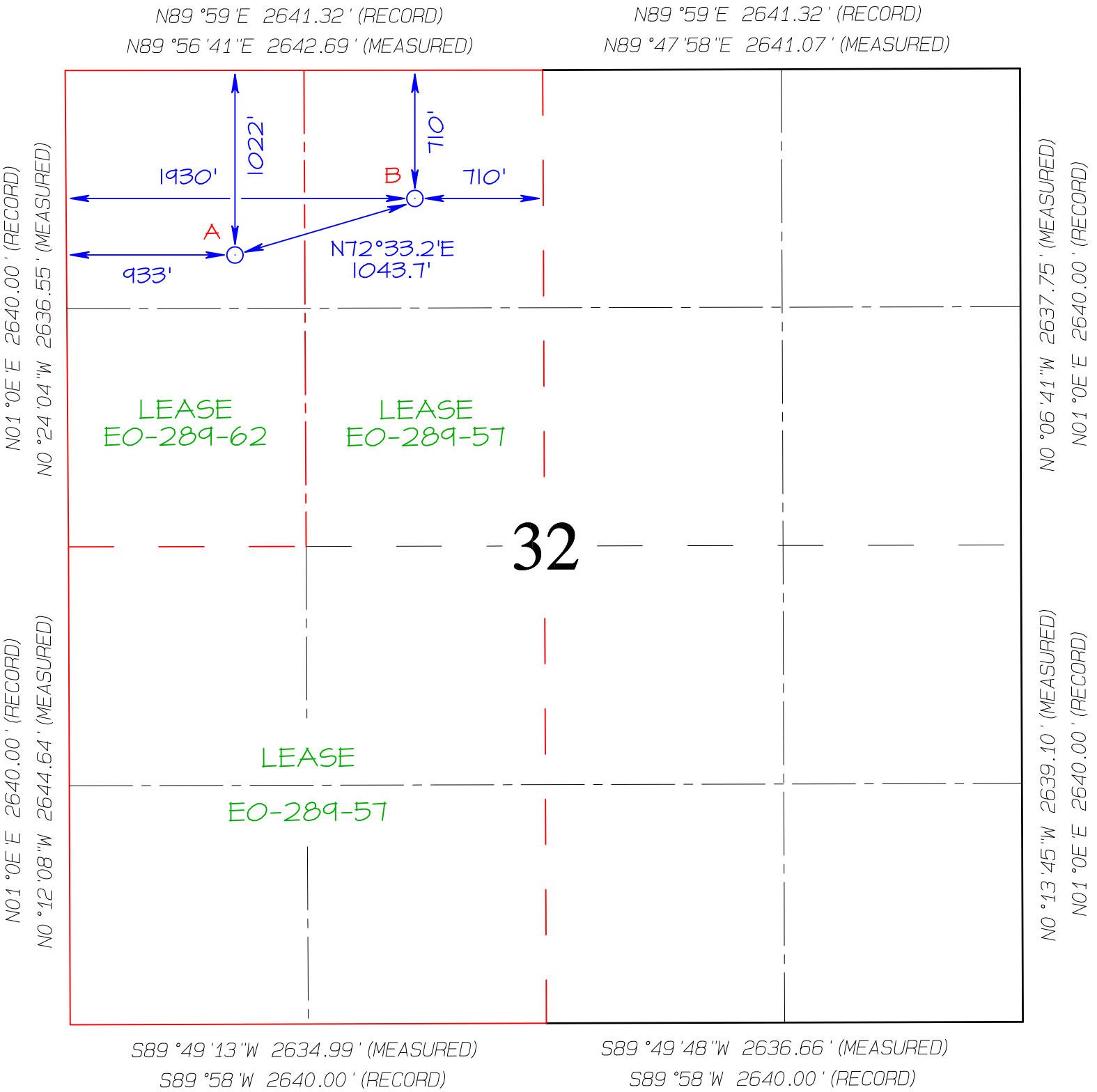
DATUM: NAD1927

LAT 36.686654 °N
LONG -107.492175 °W
DATUM: NAD1983

BOTTOM-HOLE LOCATION (B)
710' FNL 1930' FWL
LAT 36.687497 °N
LONG -107.488171 °W
DATUM: NAD1927

LAT 36.687504 °N
LONG -107.488776 °W
DATUM: NAD1983



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	Pool Code	Pool Name
30-039-31482	97232	BASIN MANCOS

Property Code	Property Name	Well Number
318838	SAN JUAN 29-6 UNIT	109N

OGRID No.	Operator Name	Ground Level Elevation
372171	HILCORP ENERGY COMPANY	6385'

Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County
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Dedicated Acres	Penetrated Spacing Unit:	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit	Consolidation Code
320.00	W/2 - SECTION 32, T29N, R6W	DEFINING		☐ Yes ☒ No	U

Order Numbers

Well setbacks are under Common Ownership: ☒ Yes ☐ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County

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UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County

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Dawnash Deal
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5/2/2025
Date

DAWN NASH-DEAL
Printed Name

DNASH@HILCORP.COM
E-mail Address

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LAT 36.687504 °N
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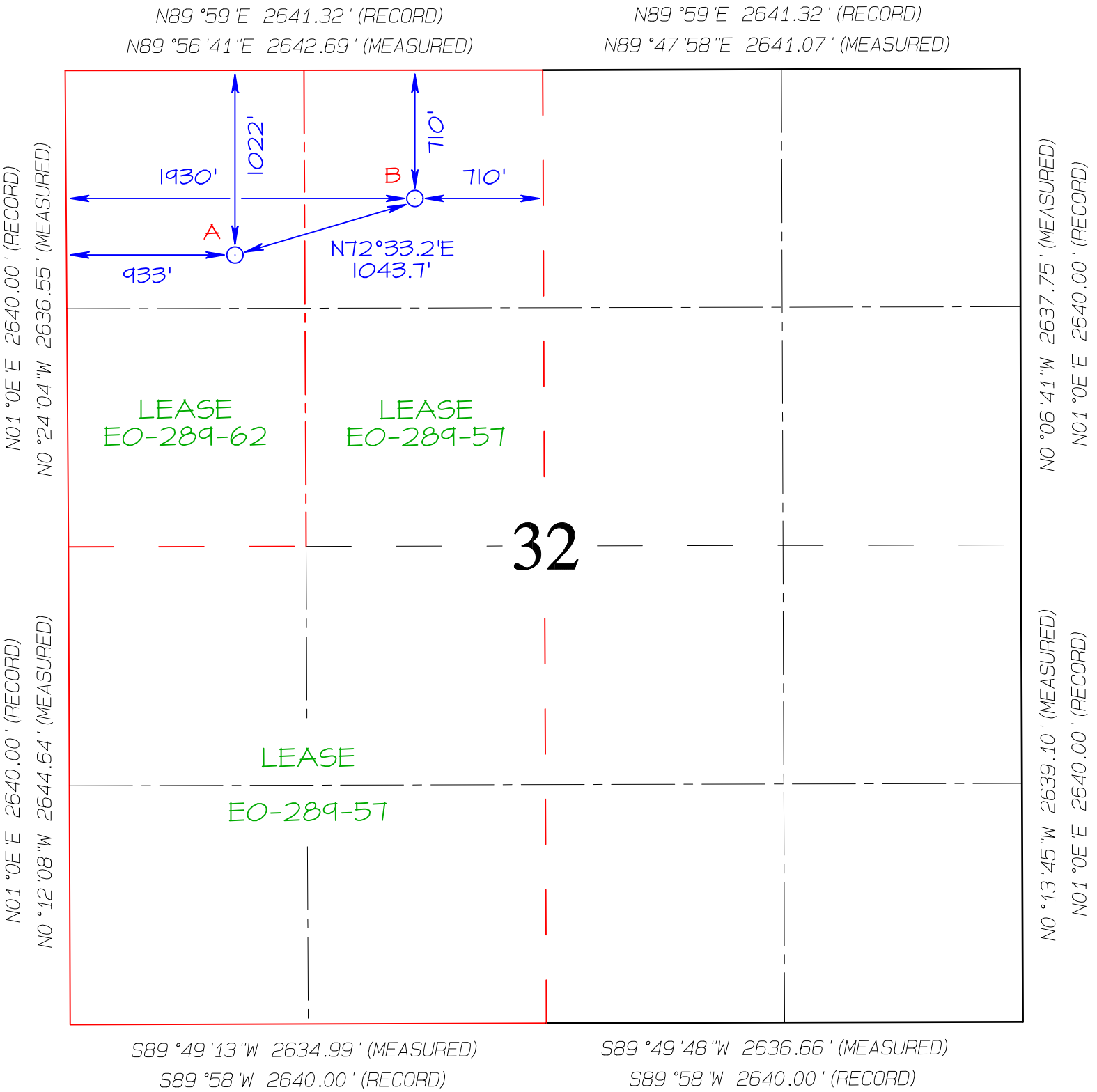
DATUM: NAD1983



Company: Hilcorp Energy - San Juan Basin
Project: San Juan, NM NAD27
Site: San Juan 29-6 Pad
Well: San Juan 29-6 Unit 109N
Wellbore: OH
Design: Plan #5

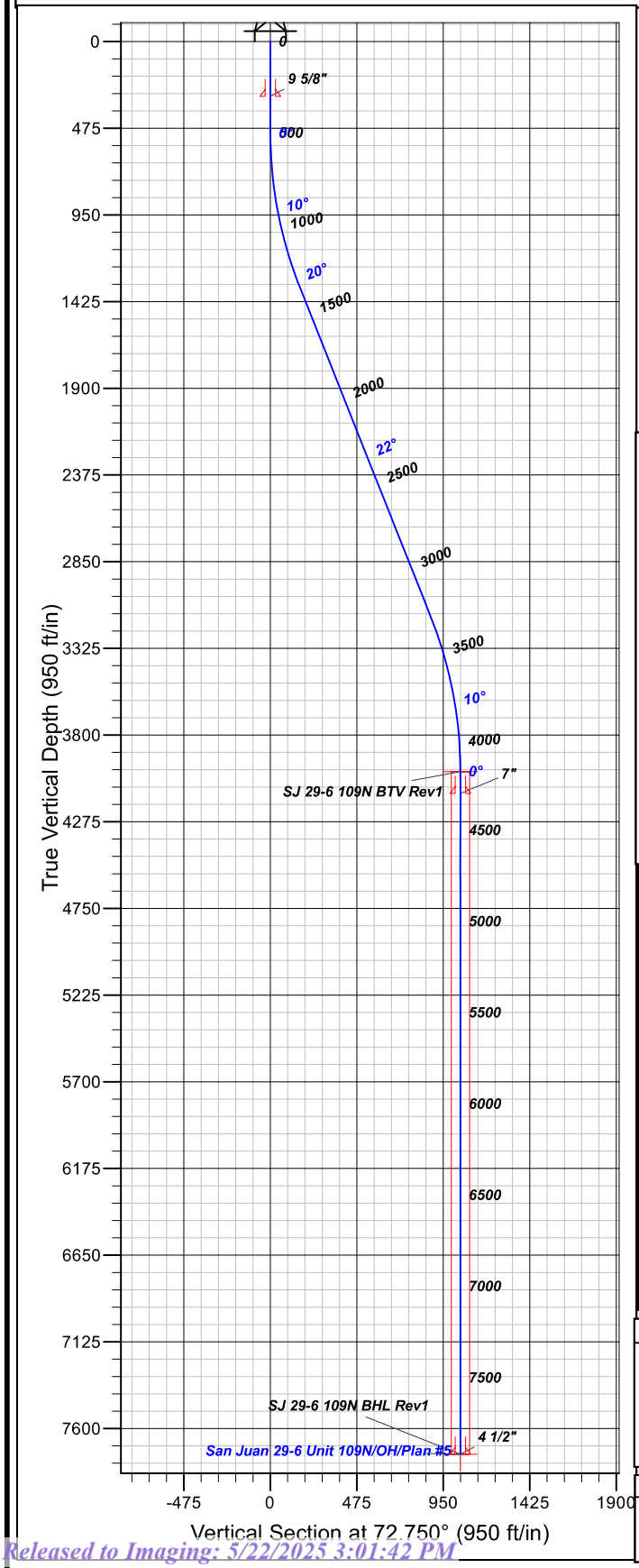
Well Details: San Juan 29-6 Unit 109N

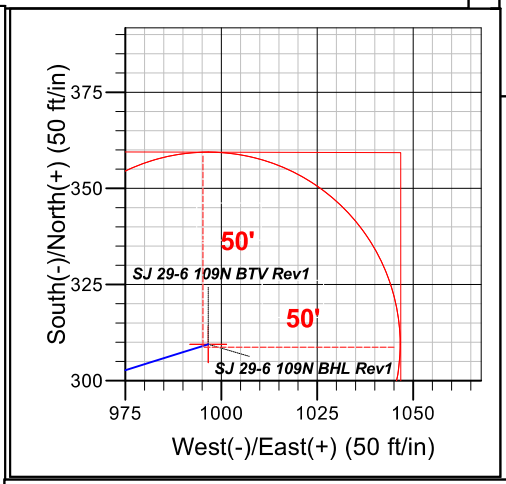
GL 6380' & RKB 17' @ 6397.00ft (Drake 3)

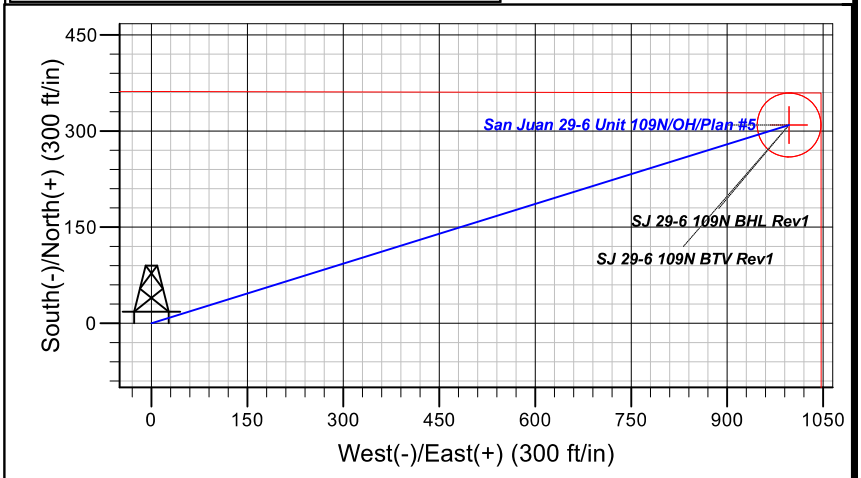
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	2069371.90	600208.29	36.686647	-107.491570	

Azimuths to True North
Magnetic North: 8.40°

Magnetic Field
Strength: 49191.2nT
Dip Angle: 63.07°
Date: 6/19/2024
Model: HDGM2024







FORMATION TOP DETAILS

TVDPath	MDPath	Formation
17.00	17.00	San Jose
1423.00	1449.37	Nacimiento
2430.00	2533.25	Ojo Alamo
2581.00	2695.78	Kirtland
2907.00	3046.67	Fruitland Coal
3295.00	3462.40	Pictured Cliffs
3393.00	3564.69	Lewis Shale
3920.00	4099.01	Huerfano Bentonite
4277.00	4456.02	Chacra
5046.00	5225.02	Cliff House
5167.00	5346.02	Menefee
5457.00	5636.02	Point Lookout
6166.00	6345.02	Mancos Shale
6732.00	6911.02	El Vado
7002.00	7181.02	Niobrara
7082.00	7261.02	Gallup
7137.00	7316.02	Juana Lopez
7452.00	7631.02	Greenhorn
7511.00	7690.02	Graneros
7559.00	7738.02	Two Wells
7640.00	7819.02	Paugate
7668.00	7847.02	Cubero
7704.00	7883.02	Lower Cubero
7740.00	7919.02	Proposed TD

Plan: Plan #5

8:56, May 07 2025
Created By: Janie Collins

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

CASING DETAILS

TVD	MD	Name	Size
300.00	300.00	9 5/8"	9.62
4120.00	4299.02	7"	7.00
7740.00	7919.02	4 1/2"	4.50

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00
1368.38	21.71	72.750	1347.75	48.20	155.25	2.50	72.75	162.56
3310.64	21.71	72.750	3152.25	261.25	841.37	0.00	0.00	881.00
4179.02	0.00	0.000	4000.00	309.46	996.62	2.50	180.00	1043.56
7919.02	0.00	0.000	7740.00	309.46	996.62	0.00	0.00	1043.56

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SJ 29-6 109N BTV Rev1	4000.00	309.46	996.62	2069684.90	601203.80	36.687497	-107.488171
SJ 29-6 109N BHL Rev1	7740.00	309.46	996.62	2069684.90	601203.80	36.687497	-107.488171

Rio Arriba County, NM San Juan 29-6 Unit 109N

Hilcorp Energy Company

Technical Drilling Plan (Rev. 3)

Hilcorp Energy Company proposes to drill and complete the referenced well targeting the Mesa Verde & Dakota formations.

Note: This technical drilling plan will be adjusted based upon actual conditions.

1. Location

Date:	May 13, 2025	**Pool:**	Mesa Verde / Dakota
Well Name:	San Juan 29-6 Unit #109N	**Ground Elevation (ft. MSL):**	6,380’
Surface Hole Location:	36.686647° N, 107.491570° W	**Total Depth (ft. TMD/TVD):**	7,919’ MD / 7,740’ TVD
Bottom Hole Location:	36.687497° N, 107.488171° W	**County, State:**	Rio Arriba, NM

Note: All geographic coordinates on the drilling tech plan and the directional drilling plan refer to NAD 27 geodetic coordinate system. All depths on the drilling tech plan and the directional drilling plan are referenced from an estimated RKB datum of 17’ above ground level.

2. Geological Markers

Anticipated formation tops with comments of any possible water, gas or oil shows are indicated below:

Formation	Depth (ft. TVD)	Remarks
Ojo Alamo	2367’	Water (fresh/useable)
Kirtland	2545’	None
Fruitland	2852’	Gas, Water
Pictured Cliffs	3241’	Gas
Lewis	3365’	None
Huerfanito Bentonite	3868’	None
Chacra	4224’	None
Cliff House	4977’	Gas
Menefee	5105’	None
Pt. Lookout	5423’	Gas
Mancos	6120’	Gas
Gallup	6705	Gas
El Vado	6716	Gas
Basal Niobrara	6956’	None
Juana Lopez	7093’	None
Greenhorn	7403’	None
Graneros	7464’	Gas
Dakota	7620’	Gas

3. Pressure Control Equipment

A. BOP Equipment

See Appendix A for BOP equipment and choke manifold diagram.

- BOP equipment will be nippled up on top of the wellhead after surface casing is set and cemented.
- Pressure control configurations will be designed to meet the minimum 3M standards.
- All equipment will have 3M pressure rating at a minimum.
- A rotating head will be installed on top of the annular as seen in the attached diagram.

B. BOP Pressure Testing

- For all BOP pressure testing, a test unit with a chart recorder and a BOP test plug will be utilized.
- All tests and inspections will be recorded and logged with time and results.
- A full BOP pressure test will be conducted when initially installed for the first well on the pad or if a seal subject to test pressure is broken, following related repairs, and at a minimum in 30-day intervals.
- A BOPE shell pressure test only will be conducted for subsequent wells on the pad when seals subject to pressure have not been broken, repaired, and fall within the 30-day interval of the first full test.
- **The New Mexico Oil & Gas Conservation Division and the BLM will be notified 24 hours in advance of pressure testing BOPE**.
- The BOPE will be tested to **250 psi (Low) for 5 minutes and 3,000 psi (High) for 10 minutes.**

C. BOP Function Testing

- Annular preventors will be functionally tested at least once per week.
- Pipe and blind rams will be function tested each trip.

D. Casing Pressure Testing

- For all casing pressure testing, a test unit with a chart recorder will be utilized.
- **Surface casing will be pressure tested to 600 psi for 30 minutes**.
- I**ntermediate casing will be pressure tested to 1,500 psi for 30 minutes.**

4. Casing Program

A. Proposed Casing Program:

Proposed Casing Design							
Casing String	**Hole Size**	**Casing (size/weight/grade)**	**Top Depth (MD/TVD)**	**Shoe Depth (MD/TVD)**	**Collapse**	**Burst**	**Tensile**
Surface	12-1/4"	9-5/8"-32.3#-H40 (or equiv.)-LTC/BTC	0'	250'/250'	1,370 psi	2,270 psi	254 klbs
Intermediate	8-3/4"	7"-23#-J55 (or equiv.)-LTC/BTC	0'	4,299'/4,120'	3,270 psi	4,360 psi	366 klbs
Production	6-1/4"	4-1/2"-11.6#-J55 (or equiv.)-LTC/BTC	0'	7,919'/7,740'	4,960 psi	5,350 psi	184 klbs

Proposed Casing Design Safety Factors				
Casing String	**Burst Design SF**	**Collapse Design SF**	**Joint Tensile Design SF**	**Connection Tensile Design SF**
Surface	19.4	14.9	52.4	36.5
Intermediate	2.1	2.0	4.3	5.1
Production	1.3	1.5	2.4	2.9

B. Casing Design Parameters & Calculations:

- Designed for full wellbore evacuation.
- Mud Weights used for calculations:
  - Surface = 9.0 ppg
  - Intermediate = 9.5 ppg
  - Production = 10.0 ppg
- Minimum Acceptable Safety Factors:
  - Burst: 1.15
  - Collapse: 1.15
  - Tensile: 1.50
- Casing Safety Factor Calculations:

$$Casing\ Burst\ Safety\ Factor = \frac{Casing\ Burst\ Rating(psi)}{Maximum\ Mud\ Weight\ (ppg) \times TVD(ft) \times 0.052}$$

$$Casing\ Collapse\ Safety\ Factor = Hydrostatic\ of\ Mud\ Weight\ in\ Annulus(psi) - \left[TVD\ of\ Casing\ Shoe\ (ft) \times 0.10\frac{psi}{ft}\right]$$

$$Tensile\ Safety\ Factor = \frac{Tensile\ Rating\ of\ Casing\ String\ (lbs)}{Measured\ Depth\ of\ Casing(ft) \times Casing\ Weight\ \frac{lb}{ft} \times DrillingFluid\ Bouyancy\ Factor}$$

Production Casing Notes:

- Production casing will be run from surface to TD.
- The 6-1/4" hole will be drilled to the top of the Encinal formation and TD will be determined onsite by the mud logger.

Rio Arriba County, NM San Juan 29-6 Unit 109N

Hilcorp Energy Company

5. Proposed Centralizer Program:

Proposed Centralizer Program	
Casing String	**Centralizers & Placement**
Surface Casing	1 centralizer per joint on bottom 3 joints.
Intermediate Casing	1 centralizer per joint in shoe track. 1 centralizer every 3rd joint from float collar to base of Ojo Alamo. 1 centralizer per joint from base of Ojo Alamo to the top of the Ojo Alamo. 1 centralizer every 3rd joint from top of Ojo Alamo to surface.
Production Casing	1 centralizer per joint in shoe track. 1 centralizer every other joint for bottom 1,000' of casing.

6. Proposed Cement Program:

Proposed Cement Design								
Interval	**Depth (ft. MD)**	**Lead/Tail**	**Volume (ft^3)**	**Sacks**	**Excess (%)**	**Slurry**	**Density (ppg)**	**Planned TOC**
Surface	250'	Lead	157 ft^3	114	100%	Class G Cement Yield: 1.38 ft^3/sk	14.6	Surface
		Slurry Additives: CaCl (1%), Cello Flake (0.25 lb/sk), CD-2 (0.2%)						
Intermediate	4,299'	Lead	844 ft^3	396	50%	ASTM Type IL Yield: 2.13 ft^3/sk	12.0	Surface
		Slurry Additives: $CaCl_2$ (3.0%), Celloflake (0.25 lb/sk), LCM-1 (5.0 lb/sk), FL-52 (0.4%), bentonite (8.0%), SMS (0.4%)						
		Tail	113 ft^3	82	50%	ASTM Type IL Yield: 1.38 ft^3/sk	14.5	3,799'
		Slurry Additives: $CaCl_2$ (1.0%), Celloflake (0.25 lb/sk), LCM-1 (5.0 lb/sk), FL-52 (0.2%)						
Production	7,919'	Lead	557 ft^3	109	35%	ASTM Type IL Yield: 1.98 ft^3/sk	12.5	3,799'
		Slurry Additives: Celloflake (0.25 lb/sk), LCM-1 (6.25 lb/sk), CD-32 (0.3%), FL-52 (1.0%)						

Cement Program Notes:

- The cement slurry additives may be adjusted to accommodate required pump and compressive test times.
- Actual cement volumes will be determined and may be adjusted onsite based on well conditions.
- For the intermediate hole section, a 2-stage or 3-stage cement job may be performed if hole conditions dictate. If needed, the stage tool(s) will be placed appropriately.
- Cement will be circulated to surface on surface and intermediate casing sections to protect water bearing zones.
- A minimum of 8 hours of wait on cement time will be observed on each hole section to allow adequate time for cement to achieve a minimum of 500 psi of compressive strength. The BOP will not be nippled down, the wellhead will not be installed, the casing will not be tested and the prior casing shoe will not be drilled out until adequate wait on cement time has been observed (8 hours or time to reach 500 psi compressive strength).

7. Drilling Fluids Program

A. Proposed Drilling Fluids Program:

Proposed Drilling Fluids Program					
Interval	**Fluid Type**	**Density**	**Fluid Loss**	**Maximum Chlorides**	**Depth**
		(ppg)	(mL/30 min)	(ppm)	(ft. MD)
Surface	Water/Gel	8.4 – 9.2	NC	1,000	0’ – 250’
Intermediate	LSND / Gel	8.4 – 9.2	6-16	5,000	250’ – 4,299’
Production	Air / LSND / Gel	8.4 – 9.2	6-16	5,000	4,299’ – 7,919’

Drilling Fluids Notes:

- Primary drilling fluid for production section will be air/N_2. If well begins making water, will mud up with LSND.
- The following equipment will be operational when drilling with air/N_2/mist:
  - Anchored blooie line to discharge cuttings & fluid to blow pit at least 100’ away from well center.
  - The blooie line will be equipped with an automatic igniter or pilot light.
  - Deduster equipment.
  - Properly lubricated and maintained rotating head.
  - Float valve in the drill string above the bit.
  - Sufficient mud and circulating equipment to kill the well if necessary.
- Lost circulation material may be added to the mud systems to manage fluid losses as hole conditions dictate.
- Depending on the area and water production, the production section may be drilled with mud instead of air.
- The well will be drilled utilizing a closed-loop circulating system. Drill cuttings for all hole sections will be transported to an approved disposal site.
- Estimated total volume of drill cuttings for disposal: 475 bbls (2,666 ft^3).

8. Estimated Pressures & Drilling Hazards

A. Estimated Pressures

- The Mesa Verde and/or Dakota formations will be completed and commingled if both formations are completed.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:
  - Fruitland Coal: 400 psi
  - Pictured Cliffs: 850 psi
  - Mesa Verde: 650 psi
  - Dakota: 2,200 psi

B. Water Flows

- Water flows are possible in the intermediate section. Water flows will be mitigated with increased mud weight.

C. Lost Circulation

- Lost circulation is possible in the coal section. Losses will be mitigated by adding LCM to the mud system.
- Sufficient LCM will be added to the mud system to maintain well control if lost circulation is encountered.

D. Hydrogen Sulfide

- No hydrogen sulfide is expected to be encountered based on nearby well production.

9. Pilot Hole

- No pilot hole is planned for this wellbore.

10. Testing, Logging, Coring

A. Mud Logging

- Will collect formation samples every 60’ from the intermediate casing shoe to the TD of production hole section.

B. MWD

- Will use measurement while drilling tool from the surface casing point to intermediate casing point to record inclination. A wireline survey will be run after cementing the production casing to verify bottom hole position.

C. LWD

- No logging while drilling tools will be utilized.

D. Open Hole Logging

- There are no planned open hole logs post drilling.

E. Coring

- There is no coring or formation testing planned.

F. Cased Hole Logging

- The 7” intermediate casing will be cemented to surface to protect water bearing zones. If cement is not circulated to surface on the intermediate cement job, a temperature survey or a cement bod log will be run to verify top of cement.

11. Directional Drilling Plan

- The directional drilling plans and plots are attached.
- The directional plan is built from geologic targets from offset wells and lease boundaries. On-site adjustments to the directional plans will be made as formation and wellbore dictate.

12. Completion

A. Pressure Testing

- A pressure test of the 4-1/2” production casing will be conducted to the maximum anticipated frac pressure for 30 minutes.

B. Stimulation

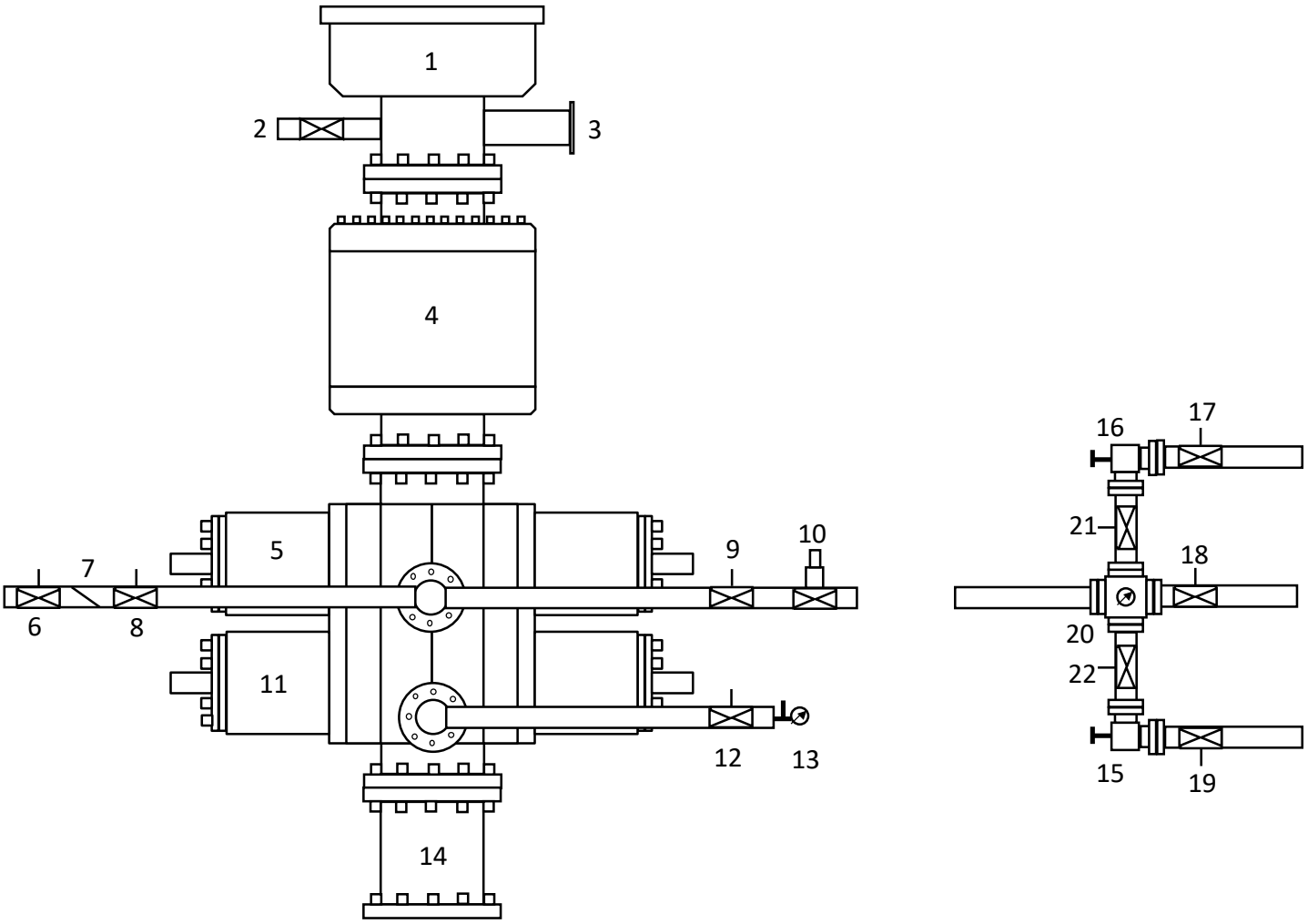
- The well will be stimulated with sand and water. The number of stages and amount of proppant used will be adjusted based on actual reservoir thickness and real-time pumping conditions during the stimulation.

Rio Arriba County, NM San Juan 29-6 Unit 109N

Hilcorp Energy Company

Appendix A

Pressure Control Equipment Configuration



1	Rotating Head	12	Manual Isolation Valve
2	Fill Up Line	13	Needle Valve & Pressure Gauge
3	Flow Line	14	Spacer Spool (if needed)
4	3M Annular Preventer	15	Manual Choke
5	3M Pipe Rams	16	Manual Choke
6	Manual Isolation Valve	17	Manual Isolation Valve
7	Check Valve	18	Manual Isolation Valve
8	Manual Isolation Valve	19	Manual Isolation Valve
9	Manual Isolation Valve	20	Valve Block & Pressure Gauge
10	High Closing Ratio Valve	21	Manual Isolation Valve
11	3M Blind Rams	22	Manual Isolation Valve

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Hilcorp Energy - San Juan Basin

San Juan, NM NAD27
San Juan 29-6 Pad
San Juan 29-6 Unit 109N

OH

Plan: Plan #5

Standard Planning Report

07 May, 2025

Scientific Drilling

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Scientific Drilling

Planning Report

Scientific Drilling

Database:	Grand Junction	**Local Co-ordinate Reference:**	Well San Juan 29-6 Unit 109N
Company:	Hilcorp Energy - San Juan Basin	**TVD Reference:**	GL 6380' & RKB 17' @ 6397.00ft (Drake 3)
Project:	San Juan, NM NAD27	**MD Reference:**	GL 6380' & RKB 17' @ 6397.00ft (Drake 3)
Site:	San Juan 29-6 Pad	**North Reference:**	True
Well:	San Juan 29-6 Unit 109N	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #5		

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 San Juan 29-6 Pad

Site Position:		**Northing:**	2,066,320.67 usft	**Latitude:**	36.678236
From:	Lat/Long	**Easting:**	603,188.29 usft	**Longitude:**	-107.481445
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.20 in	**Grid Convergence:**	0.21 °

Well San Juan 29-6 Unit 109N

Well Position	**+N/-S**	3,062.14 ft	**Northing:**	2,069,371.89 usft	**Latitude:**	36.686647
	+E/-W	-2,968.78 ft	**Easting:**	600,208.30 usft	**Longitude:**	-107.491570
Position Uncertainty		0.00 ft	**Wellhead Elevation:**		**Ground Level:**	6,380.00 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2024	6/19/2024	8.40	63.07	49,191.20000000

Design Plan #5

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	72.750

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,368.38	21.71	72.750	1,347.75	48.20	155.25	2.50	2.50	0.00	72.75	
3,310.64	21.71	72.750	3,152.25	261.25	841.37	0.00	0.00	0.00	0.00	
4,179.02	0.00	0.000	4,000.00	309.46	996.62	2.50	-2.50	0.00	180.00	SJ 29-6 109N BTV Re
7,919.02	0.00	0.000	7,740.00	309.46	996.62	0.00	0.00	0.00	0.00	SJ 29-6 109N BHL Re

Hilcorp Energy Company

Scientific Drilling

Planning Report

Scientific Drilling

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Project:	San Juan, NM NAD27	**MD Reference:**	GL 6380' & RKB 17' @ 6397.00ft (Drake 3)
Site:	San Juan 29-6 Pad	**North Reference:**	True
Well:	San Juan 29-6 Unit 109N	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #5		

Planned 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
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	2.50	72.750	599.97	0.65	2.08	2.18	2.50	2.50	0.00
700.00	5.00	72.750	699.75	2.59	8.33	8.72	2.50	2.50	0.00
800.00	7.50	72.750	799.14	5.81	18.72	19.61	2.50	2.50	0.00
900.00	10.00	72.750	897.97	10.32	33.25	34.82	2.50	2.50	0.00
1,000.00	12.50	72.750	996.04	16.11	51.88	54.33	2.50	2.50	0.00
1,100.00	15.00	72.750	1,093.17	23.16	74.58	78.09	2.50	2.50	0.00
1,200.00	17.50	72.750	1,189.17	31.45	101.30	106.07	2.50	2.50	0.00
1,300.00	20.00	72.750	1,283.85	40.99	132.00	138.21	2.50	2.50	0.00
1,368.38	21.71	72.750	1,347.75	48.20	155.25	162.56	2.50	2.50	0.00
1,400.00	21.71	72.750	1,377.13	51.67	166.41	174.25	0.00	0.00	0.00
1,500.00	21.71	72.750	1,470.03	62.64	201.74	211.24	0.00	0.00	0.00
1,600.00	21.71	72.750	1,562.94	73.61	237.07	248.23	0.00	0.00	0.00
1,700.00	21.71	72.750	1,655.85	84.58	272.39	285.22	0.00	0.00	0.00
1,800.00	21.71	72.750	1,748.76	95.55	307.72	322.21	0.00	0.00	0.00
1,900.00	21.71	72.750	1,841.66	106.52	343.05	359.20	0.00	0.00	0.00
2,000.00	21.71	72.750	1,934.57	117.49	378.37	396.19	0.00	0.00	0.00
2,100.00	21.71	72.750	2,027.48	128.46	413.70	433.18	0.00	0.00	0.00
2,200.00	21.71	72.750	2,120.38	139.43	449.03	470.17	0.00	0.00	0.00
2,300.00	21.71	72.750	2,213.29	150.39	484.35	507.16	0.00	0.00	0.00
2,400.00	21.71	72.750	2,306.20	161.36	519.68	544.15	0.00	0.00	0.00
2,500.00	21.71	72.750	2,399.11	172.33	555.01	581.14	0.00	0.00	0.00
2,600.00	21.71	72.750	2,492.01	183.30	590.33	618.13	0.00	0.00	0.00
2,700.00	21.71	72.750	2,584.92	194.27	625.66	655.12	0.00	0.00	0.00
2,800.00	21.71	72.750	2,677.83	205.24	660.98	692.12	0.00	0.00	0.00
2,900.00	21.71	72.750	2,770.73	216.21	696.31	729.11	0.00	0.00	0.00
3,000.00	21.71	72.750	2,863.64	227.18	731.64	766.10	0.00	0.00	0.00
3,100.00	21.71	72.750	2,956.55	238.15	766.96	803.09	0.00	0.00	0.00
3,200.00	21.71	72.750	3,049.46	249.12	802.29	840.08	0.00	0.00	0.00
3,300.00	21.71	72.750	3,142.36	260.08	837.62	877.07	0.00	0.00	0.00
3,310.64	21.71	72.750	3,152.25	261.25	841.37	881.00	0.00	0.00	0.00
3,400.00	19.48	72.750	3,235.89	270.57	871.39	912.43	2.50	-2.50	0.00
3,500.00	16.98	72.750	3,330.87	279.85	901.26	943.70	2.50	-2.50	0.00
3,600.00	14.48	72.750	3,427.12	287.88	927.14	970.80	2.50	-2.50	0.00
3,700.00	11.98	72.750	3,524.46	294.67	948.99	993.68	2.50	-2.50	0.00
3,800.00	9.48	72.750	3,622.70	300.18	966.76	1,012.29	2.50	-2.50	0.00
3,900.00	6.98	72.750	3,721.67	304.43	980.42	1,026.60	2.50	-2.50	0.00
4,000.00	4.48	72.750	3,821.16	307.38	989.95	1,036.57	2.50	-2.50	0.00
4,100.00	1.98	72.750	3,920.99	309.05	995.32	1,042.20	2.50	-2.50	0.00
4,179.02	0.00	0.000	4,000.00	309.46	996.62	1,043.56	2.50	-2.50	0.00
4,200.00	0.00	0.000	4,020.98	309.46	996.62	1,043.56	0.00	0.00	0.00
4,300.00	0.00	0.000	4,120.98	309.46	996.62	1,043.56	0.00	0.00	0.00
4,400.00	0.00	0.000	4,220.98	309.46	996.62	1,043.56	0.00	0.00	0.00
4,500.00	0.00	0.000	4,320.98	309.46	996.62	1,043.56	0.00	0.00	0.00
4,600.00	0.00	0.000	4,420.98	309.46	996.62	1,043.56	0.00	0.00	0.00
4,700.00	0.00	0.000	4,520.98	309.46	996.62	1,043.56	0.00	0.00	0.00
4,800.00	0.00	0.000	4,620.98	309.46	996.62	1,043.56	0.00	0.00	0.00
4,900.00	0.00	0.000	4,720.98	309.46	996.62	1,043.56	0.00	0.00	0.00
5,000.00	0.00	0.000	4,820.98	309.46	996.62	1,043.56	0.00	0.00	0.00

Hilcorp Energy Company

Scientific Drilling

Planning Report

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Site:	San Juan 29-6 Pad	**North Reference:**	True
Well:	San Juan 29-6 Unit 109N	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #5		

Planned 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	0.00	0.000	4,920.98	309.46	996.62	1,043.56	0.00	0.00	0.00
5,200.00	0.00	0.000	5,020.98	309.46	996.62	1,043.56	0.00	0.00	0.00
5,300.00	0.00	0.000	5,120.98	309.46	996.62	1,043.56	0.00	0.00	0.00
5,400.00	0.00	0.000	5,220.98	309.46	996.62	1,043.56	0.00	0.00	0.00
5,500.00	0.00	0.000	5,320.98	309.46	996.62	1,043.56	0.00	0.00	0.00
5,600.00	0.00	0.000	5,420.98	309.46	996.62	1,043.56	0.00	0.00	0.00
5,700.00	0.00	0.000	5,520.98	309.46	996.62	1,043.56	0.00	0.00	0.00
5,800.00	0.00	0.000	5,620.98	309.46	996.62	1,043.56	0.00	0.00	0.00
5,900.00	0.00	0.000	5,720.98	309.46	996.62	1,043.56	0.00	0.00	0.00
6,000.00	0.00	0.000	5,820.98	309.46	996.62	1,043.56	0.00	0.00	0.00
6,100.00	0.00	0.000	5,920.98	309.46	996.62	1,043.56	0.00	0.00	0.00
6,200.00	0.00	0.000	6,020.98	309.46	996.62	1,043.56	0.00	0.00	0.00
6,300.00	0.00	0.000	6,120.98	309.46	996.62	1,043.56	0.00	0.00	0.00
6,400.00	0.00	0.000	6,220.98	309.46	996.62	1,043.56	0.00	0.00	0.00
6,500.00	0.00	0.000	6,320.98	309.46	996.62	1,043.56	0.00	0.00	0.00
6,600.00	0.00	0.000	6,420.98	309.46	996.62	1,043.56	0.00	0.00	0.00
6,700.00	0.00	0.000	6,520.98	309.46	996.62	1,043.56	0.00	0.00	0.00
6,800.00	0.00	0.000	6,620.98	309.46	996.62	1,043.56	0.00	0.00	0.00
6,900.00	0.00	0.000	6,720.98	309.46	996.62	1,043.56	0.00	0.00	0.00
7,000.00	0.00	0.000	6,820.98	309.46	996.62	1,043.56	0.00	0.00	0.00
7,100.00	0.00	0.000	6,920.98	309.46	996.62	1,043.56	0.00	0.00	0.00
7,200.00	0.00	0.000	7,020.98	309.46	996.62	1,043.56	0.00	0.00	0.00
7,300.00	0.00	0.000	7,120.98	309.46	996.62	1,043.56	0.00	0.00	0.00
7,400.00	0.00	0.000	7,220.98	309.46	996.62	1,043.56	0.00	0.00	0.00
7,500.00	0.00	0.000	7,320.98	309.46	996.62	1,043.56	0.00	0.00	0.00
7,600.00	0.00	0.000	7,420.98	309.46	996.62	1,043.56	0.00	0.00	0.00
7,700.00	0.00	0.000	7,520.98	309.46	996.62	1,043.56	0.00	0.00	0.00
7,800.00	0.00	0.000	7,620.98	309.46	996.62	1,043.56	0.00	0.00	0.00
7,900.00	0.00	0.000	7,720.98	309.46	996.62	1,043.56	0.00	0.00	0.00
7,919.02	0.00	0.000	7,740.00	309.46	996.62	1,043.56	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SJ 29-6 109N BTV Rev1 - plan hits target center - Circle (radius 50.00)	0.00	0.000	4,000.00	309.46	996.62	2,069,684.90	601,203.80	36.687497	-107.488171
SJ 29-6 109N BHL Rev1 - plan hits target center - Point	0.00	0.000	7,740.00	309.46	996.62	2,069,684.90	601,203.80	36.687497	-107.488171

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
300.00	300.00	9 5/8"	9.62	12.25
4,299.02	4,120.00	7"	7.00	8.75
7,919.02	7,740.00	4 1/2"	4.50	6.25

Hilcorp Energy Company

Scientific Drilling

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Company:	Hilcorp Energy - San Juan Basin	**TVD Reference:**	GL 6380' & RKB 17' @ 6397.00ft (Drake 3)
Project:	San Juan, NM NAD27	**MD Reference:**	GL 6380' & RKB 17' @ 6397.00ft (Drake 3)
Site:	San Juan 29-6 Pad	**North Reference:**	True
Well:	San Juan 29-6 Unit 109N	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #5		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
17.00	17.00	San Jose		0.00	0.000
1,449.37	1,423.00	Nacimiento		0.00	0.000
2,533.25	2,430.00	Ojo Alamo		0.00	0.000
2,695.78	2,581.00	Kirtland		0.00	0.000
3,046.67	2,907.00	Fruitland Coal		0.00	0.000
3,462.40	3,295.00	Pictured Cliffs		0.00	0.000
3,564.69	3,393.00	Lewis Shale		0.00	0.000
4,099.01	3,920.00	Huerfano Bentonite		0.00	0.000
4,456.02	4,277.00	Chacra		0.00	0.000
5,225.02	5,046.00	Cliff House		0.00	0.000
5,346.02	5,167.00	Menefee		0.00	0.000
5,636.02	5,457.00	Point Lookout		0.00	0.000
6,345.02	6,166.00	Mancos Shale		0.00	0.000
6,911.02	6,732.00	El Vado		0.00	0.000
7,181.02	7,002.00	Niobrara		0.00	0.000
7,261.02	7,082.00	Gallup		0.00	0.000
7,316.02	7,137.00	Juana Lopez		0.00	0.000
7,631.02	7,452.00	Greenhorn		0.00	0.000
7,690.02	7,511.00	Graneros		0.00	0.000
7,738.02	7,559.00	Two Wells		0.00	0.000
7,819.02	7,640.00	Paugate		0.00	0.000
7,847.02	7,668.00	Cubero		0.00	0.000
7,883.02	7,704.00	Lower Cubero		0.00	0.000
7,919.02	7,740.00	Proposed TD		0.00	0.000

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

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 466620

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 466620
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	None	5/22/2025