

Santa Fe Main Office
Phone: (505) 476-3441
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Phone: (505) 629-6116

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

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

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

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.) 1. Type of Well: Oil Well ☐ Gas Well ☒ Other		WELL API NO. 30-045-38326
2. Name of Operator Hilcorp Energy Company		5. Indicate Type of Lease STATE ☐ FEE ☒
3. Address of Operator 382 Road 3100, Aztec, NM 87410		6. State Oil & Gas Lease No.
4. Well Location Unit Letter <u>F</u> : <u>154'</u> feet from the <u>North</u> line and <u>1625'</u> feet from the <u>West</u> line Section <u>12</u> LOT <u>3</u> Township <u>32N</u> Range <u>07W</u> NMPM County <u>San Juan</u>		7. Lease Name or Unit Agreement Name Allison Unit
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6352'		8. Well Number <u>611H</u>
		9. OGRID Number 372171
		10. Pool name or Wildcat Basin Mancos

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

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ TEMPORARILY ABANDON ☐ CHANGE PLANS ☐ PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐ DOWNHOLE COMMINGLE ☐ CLOSED-LOOP SYSTEM ☐ OTHER: ☒ APD Change of Plans		SUBSEQUENT REPORT OF: REMEDIAL WORK ☐ ALTERING CASING ☐ COMMENCE DRILLING OPNS. ☐ P AND A ☐ CASING/CEMENT JOB ☐ OTHER: ☐	
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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 Company requests to revise the drilling plans on the above listed well. Currently, the wellheads are split into 2 separate rows, and will now be lined up in a single line. Please see the attached revised plat, technical plans and directional plans.

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  TITLE Operations/Regulatory Tech Sr. DATE 8/15/2025

Type or print name Amanda Walker E-mail address: mwalker@hilcorp.com PHONE: 346-237-2177

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 30-045-38326	Pool Code 97232	Pool Name BASIN MANCOS
Property Code 318864	Property Name ALLISON UNIT	Well Number 611H
OGRID No. 372171	Operator Name HILCORP ENERGY COMPANY	Ground Level Elevation 6352'
Surface Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal

Surface Location

UL F	Section 12	Township 32N	Range 7W	Lot 3	Feet from N/S Line 558' NORTH	Feet from E/W Line 1560' WEST	Latitude 36.998527 °N	Longitude -107.521287 °W	County SAN JUAN
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Bottom Hole Location

UL H	Section 8	Township 32N	Range 6W	Lot	Feet from N/S Line 1010' NORTH	Feet from E/W Line 280' EAST	Latitude 36.997377 °N	Longitude -107.473594 °W	County SAN JUAN
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Penetrated Spacing Unit:

Dedicated Acres 505.84	Lots 1-2 - Section 12, T32N R7W Lots 1-5, SE/4 NW/4, S/2 NE/4 Section 7, T32N R6W Lots 1-4, S/2 N/2 - Section 8, T32N R6W	Infill or Defining Well Defining	Defining Well API	Overlapping Spacing Unit ☐ Yes ☒ No	Consolidation Code Other
Order Numbers			Well setbacks are under Common Ownership: ☒ Yes ☐ No		

Kick Off Point (KOP)

UL F	Section 12	Township 32N	Range 7W	Lot 3	Feet from N/S Line 558' NORTH	Feet from E/W Line 1560' WEST	Latitude 36.998527 °N	Longitude -107.521287 °W	County SAN JUAN
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First Take Point (FTP)

UL G	Section 12	Township 32N	Range 7W	Lot 2	Feet from N/S Line 1145' NORTH	Feet from E/W Line 2490' EAST	Latitude 36.996919 °N	Longitude -107.517632 °W	County SAN JUAN
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Last Take Point (LTP)

UL H	Section 8	Township 32N	Range 6W	Lot	Feet from N/S Line 1014' NORTH	Feet from E/W Line 395' EAST	Latitude 36.997363 °N	Longitude -107.473988 °W	County SAN JUAN
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Unitized Area or Area of Uniform Interest ALLISON UNIT	Spacing Unit Type ☒ Horizontal ☐ Vertical ☐ Directional	Ground Floor Elevation
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OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.  8/1/2025 Signature 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 MAY 14, 2024
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SURFACE LOCATION (A)
558' FNL 1560' FWL
SECTION 12, T32N, R7W
LAT 36.998522°N
LONG -107.520680°W
DATUM: NAD1927

KICK OFF POINT (B)
558' FNL 1560' FWL
SECTION 12, T32N, R7W
LAT 36.998522°N
LONG -107.520680°W
DATUM: NAD1927

FIRST TAKE POINT (C)
1145' FNL 2490' FEL
SECTION 12, T32N, R7W
LAT 36.996914°N
LONG -107.517025°W
DATUM: NAD1927

LAST TAKE POINT (D)
1014' FNL 395' FEL
SECTION 8, T32N, R6W
LAT 36.997358°N
LONG -107.473383°W
DATUM: NAD1927

BOTTOM HOLE LOCATION (E)
1010' FNL 280' FEL
SECTION 8, T32N, R6W
LAT 36.997372°N
LONG -107.472988°W
DATUM: NAD1927

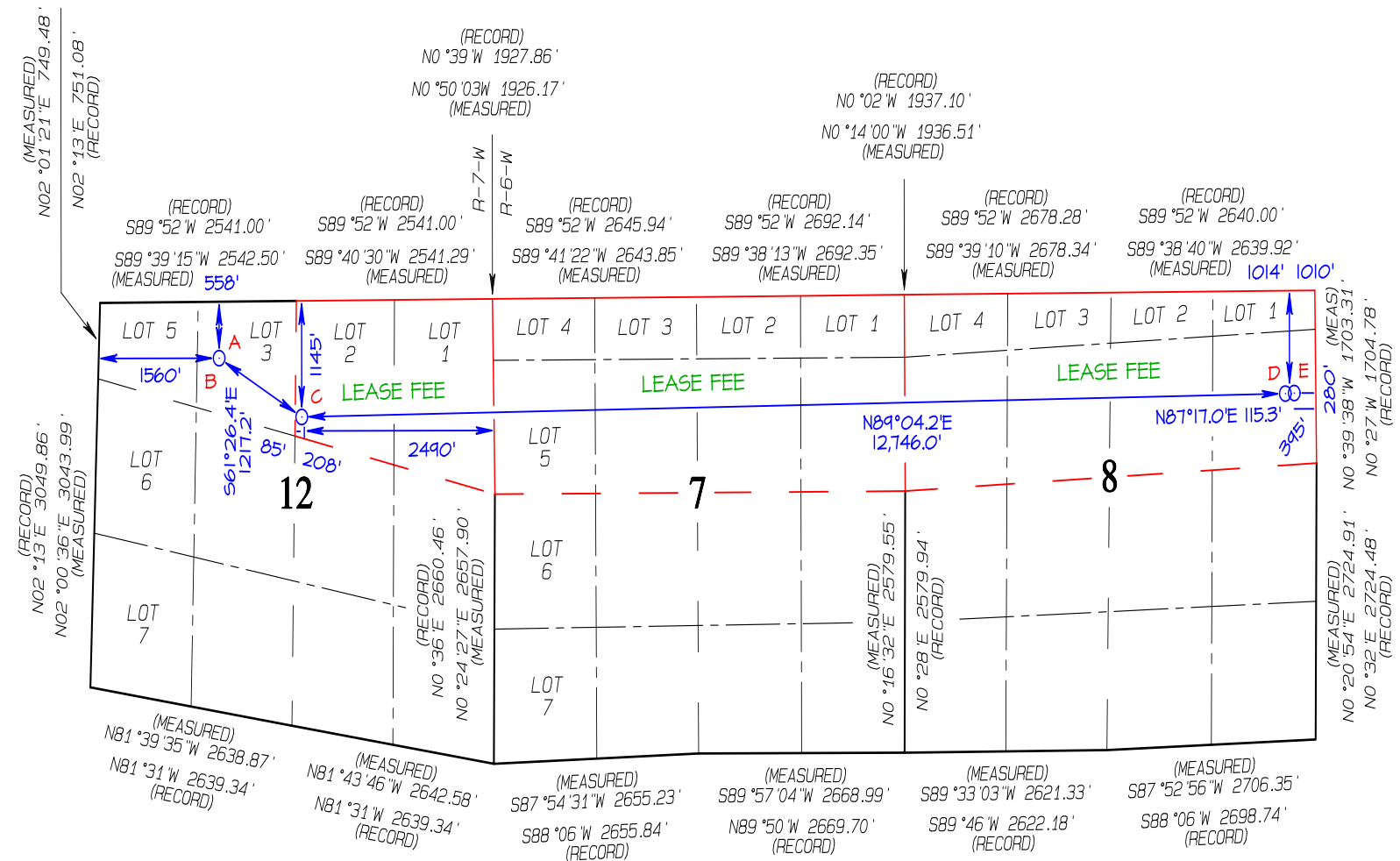
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LONG -107.521287°W
DATUM: NAD1983

LAT 36.998527°N
LONG -107.521287°W
DATUM: NAD1983

LAT 36.996919°N
LONG -107.517632°W
DATUM: NAD1983

LAT 36.997363°N
LONG -107.473988°W
DATUM: NAD1983

LAT 36.997377°N
LONG -107.473594°W
DATUM: NAD1983



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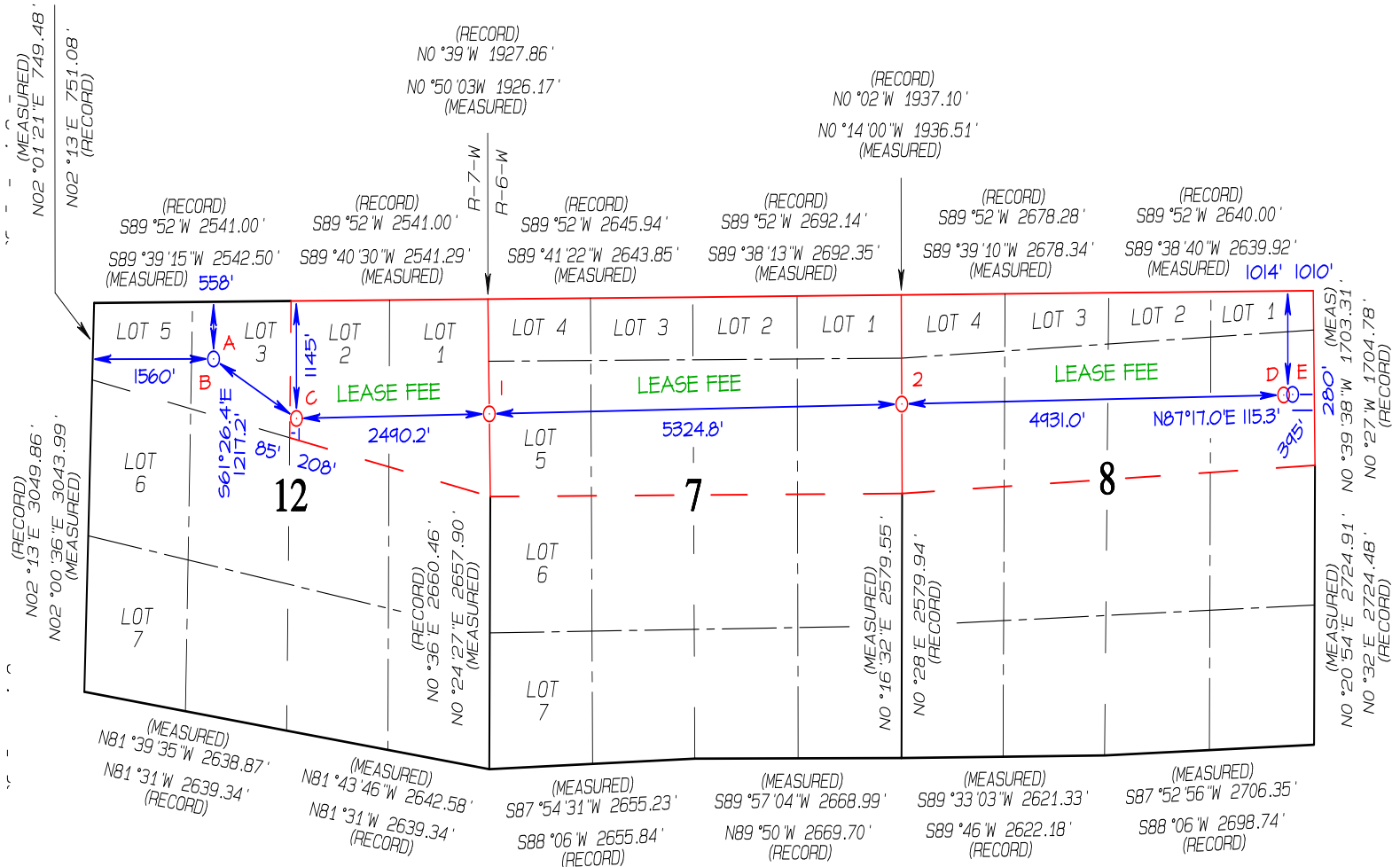
LAT 36.998527°N
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DATUM: NAD1983

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DATUM: NAD1983



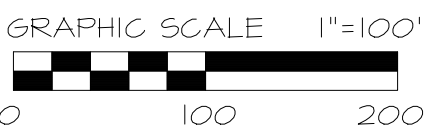
SECTION LINE (1)
1119' FNL 0' FWL
SECTION 7, T32N, R6W
LAT 36.997002°N
LONG -107.508499°W
DATUM: NAD1927

LAT 36.997007°N
LONG -107.509106°W
DATUM: NAD1983

SECTION LINE (2)
1064' FNL 0' FWL
SECTION 8, T32N, R6W
LAT 36.997188°N
LONG -107.490267°W
DATUM: NAD1927

LAT 36.997193°N
LONG -107.490873°W
DATUM: NAD1983

3647.5' TOTAL LENGTH OF ACCESS
31.6' SAN JUAN COUNTY (CR #4020)
3570.6' SEAN & DAWNETTE WASHBURN
45.3' BRYCE SEAN WASHBURN



~ FEE SURFACE OWNERS ~
**Bryce Sean Washburn &
Sean and Dawnette Washburn**

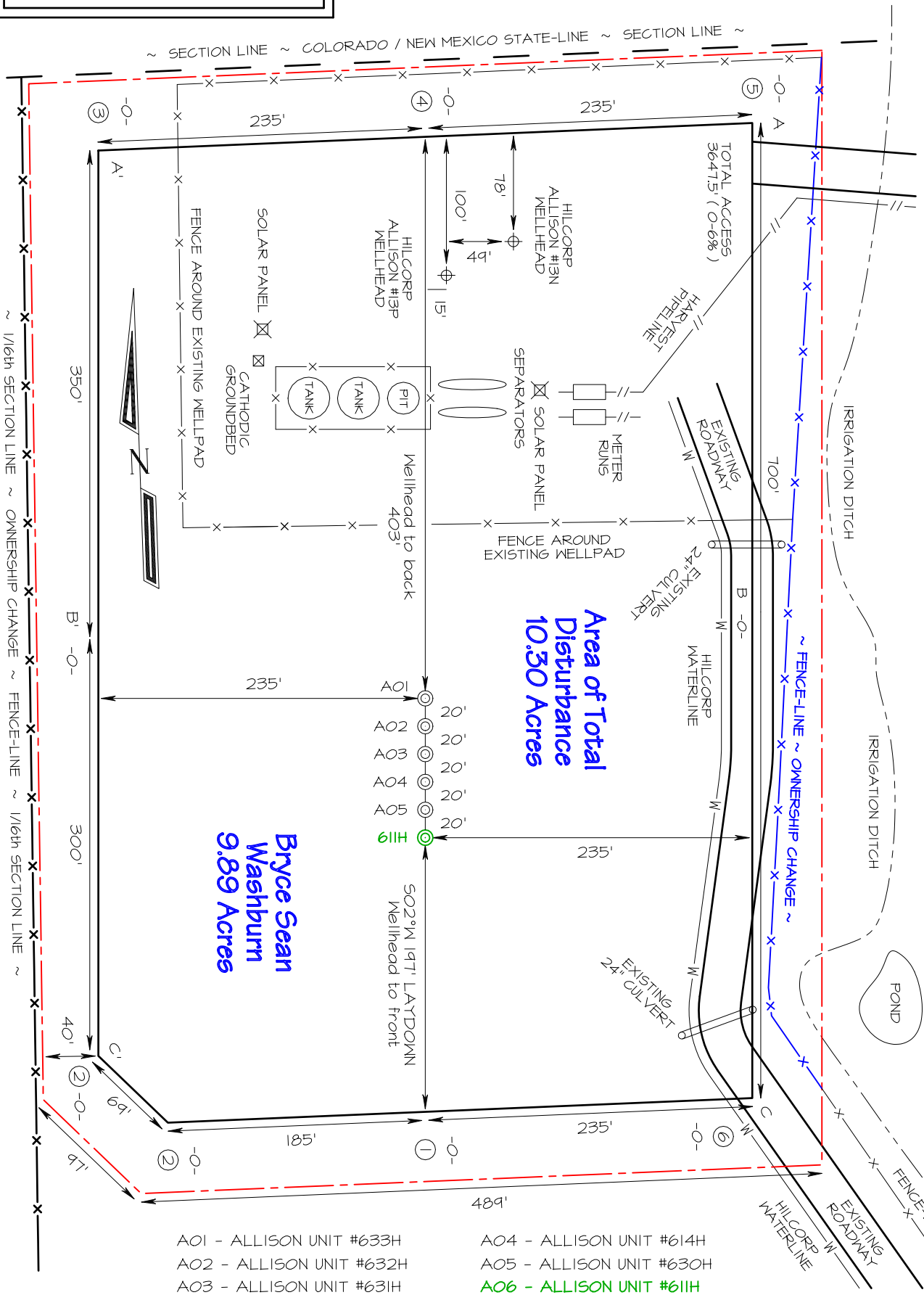
HILCORP ENERGY COMPANY ALLISON UNIT #611H
558' FNL & 1560' FWL, SECTION 12, T32N, R7W, NMPM
SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6352'
LAT 36.998527°N LONG -107.521287°W DATUM: NAD1983

**Sean & Dawnette
Washburn**
0.41 Acres

**Bryce Sean
Washburn**
9.89 Acres

**Area of Total
Disturbance**
10.30 Acres

Steel T-Posts have been set to define Edge of Disturbance which is 50' wide, unless otherwise noted.



- A01 - ALLISON UNIT #633H
- A02 - ALLISON UNIT #632H
- A03 - ALLISON UNIT #631H
- A04 - ALLISON UNIT #614H
- A05 - ALLISON UNIT #630H
- A06 - ALLISON UNIT #611H

HORIZONTAL SCALE 1"=60'

VERTICAL SCALE 1"=30'

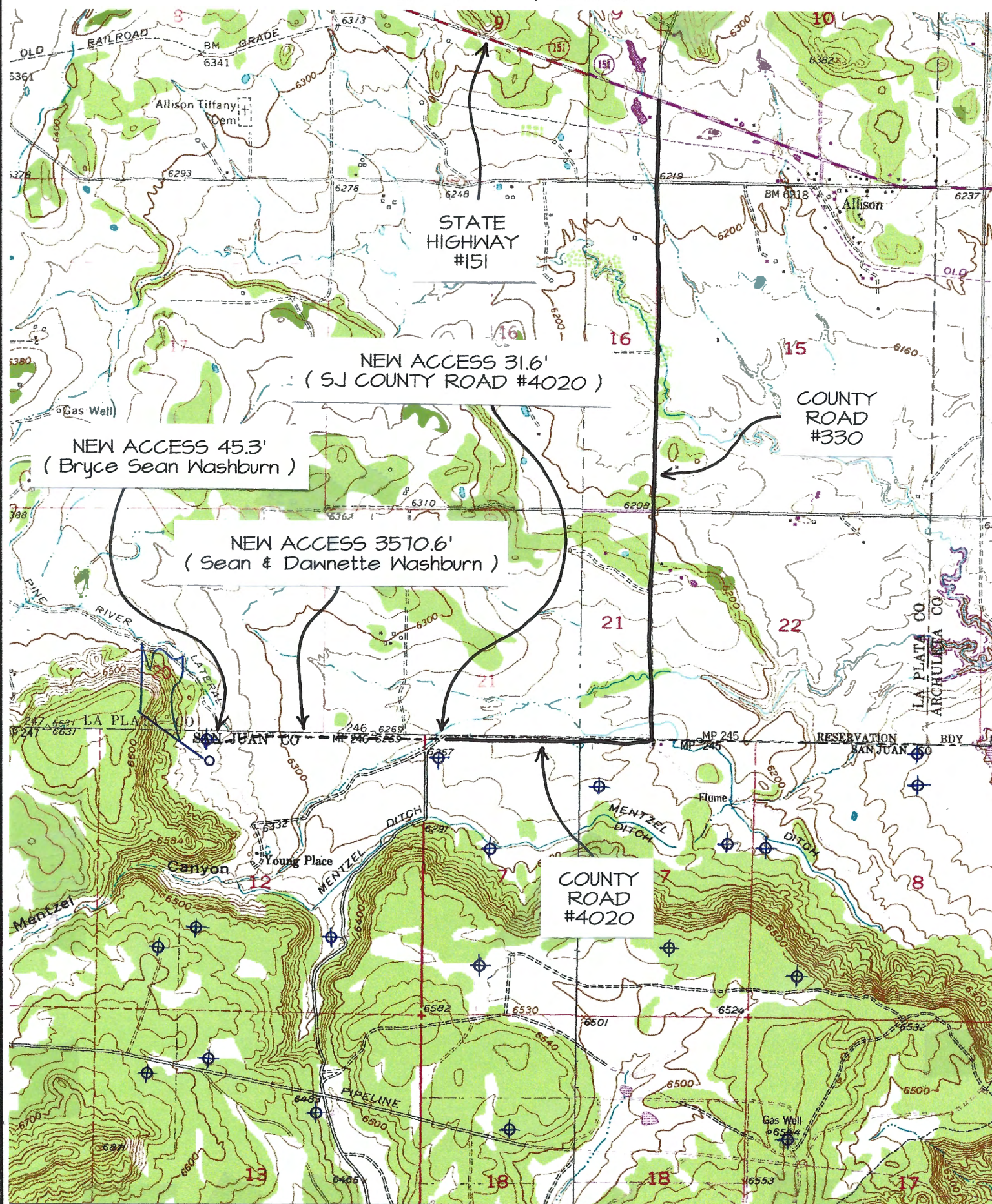
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HILCORP ENERGY COMPANY ALLISON UNIT #611H

558' FNL & 1560' FWL, SECTION 12, T32N, RTW, N.M.P.M.

SAN JUAN COUNTY, NEW MEXICO



TOPO NAME : BURNT MESA

⊕ PRODUCING WELL

⊗ PLUGGED & ABANDONED WELL

Directions from Intersection of State Hwy 172 & State Hwy 151 in Ignacio, CO

to Hilcorp Energy Company Allison Unit #611H

558' FNL & 1560' FWL, Section 12, T32N, R7W, N.M.P.M., San Juan County, NM

Latitude 36.998527°N Longitude -107.521287°W Datum: NAD1983

From the intersection of State Hwy 172 & State Hwy 151 in Ignacio, CO, travel Easterly on State Hwy 151 for 12.0 miles to County Road #330:

Go Right (Southerly) on County Road #330 for 1.9 miles to County Road #4020;

Go Right (Westerly) on County Road #4020 for 0.6 miles to new access on right-hand side which continues for 3647.5' to Hilcorp Allison Unit #611H existing wellpad.

San Juan County, NM

Allison Unit 611H



Technical Drilling Plan (Rev. 2)

Hilcorp Energy Company proposes to drill and complete the referenced horizontal well targeting the Mancos formation.

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

1. Location

Date:	July 22, 2025	Pool:	Basin Mancos
Well Name:	Allison Unit 611H	Ground Elevation (ft. MSL):	6,350'
Surface Hole Location:	36.998522° N, -107.520680° W	Total Measured Depth (ft.)	20,015'
Bottom Hole Location:	36.997372° N, -107.472988° W	County, State:	San Juan County, 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 25' 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 RKB)	Remarks
Ojo Alamo	2,084	Possible Water
Kirtland	2,150	Gas & Water
Fruitland	2,581	Gas & Water
Pictured Cliffs	2,950	Possible Gas
Lewis Shale	3,467	None
Cliffhouse	4,900	Possible Gas & Water
Menefee	5,274	None
Point Lookout	5,455	Gas
Mancos	5,974	Gas

San Juan County, NM

Allison Unit 611H



3. Pressure Control Equipment

A. BOP Equipment

See Appendix A for BOP equipment and choke manifold diagram.

- BOP equipment will be nipped up on top of the wellhead after surface casing is set and cemented.
- Pressure control configurations will be designed to meet the minimum 5M standards.
- All equipment will have 5M 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 BOP 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 5,000 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

- Surface casing will be pressure tested to 600 psi for 30 minutes.
- Intermediate casing will be pressure tested to 1,500 psi for 30 minutes.

San Juan County, NM

Allison Unit 611H



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	17-1/2"	13-3/8"-54.5#-J55 (or equiv)-LTC/BTC	0'	700'/700'	1,130 psi	2,730 psi	514 klbs
Intermediate	12-1/4"	9-5/8"-43.5#-L80 (or equiv)-LTC/BTC	0'	6,266'/6,193'	3,810 psi	6,330 psi	737 klbs
Production	8-1/2"	5-1/2"-20.0#-P110 (or equiv)-LTC/BTC	0'	20,015'/6,829'	11,080 psi	12,360 psi	548 klbs

Proposed Casing Design Safety Factors				
Casing String	Burst Design SF	Collapse Design SF	Joint Tensile Design SF	Connection Tensile Design SF
Surface	8.3	4.4	25.9	27.6
Intermediate	1.7	1.2	4.5	3.6
Production	3.0	3.1	2.0	1.7

B. Casing Design Parameters & Calculations:

- Designed for full wellbore evacuation.
- Mud Weights used for calculations:
 - Surface = 9.0 ppg
 - Intermediate = 11.5 ppg
 - Production = 12.0 ppg
- Minimum Acceptable Safety Factors:
 - Burst: 1.15
 - Collapse: 1.15
 - Tensile: 1.50
- Casing Safety Factor Calculations:

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

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

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

Production Casing Notes:

- Production casing will be run from surface to TD.
- If the 8-1/2" hole is not drilled to the planned measured depth, casing setting depth will be adjusted accordingly.
- A toe initiation sliding sleeve will be installed at the toe of the production casing.

San Juan County, NM

Allison Unit 611H



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 3 rd joint to surface.
Production Casing	Centralizers determined by hole conditions from TD to top of cement.

6. Proposed Cement Program:

Proposed Cement Design								
Interval	Depth (ft. MD)	Lead/Tail	Volume (ft ³)	Sacks	Excess (%)	Slurry	Density (ppg)	Planned TOC
Surface	700'	Lead	973 ft ³	705	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	6,266'	Lead	1,937 ft ³	378	25%	ASTM Type II Yield: 5.12 ft ³ /sk	9.5	Surface
		Slurry Additives: FL-24 (0.5%), FL-66 (0.5%), IntegraGuard GW-86 (0.2%), IntegraSeal PHENO (2.0 lb/sk), IntegraSeal POLI (0.25 lb/sk), LW-5E (50.0%), R-3 (0.4%), S-8 Silica Flour (35.0%), XCem-311 (0.3%)						
		Tail	496 ft ³	231	25%	ASTM Type II Yield: 2.15 ft ³ /sk	12.5	5,000'
		Slurry Additives: A-10 (5.0%), A-2 (1.0 lb/sk), IntegraSeal PHENO (1.0 lb/sk), IntegraSeal POLI (0.5 lb/sk), R-7C (0.3%), StaticFree (0.01%), XCem-311 (0.3%)						
Production	20,015'	Lead	473 ft ³	301	25%	ASTM Type II Yield: 1.57 ft ³ /sk	12.0	5,000'
		Slurry Additives: AEXT-1012 (60.0%), FL-66 (0.3%), GW-86 (0.2%), IntegraSeal PHENO (2.0 lb/sk), IntegraSeal POLI (0.25 lb/sk), KCI (3.0%), R-3 (0.55%), STATIC FREE (0.01 lb/sk), XCem-311 (0.3%)						
		Tail	3,801 ft ³	2,569	25%	Class G Yield: 1.48 ft ³ /sk	14.0	6,800'
		Slurry Additives: Fly Ash (20.0%), Bentonite (4.0%), FL-66 (0.3%), GW-86 (0.1%), IntegraSeal PHENO (1.0 lb/sk), IntegraSeal POLI (0.25 lb/sk), R-3 (0.25%), StaticFree (0.01 lb/sk)						

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 will be placed appropriately as conditions indicate.
- 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 nipped 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).

San Juan County, NM

Allison Unit 611H



7. Drilling Fluids Program

A. Proposed Drilling Fluids Program:

Proposed Drilling Fluids Program					
Interval	Fluid Type	Density (ppg)	Fluid Loss (mL/30 min)	Invert Ratio (%Diesel / %Brine)	Depth (ft. MD)
Surface	Water/Gel	8.3 – 9.2	NC	N/A	0' – 700'
Intermediate	LSND / Gel	8.4 – 10.0	<6	N/A	700' – 6,266'
Production	Oil Base Mud	10.0 – 12.0	6 – 8	70/30 – 75/25	6,266' – 20,015'

Drilling Fluids Notes:

- In the 8-1/2" production section, oil base mud will be utilized which will be an invert mud. The base fluid will be diesel. Brine fluid will be CaCl₂ or KCl.
- Lost circulation material may be added to the mud systems to manage fluid losses as hole conditions dictate.
- 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: 1,985 bbls (11,142 ft³).

8. Estimated Pressures & Drilling Hazards

A. Estimated Pressures

- Estimated Reservoir Pressure of Mancos Shale target: 4,000 – 4,200 psi
- No over-pressured intervals expected (aside from Mancos Shale target).
- There is production from the Fruitland Coal, Mesa Verde and Pictured Cliffs formations in offset wells in the area, which could result in these formations being depleted.

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 intermediate section. Losses will be mitigated by utilizing LCM in the mud system.

D. Hydrogen Sulfide

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



San Juan County, NM

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9. Pilot Hole

- No pilot hole is planned for this wellbore.

10. Testing, Logging, Coring

A. Mud Logging

- Mud loggers will collect formation samples every 30'-90' from intermediate casing shoe to TD of the well.

B. MWD

- Measurement while drilling tools will be utilized on all sections of the well to measure and record inclination and azimuth.

C. LWD

- Logging while drilling tools (gamma ray) will be utilized while drilling the production section from the intermediate casing shoe to the production hole section TD to assist in staying in the desired production formation interval while drilling the horizontal section.

D. Open Hole Logging

- None

E. Coring

- None

F. Cased Hole Logging

- The 9-5/8" 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 cement bod log will be run to verify top of cement.

11. Directional Drilling Plan

- The directional drilling plan and plot are attached.
- The directional plan is built from geologic targets from offset wells and lease boundaries. The production hole section will be landed and drilled horizontally within the target formation utilizing LWD tools to steer the wellbore. On-site adjustments to the directional plan will be made as formation and wellbore dictate.

San Juan County, NM

Allison Unit 611H



12. Completion

A. Pressure Testing

- A pressure test of the 5-1/2" production casing will be conducted to the maximum anticipated frac pressure for 30 minutes.
- Pressure will be cycled to shift the toe sleeve open.

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 lateral length and real-time pumping conditions during the stimulation.
- Individual stages will be perforated on wireline and isolated using frac plugs or dissolvable frac plugs.
- Upon completion of the stimulation operation, frac plugs will be drilled out and the stimulation fluid will be flowed back.

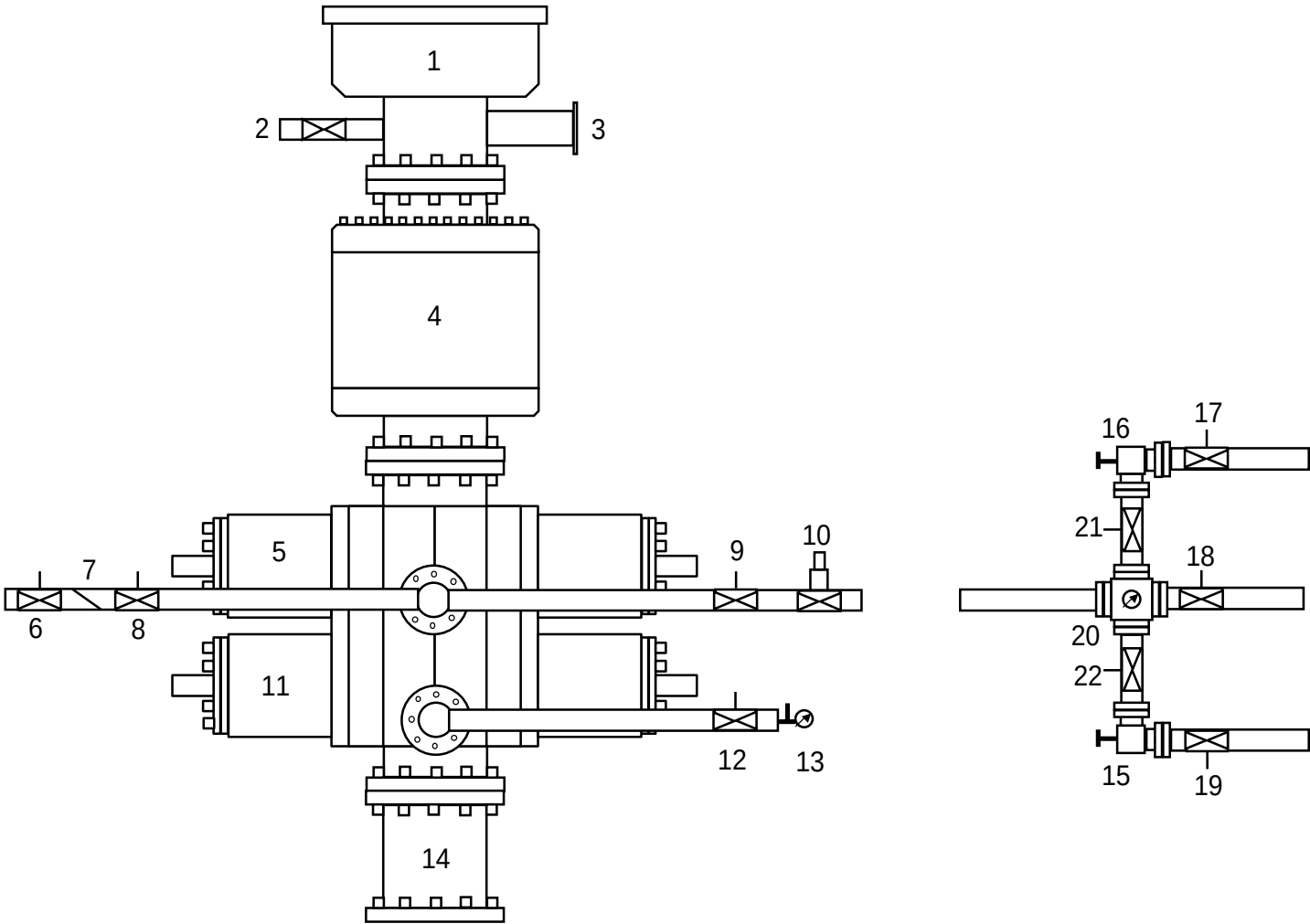
*NOTE: Although this horizontal well may be drilled past the applicable setbacks, an unorthodox location application is not required because the completed interval in this well, as defined by 19.15.16.7 8(1) NMAC, will be entirely within the applicable setbacks. This approach complies with all applicable rules, including 19.15.16.14 A(3) NMAC, 19.15.16.14 8(2) NMAC, 19.15.16.15 8(2)NMAC, and 19.15.16.15 8(4) NMAC.

San Juan County, NM

Allison Unit 611H

Appendix A

13-5/8" 5M BOP & 5M Choke Manifold 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	5M Annular Preventer	15	Manual Choke
5	5M Pipe Rams	16	Hydraulically Operated 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	5M Blind Rams	22	Manual Isolation Valve



Allison Unit 611H
OH
Plan #2

GL 6350' & RKB 25.1' @ 6375.10ft (Nabors B29)
Northing 2182881.50 Easting 591301.43 Latitude 36.998522 Longitude -107.520680

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
01 System Datum: Mean Sea Level



Plan: Plan #2 (Allison Unit 611H/OH)

Created By: Janie Collins

Date: 17:25, March 27 2025

PLAN DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Vsect	Annotation
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	
750.00	0.00	0.000	750.00	0.00	0.00	0.00	0.00	Start Build 2.50
1181.30	10.78	136.782	1178.76	-29.49	27.71	2.50	28.58	Start 3860.65 hold at 1181.30 MD
5041.95	10.78	136.782	4971.24	-555.83	522.29	0.00	538.63	Start Drop -2.50
5473.24	0.00	0.000	5400.00	-585.31	550.00	2.50	567.20	Start 811.90 hold at 5473.24 MD
6285.14	0.00	0.000	6211.90	-585.31	550.00	0.00	567.20	Start DLS 9.39 TFO 90.00
7243.14	89.97	90.000	6822.00	-585.31	1159.76	9.39	1176.69	Start DLS 0.01 TFO 89.20
15220.59	89.97	90.520	6826.00	-621.51	9137.10	0.01	9151.56	Start DLS 1.50 TFO -90.21
15423.87	89.96	87.471	6826.11	-617.95	9340.31	1.50	9354.58	Start 4591.47 hold at 15423.87 MD
20015.33	89.96	87.471	6829.00	-415.34	13927.31	0.00	13933.50	TD at 20015.33

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
AU 611H LP Rev1	6822.00	-585.31	1159.76	2182300.00	592463.10	36.996914	-107.516709
AU 611H CP1	6826.00	-621.51	9137.10	2182290.00	600440.50	36.996811	-107.489392
AU 611H BHL Rev1	6829.00	-415.34	13927.31	2182511.90	605230.00	36.997372	-107.472988



Azimuths to True North
Magnetic North: 8.58°

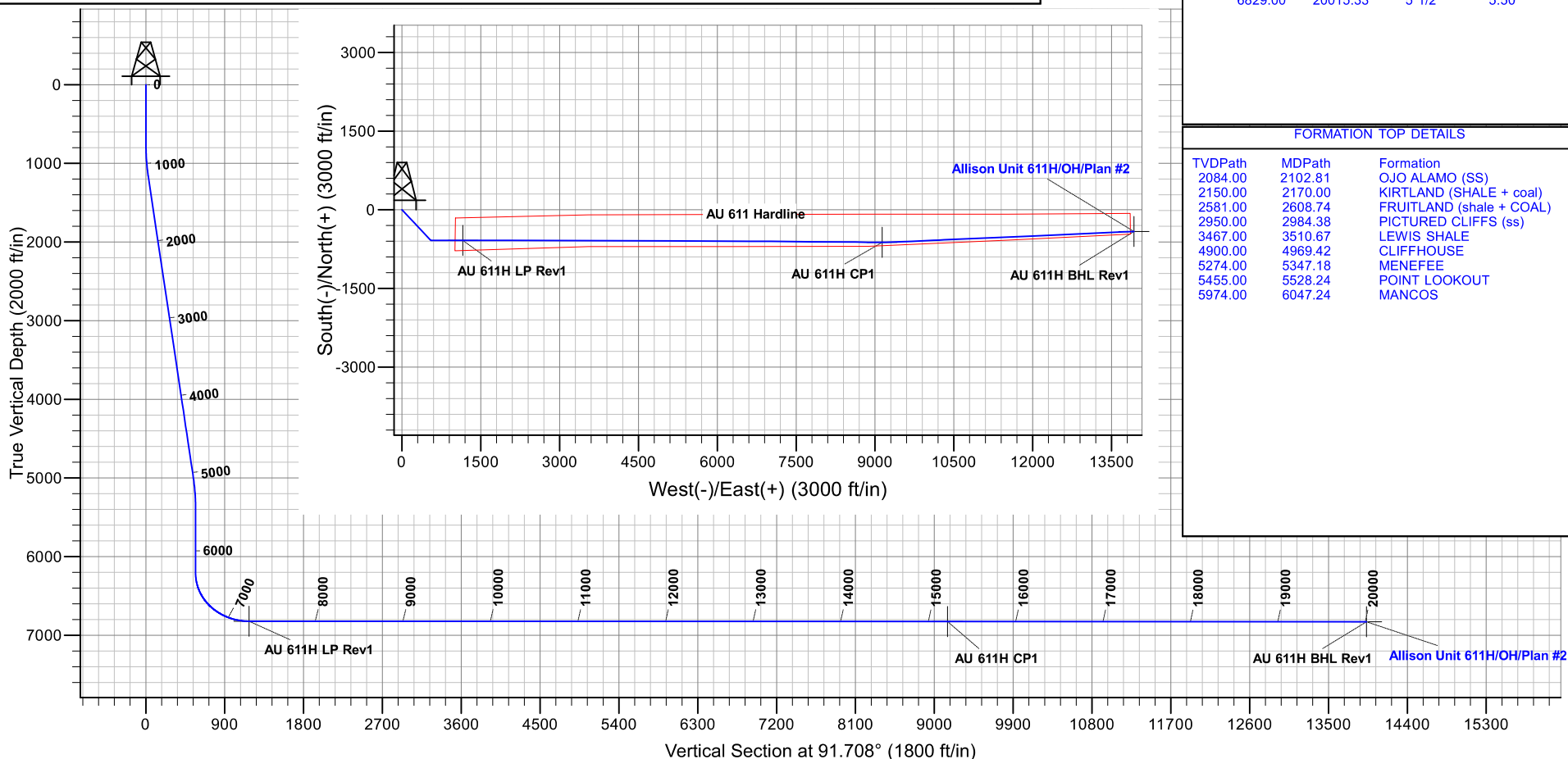
Magnetic Field
Strength: 49353.9nT
Dip Angle: 63.33°
Date: 5/30/2024
Model: HDGM2024

CASING DETAILS

TVD	MD	Name	Size
700.00	700.00	13 3/8"	13.37
6200.00	6273.24	9 5/8"	9.62
6829.00	20015.33	5 1/2"	5.50

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2084.00	2102.81	OJO ALAMO (SS)
2150.00	2170.00	KIRTLAND (SHAILE + coal)
2581.00	2608.74	FRUITLAND (shale + COAL)
2950.00	2984.38	PICTURED CLIFFS (ss)
3467.00	3510.67	LEWIS SHAILE
4900.00	4969.42	CLIFFHOUSE
5274.00	5347.18	MENEFEE
5455.00	5528.24	POINT LOOKOUT
5974.00	6047.24	MANCOS





Hilcorp Energy - San Juan Basin

San Juan, NM NAD27

Allison Unit 611H Pad

Allison Unit 611H - Slot 01

OH

Plan: Plan #2

Standard Planning Report

27 March, 2025





Lonestar Consulting, LLC Planning Report



Database:	edm	Local Co-ordinate Reference:	Well Allison Unit 611H - Slot 01
Company:	Hilcorp Energy - San Juan Basin	TVD Reference:	GL 6350' & RKB 25.1' @ 6375.10ft (Nabors B29)
Project:	San Juan, NM NAD27	MD Reference:	GL 6350' & RKB 25.1' @ 6375.10ft (Nabors B29)
Site:	Allison Unit 611H Pad	North Reference:	True
Well:	Allison Unit 611H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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		Allison Unit 611H Pad			
Site Position:		Northing:	2,182,981.63 usft	Latitude:	36.998797
From:	Lat/Long	Easting:	591,305.19 usft	Longitude:	-107.520666
Position Uncertainty:		0.00 ft	Slot Radius:	13.20 in	

Well	Allison Unit 611H - Slot 01					
Well Position	+N/-S	0.00 ft	Northing:	2,182,881.50 usft	Latitude:	36.998522
	+E/-W	0.00 ft	Easting:	591,301.43 usft	Longitude:	-107.520680
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,350.00 ft
Grid Convergence:		0.19 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2024	5/30/2024	8.58	63.33	49,353.90000000

Design	Plan #2			
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	91.708

Plan Survey Tool Program	Date	3/26/2025		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	20,015.33 Plan #2 (OH)	MWD+HDGM	
			OWSG MWD + HDGM	



Lonestar Consulting, LLC

Planning Report



Database:	edm	Local Co-ordinate Reference:	Well Allison Unit 611H - Slot 01
Company:	Hilcorp Energy - San Juan Basin	TVD Reference:	GL 6350' & RKB 25.1' @ 6375.10ft (Nabors B29)
Project:	San Juan, NM NAD27	MD Reference:	GL 6350' & RKB 25.1' @ 6375.10ft (Nabors B29)
Site:	Allison Unit 611H Pad	North Reference:	True
Well:	Allison Unit 611H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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	
750.00	0.00	0.000	750.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,181.30	10.78	136.782	1,178.76	-29.49	27.71	2.50	2.50	0.00	136.78	
5,041.95	10.78	136.782	4,971.24	-555.83	522.29	0.00	0.00	0.00	0.00	
5,473.24	0.00	0.000	5,400.00	-585.31	550.00	2.50	-2.50	0.00	180.00	
6,285.14	0.00	0.000	6,211.90	-585.31	550.00	0.00	0.00	0.00	0.00	
7,243.14	89.97	90.000	6,822.00	-585.31	1,159.76	9.39	9.39	9.39	90.00	AU 611H LP Rev1
15,220.59	89.97	90.520	6,826.00	-621.51	9,137.10	0.01	0.00	0.01	89.20	AU 611H CP1
15,423.87	89.96	87.471	6,826.11	-617.95	9,340.31	1.50	-0.01	-1.50	-90.21	
20,015.33	89.96	87.471	6,829.00	-415.34	13,927.31	0.00	0.00	0.00	0.00	AU 611H BHL Rev1



Lonestar Consulting, LLC

Planning Report



Database:	edm	Local Co-ordinate Reference:	Well Allison Unit 611H - Slot 01
Company:	Hilcorp Energy - San Juan Basin	TVD Reference:	GL 6350' & RKB 25.1' @ 6375.10ft (Nabors B29)
Project:	San Juan, NM NAD27	MD Reference:	GL 6350' & RKB 25.1' @ 6375.10ft (Nabors B29)
Site:	Allison Unit 611H Pad	North Reference:	True
Well:	Allison Unit 611H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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	0.00	0.000	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.000	700.00	0.00	0.00	0.00	0.00	0.00	0.00
750.00	0.00	0.000	750.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	1.25	136.782	800.00	-0.40	0.37	0.39	2.50	2.50	0.00
900.00	3.75	136.782	899.89	-3.58	3.36	3.47	2.50	2.50	0.00
1,000.00	6.25	136.782	999.50	-9.93	9.33	9.62	2.50	2.50	0.00
1,100.00	8.75	136.782	1,098.64	-19.44	18.27	18.84	2.50	2.50	0.00
1,181.30	10.78	136.782	1,178.76	-29.49	27.71	28.58	2.50	2.50	0.00
1,200.00	10.78	136.782	1,197.13	-32.04	30.10	31.05	0.00	0.00	0.00
1,300.00	10.78	136.782	1,295.36	-45.67	42.92	44.26	0.00	0.00	0.00
1,400.00	10.78	136.782	1,393.60	-59.30	55.73	57.47	0.00	0.00	0.00
1,500.00	10.78	136.782	1,491.83	-72.94	68.54	70.68	0.00	0.00	0.00
1,600.00	10.78	136.782	1,590.07	-86.57	81.35	83.89	0.00	0.00	0.00
1,700.00	10.78	136.782	1,688.30	-100.20	94.16	97.10	0.00	0.00	0.00
1,800.00	10.78	136.782	1,786.54	-113.84	106.97	110.32	0.00	0.00	0.00
1,900.00	10.78	136.782	1,884.77	-127.47	119.78	123.53	0.00	0.00	0.00
2,000.00	10.78	136.782	1,983.00	-141.10	132.59	136.74	0.00	0.00	0.00
2,100.00	10.78	136.782	2,081.24	-154.74	145.40	149.95	0.00	0.00	0.00
2,200.00	10.78	136.782	2,179.47	-168.37	158.21	163.16	0.00	0.00	0.00
2,300.00	10.78	136.782	2,277.71	-182.01	171.02	176.37	0.00	0.00	0.00
2,400.00	10.78	136.782	2,375.94	-195.64	183.83	189.59	0.00	0.00	0.00
2,500.00	10.78	136.782	2,474.18	-209.27	196.65	202.80	0.00	0.00	0.00
2,600.00	10.78	136.782	2,572.41	-222.91	209.46	216.01	0.00	0.00	0.00
2,700.00	10.78	136.782	2,670.65	-236.54	222.27	229.22	0.00	0.00	0.00
2,800.00	10.78	136.782	2,768.88	-250.17	235.08	242.43	0.00	0.00	0.00
2,900.00	10.78	136.782	2,867.11	-263.81	247.89	255.64	0.00	0.00	0.00
3,000.00	10.78	136.782	2,965.35	-277.44	260.70	268.85	0.00	0.00	0.00
3,100.00	10.78	136.782	3,063.58	-291.07	273.51	282.07	0.00	0.00	0.00
3,200.00	10.78	136.782	3,161.82	-304.71	286.32	295.28	0.00	0.00	0.00
3,300.00	10.78	136.782	3,260.05	-318.34	299.13	308.49	0.00	0.00	0.00
3,400.00	10.78	136.782	3,358.29	-331.97	311.94	321.70	0.00	0.00	0.00
3,500.00	10.78	136.782	3,456.52	-345.61	324.75	334.91	0.00	0.00	0.00
3,600.00	10.78	136.782	3,554.76	-359.24	337.57	348.12	0.00	0.00	0.00
3,700.00	10.78	136.782	3,652.99	-372.87	350.38	361.34	0.00	0.00	0.00
3,800.00	10.78	136.782	3,751.22	-386.51	363.19	374.55	0.00	0.00	0.00
3,900.00	10.78	136.782	3,849.46	-400.14	376.00	387.76	0.00	0.00	0.00
4,000.00	10.78	136.782	3,947.69	-413.77	388.81	400.97	0.00	0.00	0.00
4,100.00	10.78	136.782	4,045.93	-427.41	401.62	414.18	0.00	0.00	0.00
4,200.00	10.78	136.782	4,144.16	-441.04	414.43	427.39	0.00	0.00	0.00
4,300.00	10.78	136.782	4,242.40	-454.67	427.24	440.61	0.00	0.00	0.00
4,400.00	10.78	136.782	4,340.63	-468.31	440.05	453.82	0.00	0.00	0.00
4,500.00	10.78	136.782	4,438.87	-481.94	452.86	467.03	0.00	0.00	0.00
4,600.00	10.78	136.782	4,537.10	-495.57	465.67	480.24	0.00	0.00	0.00
4,700.00	10.78	136.782	4,635.33	-509.21	478.49	493.45	0.00	0.00	0.00
4,800.00	10.78	136.782	4,733.57	-522.84	491.30	506.66	0.00	0.00	0.00
4,900.00	10.78	136.782	4,831.80	-536.47	504.11	519.87	0.00	0.00	0.00



Lonestar Consulting, LLC

Planning Report



Database:	edm	Local Co-ordinate Reference:	Well Allison Unit 611H - Slot 01
Company:	Hilcorp Energy - San Juan Basin	TVD Reference:	GL 6350' & RKB 25.1' @ 6375.10ft (Nabors B29)
Project:	San Juan, NM NAD27	MD Reference:	GL 6350' & RKB 25.1' @ 6375.10ft (Nabors B29)
Site:	Allison Unit 611H Pad	North Reference:	True
Well:	Allison Unit 611H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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)
5,000.00	10.78	136.782	4,930.04	-550.11	516.92	533.09	0.00	0.00	0.00
5,041.95	10.78	136.782	4,971.24	-555.83	522.29	538.63	0.00	0.00	0.00
5,100.00	9.33	136.782	5,028.40	-563.21	529.23	545.79	2.50	-2.50	0.00
5,200.00	6.83	136.782	5,127.40	-573.46	538.86	555.71	2.50	-2.50	0.00
5,300.00	4.33	136.782	5,226.92	-580.54	545.52	562.58	2.50	-2.50	0.00
5,400.00	1.83	136.782	5,326.77	-584.46	549.20	566.38	2.50	-2.50	0.00
5,473.24	0.00	0.000	5,400.00	-585.31	550.00	567.20	2.50	-2.50	0.00
5,500.00	0.00	0.000	5,426.76	-585.31	550.00	567.20	0.00	0.00	0.00
5,600.00	0.00	0.000	5,526.76	-585.31	550.00	567.20	0.00	0.00	0.00
5,700.00	0.00	0.000	5,626.76	-585.31	550.00	567.20	0.00	0.00	0.00
5,800.00	0.00	0.000	5,726.76	-585.31	550.00	567.20	0.00	0.00	0.00
5,900.00	0.00	0.000	5,826.76	-585.31	550.00	567.20	0.00	0.00	0.00
6,000.00	0.00	0.000	5,926.76	-585.31	550.00	567.20	0.00	0.00	0.00
6,100.00	0.00	0.000	6,026.76	-585.31	550.00	567.20	0.00	0.00	0.00
6,200.00	0.00	0.000	6,126.76	-585.31	550.00	567.20	0.00	0.00	0.00
6,285.14	0.00	0.000	6,211.90	-585.31	550.00	567.20	0.00	0.00	0.00
6,300.00	1.40	90.000	6,226.76	-585.31	550.18	567.38	9.39	9.39	0.00
6,400.00	10.79	90.000	6,326.08	-585.31	560.78	577.98	9.39	9.39	0.00
6,500.00	20.18	90.000	6,422.34	-585.31	587.44	604.63	9.39	9.39	0.00
6,600.00	29.57	90.000	6,512.97	-585.31	629.46	646.63	9.39	9.39	0.00
6,700.00	38.96	90.000	6,595.52	-585.31	685.70	702.84	9.39	9.39	0.00
6,800.00	48.35	90.000	6,667.79	-585.31	754.65	771.76	9.39	9.39	0.00
6,900.00	57.74	90.000	6,727.84	-585.31	834.47	851.55	9.39	9.39	0.00
7,000.00	67.13	90.000	6,774.05	-585.31	923.03	940.06	9.39	9.39	0.00
7,100.00	76.52	90.000	6,805.20	-585.31	1,017.93	1,034.93	9.39	9.39	0.00
7,200.00	85.92	90.000	6,820.45	-585.31	1,116.65	1,133.60	9.39	9.39	0.00
7,243.14	89.97	90.000	6,822.00	-585.31	1,159.76	1,176.69	9.39	9.39	0.00
7,300.00	89.97	90.004	6,822.03	-585.32	1,216.61	1,233.52	0.01	0.00	0.01
7,400.00	89.97	90.010	6,822.09	-585.33	1,316.61	1,333.48	0.01	0.00	0.01
7,500.00	89.97	90.017	6,822.14	-585.35	1,416.61	1,433.43	0.01	0.00	0.01
7,600.00	89.97	90.023	6,822.20	-585.39	1,516.61	1,533.39	0.01	0.00	0.01
7,700.00	89.97	90.030	6,822.26	-585.43	1,616.61	1,633.35	0.01	0.00	0.01
7,800.00	89.97	90.036	6,822.31	-585.49	1,716.61	1,733.30	0.01	0.00	0.01
7,900.00	89.97	90.043	6,822.37	-585.56	1,816.61	1,833.26	0.01	0.00	0.01
8,000.00	89.97	90.049	6,822.42	-585.64	1,916.61	1,933.22	0.01	0.00	0.01
8,100.00	89.97	90.056	6,822.48	-585.73	2,016.61	2,033.18	0.01	0.00	0.01
8,200.00	89.97	90.062	6,822.53	-585.84	2,116.61	2,133.14	0.01	0.00	0.01
8,300.00	89.97	90.069	6,822.59	-585.95	2,216.61	2,233.09	0.01	0.00	0.01
8,400.00	89.97	90.075	6,822.64	-586.08	2,316.61	2,333.05	0.01	0.00	0.01
8,500.00	89.97	90.082	6,822.70	-586.21	2,416.61	2,433.01	0.01	0.00	0.01
8,600.00	89.97	90.088	6,822.75	-586.36	2,516.61	2,532.97	0.01	0.00	0.01
8,700.00	89.97	90.095	6,822.81	-586.52	2,616.61	2,632.93	0.01	0.00	0.01
8,800.00	89.97	90.101	6,822.86	-586.69	2,716.61	2,732.89	0.01	0.00	0.01
8,900.00	89.97	90.108	6,822.91	-586.88	2,816.61	2,832.85	0.01	0.00	0.01
9,000.00	89.97	90.115	6,822.97	-587.07	2,916.61	2,932.82	0.01	0.00	0.01
9,100.00	89.97	90.121	6,823.02	-587.28	3,016.61	3,032.78	0.01	0.00	0.01
9,200.00	89.97	90.128	6,823.08	-587.49	3,116.61	3,132.74	0.01	0.00	0.01
9,300.00	89.97	90.134	6,823.13	-587.72	3,216.61	3,232.70	0.01	0.00	0.01
9,400.00	89.97	90.141	6,823.18	-587.96	3,316.61	3,332.66	0.01	0.00	0.01
9,500.00	89.97	90.147	6,823.23	-588.21	3,416.61	3,432.63	0.01	0.00	0.01
9,600.00	89.97	90.154	6,823.29	-588.47	3,516.61	3,532.59	0.01	0.00	0.01
9,700.00	89.97	90.160	6,823.34	-588.75	3,616.61	3,632.55	0.01	0.00	0.01



Lonestar Consulting, LLC

Planning Report



Database:	edm	Local Co-ordinate Reference:	Well Allison Unit 611H - Slot 01
Company:	Hilcorp Energy - San Juan Basin	TVD Reference:	GL 6350' & RKB 25.1' @ 6375.10ft (Nabors B29)
Project:	San Juan, NM NAD27	MD Reference:	GL 6350' & RKB 25.1' @ 6375.10ft (Nabors B29)
Site:	Allison Unit 611H Pad	North Reference:	True
Well:	Allison Unit 611H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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)	
9,800.00	89.97	90.167	6,823.39	-589.03	3,716.61	3,732.52	0.01	0.00	0.01	
9,900.00	89.97	90.173	6,823.44	-589.33	3,816.61	3,832.48	0.01	0.00	0.01	
10,000.00	89.97	90.180	6,823.50	-589.64	3,916.61	3,932.44	0.01	0.00	0.01	
10,100.00	89.97	90.186	6,823.55	-589.96	4,016.61	4,032.41	0.01	0.00	0.01	
10,200.00	89.97	90.193	6,823.60	-590.29	4,116.61	4,132.37	0.01	0.00	0.01	
10,300.00	89.97	90.199	6,823.65	-590.63	4,216.61	4,232.34	0.01	0.00	0.01	
10,400.00	89.97	90.206	6,823.70	-590.98	4,316.61	4,332.30	0.01	0.00	0.01	
10,500.00	89.97	90.212	6,823.76	-591.35	4,416.61	4,432.27	0.01	0.00	0.01	
10,600.00	89.97	90.219	6,823.81	-591.72	4,516.61	4,532.24	0.01	0.00	0.01	
10,700.00	89.97	90.225	6,823.86	-592.11	4,616.60	4,632.20	0.01	0.00	0.01	
10,800.00	89.97	90.232	6,823.91	-592.51	4,716.60	4,732.17	0.01	0.00	0.01	
10,900.00	89.97	90.238	6,823.96	-592.92	4,816.60	4,832.14	0.01	0.00	0.01	
11,000.00	89.97	90.245	6,824.01	-593.34	4,916.60	4,932.10	0.01	0.00	0.01	
11,100.00	89.97	90.251	6,824.06	-593.78	5,016.60	5,032.07	0.01	0.00	0.01	
11,200.00	89.97	90.258	6,824.11	-594.22	5,116.60	5,132.04	0.01	0.00	0.01	
11,300.00	89.97	90.264	6,824.16	-594.68	5,216.60	5,232.01	0.01	0.00	0.01	
11,400.00	89.97	90.271	6,824.21	-595.14	5,316.60	5,331.98	0.01	0.00	0.01	
11,500.00	89.97	90.277	6,824.26	-595.62	5,416.60	5,431.94	0.01	0.00	0.01	
11,600.00	89.97	90.284	6,824.31	-596.11	5,516.60	5,531.91	0.01	0.00	0.01	
11,700.00	89.97	90.290	6,824.36	-596.61	5,616.59	5,631.88	0.01	0.00	0.01	
11,800.00	89.97	90.297	6,824.41	-597.13	5,716.59	5,731.85	0.01	0.00	0.01	
11,900.00	89.97	90.304	6,824.46	-597.65	5,816.59	5,831.82	0.01	0.00	0.01	
12,000.00	89.97	90.310	6,824.51	-598.19	5,916.59	5,931.79	0.01	0.00	0.01	
12,100.00	89.97	90.317	6,824.56	-598.73	6,016.59	6,031.76	0.01	0.00	0.01	
12,200.00	89.97	90.323	6,824.60	-599.29	6,116.59	6,131.73	0.01	0.00	0.01	
12,300.00	89.97	90.330	6,824.65	-599.86	6,216.59	6,231.70	0.01	0.00	0.01	
12,400.00	89.97	90.336	6,824.70	-600.44	6,316.58	6,331.67	0.01	0.00	0.01	
12,500.00	89.97	90.343	6,824.75	-601.03	6,416.58	6,431.65	0.01	0.00	0.01	
12,600.00	89.97	90.349	6,824.80	-601.64	6,516.58	6,531.62	0.01	0.00	0.01	
12,700.00	89.97	90.356	6,824.85	-602.25	6,616.58	6,631.59	0.01	0.00	0.01	
12,800.00	89.97	90.362	6,824.89	-602.88	6,716.58	6,731.56	0.01	0.00	0.01	
12,900.00	89.97	90.369	6,824.94	-603.52	6,816.57	6,831.53	0.01	0.00	0.01	
13,000.00	89.97	90.375	6,824.99	-604.17	6,916.57	6,931.51	0.01	0.00	0.01	
13,100.00	89.97	90.382	6,825.04	-604.83	7,016.57	7,031.48	0.01	0.00	0.01	
13,200.00	89.97	90.388	6,825.08	-605.50	7,116.57	7,131.45	0.01	0.00	0.01	
13,300.00	89.97	90.395	6,825.13	-606.18	7,216.56	7,231.43	0.01	0.00	0.01	
13,400.00	89.97	90.401	6,825.18	-606.88	7,316.56	7,331.40	0.01	0.00	0.01	
13,500.00	89.97	90.408	6,825.22	-607.58	7,416.56	7,431.38	0.01	0.00	0.01	
13,600.00	89.97	90.414	6,825.27	-608.30	7,516.56	7,531.35	0.01	0.00	0.01	
13,700.00	89.97	90.421	6,825.32	-609.03	7,616.55	7,631.32	0.01	0.00	0.01	
13,800.00	89.97	90.427	6,825.36	-609.77	7,716.55	7,731.30	0.01	0.00	0.01	
13,900.00	89.97	90.434	6,825.41	-610.52	7,816.55	7,831.27	0.01	0.00	0.01	
14,000.00	89.97	90.440	6,825.45	-611.28	7,916.55	7,931.25	0.01	0.00	0.01	
14,100.00	89.97	90.447	6,825.50	-612.06	8,016.54	8,031.23	0.01	0.00	0.01	
14,200.00	89.97	90.453	6,825.54	-612.84	8,116.54	8,131.20	0.01	0.00	0.01	
14,300.00	89.97	90.460	6,825.59	-613.64	8,216.54	8,231.18	0.01	0.00	0.01	
14,400.00	89.97	90.466	6,825.64	-614.45	8,316.53	8,331.15	0.01	0.00	0.01	
14,500.00	89.97	90.473	6,825.68	-615.27	8,416.53	8,431.13	0.01	0.00	0.01	
14,600.00	89.97	90.480	6,825.73	-616.10	8,516.53	8,531.11	0.01	0.00	0.01	
14,700.00	89.97	90.486	6,825.77	-616.94	8,616.52	8,631.08	0.01	0.00	0.01	
14,800.00	89.97	90.493	6,825.81	-617.80	8,716.52	8,731.06	0.01	0.00	0.01	
14,900.00	89.97	90.499	6,825.86	-618.66	8,816.52	8,831.04	0.01	0.00	0.01	



Lonestar Consulting, LLC

Planning Report



Database:	edm	Local Co-ordinate Reference:	Well Allison Unit 611H - Slot 01
Company:	Hilcorp Energy - San Juan Basin	TVD Reference:	GL 6350' & RKB 25.1' @ 6375.10ft (Nabors B29)
Project:	San Juan, NM NAD27	MD Reference:	GL 6350' & RKB 25.1' @ 6375.10ft (Nabors B29)
Site:	Allison Unit 611H Pad	North Reference:	True
Well:	Allison Unit 611H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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)	
15,000.00	89.97	90.506	6,825.90	-619.54	8,916.51	8,931.02	0.01	0.00	0.01	
15,100.00	89.97	90.512	6,825.95	-620.43	9,016.51	9,031.00	0.01	0.00	0.01	
15,200.00	89.97	90.519	6,825.99	-621.33	9,116.50	9,130.97	0.01	0.00	0.01	
15,220.59	89.97	90.520	6,826.00	-621.51	9,137.10	9,151.56	0.01	0.00	0.01	
15,300.00	89.97	89.329	6,826.04	-621.41	9,216.50	9,230.93	1.50	-0.01	-1.50	
15,400.00	89.97	87.829	6,826.09	-618.93	9,316.47	9,330.78	1.50	-0.01	-1.50	
15,423.87	89.96	87.471	6,826.11	-617.95	9,340.31	9,354.58	1.50	-0.01	-1.50	
15,500.00	89.96	87.471	6,826.16	-614.59	9,416.37	9,430.51	0.00	0.00	0.00	
15,600.00	89.96	87.471	6,826.22	-610.18	9,516.28	9,530.24	0.00	0.00	0.00	
15,700.00	89.96	87.471	6,826.28	-605.76	9,616.18	9,629.96	0.00	0.00	0.00	
15,800.00	89.96	87.471	6,826.35	-601.35	9,716.08	9,729.69	0.00	0.00	0.00	
15,900.00	89.96	87.471	6,826.41	-596.94	9,815.98	9,829.42	0.00	0.00	0.00	
16,000.00	89.96	87.471	6,826.47	-592.53	9,915.89	9,929.14	0.00	0.00	0.00	
16,100.00	89.96	87.471	6,826.53	-588.11	10,015.79	10,028.87	0.00	0.00	0.00	
16,200.00	89.96	87.471	6,826.60	-583.70	10,115.69	10,128.60	0.00	0.00	0.00	
16,300.00	89.96	87.471	6,826.66	-579.29	10,215.59	10,228.32	0.00	0.00	0.00	
16,400.00	89.96	87.471	6,826.72	-574.88	10,315.50	10,328.05	0.00	0.00	0.00	
16,500.00	89.96	87.471	6,826.79	-570.46	10,415.40	10,427.78	0.00	0.00	0.00	
16,600.00	89.96	87.471	6,826.85	-566.05	10,515.30	10,527.50	0.00	0.00	0.00	
16,700.00	89.96	87.471	6,826.91	-561.64	10,615.20	10,627.23	0.00	0.00	0.00	
16,800.00	89.96	87.471	6,826.98	-557.23	10,715.11	10,726.96	0.00	0.00	0.00	
16,900.00	89.96	87.471	6,827.04	-552.81	10,815.01	10,826.68	0.00	0.00	0.00	
17,000.00	89.96	87.471	6,827.10	-548.40	10,914.91	10,926.41	0.00	0.00	0.00	
17,100.00	89.96	87.471	6,827.16	-543.99	11,014.82	11,026.14	0.00	0.00	0.00	
17,200.00	89.96	87.471	6,827.23	-539.57	11,114.72	11,125.86	0.00	0.00	0.00	
17,300.00	89.96	87.471	6,827.29	-535.16	11,214.62	11,225.59	0.00	0.00	0.00	
17,400.00	89.96	87.471	6,827.35	-530.75	11,314.52	11,325.32	0.00	0.00	0.00	
17,500.00	89.96	87.471	6,827.42	-526.34	11,414.43	11,425.04	0.00	0.00	0.00	
17,600.00	89.96	87.471	6,827.48	-521.92	11,514.33	11,524.77	0.00	0.00	0.00	
17,700.00	89.96	87.471	6,827.54	-517.51	11,614.23	11,624.50	0.00	0.00	0.00	
17,800.00	89.96	87.471	6,827.61	-513.10	11,714.13	11,724.22	0.00	0.00	0.00	
17,900.00	89.96	87.471	6,827.67	-508.69	11,814.04	11,823.95	0.00	0.00	0.00	
18,000.00	89.96	87.471	6,827.73	-504.27	11,913.94	11,923.68	0.00	0.00	0.00	
18,100.00	89.96	87.471	6,827.79	-499.86	12,013.84	12,023.40	0.00	0.00	0.00	
18,200.00	89.96	87.471	6,827.86	-495.45	12,113.74	12,123.13	0.00	0.00	0.00	
18,300.00	89.96	87.471	6,827.92	-491.04	12,213.65	12,222.86	0.00	0.00	0.00	
18,400.00	89.96	87.471	6,827.98	-486.62	12,313.55	12,322.58	0.00	0.00	0.00	
18,500.00	89.96	87.471	6,828.05	-482.21	12,413.45	12,422.31	0.00	0.00	0.00	
18,600.00	89.96	87.471	6,828.11	-477.80	12,513.35	12,522.04	0.00	0.00	0.00	
18,700.00	89.96	87.471	6,828.17	-473.38	12,613.26	12,621.76	0.00	0.00	0.00	
18,800.00	89.96	87.471	6,828.23	-468.97	12,713.16	12,721.49	0.00	0.00	0.00	
18,900.00	89.96	87.471	6,828.30	-464.56	12,813.06	12,821.22	0.00	0.00	0.00	
19,000.00	89.96	87.471	6,828.36	-460.15	12,912.96	12,920.94	0.00	0.00	0.00	
19,100.00	89.96	87.471	6,828.42	-455.73	13,012.87	13,020.67	0.00	0.00	0.00	
19,200.00	89.96	87.471	6,828.49	-451.32	13,112.77	13,120.40	0.00	0.00	0.00	
19,300.00	89.96	87.471	6,828.55	-446.91	13,212.67	13,220.12	0.00	0.00	0.00	
19,400.00	89.96	87.471	6,828.61	-442.50	13,312.57	13,319.85	0.00	0.00	0.00	
19,500.00	89.96	87.471	6,828.68	-438.08	13,412.48	13,419.58	0.00	0.00	0.00	
19,600.00	89.96	87.471	6,828.74	-433.67	13,512.38	13,519.30	0.00	0.00	0.00	
19,700.00	89.96	87.471	6,828.80	-429.26	13,612.28	13,619.03	0.00	0.00	0.00	
19,800.00	89.96	87.471	6,828.86	-424.85	13,712.18	13,718.76	0.00	0.00	0.00	
19,900.00	89.96	87.471	6,828.93	-420.43	13,812.09	13,818.48	0.00	0.00	0.00	



Lonestar Consulting, LLC Planning Report



Database:	edm	Local Co-ordinate Reference:	Well Allison Unit 611H - Slot 01
Company:	Hilcorp Energy - San Juan Basin	TVD Reference:	GL 6350' & RKB 25.1' @ 6375.10ft (Nabors B29)
Project:	San Juan, NM NAD27	MD Reference:	GL 6350' & RKB 25.1' @ 6375.10ft (Nabors B29)
Site:	Allison Unit 611H Pad	North Reference:	True
Well:	Allison Unit 611H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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)
20,000.00	89.96	87.471	6,828.99	-416.02	13,911.99	13,918.21	0.00	0.00	0.00
20,015.33	89.96	87.471	6,829.00	-415.34	13,927.31	13,933.50	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
AU 611H LP Rev1 - plan hits target center - Point	0.00	0.000	6,822.00	-585.31	1,159.76	2,182,300.00	592,463.10	36.996914	-107.516709
AU 611H CP1 - plan hits target center - Point	0.00	0.000	6,826.00	-621.51	9,137.10	2,182,290.00	600,440.50	36.996811	-107.489392
AU 611H BHL Rev1 - plan hits target center - Point	0.00	0.000	6,829.00	-415.34	13,927.31	2,182,511.90	605,230.00	36.997372	-107.472989

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
700.00	700.00	13 3/8"	13.37	17.50	
6,273.24	6,200.00	9 5/8"	9.62	12.25	
20,015.33	6,829.00	5 1/2"	5.50	8.50	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,102.81	2,084.00	OJO ALAMO (SS)		0.00	0.000
2,170.00	2,150.00	KIRTLAND (SHALE + coal)		0.00	0.000
2,608.74	2,581.00	FRUITLAND (shale + COAL)		0.00	0.000
2,984.38	2,950.00	PICTURED CLIFFS (ss)		0.00	0.000
3,510.67	3,467.00	LEWIS SHALE		0.00	0.000
4,969.42	4,900.00	CLIFFHOUSE		0.00	0.000
5,347.18	5,274.00	MENEFEE		0.00	0.000
5,528.24	5,455.00	POINT LOOKOUT		0.00	0.000
6,047.24	5,974.00	MANCOS		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 496384

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 496384
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.	9/9/2025
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	9/9/2025