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

State of New Mexico

Form C-101 Revised July 18, 2013

Energy Minerals and Natural Resources

Oil Conservation Division

☐AMENDED REPORT

Online Phone Directory Visit:

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

1220 South St. Francis Dr. Santa Fe. NM 87505

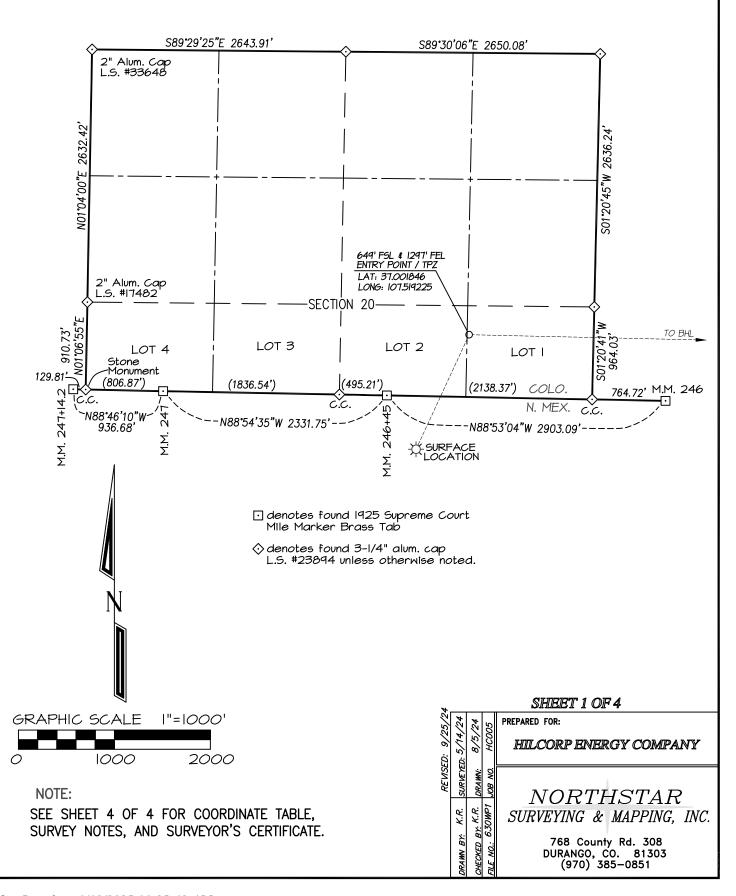
A DDI 10	~ATIO	N FOD	рерміт та		C ENTER	,		DI LICRACI	K, OR ADD A	ZONE		
AFFLI	CATIO	NFUK	1. Operator Name	and Address	-ENIER	X, DEI	eren, i	LUGBACI	2 OGRID Number 372171	ZUNE		
	Hilcorp Energy Company 382 Road 3100 Aztec, NM 87410							30-045-384				
^{4.} Prop 31886		·	5. Pro A	operty Name Ilison Unit			•	^{6.} Well 630				
01000				^{7.} Surfac	ce Location	1			•			
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/	/S Line	Feet From	E/W Line	County		
F	12	32N	07W	3	554'		N	1635'	W	Sam Juan		
		1	1	8. Proposed B	ottom Hol	e Locat	ion		T			
UL - Lot J	Section 22	Township 32N	Range 06W	Lot Idn 2	Feet from 613'	N/	S Line	Feet From 1737'	E/W Line E	County La Plata		
				% Pool Is	nformation							
				Pool Nan		.1				Pool Code		
				Basin Man						97232		
				Additional W		nation						
	rk Type Well		12. Well Type Gas	13.	Cable/Rotary		1	4. Lease Type Private	15. Ground	Ground Level Elevation 6350'		
^{16.} M	lultiple No		17. Proposed Depth 17,473' MD	1	18. Formation Mancos			9. Contractor	^{20.} Spud Date 2025			
Depth to Gro	und water		Dista	nce from nearest fresh	n water well	r well Distance to nearest surface water				ter		
]We will be	using a clo	osed-loop s	ystem in lieu of 1	lined pits Proposed Casing	and Ceme	ent Prog	gram					
Type	Hol	e Size	Casing Size	Casing Weigh	t/ft	Setting	g Depth	Sac	ks of Cement	Estimated TOC		
Suf	17	1/2"	13 3/8"	54.5#		3.	50'		352	0		
Int	12	1/4"	9 5/8"	43.5#		6,3	301'	618 sx (38	1 sx lead/237 sx tail)	0		
Prod	8	1/2"	5 1/2"	20.0#			473'	2,372 sx (22	2,372 sx (228 sx lead/2,144 sx tail)			
			Casing	g/Cement Progra	m: Additio	onal Co	omments					
			22. [Proposed Blowou	ıt Preventi	on Pro	gram					
	Туре			Working Pressure			Test Pres	sure	Manı	ıfacturer		
	Double Ra	m		4,200			5,000					
^{23.} I hereby co			on given above is tr	ue and complete to th	ne best		OIL	CONSERVA	TION DIVISIO)N		
	tify that I l	have compl		9 (A) NMAC 🛛 and		proved By	y:					
Printed name	: Amanda V	Valker			Titl	e:						
Title: Operati	ions Regula	tory Tech Si	:		Арр	proved D	ate:		Expiration Date:			
E-mail Addre	ess: mwalke	r@hilcorp.c	om									

Conditions of Approval Attached

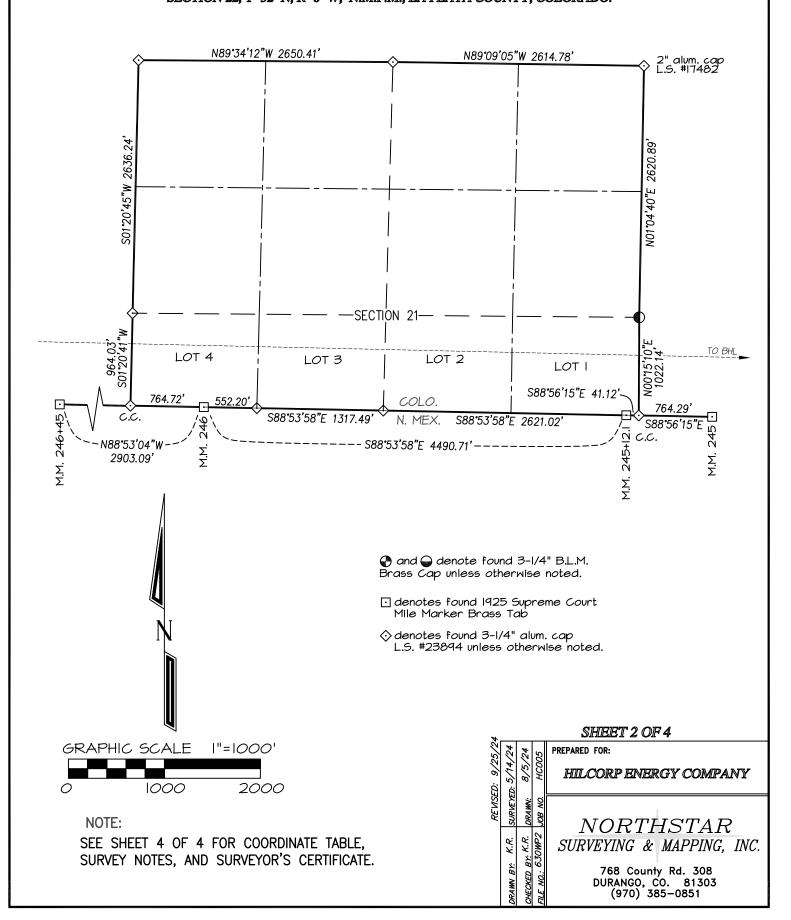
Phone: 346-237-2177

Date:12/16/2024

HILCORP ENERGY COMPANY: ALLISON UNIT #630H
SURFACE LOCATION: 554' FNL & 1635' FWL
SECTION 12, T-32-N, R-7-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO. ELEVATION: 6350'
BOTTOM HOLE LOCATION: 613' FSL, 1737' FEL
SECTION 22, T-32-N, R-6-W, N.M.P.M., LA PLATA COUNTY, COLORADO.

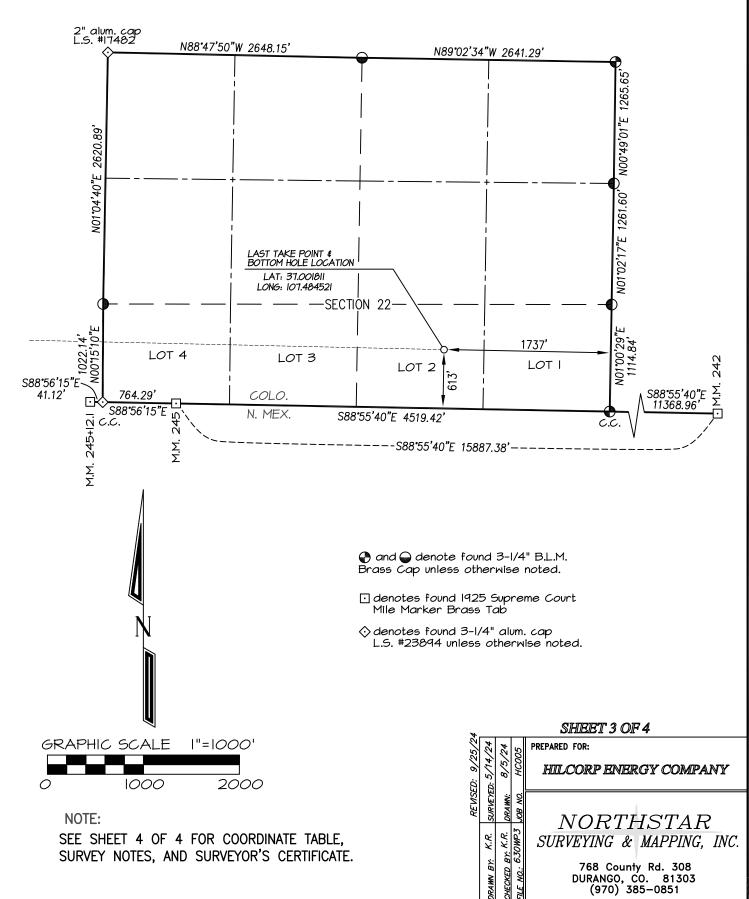


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ALLISON UNIT #630H	CSZ NAD '83	NAD '83	TIES	SEC/TWP/RNG
SURFACE HOLE LOCATION	N (Y) = 1,127,226.93'	LAT: 36.998536°N	554' FNL	SECTION 12 (N. MEX.)
	E (X) = 2,409,798.59'	LONG: 107.521029°W	1635' FWL	T-32-N, R-7-W
ENTRY POINT / TPZ	N (Y) = 1,128,420.36'	LAT: 37.001846°N	649' FSL	SECTION 20 (COLO.)
	E (X) = 2,410,351.45'	LONG: 107.519225°W	1297' FEL	T-32-N, R-6-W
LAST TAKE POINT &	N(Y) = 1,128,190.39'	LAT: 37.001811°N	613' FSL	SECTION 22 (COLO.)
BOTTOM HOLE LOCATION	E(X) = 2,420,483.77'	LONG: 107.484521°W	1737' FEL	T-32-N, R-6-W

NOTES:

- 1. WELL LOCATION FOOTAGE CALLS MEASURED PERPENDICULAR TO SECTION LINES.
- 2. WELL GPS OBSERVATION PERFORMED BY JASON EDWARDS ON 5/14/24 - PDOP VALUE = 1.8
- 3. BEARINGS & DISTANCE SHOWN ARE FIELD MEASURED UNLESS OTHERWISE NOTED.
- 4. ALL MEASURED DISTANCES SHOWN ARE GRID DISTANCE WITH NO SCALE FACTOR APPLIED.
- 5. BEARINGS ARE BASED ON THE NORTH AMERICAN DATUM OF 1983, COLORADO SOUTH STATE PLANE COORDINATE SYSTEM, ZONE 0503.
- 6. ELEVATION IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (GEOID18).



KENNETH E. REA, A REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO, DO HEREBY CERTIFY THAT THE WELL LOCATION SHOWN ON THIS PLAT IS ACCURATELY PLOTTED FROM FIELD NOTES OF ACTUAL SURVEYS MADE UNDER MY DIRECT SUPERVISION, AND THAT THIS PLAT IS NOT A LAND SURVEY PLAT OR IMPROVEMENT SURVEY PLAT, AND THAT IT IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OF FENCE, BUILDING, OR OTHER FUTURE IMPROVEMENT LINES.

SHEET 4 OF 4

PREPARED FOR: HILCORP ENERGY COMPANY NORTHSTARSURVEYING & MAPPING, INC.

CHECKED BY: BY:

NYAWN

768 County Rd. 308 DURANGO, CO. 81303 (970) 385-0851 C-102 Submit Electronically Via OCD Permitting

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

	Revised July 9, 2024
0	☑ Initial Submittal
Submittal Type	☐ Amended Report
. , po	☐ As Drilled

					WELL	LOCATION	N INFORI	MATION				
API Nu		15-384	10	P001	Code 972	32		Pool Name		BASIN MANC	0S	
Property Code Property Name ALLISON						N UNIT	-		Well Number	630H		
OGRID	No.	372171		Oper	ator Name H	ILCORP ENE	RGY COMF	PANY		Ground Level Elevation		350 '
Surfac	e Owner:	☐ State	⊠ Fee [] Tribal	☐ Federal		Mineral O	wner: □ State 🏻 Fee		Tribal □ Federal		
						Surface l	Location					
UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W	Line	Latitude		Longitude		County
F	12	32N	7W	3	554' NORTH	1635 '	WEST	36.998536	°N	-107.52102	29 °W	SAN JUAN (NM)
					l	Bottom Hole	e Locatio	on				
UL J	Section 22	Township 32N	Range 6W	Lot 2	Feet from N/S Line 613' SOUTH	Feet from E/W 1737'	Line EAST	27.001811	°N	Longitude -107.48452	21°W	County LA PLATA (CO)
			Per	netrated S	pacing Unit:					•		
Dedicat	ted Acres	Entir	o Coct	ion 20	& 21. T32N. R6W	Infill or De	efining Well	Defining Well API	Over	lapping Spacing Unit	Consoli	dation Code
114	3.60	S/2	2 (aka	LOTS	1-4), S/2 NW/4, 1-4), S/2 NW/4, 10n 22, T32N, R6W	Infill		30-045-38326		Yes 🛛 No	Unit	
Order	Numbers						Well setpa	acks are under Common Own	nershi	p: 🗌 Yes 🛭	⊠ No	
						Kick Off P	Point (KO	nP)				
UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W	Line	Latitude		Longitude		County
F	12	32N	7W	3	554' NORTH	1635 '	WEST	36.998536	°N	-107.52102	29 °W	SAN JUAN (NM)
					F	irst Take	Point (F	TP)				
UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W		Latitude		Longitude		County
I	20	32N	6W	1	649' SOUTH	1297 '	EAST	37.001846	°N	-107.51922	25 °W	LA PLATA (CO)
						.ast Take I	Point (L	TP)				
UL .	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W		Latitude		Longitude		County
J	22	32N	6W	2	613' SOUTH	1737	EAST	37.001811	*N	-107.4845	21 W	LA PLATA (CO)
					1							
Unitize		Area of Un ISON UN		rest	Spacing Unit Type	izontal [] Vertica]	l □ Directiona	1	Ground Floor Elevat	ion	
		Oi	PERATO	OR CEI	RTIFICATION			SURVE"	YOR	CERTIFICAT	ION	
of my	knowledge	and belie	f, and, if	the well	ned herein is true and compl is a vertical or directional or unleased mineral interest	well, that this	fie	ereby certify that the ld notes of actual surv same is true and corre	eys m	ade by me or under m	y superv	was plotted from ision, and that

including the proposed bottom hole location or has a right to drill this well at this 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 may part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Allacter	12/16/2024
Signature	Date
Amanda Walker	
Printed Name	
mwalker@hilcorp.com	
E-mail Address	



JASON LDWARDS

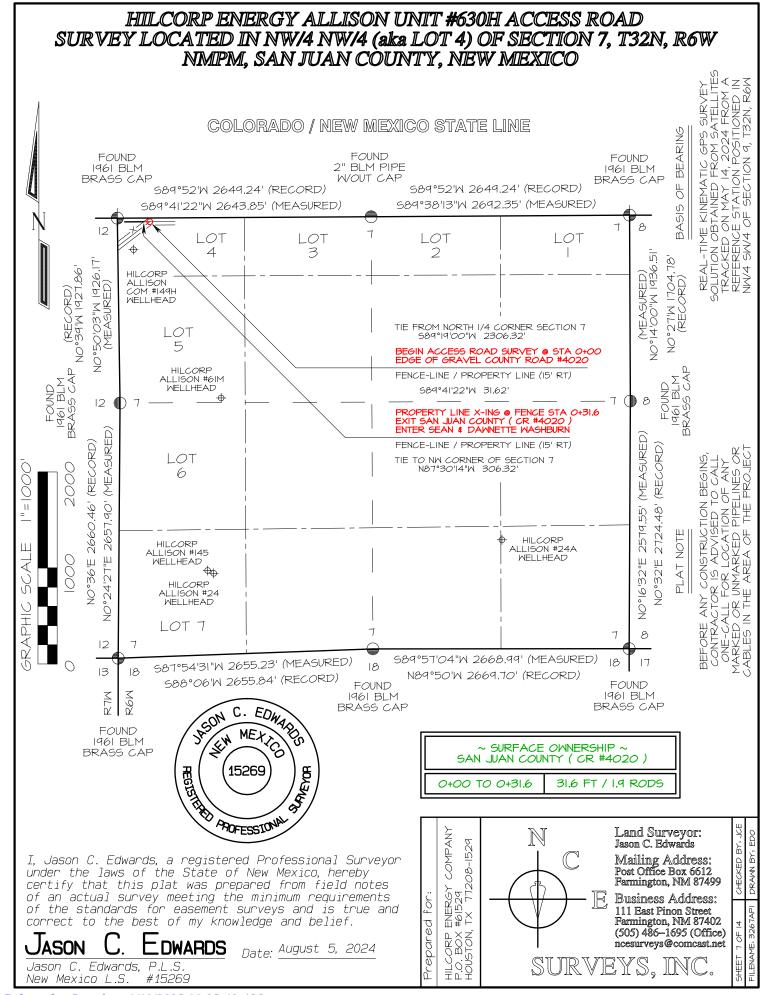
Signature and Seal of Professional Surveyor

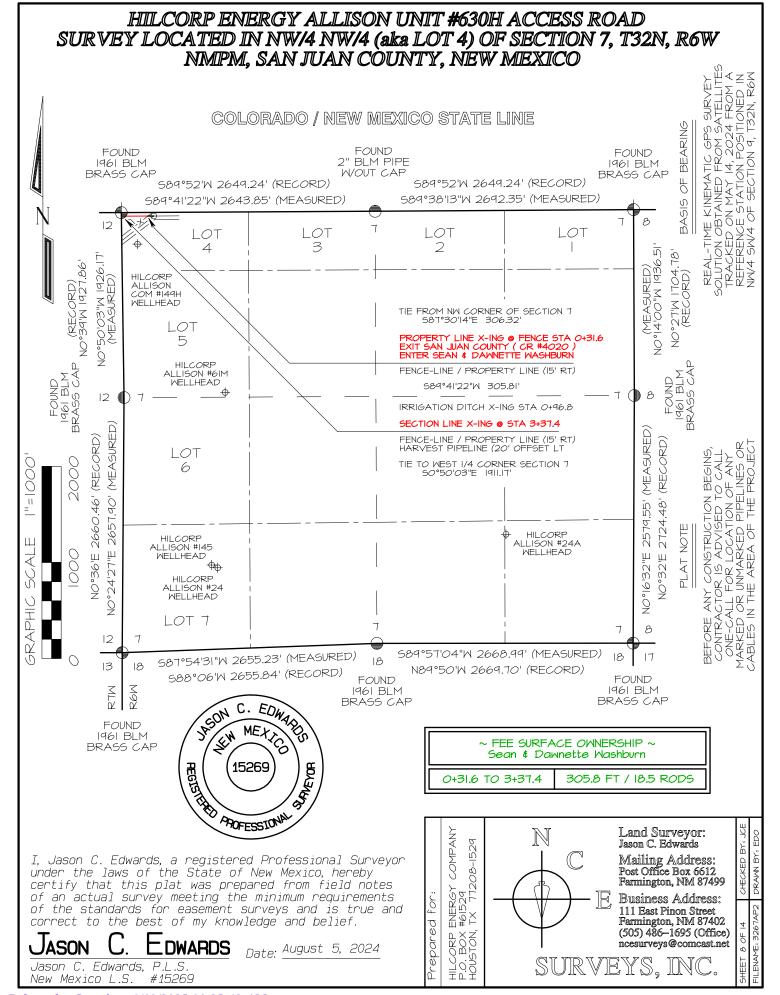
Certificate Number

15269

Date of Survey

MAY 14, 2024

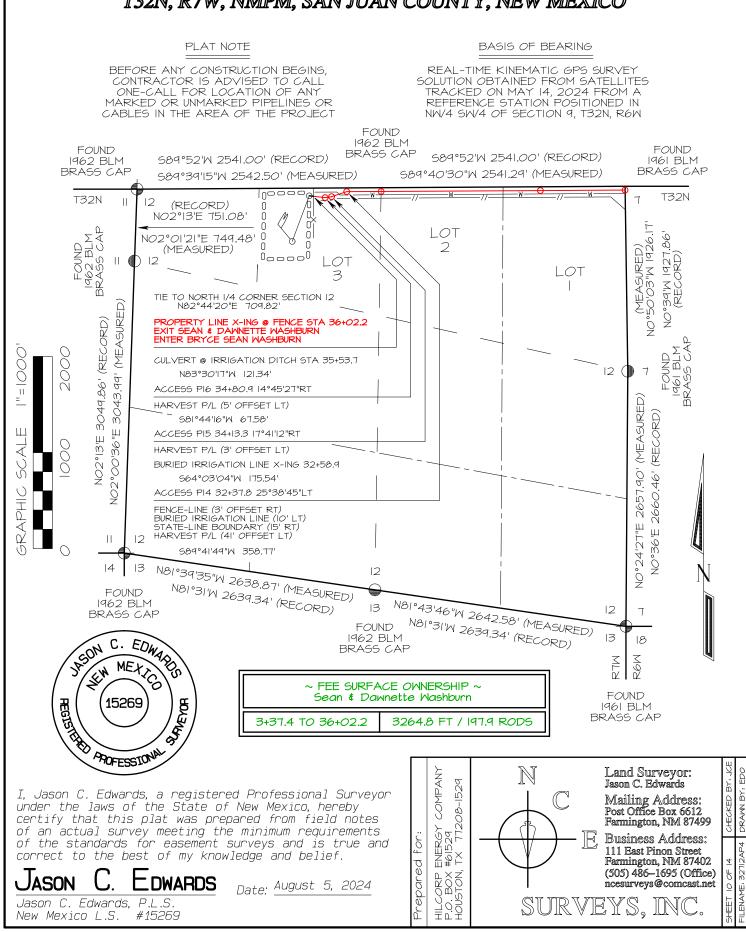




HILCORP ENERGY ALLISON UNIT #630H ACCESS ROAD SURVEY LOCATED IN N/2 NE/4 & NE/4 NW/4 (aka LOTS 1 - 3) OF SECTION 12 T32N, R7W, NMPM, SAN JUAN COUNTY, NEW MEXICO

PLAT NOTE BASIS OF BEARING BEFORE ANY CONSTRUCTION BEGINS, REAL-TIME KINEMATIC GPS SURVEY CONTRACTOR IS ADVISED TO CALL SOLUTION OBTAINED FROM SATELLITES ONE-CALL FOR LOCATION OF ANY TRACKED ON MAY 14, 2024 FROM A MARKED OR UNMARKED PIPELINES OR REFERENCE STATION POSITIONED IN CABLES IN THE AREA OF THE PROJECT NW/4 SW/4 OF SECTION 9, T32N, R6W FOUND 1962 BLM FOUND FOUND BRASS CAP 589°52'W 2541.00' (RECORD) 589°52'W 2541.00' (RECORD) 1961 BLM 1962 BLM BRASS CAP BRASS CAP 589°40'30"W 2541.29' (MEASURED) 589°39'15"W 2542.50' (MEASURED) T32N T32N 11 (RECORD) NO2°13'E 751.08' FOUND 1962 BLM BRASS CAP (MEASURED) NO°50'03"W 1926.17' Ō NO°39'W 1927.86' (RECORD) NO2°01'21"E 749.48' (MEASURED) 00000 LOT Π LOT S89°41'49"W 358.77' (MEASURED, ACCESS PI3 28+79.0 00°00'48"RT NO2°13'E 3049.86' (RECORD) FENCE LINE (I' OFFSET RT) BURIED IRRIGATION LINE (9' LT) 1961 BLM BRASS CAF STATE LINE BOUNDARY (15' RT) HARVEST P/L (42' OFFSET LT) 000 FOUND 589°41'01"W 1658.83' 12 (3043.99 ACCESS PI2 I2+20.2 00°01'37"RT П FENCE LINE (4' OFFSET LT) STATE LINE BOUNDARY (15' RT) BURIED IRRIGATION LINE (15' LT) (RECORD) HARVEST P/L (33' OFFSET LT) NO2°00'36"E Ш FENCE-LINE X-ING @ GATE STA 6+97.7 SCAL 589°39'24"W 882.47' ACCESS PII 3+37.7 00°01'58"LT 2657.90 2660.46 FENCE-LINE / PROPERTY LINE (15' RT) HARVEST P/L (15' OFFSET LT) RAPHIC 589°41'22"W 0.27' SECTION LINE X-ING @ STA 3+37.4 NO°24'27"E NO°36'E 11 12 TIE FROM EAST 1/4 CORNER SECTION 12 NO°50'03"W 1911.17' N81°39'35"W 2638.87' (MEASURED) 14 13 12 N81°31'W 2639.34' (RECORD) FOUND N81°43'46"W 2642.58' (MEASURED) 1962 BLM BRASS CAP 13 12 7 N81°31'W 2639.34' (RECORD) FOUND EDWARDS JASON 1962 BLM 13 18 BRASS CAP MEXICO <u>SEW</u> ~ FEE SURFACE OWNERSHIP ~ AGESTUM PROFESSIONA Sean & Dawnette Washburn FOUND 1961 BLM BRASS CAP 3264.8 FT / 197.9 RODS 3+37.4 TO 36+02.2 BY: JCE M Land Surveyor: DRAWN BY: EDO COMPANY Jason C. Edwards I, Jason C. Edwards, a registered Professional Surveyor Mailing Address: CHCKED 1529 × 77208under the laws of the State of New Mexico, hereby Post Office Box 6612 Farmington, NM 87499 certify that this plat was prepared from field notes ENERGY #61529 TX 7720 of an actual survey meeting the minimum requirements Business Address: for of the standards for easement surveys and is true and FILENAME: 32712AP3 111 East Pinon Street correct to the best of my knowledge and belief. Farmington, NM 87402 Prepared CORP D. BOX NSTON, (505) 486-1695 (Office) р Д **_DWARDS** JASON Date: August 5, 2024 ncesúrveys@comcast.net Jason C. Edwards, ₹.0.5 5.0.5 5.0.5 7.0.5 SURVEYS, INC New Mexico L.S. #15269

HILCORP ENERGY ALLISON UNIT #630H ACCESS ROAD SURVEY LOCATED IN N/2 NE/4 & NE/4 NW/4 (aka LOTS 1 - 3) OF SECTION 12 T32N, R7W, NMPM, SAN JUAN COUNTY, NEW MEXICO



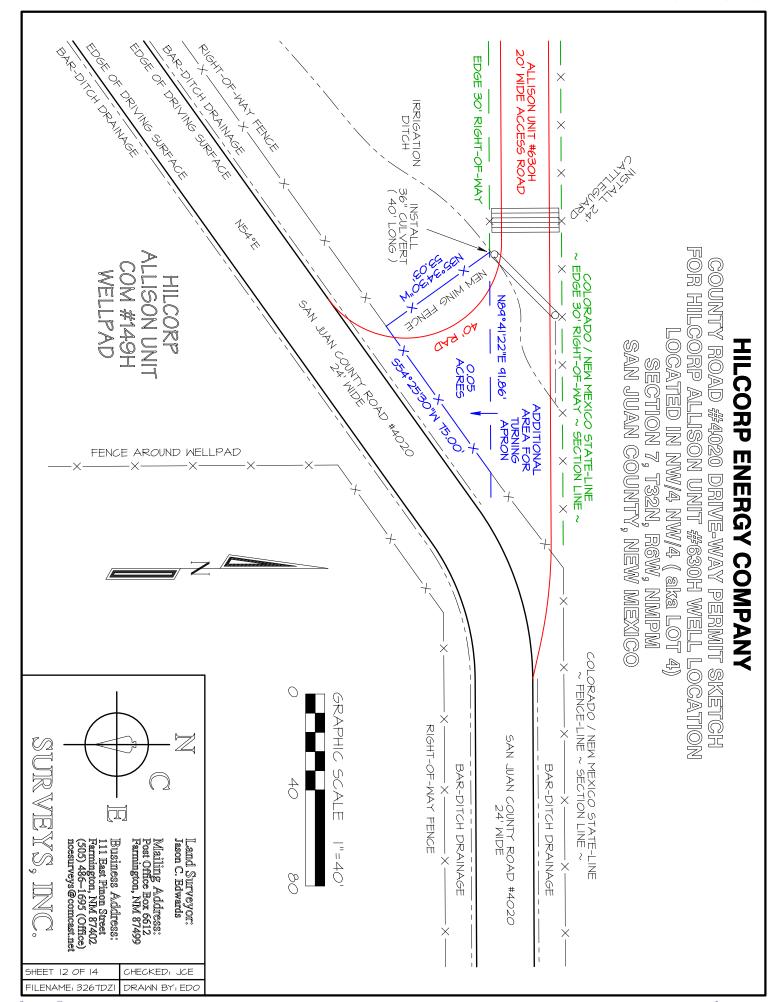
HILCORP ENERGY ALLISON UNIT #630H ACCESS ROAD SURVEY LOCATED IN NE/4 NW/4 (aka LOT 3) OF SECTION 12, T32N, R7W NMPM, SAN JUAN COUNTY, NEW MEXICO

PLAT NOTE BASIS OF BEARING BEFORE ANY CONSTRUCTION BEGINS, REAL-TIME KINEMATIC GPS SURVEY CONTRACTOR IS ADVISED TO CALL SOLUTION OBTAINED FROM SATELLITES ONE-CALL FOR LOCATION OF ANY TRACKED ON MAY 14, 2024 FROM A MARKED OR UNMARKED PIPELINES OR REFERENCE STATION POSITIONED IN CABLES IN THE AREA OF THE PROJECT NW/4 SW/4 OF SECTION 9, T32N, R6W FOUND 1962 BLM FOUND FOUND BRASS CAP 589°52'W 2541.00' (RECORD) 589°52'W 2541.00' (RECORD) 1961 BLM 1962 BLM BRASS CAP BRASS CAP 589°40'30"W 2541.29' (MEASURED) 589°39'15"W 2542.50' (MEASURED) T32N T32N 11 (RECORD) NO2°13'E 751.08' FOUND 1962 BLM BRASS CAP (MEASURED) NO°50'03"W 1926.17' ŌΙ NO°39'W 1927.86' (RECORD) NO2°01'21"E 749.48' N (MEASURED) LOT 0 0 Π LOT I O I3 (MEASURED) NO2°13'E 3049.86' (RECORD) 000 FOUND 12 (3043.99 TIE FROM NORTH I/4 CORNER SECTION I2 582°44'20"W 709.82' П (MEASURED PROPERTY LINE X-ING @ FENCE STA 36+02.2 EXIT SEAN & DAWNETTE WASHBURN ENTER BRYCE SEAN WASHBURN (RECORD) NO2°00'36"E Ш SCAL N83°30'17"W 45.28' END ACCESS ROAD SURVEY @ STA 36+47.5 POINT ON EDGE OF PROPOSED WELLPAD 2657.90 2660.46 RAPHIC TIE TO NW CORNER OF SECTION 12 N87°47'18"W 1794.70' 520°26'55"W 506.93' NO°24'27"E HILCORP ALLISON UNIT #630H WELLFLAG 554' FNL, 1635' FWL, SECTION 12, T32N, R7W NO°36'E 11 12 N81°39'35"W 2638.87' (MEASURED) 13 14 12 N81°31'W 2639.34' (RECORD) FOUND N81°43'46"W 2642.58' (MEASURED) 1962 BLM BRASS CAP 13 12 7 N81°31'W 2639.34' (RECORD) FOUND EDWARDS JASON 1962 BLM 13 18 BRASS CAP MEXICO <u>SEW</u> ~ FEE SURFACE OWNERSHIP ~ AGESTUM PROFESSIONA Bryce Sean Washburn FOUND 1961 BLM BRASS CAP 36+02.2 TO 36+47.5 45.3 FT / 2.7 RODS Land Surveyor: Jason C. Edwards BY: JCE M DRAWN BY: EDO COMPANY I, Jason C. Edwards, a registered Professional Surveyor Mailing Address: Post Office Box 6612 Farmington, NM 87499 CHCKED 1529 × 77208under the laws of the State of New Mexico, hereby certify that this plat was prepared from field notes ENERGY #61529 TX 7720 of an actual survey meeting the minimum requirements **Business Address:** for of the standards for easement surveys and is true and 111 East Pinon Street correct to the best of my knowledge and belief. Farmington, NM 87402 Prepared HILCORP I P.O. BOX : HOUSTON, (505) 486-1695 (Office) = P _DWARDS JASON Date: August 5, 2024 ncesúrveys@comcast.net Jason C. Edwards, SURVEYS, INC New Mexico L.S. #15269

B04

ALLISON UNIT #612H

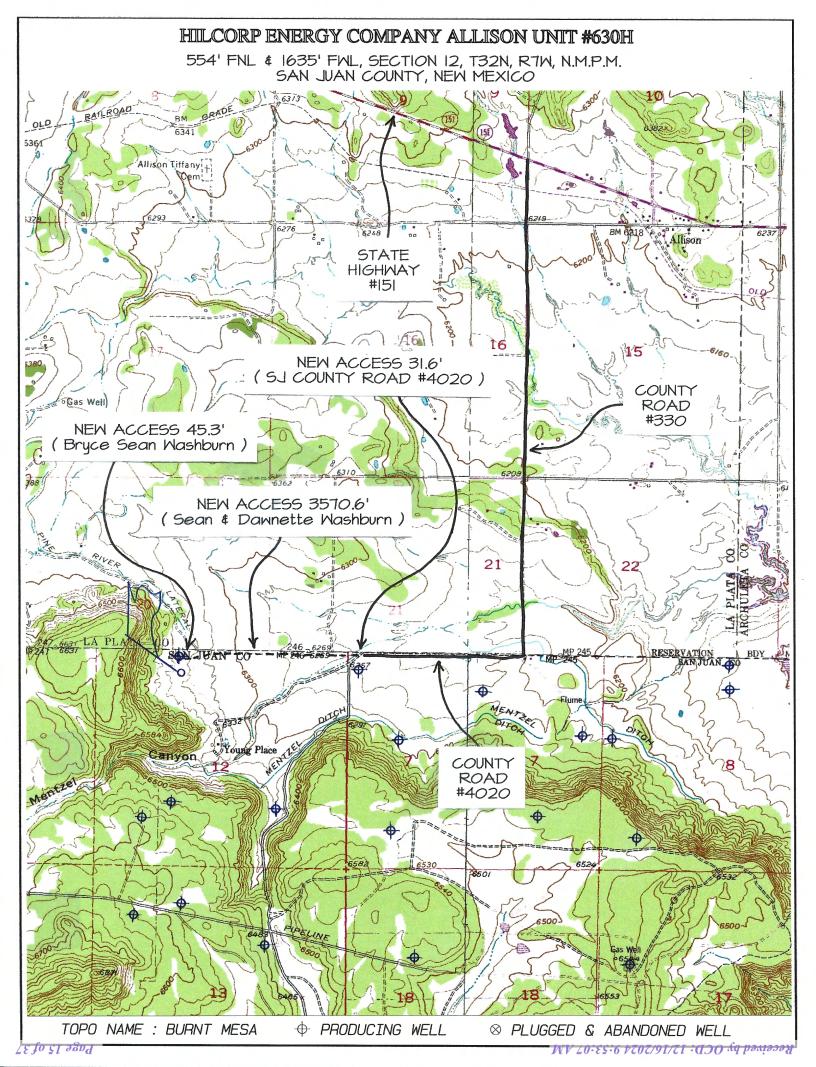
ALLISON 605 FEDERAL COM #613H



<u>m</u> *>->*/ 6340 6340 6340 6350 6360 6360 6350 6360 6350 HORIZONTAL SCALE 1"=60" Q SAN JUAN COUNTY, NEW MIEXICO 554' FNL & 1635' FWL, SECTION 12, T32N, R7W, NMPMI HIILCORP ENERGY COMPANY ALLISON UNIT #630HI \mathbb{C} \mathbb{C} \mathbb{C} ELEVATION: 6350' VERTICAL SCALE 1"=30

CONTRACTOR SHOULD CONTACT ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED UNDERGROUND UTILITIES OR PIPELINES ON WELLPAD AND/OR ACCESS ROAD AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.

EDWARDS SURVEYING, INC. IS NOT LIABLE FOR LOCATION OF UNDERGROUND UTILITIES OR PIPELINES



<u>Directions from Intersection of State Hwy 172 & State Hwy 151 in Ignacio, CO</u>

to Hilcorp Energy Company Allison Unit #630H

554' FNL & 1635' FWL, Section 12, T32N, R7W, N.M.P.M., San Juan County, NM

Latitude 36.998536°N Longitude -107.521029°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 #630H staked location which overlaps an existing wellpad.

La Plata County, CO

Allison Unit 630H



Technical Drilling Plan (Rev. 0)

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:	November 7, 2024	Pool:	Basin Mancos
Well Name:	Allison Unit 630H	Ground Elevation (ft. MSL):	6,350'
Surface Hole Location:	36.9985310° N, -107.5204220° W	Total Measured Depth (ft.)	17,473'
Bottom Hole Location:	37.0018057° N, -107.4839155° W	County, State:	La Plata County, CO

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

Allison Unit 630H



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 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.

Allison Unit 630H



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'	350′/350′	1,130 psi	2,730 psi	514 klbs				
Intermediate	12-1/4"	9-5/8"-43.5#-L80 (or equiv)-LTC/BTC	0'	6,301′/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'	17,473′/6,814′	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	16.7	8.8	51.8	55.2					
Intermediate	1.7	1.2	4.4	3.6					
Production	3.0	3.1	2.2	1.9					

B. Casing Design Parameters & Calculations:

- Designed for full wellbore evacuation.
- Mud Weights used for calculations:
 - o Surface = 9.0 ppg
 - o Intermediate = 11.5 ppg
 - o Production = 12.0 ppg
- Minimum Acceptable Safety Factors:

o Burst: 1.15o Collapse: 1.15o Tensile: 1.50

Casing Safety Factor Calculations:

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

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

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

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.

La Plata County, CO

Allison Unit 630H



5. Proposed Centralizer Program:

Proposed Centralizer Program						
Casing String Centralizers & Placement						
Surface Casing	1 centralizer per joint on bottom 3 joints.					
Intermediate Casina	1 centralizer per joint in shoe track.					
Intermediate Casing	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	Lead/Tail	Volume	Sacks	Excess	Slurry	Density	Planned			
	(ft. MD)		(ft³)		(%)		(ppg)	TOC			
		Lead	486 ft ³	352	100%	Class G Cement	14.6	Surface			
Surface	350′	LCau	40011	332	10070	Yield: 1.38 ft ³ /sk	14.0	Juliace			
		Slurry Additives	s: CaCl (1%), Ce	llo Flake (0.	25 lb/sk), CD-	2 (0.2%)					
		Lead	1,947 ft ³	381	25%	ASTM Type IL	9.5	Surface			
		Leau	1,94711	301	25%	Yield: 5.12 ft ³ /sk	9.0	Surface			
	6,301′		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%)								
Intermediate		Tail	509 ft ³	237	25%	ASTM Type IL	40.5				
						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%)									
			250 tr ₃	220	250/	ASTM Type IL	10.0	F 000/			
		Lead	358 ft ³	228	25%	Yield: 1.57 ft ³ /sk	12.0	5,000′			
						86 (0.2%), IntegraSeal PHENO (2.0 lb/sk),	IntegraSeal Po	li (0.25 lb/sk),			
Production	17,473′	KCI (3.0%), R-3	(U.55%), STATIC	FREE (U.U	i ib/sk), xcem	· ' '					
		Tail	3,174 ft ³	2,144	25%	Class G	14.0	6,400′			
			•	,		Yield: 1.48 ft ³ /sk		,			
			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)								
		(3.20 .27 0.	.,, (0.2070)1		(5.5						

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 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).

Allison Unit 630H



7. Drilling Fluids Program

A. Proposed Drilling Fluids Program:

	Proposed Drilling Fluids Program									
Interval	Fluid Type	Density	Fluid Loss	Invert Ratio	Depth					
		(ppg)	(mL/30 min)	(%Diesel / %Brine)	(ft. MD)					
Surface	Water/Gel	8.3 – 9.2	NC	N/A	0' – 350'					
Intermediate	LSND / Gel	8.4 – 10.0	<6	N/A	350′ – 6,301′					
Production	Oil Base Mud	10.0 – 12.0	6 – 8	70/30 – 75/25	6,301′ – 17,473′					

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: 1,756 bbls (9,857 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.

Allison Unit 630H



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.

La Plata County, CO

Allison Unit 630H



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

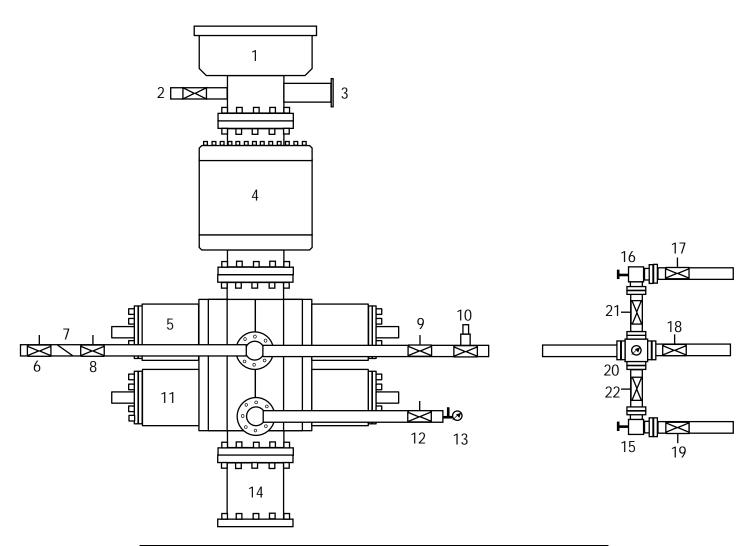
- The well will be stimulated with sand and water. The number of stages and amount of proppant used will be adjusted based on actual lateral length and real-time pumping conditions during the stimulation.
- Individual stages will be perforated on wireline and isolated using frac plugs or dissolvable 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.



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	Hydraulicly 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

I. Operator: Hilcorp Energy Company

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

OGRID: 372171 **Date:** 12/9/2024

II. Type: ⊠ Original	☐ Amendmen	nt due to □ 19.15.27.9.D	0(6)(a) NMAC □ 19.15.27	9.D(6)(b) NM	AC □ Other.	
If Other, please describ	e:					
	_	nformation for each new d or connected to a centr	or recompleted well or set cal delivery point.	of wells propo	osed to be drille	ed or proposed to
Well Name	API	ULSTR	Footages	Anticipated	Anticipated	Anticipated
			C	Oil BBL/D	Gas	Produced
					MCF/D	Water BBL/D
Allison Unit 612H		F, Sec 12, T32N, R07W	604' FNL & 1635' FWL	0	16,000	300
Allison Unit 630H		F, Sec 12, T32N, R07W	554' FNL & 1635' FWL	0	16,000	300
Allison Unit 631H		F, Sec 12, T32N, R07W	529' FNL & 1635' FWL	0	16,000	300
Allison Unit 632H		F, Sec 12, T32N, R07W	479' FNL & 1485' FWL	0	16,000	300
Allison Unit 633H		F, Sec 12, T32N, R07W	454' FNL & 1485' FWL	0	16,000	300
Allison Unit 614H		F, Sec 12, T32N, R07W	504' FNL & 1485' FWL	0	16,000	300
Allison 605 Federal Com 613H		F, Sec 12, T32N, R07W	529' FNL & 1485' FWL	0	16,000	300
IV. Central Delivery l	Point Name:	Milagro/Ignacio Gas Pl	ant	[See	19.15.27.9(D)((1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached	Completion	Initial	First Production
			Date	Commencement Date	Flow	Date
					Back Date	
Allison Unit 612H		<u>2025</u>				
Allison Unit 630H		<u>2025</u>				
Allison Unit 631H		<u>2025</u>				
Allison Unit 632H		<u>2025</u>				
Allison Unit 633H		<u>2025</u>				
Allison Unit 614H		<u>2025</u>				
Allison 605 Federal Com 613H		<u>2025</u>				

VI. Separation Equipment: ⊠ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VIII. Best Management Practices:

Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

			Enhanced Plan E APRIL 1, 2022		
	2022, an operator that complete this section.	t is not in compliance	with its statewide natural ga	as capti	ure requirement for the applicable
	s that it is not required for the applicable repo		tion because Operator is in c	complia	ance with its statewide natural gas
IX. Anticipated Na	tural Gas Production	1:			
W	ell	API	Anticipated Average Natural Gas Rate MCF/D)	Anticipated Volume of Natural Gas for the First Year MCF
X. Natural Gas Ga	thering System (NGC	GS):			
Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Avai	ilable Maximum Daily Capacity of System Segment Tie-in
production operation the segment or porticular the segment or porticular the segment or porticular the segment or porticular the segment of t	ns to the existing or pla on of the natural gas gather. The natural gas gather from the well prior to the Operator does gasystem(s) described a s plan to manage producty: Department of the Operator asserted in Paragraph (2) of S	anned interconnect of that the ring system will will will be the date of first product does not anticipate that above will continue to uction in response to that the confidentiality pursuant and the	the natural gas gathering systewhich the well(s) will be considered which the well(s) will be considered will not have capacity to gation. at its existing well(s) connects meet anticipated increases in the increased line pressure. Suant to Section 71-2-8 NMS 27.9 NMAC, and attaches a few which we will be considered with the considered with the capacity of the considered with the capacity of th	em(s), a nected. gather 1 ted to the n line property	ed pipeline route(s) connecting the and the maximum daily capacity of 00% of the anticipated natural gas he same segment, or portion, of the ressure caused by the new well(s).

(i)

Section 3 - Certifications Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal: 🖂 Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system: or ☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following: Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or Venting and Flaring Plan.

Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including: (a) power generation on lease; **(b)** power generation for grid; (c) compression on lease; (d) liquids removal on lease; reinjection for underground storage; (e) **(f)** reinjection for temporary storage; **(g)** reinjection for enhanced oil recovery; fuel cell production; and (h)

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

other alternative beneficial uses approved by the division.

- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: Wutter
Printed Name: Amanda Walker
Title: Operations Regulatory Tech Sr.
E-mail Address: mwalker@hilcorp.com
Date: 12/9/2024
Phone: 346-237-2177
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Allison Unit 630H Plan #1 GL 6350' & RKB 25.1' @ 6375.10ft (Nabors B29)

Easting

591376.76

Northing

2182885.03

PROJECT DETAILS: San Juan, NM NAD27

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)

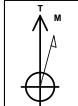
Ellipsoid: Clarke 1866

Zone: New Mexico West 3003 System Datum: Mean Sea Level



Plan: Plan #1 (Allison Unit 630H/OH)

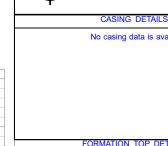
Created By: Janie Collins

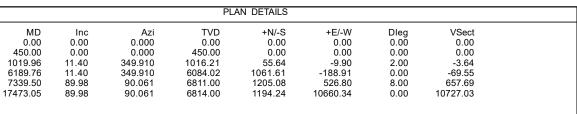


Magnetic North: 8.58° Magnetic Field Strength: 49353.9nT Dip Angle: 63.33° Date: 5/30/2024

Model: HDGM2024

No casing data is available





Longitude

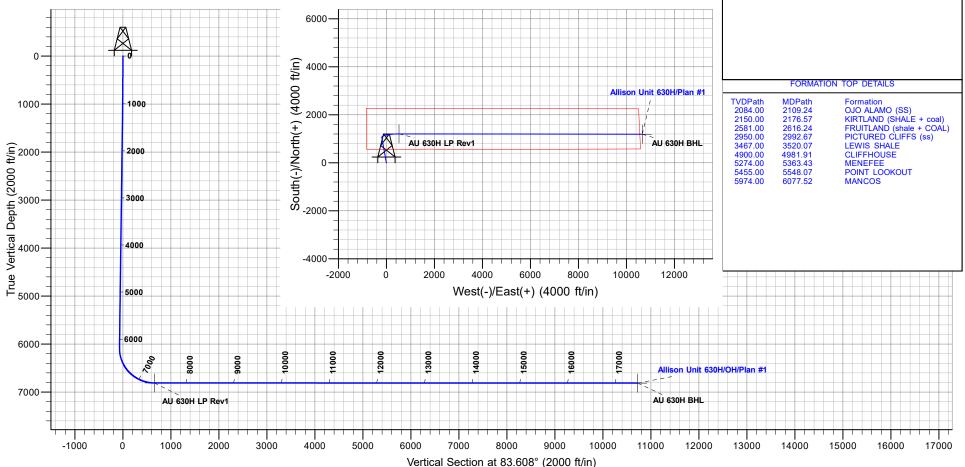
-107.5204220

Latitude

36.9985310

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
AU 630H LP Rev1	6811.00	1205.08	526.80	2184091.83	591899.60	37.0018411	-107.5186180
AU 630H BHL	6814.00	1194.24	10660.34	2184114.30	602033.10	37.0018057	-107.4839155





HilCorp

San Juan, NM NAD27 Allison 611 Pad Allison Unit 630H

OH

Plan: Plan #1

Standard Planning Report

27 June, 2024





Lonestar Consulting, LLC

Planning Report



Database: Company: **EDMDB**

HilCorp

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

Well Allison Unit 630H

GL 6350' & RKB 25.1' @ 6375.10ft (Nabors

GL 6350' & RKB 25.1' @ 6375.10ft (Nabors

B29)

Project:

Allison 611 Pad

Site: Well:

Allison Unit 630H

San Juan, NM NAD27

Wellbore: ОН Design: Plan #1

North Reference: **Survey Calculation Method:**

Minimum Curvature

Project

San Juan, NM NAD27

Map System: Geo Datum:

US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS)

System Datum:

Mean Sea Level

Map Zone:

New Mexico West 3003

Allison 611 Pad Site

Site Position: From:

Well

Lat/Long

Northing: Easting:

2,182,860.26 usft

Latitude:

36.9984630

Position Uncertainty:

0.00 ft

Slot Radius:

591,375.68 usft 13-3/16 "

Longitude:

-107.5204260

0.00 ft

0.00 ft

0.00 ft

Northing:

2,182,885.02 usft

Latitude:

36.9985310

Position Uncertainty

+E/-W

Allison Unit 630H

+N/-S

Easting: Wellhead Elevation: 591,376.77 usft

8.58

Longitude: Ground Level: -107.5204220 6,350.00 ft

Grid Convergence:

Well Position

0.19°

ОН Wellbore

Model Name Sample Date Magnetics

HDGM2024

Declination (°)

Dip Angle (°)

63.33

Field Strength

(nT)

49,353.90000000

Audit Notes:

Design

Version:

Phase:

5/30/2024

PLAN

Tie On Depth:

0.00

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 83.608 0.00 0.00 0.00

Plan Survey Tool Program

6/25/2024 Date

Depth From Depth To

Plan #1

(ft) Survey (Wellbore)

Tool Name

Remarks

(ft) 0.00

17,473.05 Plan #1 (OH)

MWD+HDGM

OWSG MWD + HDGM

Plan Sections Vertical Measured Dogleg Build Turn Depth Inclination Azimuth Depth +N/-S +E/-W Rate Rate Rate **TFO** (ft) (°/100usft) (°/100usft) (°/100usft) (ft) (ft) (ft) (°) (°) Target 0.00 0.000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 450.00 0.00 0.000 450.00 0.00 0.00 0.00 0.00 0.00 0.00 1,019.96 11.40 349.910 1,016.21 55.64 -9.90 2.00 2.00 0.00 349.91 6,189.76 11.40 349.910 6,084.02 1,061.61 -188.91 0.00 0.00 0.00 0.00 89.98 90.061 8.00 6.83 8.71 99.96 AU 630H LP Rev1 7,339.50 6,811.00 1.205.08 526.80 90.061 6,814.00 10,660.34 0.00 0.00 0.00 0.00 AU 630H BHL 17,473.05 89.98 1,194.24

Hilcorp

Lonestar Consulting, LLC

Planning Report



Database: Company:

Project:

EDMDB

Plan #1

HilCorp

San Juan, NM NAD27

Allison 611 Pad

Site: Well:

Wellbore:

Design:

Allison Unit 630H ОН

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well Allison Unit 630H

GL 6350' & RKB 25.1' @ 6375.10ft (Nabors

B29)

GL 6350' & RKB 25.1' @ 6375.10ft (Nabors

B29) True

anned 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
450.00	0.00	0.000	450.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	1.00	349.910	500.00	0.43	-0.08	-0.03	2.00	2.00	0.00
600.00	3.00	349.910	599.93	3.87	-0.69	-0.25	2.00	2.00	0.00
700.00	5.00	349.910	699.68	10.73	-1.91	-0.70	2.00	2.00	0.00
800.00	7.00	349.910	799.13	21.02	-3.74	-1.38	2.00	2.00	0.00
900.00	9.00	349.910	898.15	34.72	-6.18	-2.27	2.00	2.00	0.00
1,000.00	11.00	349.910	996.63	51.82	-9.22	-3.39	2.00	2.00	0.00
1,019.96	11.40	349.910	1,016.21	55.64	-9.90	-3.64	2.00	2.00	0.00
1,100.00	11.40	349.910	1,094.67	71.21	-12.67	-4.67	0.00	0.00	0.00
1,200.00	11.40	349.910	1,192.70	90.67	-16.13	-5.94	0.00	0.00	0.00
1,300.00	11.40	349.910	1,290.72	110.13	-19.60	-7.21	0.00	0.00	0.00
1,400.00	11.40	349.910	1,388.75	129.59	-23.06	-8.49	0.00	0.00	0.00
1,500.00	11.40	349.910	1,486.78	149.05	-26.52	-9.76	0.00	0.00	0.00
1,600.00	11.40	349.910	1,584.81	168.50	-29.98	-11.04	0.00	0.00	0.00
1,700.00	11.40	349.910	1,682.83	187.96	-33.45	-12.31	0.00	0.00	0.00
1,800.00	11.40	349.910	1,780.86	207.42	-36.91	-13.59	0.00	0.00	0.00
1,900.00	11.40	349.910	1,878.89	226.88	-40.37	-14.86	0.00	0.00	0.00
2,000.00	11.40	349.910	1,976.92	246.34	-43.84	-16.14	0.00	0.00	0.00
2,100.00	11.40	349.910	2,074.94	265.80	-47.30	-17.41	0.00	0.00	0.00
2,200.00	11.40	349.910	2,172.97	285.26	-50.76	-18.69	0.00	0.00	0.00
2,300.00	11.40	349.910	2,271.00	304.72	-54.22	-19.96	0.00	0.00	0.00
2,400.00	11.40	349.910	2,369.02	324.17	-57.69	-21.24	0.00	0.00	0.00
2,500.00	11.40	349.910	2,467.05	343.63	-61.15	-22.51	0.00	0.00	0.00
2,600.00	11.40	349.910	2,565.08	363.09	-64.61	-23.79	0.00	0.00	0.00
2,700.00	11.40	349.910	2,663.11	382.55	-68.07	-25.06	0.00	0.00	0.00
2,800.00	11.40	349.910	2,761.13	402.01	-71.54	-26.34	0.00	0.00	0.00
2,900.00	11.40	349.910	2,859.16	421.47	-75.00	-27.61	0.00	0.00	0.00
3,000.00	11.40	349.910	2,957.19	440.93	-78.46	-28.89	0.00	0.00	0.00
3,100.00	11.40	349.910	3,055.22	460.39	-81.92	-30.16	0.00	0.00	0.00
3,200.00	11.40	349.910	3,153.24	479.84	-85.39	-31.43	0.00	0.00	0.00
3.300.00	11.40	349.910	3,251.27	499.30	-88.85	-32.71	0.00	0.00	0.00
3,400.00	11.40	349.910	3,349.30	518.76	-92.31	-33.98	0.00	0.00	0.00
3,500.00	11.40	349.910	3,447.33	538.22	-95.77	-35.26	0.00	0.00	0.00
3,600.00	11.40	349.910	3,545.35	557.68	-99.24	-36.53	0.00	0.00	0.00
3,700.00	11.40	349.910	3,643.38	577.14	-102.70	-37.81	0.00	0.00	0.00
3,800.00	11.40	349.910	3,741.41	596.60	-106.16	-39.08	0.00	0.00	0.00
3,900.00	11.40	349.910	3,839.44	616.05	-109.62	-40.36	0.00	0.00	0.00
4,000.00	11.40	349.910	3,937.46	635.51	-113.09	-41.63	0.00	0.00	0.00
4,100.00	11.40	349.910	4,035.49	654.97	-116.55	-42.91	0.00	0.00	0.00
4,200.00	11.40	349.910	4,133.52	674.43	-120.01	-44.18	0.00	0.00	0.00
4,300.00	11.40	349.910	4,231.55	693.89	-123.48	-45.46	0.00	0.00	0.00
4,400.00	11.40	349.910	4,329.57	713.35	-126.94	-46.73	0.00	0.00	0.00
4,500.00	11.40	349.910	4,427.60	732.81	-130.40	-48.01	0.00	0.00	0.00
4,600.00	11.40	349.910	4,525.63	752.27	-133.86	-49.28	0.00	0.00	0.00
4,700.00	11.40	349.910	4,623.65	771.72	-137.33	-50.56	0.00	0.00	0.00
4,800.00	11.40	349.910	4,721.68	791.18	-140.79	-51.83	0.00	0.00	0.00
4,800.00	11.40	349.910	4,721.68 4,819.71	791.18 810.64	-140.79 -144.25	-51.83 -53.10	0.00	0.00	0.00



Lonestar Consulting, LLC

Planning Report



Database: Company:

Project:

Hilcorp

EDMDB

HilCorp

San Juan, NM NAD27

Site: Well:

Allison 611 Pad Allison Unit 630H

Wellbore: ОН Design: Plan #1 Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well Allison Unit 630H

GL 6350' & RKB 25.1' @ 6375.10ft (Nabors

B29)

GL 6350' & RKB 25.1' @ 6375.10ft (Nabors

B29) True

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	11.40	349.910	4,917.74	830.10	-147.71	-54.38	0.00	0.00	0.00
5,100.00	11.40	349.910	5,015.76	849.56	-151.18	-55.65	0.00	0.00	0.00
5,200.00	11.40	349.910	5,113.79	869.02	-154.64	-56.93	0.00	0.00	0.00
5,300.00	11.40	349.910	5,211.82	888.48	-158.10	-58.20	0.00	0.00	0.00
5,400.00	11.40	349.910	5,309.85	907.93	-161.56	-59.48	0.00	0.00	0.00
5,500.00	11.40	349.910	5,407.87	927.39	-165.03	-60.75	0.00	0.00	0.00
5,600.00	11.40	349.910	5,505.90	946.85	-168.49	-62.03	0.00	0.00	0.00
5,700.00	11.40	349.910	5,603.93	966.31	-171.95	-63.30	0.00	0.00	0.00
5,800.00	11.40	349.910	5,701.96	985.77	-175.41	-64.58	0.00	0.00	0.00
5,900.00	11.40	349.910	5,799.98	1,005.23	-178.88	-65.85	0.00	0.00	0.00
6,000.00	11.40	349.910	5,898.01	1,024.69	-182.34	-67.13	0.00	0.00	0.00
6,100.00 6.190.76	11.40	349.910	5,996.04	1,044.15	-185.80	-68.40	0.00	0.00	0.00
6,189.76	11.40	349.910	6,084.02	1,061.61	-188.91	-69.55	0.00	0.00	0.00
6,200.00	11.29	354.038	6,094.07	1,063.60	-189.19	-69.60	8.00	-1.11	40.30
6,300.00	13.11	31.640	6,191.96	1,083.03	-184.25	-62.53	8.00	1.83	37.60
6,400.00	18.52	53.726	6,288.22	1,102.11	-165.47	-41.74	8.00	5.40	22.09
6,500.00	25.30	65.240	6,380.99	1,120.48	-133.21	-7.64	8.00	6.78 7.31	11.51
6,600.00	32.61	71.995	6,468.45	1,137.79	-88.10	39.12	8.00		6.75
6,700.00	40.17	76.465	6,548.91	1,153.69	-31.03	97.61	8.00	7.55	4.47
6,800.00	47.84	79.713	6,620.79	1,167.88	36.91	166.70	8.00	7.68	3.25
6,900.00	55.59	82.252	6,682.70	1,180.08	114.38	245.05	8.00	7.75	2.54
7,000.00	63.38	84.357	6,733.44	1,190.06	199.88	331.12	8.00	7.79	2.10
7,100.00	71.20	86.191	6,772.02	1,197.61	291.74	423.26	8.00	7.82	1.83
7,200.00	79.04	87.862	6,797.67	1,202.59	388.18	519.65	8.00	7.84	1.67
7,300.00	86.88	89.445	6,809.92	1,204.91	487.32	618.43	8.00	7.84	1.58
7,339.50	89.98	90.061	6,811.00	1,205.08	526.80	657.69	8.00	7.85	1.56
7,400.00 7,500.00	89.98 89.98	90.061 90.061	6,811.02 6,811.05	1,205.02 1,204.91	587.30 687.30	717.80 817.17	0.00 0.00	0.00 0.00	0.00 0.00
7,600.00	89.98	90.061	6,811.08	1,204.80	787.30	916.53	0.00	0.00	0.00
7,700.00	89.98	90.061	6,811.11	1,204.70	887.30	1,015.90	0.00	0.00	0.00
7,800.00 7,900.00	89.98 89.98	90.061 90.061	6,811.14 6,811.17	1,204.59 1,204.48	987.30 1,087.30	1,115.27 1,214.63	0.00 0.00	0.00 0.00	0.00 0.00
8,000.00	89.98	90.061	6,811.20	1,204.48	1,187.30	1,314.00	0.00	0.00	0.00
8,100.00	89.98	90.061	6,811.23	1,204.27	1,287.30	1,413.37	0.00	0.00	0.00
8,200.00 8,300.00	89.98	90.061	6,811.25 6,811.28	1,204.16 1,204.05	1,387.30	1,512.73	0.00 0.00	0.00 0.00	0.00
8,400.00	89.98 89.98	90.061 90.061	6,811.28	1,204.05	1,487.30 1,587.30	1,612.10 1,711.46	0.00	0.00	0.00 0.00
8,500.00	89.98	90.061	6,811.34	1,203.95	1,567.30	1,711.46	0.00	0.00	0.00
8,600.00	89.98	90.061	6,811.37	1,203.73	1,787.30	1,910.20	0.00	0.00	0.00
8,700.00	89.98	90.061	6,811.40	1,203.63	1,887.30	2,009.56	0.00	0.00	0.00
8,800.00 8,900.00	89.98	90.061	6,811.43 6,811.46	1,203.52	1,987.30	2,108.93	0.00	0.00	0.00
9,000.00	89.98 89.98	90.061 90.061	6,811.46 6,811.49	1,203.41 1,203.31	2,087.30 2,187.30	2,208.30 2,307.66	0.00 0.00	0.00 0.00	0.00 0.00
9,100.00	89.98	90.061	6,811.52	1,203.20	2,287.30	2,407.03	0.00	0.00	0.00
9,200.00	89.98	90.061	6,811.55	1,203.09	2,387.30	2,506.40	0.00	0.00	0.00
9,300.00 9,400.00	89.98	90.061	6,811.58 6,811.61	1,202.98	2,487.30	2,605.76	0.00	0.00	0.00
9,400.00	89.98 89.98	90.061 90.061	6,811.64	1,202.88 1,202.77	2,587.30 2,687.30	2,705.13 2,804.49	0.00 0.00	0.00 0.00	0.00 0.00
9,600.00	89.98	90.061	6,811.67	1,202.66	2,787.30	2,903.86	0.00	0.00	0.00
9,700.00	89.98	90.061	6,811.70	1,202.56	2,887.30	3,003.23	0.00	0.00	0.00
9,800.00 9,900.00	89.98	90.061	6,811.73	1,202.45	2,987.30	3,102.59	0.00	0.00	0.00
9,900.00	89.98	90.061	6,811.76	1,202.34	3,087.30	3,201.96	0.00	0.00	0.00



Lonestar Consulting, LLC

Planning Report



Database: Company:

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Hilcorp

EDMDB

HilCorp

San Juan, NM NAD27

Site: Well:

Allison 611 Pad Allison Unit 630H

Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:

TVD Reference:

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North Reference:

Survey Calculation Method:

Well Allison Unit 630H

GL 6350' & RKB 25.1' @ 6375.10ft (Nabors

B29)

GL 6350' & RKB 25.1' @ 6375.10ft (Nabors

B29) True

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)
10,000.00	89.98	90.061	6,811.79	1,202.24	3,187.30	3,301.33	0.00	0.00	0.00
10,100.00	89.98	90.061	6,811.82	1,202.13	3,287.30	3,400.69	0.00	0.00	0.00
10,200.00	89.98	90.061	6,811.85	1,202.02	3,387.30	3,500.06	0.00	0.00	0.00
10,300.00	89.98	90.061	6,811.88	1,201.92	3,487.29	3,599.43	0.00	0.00	0.00
10,400.00	89.98	90.061	6,811.91	1,201.81	3,587.29	3,698.79	0.00	0.00	0.00
10,500.00	89.98	90.061	6,811.94	1,201.70	3,687.29	3,798.16	0.00	0.00	0.00
10,600.00	89.98	90.061	6,811.97	1,201.59	3,787.29	3,897.52	0.00	0.00	0.00
10,700.00	89.98	90.061	6,812.00	1,201.49	3,887.29	3,996.89	0.00	0.00	0.00
10,800.00	89.98	90.061	6,812.02	1,201.38	3,987.29	4,096.26	0.00	0.00	0.00
10,900.00	89.98	90.061	6,812.05	1,201.27	4,087.29	4,195.62	0.00	0.00	0.00
11,000.00	89.98	90.061	6,812.08	1,201.17	4,187.29	4,294.99	0.00	0.00	0.00
11,100.00	89.98	90.061	6,812.11	1,201.06	4,287.29	4,394.36	0.00	0.00	0.00
11,200.00	89.98	90.061	6,812.14	1,200.95	4,387.29	4,493.72	0.00	0.00	0.00
11,300.00	89.98	90.061	6,812.17	1,200.85	4,487.29	4,593.09	0.00	0.00	0.00
11,400.00	89.98	90.061	6,812.20	1,200.74	4,587.29	4,692.46	0.00	0.00	0.00
11,500.00	89.98	90.061	6,812.23	1,200.63	4,687.29	4,791.82	0.00	0.00	0.00
11,600.00	89.98	90.061	6,812.26	1,200.52	4,787.29	4,891.19	0.00	0.00	0.00
11,700.00	89.98	90.061	6,812.29	1,200.42	4,887.29	4,990.56	0.00	0.00	0.00
11,800.00	89.98	90.061	6,812.32	1,200.31	4,987.29	5,089.92	0.00	0.00	0.00
11,900.00	89.98	90.061	6,812.35	1,200.20	5,087.29	5,189.29	0.00	0.00	0.00
12,000.00	89.98	90.061	6,812.38	1,200.10	5,187.29	5,288.65	0.00	0.00	0.00
12,100.00	89.98	90.061	6,812.41	1.199.99	5,287.29	5,388.02	0.00	0.00	0.00
12,200.00	89.98	90.061	6,812.44	1,199.88	5,387.29	5,487.39	0.00	0.00	0.00
12,300.00	89.98	90.061	6,812.47	1,199.78	5,487.29	5,586.75	0.00	0.00	0.00
12,400.00	89.98	90.061	6,812.50	1,199.67	5,587.29	5,686.12	0.00	0.00	0.00
12,500.00	89.98	90.061	6,812.53	1,199.56	5,687.29	5,785.49	0.00	0.00	0.00
12,600.00	89.98	90.061	6,812.56	1,199.46	5,787.29	5,884.85	0.00	0.00	0.00
12,700.00	89.98	90.061	6,812.59	1,199.35	5,887.29	5,984.22	0.00	0.00	0.00
12,800.00	89.98	90.061	6,812.62	1,199.24	5,987.29	6,083.59	0.00	0.00	0.00
12,900.00	89.98	90.061	6,812.65	1,199.13	6,087.29	6,182.95	0.00	0.00	0.00
13,000.00	89.98	90.061	6,812.68	1,199.03	6,187.29	6,282.32	0.00	0.00	0.00
13,100.00	89.98	90.061	6,812.71	1,198.92	6,287.29	6,381.68	0.00	0.00	0.00
13,200.00	89.98	90.061	6,812.74	1,198.81	6,387.29	6,481.05	0.00	0.00	0.00
13,300.00	89.98	90.061	6,812.76	1,198.71	6,487.29	6,580.42	0.00	0.00	0.00
13,400.00	89.98	90.061	6,812.79	1,198.60	6,587.29	6,679.78	0.00	0.00	0.00
13,500.00	89.98	90.061	6,812.82	1,198.49	6,687.29	6,779.15	0.00	0.00	0.00
13,600.00	89.98	90.061	6,812.85	1,198.39	6,787.29	6,878.52	0.00	0.00	0.00
13,700.00	89.98	90.061	6,812.88	1,198.28	6,887.29	6,977.88	0.00	0.00	0.00
13,800.00	89.98	90.061	6,812.91	1,198.17	6,987.29	7,077.25	0.00	0.00	0.00
13,900.00	89.98	90.061	6,812.94	1,198.07	7,087.29	7,176.62	0.00	0.00	0.00
14,000.00	89.98	90.061	6,812.97	1,197.96	7,187.29	7,275.98	0.00	0.00	0.00
14,100.00	89.98	90.061	6,813.00	1,197.85	7,287.29	7,375.35	0.00	0.00	0.00
14,200.00	89.98	90.061	6,813.03	1,197.74	7,387.29	7,474.71	0.00	0.00	0.00
14,300.00	89.98	90.061	6,813.06	1,197.64	7,487.29	7,574.08	0.00	0.00	0.00
14,400.00	89.98	90.061	6,813.09	1,197.53	7,587.29	7,673.45	0.00	0.00	0.00
14,500.00	89.98	90.061	6,813.12	1,197.42	7,687.29	7,772.81	0.00	0.00	0.00
14,600.00	89.98	90.061	6,813.15	1,197.32	7,787.29	7,872.18	0.00	0.00	0.00
14,700.00	89.98	90.061	6,813.18	1,197.21	7,887.29	7,971.55	0.00	0.00	0.00
14,800.00	89.98	90.061	6,813.21	1,197.10	7,987.29	8,070.91	0.00	0.00	0.00
14,900.00	89.98	90.061	6,813.24	1,197.00	8,087.29	8,170.28	0.00	0.00	0.00
15,000.00	89.98	90.061	6,813.27	1,196.89	8,187.29	8,269.65	0.00	0.00	0.00
. 0,000.00									



Hilcorp

Lonestar Consulting, LLC

Planning Report



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San Juan, NM NAD27

Site: Well: Allison 611 Pad Allison Unit 630H

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GL 6350' & RKB 25.1' @ 6375.10ft (Nabors

B29)

GL 6350' & RKB 25.1' @ 6375.10ft (Nabors

B29) True

lanned 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)
15,200.00	89.98	90.061	6,813.33	1,196.68	8,387.29	8,468.38	0.00	0.00	0.00
15,300.00	89.98	90.061	6,813.36	1,196.57	8,487.29	8,567.74	0.00	0.00	0.00
15,400.00	89.98	90.061	6,813.39	1,196.46	8,587.29	8,667.11	0.00	0.00	0.00
15,500.00	89.98	90.061	6,813.42	1,196.35	8,687.29	8,766.48	0.00	0.00	0.00
15,600.00	89.98	90.061	6,813.45	1,196.25	8,787.29	8,865.84	0.00	0.00	0.00
15,700.00	89.98	90.061	6,813.48	1,196.14	8,887.29	8,965.21	0.00	0.00	0.00
15,800.00	89.98	90.061	6,813.50	1,196.03	8,987.29	9,064.58	0.00	0.00	0.00
15,900.00	89.98	90.061	6,813.53	1,195.93	9,087.29	9,163.94	0.00	0.00	0.00
16,000.00	89.98	90.061	6,813.56	1,195.82	9,187.29	9,263.31	0.00	0.00	0.00
16,100.00	89.98	90.061	6,813.59	1,195.71	9,287.29	9,362.68	0.00	0.00	0.00
16,200.00	89.98	90.061	6,813.62	1,195.61	9,387.29	9,462.04	0.00	0.00	0.00
16,300.00	89.98	90.061	6,813.65	1,195.50	9,487.29	9,561.41	0.00	0.00	0.00
16,400.00	89.98	90.061	6,813.68	1,195.39	9,587.29	9,660.77	0.00	0.00	0.00
16,500.00	89.98	90.061	6,813.71	1,195.29	9,687.29	9,760.14	0.00	0.00	0.00
16,600.00	89.98	90.061	6,813.74	1,195.18	9,787.29	9,859.51	0.00	0.00	0.00
16,700.00	89.98	90.061	6,813.77	1,195.07	9,887.29	9,958.87	0.00	0.00	0.00
16,800.00	89.98	90.061	6,813.80	1,194.96	9,987.29	10,058.24	0.00	0.00	0.00
16,900.00	89.98	90.061	6,813.83	1,194.86	10,087.29	10,157.61	0.00	0.00	0.00
17,000.00	89.98	90.061	6,813.86	1,194.75	10,187.29	10,256.97	0.00	0.00	0.00
17,100.00 17,200.00 17,300.00 17,400.00 17,473.05	89.98 89.98 89.98 89.98	90.061 90.061 90.061 90.061 90.061	6,813.89 6,813.92 6,813.95 6,813.98 6,814.00	1,194.64 1,194.54 1,194.43 1,194.32 1,194.24	10,287.29 10,387.29 10,487.29 10,587.29 10,660.34	10,356.34 10,455.71 10,555.07 10,654.44 10,727.03	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 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 630H LP Rev1 - plan hits target cent - Point	0.00 er	0.000	6,811.00	1,205.08	526.80	2,184,091.83	591,899.60	37.0018410	-107.5186180
AU 630H BHL - plan hits target cent - Point	0.00 er	0.000	6,814.00	1,194.24	10,660.34	2,184,114.30	602,033.10	37.0018057	-107.4839155



Lonestar Consulting, LLC

Planning Report



Database: Company:

Project:

EDMDB

HilCorp

San Juan, NM NAD27

Site: Well: Allison 611 Pad Allison Unit 630H

Wellbore: ОН Design: Plan #1 Local Co-ordinate Reference:

Survey Calculation Method:

TVD Reference:

MD Reference:

North Reference:

Well Allison Unit 630H

GL 6350' & RKB 25.1' @ 6375.10ft (Nabors

B29)

GL 6350' & RKB 25.1' @ 6375.10ft (Nabors

B29) True

mations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	2,109.24	2,084.00	OJO ALAMO (SS)		0.00	0.000
	2,176.57	2,150.00	KIRTLAND (SHALE + coal)		0.00	0.000
	2,616.24	2,581.00	FRUITLAND (shale + COAL)		0.00	0.000
	2,992.67	2,950.00	PICTURED CLIFFS (ss)		0.00	0.000
	3,520.07	3,467.00	LEWIS SHALE		0.00	0.000
	4,981.91	4,900.00	CLIFFHOUSE		0.00	0.000
	5,363.43	5,274.00	MENEFEE		0.00	0.000
	5,548.07	5,455.00	POINT LOOKOUT		0.00	0.000
	6,077.52	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 412110

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	412110
	Action Type:
	[C-101] Drilling Non-Federal/Indian (APD)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	1/10/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	1/10/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	1/10/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	1/10/2025
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing.	1/10/2025
ward.rikala	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	1/10/2025
ward.rikala	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.	1/10/2025