Received by OCD; 8/21/2025 9:11:20 AM State of New Mexico Phone: (505) 476-3441 Energy, Minerals and Natural Resources General Information WELL API NO. Phone: (505) 629-6116 05-067-10062/30-045-38411 OIL CONSERVATION DIVISION Online Phone Directory Visit: 5. Indicate Type of Lease https://www.emnrd.nm.gov/ocd/contact-us/ 1220 South St. Francis Dr. STATE FEE Santa Fe, NM 87505 6. State Oil & Gas Lease No. SUNDRY NOTICES AND REPORTS ON WELLS 7. Lease Name or Unit Agreement Name (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 Allison Unit PROPOSALS.) 8. Well Number 631H Gas Well X Other 1. Type of Well: Oil Well OGRID Number 2. Name of Operator Hilcorp Energy Company 372171 3. Address of Operator 10. Pool name or Wildcat 382 Road 3100, Aztec, NM 87410 Mancos 4. Well Location feet from the North Unit Letter F (LOT 3) : 498' line and 1560' feet from the West line County San Juan Township 32N **NMPM** Section Range 07W 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6352' GL 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK □ PLUG AND ABANDON REMEDIAL WORK ALTERING CASING □ TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING OPNS.□ P AND A MULTIPLE COMPL  $\Box$ CASING/CEMENT JOB PULL OR ALTER CASING DOWNHOLE COMMINGLE П **CLOSED-LOOP SYSTEM** OTHER: X APD Change of Plans OTHER: 13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Hilcorp Energy 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.

DATE

SIGNATURE TITLE Operations/Regulatory Tech Sr. DATE 8/21/2025 Type or print name Amanda Walker PHONE: 346-237-2177 E-mail address: mwalker@hilcorp.com

TITLE

For State Use Only

APPROVED BY:

Conditions of Approval (if any):

Received by OCD: 8/21/2025 9:11:20 AM

**FORM** 4 Rev 03/22

## State of Colorado **Energy & Carbon Management Commission**



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				'
Docu	ment N	Numbe	r:	
	4042	10015		

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109

#### **SUNDRY NOTICE**

This form is required for reports, updates, and requests as specified in the ECMC rules. It is also used to request changes to some aspects of approved permits for Wells and Oil and Gas Locations.

	1			
Docu	ment N	Numbe	r:	
<u>404318015</u>				
Date	Receiv	ed:		
	08/1	5/2025	<u>.</u>	
I				- 1

ECMC Operator Number: 10133	ECMC Operator Number: 10133 Contact Name Amanda Walker						
Name of Operator: HILCORP ENERGY COMPANY		(346) 237-2177					
Address: P O BOX 61229	——— Fax:	( )					
City: HOUSTON State: TX Zip: 7720		mwalker@hilcorp.com					
FORM 4 SUBMITTED FOR:							
Facility Type: WELL							
API Number: 05- 067 10062 00 ID Number:	489731						
	nber: 631H	<u>-                                      </u>					
Location QtrQtr: SWNE Section: 20 Township: 3		Meridian: N					
County: LA PLATA Field Name:	IGNACIO BLANCO						
Oil & Gas Location(s) and Oil & Gas Development Plan (OGDP)	Information						
Location(s)							
No Location							
OGDP(s)							
No OGDP							
WELL LOCATION CHANGE OR AS-BUILT GPS REPOR	_	- Duilt CDC Leastier De	a ant with Comment				
<ul> <li>Change of Location for Well * As-Built GPS Loca</li> <li>* Well Location Change requires a new Plat.</li> </ul>	iion Report	s-Built GPS Location Rep	oort with Survey				
	ed for Change of Surface Lo	eaction and As Built Band	arto.				
Latitude 36.998692 Longitude -107.521278	ed for Change of Surface Lo	cation and As Built Repo	orts.				
GPS Quality Value: 1.8 Type of GPS Quality Value:	- PDOP Measurement	Date: 07/10/2025					
Well Ground Elevation: 6352 feet (Required for change of	of Surface Location.)						
WELL LOCATION CHANCE							
WELL LOCATION CHANGE	-t-I)		EEL (E) (I)				
Well plan is: HORIZONTAL (Vertical, Directional, Horizon Change of Surface Footage From:	529	FNL/FSL 1635	FEL/FWL				
Change of Surface Footage To:	498	FNL 1560	FWL				
	ec 20 Twp 32N		Meridian N				
	ec 12 Twp 32N		Meridian N				
Change of <b>Top of Productive Zone</b> Footage <b>From</b> :	1920	FNL 1411	FEL				
Change of <b>Top of Productive Zone</b> Footage <b>To</b> :	1906	FNL 2160	FEL **				
Current <b>Top of Productive Zone</b> Location S	ec 20 Twp 3	2N Range 6	W				
·		2N Range 6					
	·						

Change of Base of Productive		From:			FNL			FEL	Pa	0
	<b>Zone</b> Footage	То:		2000	FNL	2032		FEL	**	
Current Base of Productive Z	one Location	Sec		Twp		Range				
lew Base of Productive Zone	Location	Sec	22	Twp 32	2N	Range	6W			
Change of <b>Bottomhole</b> Footage	e <b>From</b> :			2000	FNL	1775		FEL		
Change of <b>Bottomhole</b> Footage	e <b>To</b> :			2001	FNL	1775		FEL	**	
Current <b>Bottomhole</b> Location	Sec	22 Twp	32N	Range	6W	** attach	devia	ated dr	illing pla	an
New <b>Bottomhole</b> Location	Sec	22 Twp	32N	Range	6W					
SAFETY SETBACK INFORMATION	Re	equired for change	of Surface Lo	cation.						
Distance from Well to nearest:				INSTRUCT	IONS:					
Buildi	ng: 5280	) Feet		- Specify a	ll distances <sub>l</sub>	per Rule 308.				
Building U	nit: 5280	_ ) Feet				ce greater thilding of any			est	
Public Ro	ad: 5280	– ) Feet		Building is		Jnit, enter sa				
Above Ground Util	lity: 5280	- ) Feet		both. - Building	Unit – as def	fined in 100 S	Series	Rules.		
Railro	ad: 5280	- ) Feet								
Property Li	ne: 865	- 5 Feet								
If YES:  Enter the minimum distar	nce from the Co	impleted Zone of the	ils well to the	Unit Bounda	ary: 88	B9 Feet				
	nce from the Co	ompleted Zone of th	nis Well to the				within	n the sa	ame	
Enter the minimum distar	nce from the Co	ompleted Zone of th	nis Well to the				within	n the sa	ame	
Enter the minimum distartion Enter the minimum distartion unit permitted or complete	nce from the Co	ompleted Zone of the formation: 101	nis Well to the	Completed 2	Zone of an	offset Well	within	n the sa	ame Feet	
Enter the minimum distant Enter the minimum distant unit permitted or completed If NO:  Enter the minimum distance Enter the Enter t	nce from the Co ted in the same e from the Comp e from the Comp	ompleted Zone of the formation: 101  Deleted Zone of this olleted Zone of this	nis Well to the  I1 Feet  Well to the Le  Well to the Co	Completed a	Zone of an	offset Well			Feet	
Enter the minimum distant Enter the minimum distant unit permitted or completed If NO:  Enter the minimum distance in the mini	nce from the Co ted in the same e from the Comp e from the Comp	ompleted Zone of the formation: 101  Deleted Zone of this olleted Zone of this	nis Well to the  I1 Feet  Well to the Le  Well to the Co	Completed a	Zone of an	offset Well			Feet	
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Comments:	Page 5 of
ENGINEERING AND ENVIRONMENTAL WORK	
REPORT OF TEMPORARY ABANDONMENT	
Describe the method used to ensure that the Well is closed to the atmosphere and the Operator's plans for future Well in the COMMENTS box below as required by Rule 434.b.(1).	e operation of the
REQUEST FOR TEMPORARY ABANDONMENT EXCEEDING 6 MONTHS	
State the reason for the extension request and explain the Operator's plans for future operation of the Well in the box below as required by Rule 434.b.(3).	COMMENTS
Date well temporarily abandoned	
Has Production Equipment been removed from site?	
Mechanical Integrity Test (MIT) required. Date of last MIT	
TECHNICAL ENGINEERING AND ENVIRONMENTAL WORK	
Details of work must be described in full in the COMMENTS below or provided as an attachment.	
NOTICE OF INTENT/REQUEST FOR APPROVAL  Approximate Start Date  10/01/2025	
SUBSEQUENT REPORT Date of Activity	
☐ Bradenhead Plan ☐ Venting or Flaring (Rule 903) ☐ E&P Waste Ma	angement
▼ Change Drilling Plan   Repair Well     ■ Beneficial Reus	se of E&P Waste
Gross Interval Change	
Underground Injection Control	
Request approval of Reuse and Recycling Plan per Rule 905.a.(3). (Reuse and Recycling Plan must be attached.	.)
Request approval of Alternative Sampling Plan per Rule 909.j.(6). for this Pit. (Alternative Sampling Program mus  Other	t be attached.)
Request that an existing produced water sample from the same formation be used per Rule 909.j.(6) to meet the Rule 909.j.(1)-(5) for this Well.	requirements of
Pit ID Pit Name	
(No Sample Provided)	
Subsequent well operations with heavy equipment (Rule 312)	
(No Well Provided)	
COMMENTS:	
GAS CAPTURE	
/ENTING AND FLARING:	
Operation type: Operational phase requiring venting/flaring:	
Reason for venting/flaring:	
Describe Other reason for venting/flaring:	

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			25 9:11:20 or flaring i of the even		y. If repo	orting per Ru	le 903.b.(2),	903.c.(3)	.C, or 903	.d.(2), inc	lude the explanation, Page 6
							npacts to pub used to mini				e environment, and b:
Total volu	me of g	jas v	ented or fla	ared:		_ mcf		estima	ted		measured
Total dura	ition of	emis	sion event	:		hours		conse	cutive		cumulative
Submit a s	single re	epre:	sentative g	as analysis	via Forr tab.	m 43 to crea	te a Sample	Site Faci	lity ID# for	this Loca	ation. Reference the Form
Samp	ole Site	Fac	ility ID#:								
AS CAPTURI	F PI AN	J			_						
			connect to	a gathering	line or b	eneficially u	se the gas; in	nclude ar	iticipated t	imeline:	
									<u> </u>		
A Gas Ca	pture P	lan t	hat meets	the requirer	ments of	Rule 903.e	is attached.				
ASING PROC	SRAM.										
Casing Type	Size o		Size of Casing	<u>Grade</u>	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt To	р
URF	17+1	/2	13+3/8	J55	54.5	0	700	705	700	0	
ST In	12+1		9+5/8	L80	43.5	0	6826	711	6826	0	_
ND	8+1/		5+1/2	P110	20	0	18557	2562	18557	5000	
<u>OTENTIAL FL</u> one Type			ation	FORMA <u>1 د</u> <b>Top</b>	<u>IONS</u> <u>To</u>	p Botto	m Bottom	1	TDS Data	Source	Comment
<u> </u>		laza		<u>M.D.</u>	<u>T.V.I</u>				ng/L)	<del>oou.cc</del>	<u>Johnnen</u>
roundwater	s	an Jo	ose	0		0 84	18 848	0	-500 USG	S	Possible Water
roundwater	N	lacim	iento	848	84	18 215	50 2084	. 0	-500 USG	S	Possible Water
roundwater	С	)jo Al	amo	2150	208	34 222	20 2150	501-	1000 USG	S	Possible Water
onfining Layer	K	irtlan	ıd	2220	215	50 268	32 2581	1001-1	0000 USG	S	Gas & Water
ydrocarbon	F	ruitla	nd	2682	258	307	76 2950	1001-1	0000 USG	S	Gas & Water
ydrocarbon	Р	ictur	ed Cliffs	3076	295	363	3467	,			Possible Gas
onfining Layer	L	ewis	Shale	3630	346	516	4900				None
ydrocarbon	С	liffho	use	5163	490	556	5274				Possible Gas
onfining Layer	N	1enef	ee	5563	527	74 575	57 5455				None
ydrocarbon	Р	oint l	Lookout	5757	545	631	12 5974				Gas
ydrocarbon	N	1anco	os	6312	597	74 651	12 6174				Gas
2S REPORTI	NG		•						·		
Intentiona	l releas	se of	H2S gas	due to Ups	et Cond	lition or ma	Ifunction.				
Intent to te	empora	arily	abandon v	well with p	otential	H2S conce	ntration >10	0 ppm.			
ata Fields in nat is submit					cument	Sample an	d Location [	Data asso	ociated w	ith the co	ollection of a Gas Sample
Sas Analysis	Report	t mu	st be attac	ched.							
I2S Concentra	ation:		in pp	om (parts pe	er million	)	Date of	f Measure	ement or S	Sample C	ollection
escription o	f Samı	ole F	Point:								
	. ວິດກາ	<b>-</b> .	J								

ceived by OCD: 8/21/2	2025 9:11:20 AM				Page 7 of
Absolute Open Flow Pot	tential in CFF	PD (cubic feet per day)			
escription of Release F		low is not open to the atn	nosphere, identify the	duration in which the container o	r
istance to nearest occu	upied residence, school, c	hurch, park, school bus s	stop, place of business	s, or other areas where the	
ublic could reasonably	be expected to frequent:				
istance to nearest Fed	eral, State, County, or mu	nicipal road or highway o	wned and principally	maintained for public	
se:					
COMMENTS:					
L & GAS LOCATION L	<u>JPDATES</u>				
GDP ID	OGDP Name		_		
TE EQUIPMENT LIST	UPDATES				
dicate the number and	type of major equipment	components planned for	use on this Oil and Ga	as Location:	
Wells	Oil Tanks	Condensate Tanks	Water Tanks	Buried Produced Water Vaults	
Drilling Pits	Production Pits	Special Purpose Pits	Multi-Well Pits	Modular Large Volume Tank	
Pump Jacks	Separators	Injection Pumps	Heater-Treaters	Gas Compressors	
Gas or Diesel Motors	Electric Motors	Electric Generators	Fuel Tanks	LACT Unit	
Dehydrator Units	Vapor Recovery Unit	VOC Combustor	Flare	Enclosed Combustion Devices	
Meter/Sales Building	Pigging Station	Va <sub>l</sub>	oor Recovery Towers	_	
TUED DEDMANENT E	QUIPMENT UPDATES				
INER PERMANENT E	QUIPMENT UPDATES				
THER TEMPORARY E	QUIPMENT UPDATES				
ULTURAL AND SAFE	TY SETBACK UPDATES	;			
THER LOCATION CHA	ANGES AND UPDATES				
Provide a description of	other changes or updates	s to technical information	for this Location:		
OTENTIAL OGDP UPD	DATES				
	TO AN ADDROVED OC	ND.			

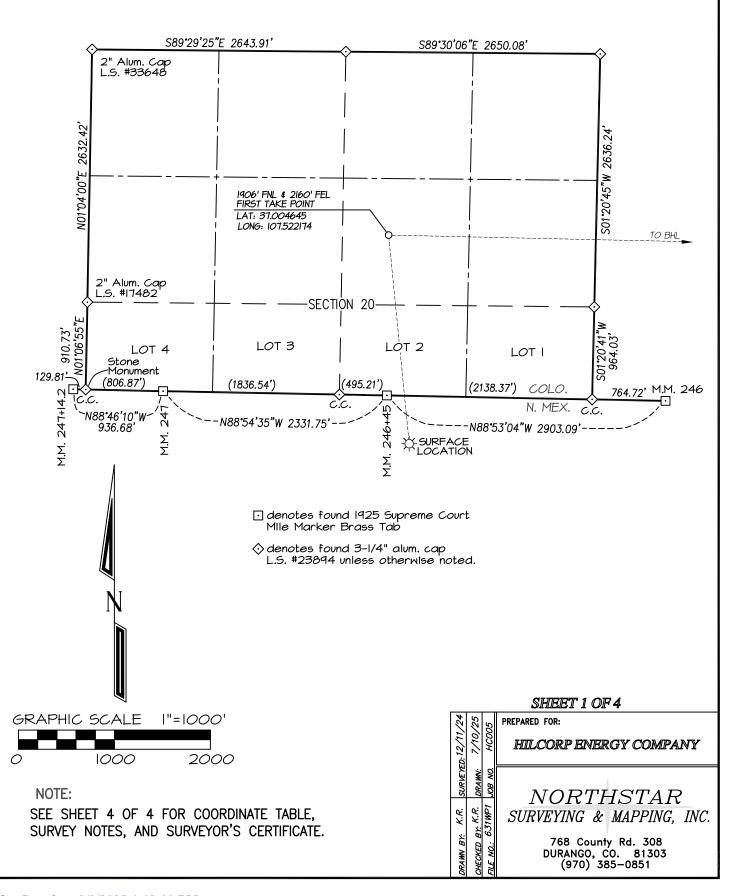
This Sundry Form 4 is being submitted pursuant to Rule 301.c to propose changes to an approved Oil and Gas Development Plan.

eceived by OCD Check all b	: 8/21/2025 9:11:20 oxes that pertain to th	AM e type(s) of changes bei	ing proposed for this OGDP:		Page 8 o
	il and Gas Location(s		Add Drilling and Spacing Unit(s	)	
	d Oil and Gas Location				
	ve Oil and Gas Location		Amend Drilling and Spacing Ur  Remove Drilling and Spacing U		
	, ,				
Other	d Gas Location attach	none or plant apacitos	Amend the lands subject to the	002.	
Provide a detaile necessary.	d description of the ch	anges being proposed f	for this OGDP. Attach supporting doc	umentation such a	as maps if
,					
		Operator Best	t Management Practices		
No BMP/C	OA Type	<u>Description</u>			
Operator Com	nments:				
The SHL is in	n NM (3004538411) S	ec, 12, T32N, R7W Lot	3. BHL and all production will be from	CO.	
-	Il statements made in	this form are, to the bes	t of my knowledge, true, correct, and	-	
Signed:			Print Name: Amanda Walk	er	
Title: Regula	atory Tech Sr.	Email: mwalk	er@hilcorp.com	Date:	8/15/2025
		ein, this Sundry Notice (	Form 4) complies with ECMC Rules a	nd applicable ord	ers and is
ereby approved					
CMC Approved	: Wang, Jian			ate: 8/20/2025	
	-	CONDITIONS O	F APPROVAL, IF ANY LI	ST	
OA Type	<u> </u>	<u>Description</u>			
			nanges to the approved Form 2 an Form 2 COA still apply.	d must be displa	ayed with the
COA		Offit 2 Write drining. I	om 2 OOA suii appiy.		
		Gene	eral Comments		
Iser Group	Comment	<u> </u>	rai commonto		Comment Date
ingineer		ion has no changes to	o Form 2 COA		08/20/2025
otal: 1 comme		- Ion nao no onangoo k	5 T 51111 2 5 57 t.		30/20/2020
	(0)	ATTA	CHMENT LIST		
Att Doc Num	Name	23373			
04318015		ICE APPROVED I O	C-SFTY-STBK-MNRL-STBK-OBJ-	DRI G-CSG	
04318053	WELL LOCAT		0-01 11-010V-MIMUT-910V-0DJ-	טוונט-טט	
04318060	OPERATIONS				
04318065	DIRECTIONAL				
10/323720	FORM 4 SUBN				<del></del>

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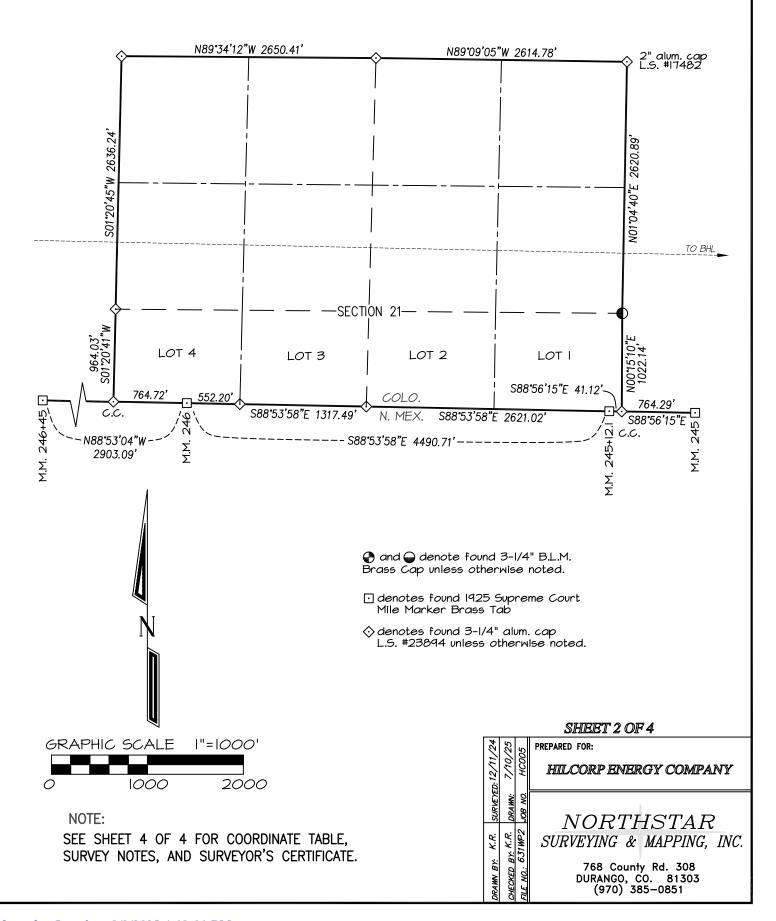
Total Attach: 5 Files

HILCORP ENERGY COMPANY: ALLISON UNIT #631H
SURFACE LOCATION: 498' FNL & 1560' FWL
SECTION 12, T-32-N, R-7-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO. ELEVATION: 6352'
BOTTOM HOLE LOCATION: 2001' FNL, 1775' FEL
SECTION 22, T-32-N, R-6-W, N.M.P.M., LA PLATA COUNTY, COLORADO.



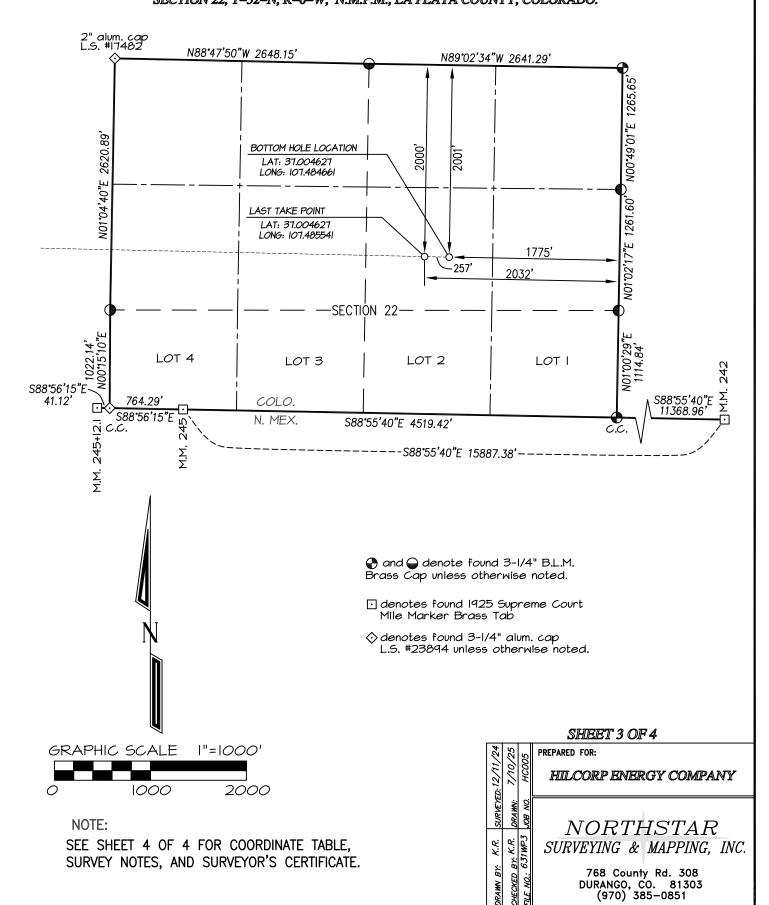
#### HILCORP ENERGY COMPANY: ALLISON UNIT #631H SURFACE LOCATION: 498' FNL & 1560' FWL SECTION 12 T-32-N P-7-W NM PM SAN III AN COUNTY NEW MEYICO BI EVAT

SECTION 12, T-32-N, R-7-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO. BLEVATION: 6352'
BOTTOM HOLB LOCATION: 2001' FNL, 1775' FBL
SECTION 22, T-32-N, R-6-W, N.M.P.M., LA PLATA COUNTY, COLORADO.



## HILCORP ENERGY COMPANY: ALLISON UNIT #631H SURFACE LOCATION: 498' FNL & 1560' FWL SECTION 12 T-32-N P-7-W N N PM SAN HAN COUNTY NEW MEYICO BUBYAT

SECTION 12, T-32-N, R-7-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO. ELEVATION: 6352'
BOTTOM HOLE LOCATION: 2001' FNL, 1775' FEL
SECTION 22, T-32-N, R-6-W, N.M.P.M., LA PLATA COUNTY, COLORADO.



#### HIILCORP ENERGY COMPANY: ALLISON UNIT #631H SURFACE LOCATION: 498' FNL & 1560' FWL SECTION 12, T–32–N, R–7–W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO. BLEVATION: 6352' BOTTOM HOLE LOCATION: 2001' FNL, 1775' FEL SECTION 22, T-32-N, R-6-W, N.M.P.M., LA PLATA COUNTY, COLORADO.

ALLISON UNIT #631H	CSZ NAD '83	NAD '83	TIES	SEC/TWP/RNG
SURFACE HOLE LOCATION	N (Y) = 1,127,285.14'	LAT: 36.998692°N	498' FNL	SECTION 12 (N. MEX.)
	E $(X) = 2,409,727.15'$	LONG: 107.521278°W	1560' FWL	T-32-N, R-7-W
FIRST TAKE POINT	N (Y) = 1,129,458.00'	LAT: 37.004645°N	1906' FNL	SECTION 20 (COLO.)
	E $(X) = 2,409,512.53'$	LONG: 107.522174°W	2160' FEL	T-32-N, R-6-W
LAST TAKE POINT	N (Y) = 1,129,222.10'	LAT: 37.004627°N	2000' FNL	SECTION 22 (COLO.)
	E (X) = 2,420,207.90'	LONG: 107.485541°W	2032' FEL	T-32-N, R-6-W
BOTTOM HOLE LOCATION	N (Y) = 1,129,216.32'	LAT: 37.004627°N	2001' FNL	SECTION 22 (COLO.)
	E (X) = 2,420,464.80'	LONG: 107.484661°W	1775' 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 12/11/24 - PDOP VALUE = 1.7
- 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).



I, 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
/24	25	5	PREPARED FOR:
12/11/	101/1	HC00	HILCORP ENERGY COMPANY
EYEL	ž.	ð.	
SURVEYED:	DRAN	90	MODELICEAD
	_	4	NORTHSTAR
K.R.	K.R	1MP.	SURVEYING & MAPPING, INC.
RAWN BY:	HECKED BY:	NE NO: 63.	768 County Rd. 308 DURANGO, CO. 81303 (970) 385-0851

ORAW CHECO

<u>102</u>	
	. Electronically CD Permitting

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

	Revised July 9, 2024
0 1 11 1	☐ Initial Submittal
Submittal Type	
. , 50	☐ As Drilled

					WELL	LOCATION	INFORM	MATION				
API NO 05067		04538411		Pool	Code 972	232		Pool Name		BASIN MANC	0S	
Proper 31886	ty Code <b>1</b>			Prop	erty Name	ALLISON	UNIT			Well Number	631H	
OGRID	No.	372171		Oper	ator Name	HILCORP ENERG	SY COMP	PANY		Ground Level Elevatio	n 63	352 '
Surfac	e Owner:	☐ State	⊠ Fee □	] Tribal	☐ Federal		Mineral Ow	ner: □ State 🏻 Fee		Tribal □ Federal		
						Surface Lo	cation					
UL F	Section 12	Township 32N	Range 7W	Lot 3	Feet from N/S Line 498' NORTH	Feet from E/W Li 1560' W	ne VEST	Latitude 36.998692	°N	Longitude -107.52127	78 °W	County SAN JUAN (NM)
			'		1	Bottom Hole	Locatio	חמ				1
UL G	Section 22	Township 32N	Range 6W	Lot	Feet from N/S Line 2001' NORTH	Feet from N/S Line Feet from E/W Line		Latitude 37.004627	°N	Longitude -107.48466	51°W	County LA PLATA (CO)
			Per	etrated S	pacing Unit:							
	ed Acres 3.60	S/a	2 (aka	LOTS	& 21, T32N, R6W 1-4), S/2 NW/4,	Infill or Defi	Defining Well API					
		SW/4	NE/4 -	Sect:	ion 22, T32N, A6W			00 0 10 00 110			0.1	
Order	Numbers						Well setba	cks are under Common Own	nersh:	<sup>ip:</sup> 🛛 Yes [	] No	
						Kick Off Poi	int (KO	P)				
UL F	Section 12	Township 32N	Range 7W	Lot 3	Feet from N/S Line 498' NORTH	Feet from E/W Li 1560' W	ne VEST	Latitude 36.998692	°N	Longitude -107.52127	78 °W	County SAN JUAN (NM)
					F	irst Take Po	oint (F	TP)				
UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Li	ne	Latitude		Longitude		County
G	20	32N	6W		1906' NORTH	2160' E	EAST	37.004645	۰N	-107.52217	74 °W	LA PLATA (CO)
	Last Take Point (LTP)											
UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Li	ne	Latitude		Longitude		County
G	22	32N	6W		2000' NORTH	2032' E	EAST	37.004627	°N	-107.48554	41°W	LA PLATA (CO)
Unitize		Area of Ur ISON UN		rest	Spacing Unit Type	rizontal 🗆 '	Vertical	☐ Directiona	1	Ground Floor Elevat	ion	
		0	PERATO	DR CEI	RTIFICATION			SURVE	YOR	CERTIFICATI	ION	

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.

dlow	
AMWERET	8/1/2025
Signature	Date
Amanda Walker	
Printed Name	
mwalker@hilcorp.com	
E-mail Address	

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 LDWARDS

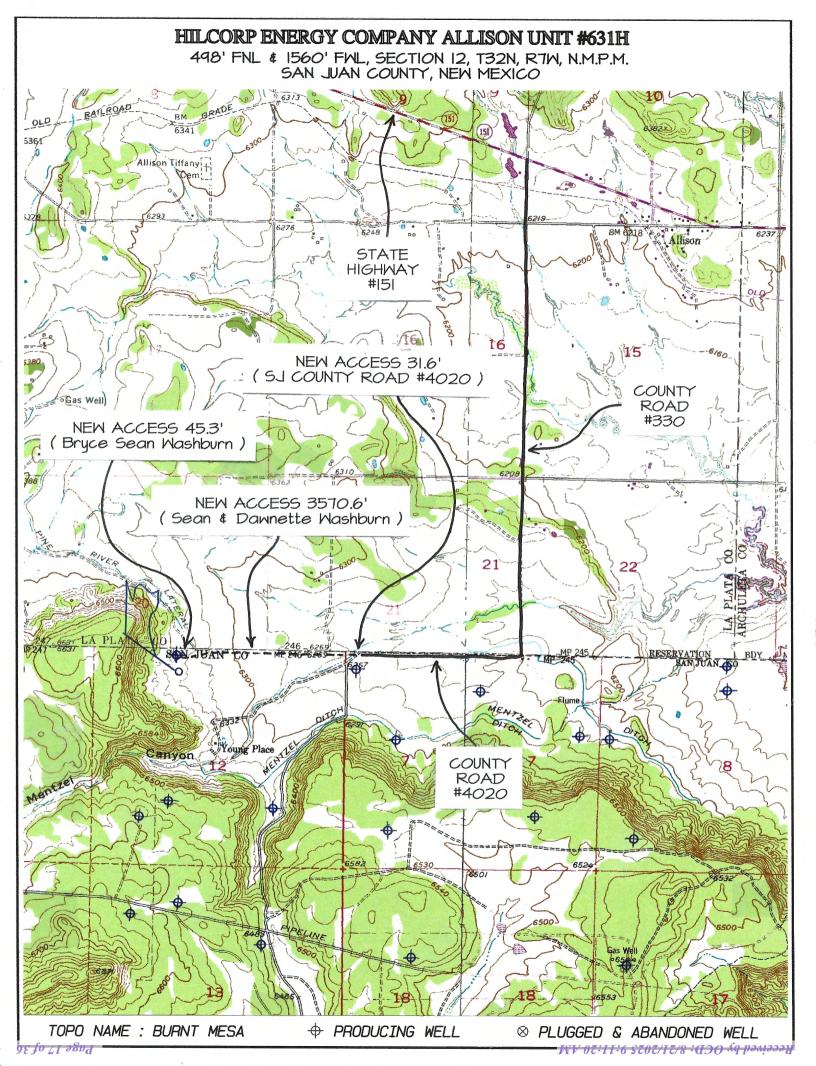
Signature and Seal of Professional Surveyor

Certificate Number 15269

Date of Survey DECEMBER 11, 2024

# 498' FNL & 1560' FWL, SECTION 12, SAN JUAN COUNTY, NEW MEXICO HIIL CORP ENERGY COMPANY T32N, IR7W, NMIPMI ISON UNIT #631H ELEVATION: 6352'

	6342	6352	6362	C-C'		6342'	6352	6362	B-B <sup>'</sup>		6342	6352	6362	, ∀-∀	
															HORIZONTAL SCALE
						 					 				"=60'
		_			C/L		-	W :		C/L	 	_			C/L
						 					 				VER
															VERTICAL SCALE
											 				LE  "=30'
													73.1113.6		



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

#### to Hilcorp Energy Company Allison Unit #631H

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

#### Latitude 36.998692°N Longitude -107.521278°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 #631H existing wellpad.

La Plata County, CO

#### Allison Unit 631H



#### 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 631H	Ground Elevation (ft. MSL):	6,350'
Surface Hole Location:	36.998687° N, -107.520671° W	Total Measured Depth (ft.)	18,557'
Bottom Hole Location:	37.004622° N, -107.484055° 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



#### 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.



#### 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'	6,826′/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'	18,557'/6,798'	11,080 psi	12,360 psi	548 klbs		

	Proposed Casing Design Safety Factors									
Casing String	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	4.1	3.3						
Production	3.0	3.1	2.1	1.8						

#### 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:

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

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

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

#### **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.



#### 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.				
intermediate casing	1 centralizer every 3 <sup>rd</sup> joint to surface.				
Production Casing Centralizers determined by hole conditions from TD to top of cement.					

#### 6. Proposed Cement Program:

			Pro	oposed (	Cement De	esign			
Interval	Depth	Lead/Tail	Volume	Sacks	Excess	Slurry	Density	Planned	
	(ft. MD)		(ft³)		(%)		(ppg)	TOC	
Surface	700′	Lead	973 ft <sup>3</sup>	705	100%	Class G Cement Yield: 1.38 ft <sup>3</sup> /sk	14.6	Surface	
		Slurry Additives	s: CaCl (1%), Ce	llo Flake (0.	25 lb/sk), CD-:	2 (0.2%)			
		Lead	1,937 ft <sup>3</sup>	378	25%	ASTM Type IL Yield: 5.12 ft <sup>3</sup> /sk	9.5	Surface	
Intermediate	ate 6,826'					rd GW-86 (0.2%), IntegraSeal PHENO (2.0 (35.0%), XCem-311 (0.3%)	) lb/sk), Integra	Seal POLI	
intermediate		0,020	Tail	715 ft <sup>3</sup>	333	25%	ASTM Type IL Yield: 2.15 ft <sup>3</sup> /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%)							
		Lead	426 ft <sup>3</sup>	271	25%	ASTM Type IL Yield: 1.57 ft <sup>3</sup> /sk	12.0	5,000′	
Production	18,557′		s: AEXT-1012 (6 (0.55%), STATIO			86 (0.2%), IntegraSeal PHENO (2.0 lb/sk), -311 (0.3%)	IntegraSeal Po	li (0.25 lb/sk),	
FIOUUCIIOII	10,337	Tail	3,391 ft <sup>3</sup>	2,291	25%	Class G Yield: 1.48 ft³/sk	14.0	6,700′	
		Slurry Additives POLI (0.25 lb/sl	,	•		6 (0.3%), GW-86 (0.1%), IntegraSeal PHE	NO (1.0 lb/sk),	IntegraSeal	

#### 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).



#### 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' – 700'			
Intermediate	LSND / Gel	8.4 – 10.0	<6	N/A	700′ – 6,826′			
Production	Oil Base Mud	10.0 – 12.0	6 – 8	70/30 – 75/25	6,826′ – 18,557′			

#### **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 CaCl<sub>2</sub> 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: 1,925 bbls (10,805 ft<sup>3</sup>).

#### 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.



#### 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 631H



#### 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

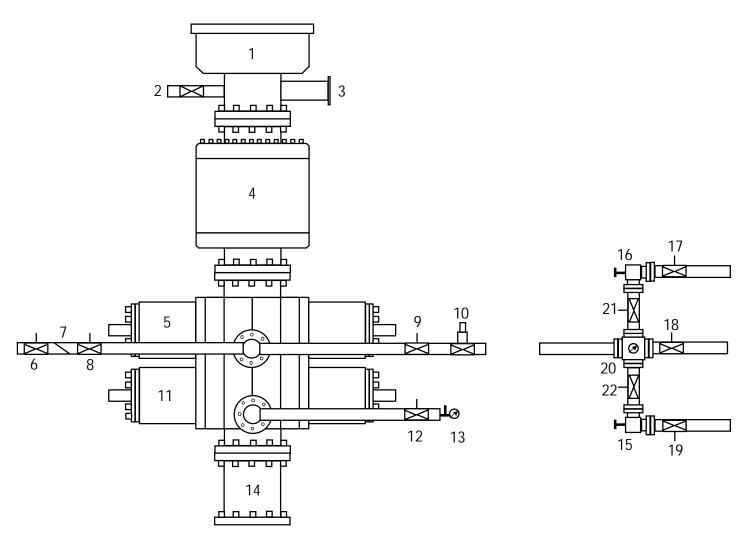
- The well will be stimulated with sand and water. The number of stages and amount of proppant used will be adjusted based on actual lateral length and real-time pumping conditions during the stimulation.
- Individual stages will be perforated on wireline and isolated using frac plugs or dissolvable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

8/21/2025 9:11:20



0.00

750.00

2170.17

4612.18

6032.35

6840.90

7799.36

18556.94

0.00

0.00

35.50

35.50

0.00

0.00

90.11

90.11

TVD

Imaging:

#### Allison Unit 631H ОН Plan #2

GL 6350' & RKB 25.1' @ 6375.10ft (Nabors B29)

PLAN DETAILS

+E/-W

0.00

0.00

-126.91

-549.32

-676.23

-676.23

10691.92

-65.65

Easting

Latitude Longitude 36.998687 -107.520671

**VSect** 

0.00

0.00

-43.75

-189.36

-233.11

-233.11 365.35

10908.44

Latitude

Dleg 0.00

0.00

2.50

0.00

2.50

0.00

9.40

0.00

Easting 591303.86

+N/-S

0.00

0.00

406.77

1760.64

2167.41

2167.41 2167.41

2162.62

Northing

**DESIGN TARGET DETAILS** 

Northing 2182941.58

 $\mathsf{TVD}$ 

0.00

750.00

2081.01

4068.99

5400.00

6208.55 6818.00

6798.00

+E/-W

Azi 0.000

0.000

342.672

342.672

0.000

0.000

90.000

90.051

+N/-S

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

04 System Datum: Mean Sea Level

Start 2442.02 hold at 2170.17 MD

Start Drop -2.50 Start 808.55 hold at 6032.35 MD

Start DLS 9.40 TFO 90.00 Start DLS 0.00 TFO 89.98

Annotation

Start Build 2.50

TD at 18556.94

Longitude



Plan: Plan #2 (Allison Unit 631H/OH)

Created By: Janie Collins

Azimuths to True North Magnetic North: 8.58°

> 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	6832.35	9 5/8"	9.62
6798.00	18556.94	5 1/2"	5.50

631H LP Re	v2 6818.00	2167.41 -65.	65 2185	108.76	591231	.10	37.00	04640	-107.5	20896											700.00 6200.00 6798.00	683	0.00 2.35 6.94	13 3/8 9 5/8 5 1/2	3"	13.3 9.62 5.50	2
0-			4500																								
$\pm$		ft/in	1					1											-			FORMA	TION TO	OP DE	TAILS		
1000	1000	(3000	3000												,	Allison L	Jnit 63	IH/OH/PI		TVDPat 2084.0 2150.0	0	MDPath 2173.84 2254.91	O KI	ormatic JO ALA IRTLAN	n AMO (S ID (SHA AND (sh	S) ALE +	coal)
2000	2000	orth(+)	1500	$\prod$	AU 6	31H LP	Rev2							ΑU	631H B	HL				2581.0 2950.0 3467.0 4900.0 5274.0	0 0 0	2784.35 3237.63 3872.70 5528.30 5906.29	PI LE Ci	ICTURI EWIS S LIFFHO ENEFE	ED CLIF SHALE OUSE	FFS (s	s)
3000	3000	uth(-)/N	1500	_							_ AU 630	0/631 Ha	rdline							5455.0 5974.0	0	6087.35 6606.35	P	OINT L ANCO	ΟΟΚΟΙ	JT	
	4000		1																								
4000	5000	_	1500																								
5000			-150	0	0	150	0	3000	45) 4 + ( )		6000		7500	900	00	10500	1	2000									
	- 6000							v	Vest(-)	/East	(+) (3	000 π	7in)														
-																			<u> </u>								_
6000	7000																										
7000	80000	9000	10000	11000		12000		13000	14000		15000		16000		17000	18000	/		ison Un		OH/Plar	n #2					
	AU 63	1H LP Rev2																AU 63	1H BHL								
						1 1 1																					



## Hilcorp Energy - San Juan Basin

San Juan, NM NAD27 Allison Unit 611H Pad Allison Unit 631H - Slot 04

OH

Plan: Plan #2

## **Standard Planning Report**

28 March, 2025





## Hilcorp

**Planning Report** 

TVD Reference:

MD Reference:

Database: Company: edm

Hilcorp Energy - San Juan Basin

**Local Co-ordinate Reference:** 

Well Allison Unit 631H - Slot 04

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

True

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

B29)

Project:

San Juan, NM NAD27

Allison Unit 611H Pad Site: Well: Allison Unit 631H

Wellbore: ОН Design: Plan #2 North Reference:

**Survey Calculation Method:** 

Minimum Curvature

Project

Map Zone:

San Juan, NM NAD27

Map System: Geo Datum:

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

New Mexico West 3003

System Datum:

Mean Sea Level

Allison Unit 611H Pad Site

Northing: 2,182,981.63 usft Site Position: Latitude: 36.998797 From: Lat/Long Easting: 591,305.19 usft Longitude: -107.520666

0.00 ft Slot Radius: 13.20 in **Position Uncertainty:** 

Well Allison Unit 631H - Slot 04

36.998687 **Well Position** +N/-S 0.00 ft 2,182,941.58 usft Latitude: Northing: +E/-W 0.00 ft Easting: 591,303.87 usft Longitude: -107.520671

**Position Uncertainty** 0.00 ft Wellhead Elevation: **Ground Level:** 6,350.00 ft

**Grid Convergence:** 0.19°

Plan #2

Wellbore ОН

Design

Sample Date Declination Dip Angle Field Strength Magnetics **Model Name** (nT) (°) (°) 5/30/2024 63.33 49.353.90000000 HDGM2024 8.58

Audit Notes: PLAN 0.00 Version: Phase: Tie On Depth:

Vertical Section: +N/-S Depth From (TVD) +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 78.565

**Plan Survey Tool Program** Date 3/26/2025

0.00

**Depth From** Depth To (ft) (ft) Survey (Wellbore) **Tool Name** 

> 18,556.94 Plan #2 (OH) MWD+HDGM

> > OWSG MWD + HDGM

Remarks



#### Planning Report



Database: Company:

Hilcorp

edm

Hilcorp Energy - San Juan Basin

San Juan, NM NAD27

Site:

Project:

Allison Unit 611H Pad

Well: Allison Unit 631H

Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference:

**Survey Calculation Method:** 

TVD Reference:

MD Reference:

North Reference:

Well Allison Unit 631H - Slot 04

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

B29)

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

B29) True

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	
2,170.17	35.50	342.672	2,081.01	406.77	-126.91	2.50	2.50	0.00	342.67	
4,612.18	35.50	342.672	4,068.99	1,760.64	-549.32	0.00	0.00	0.00	0.00	
6,032.35	0.00	0.000	5,400.00	2,167.41	-676.23	2.50	-2.50	0.00	180.00	
6,840.90	0.00	0.000	6,208.55	2,167.41	-676.23	0.00	0.00	0.00	0.00	
7,799.36	90.11	90.000	6,818.00	2,167.41	-65.65	9.40	9.40	9.39	90.00	AU 631H LP Rev2
18,556.94	90.11	90.051	6,798.00	2,162.62	10,691.92	0.00	0.00	0.00	89.98	AU 631H BHL

Planning Report



Hilcorp

Database: edm

Company: Hilcorp Energy - San Juan Basin

Project: San Juan, NM NAD27

Site: Allison Unit 611H Pad
Well: Allison Unit 631H

Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

**Survey Calculation Method:** 

Well Allison Unit 631H - Slot 04

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

B29)

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

B29) True

Planned Survey									
•			Voutical			Vertical	Domla ::	D:12	Treme
Measured			Vertical				Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100usft)	(°/100usft)	(°/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	342.672	800.00	0.52	-0.16	-0.06	2.50	2.50	0.00
900.00	3.75	342.672	899.89	4.68	-1.46	-0.50	2.50	2.50	0.00
1,000.00	6.25	342.672	999.50	13.00	-4.06	-1.40	2.50	2.50	0.00
1,100.00	8.75	342.672	1,098.64	25.46	-7.94	-2.74	2.50	2.50	0.00
1.200.00	11.25	342.672	1,197.11	42.04	-13.12	-4.52	2.50	2.50	0.00
1,300.00	13.75	342.672	1,294.74	62.70	-19.56	-6.74	2.50	2.50	0.00
1,400.00	16.25	342.672	1,391.32	87.40	-27.27	-9.40	2.50	2.50	0.00
1,500.00	18.75	342.672	1,486.69	116.11	-36.23	-12.49	2.50	2.50	0.00
1,600.00	21.25	342.672	1,580.65	148.75	-46.41	-16.00	2.50	2.50	0.00
1,700.00	23.75	342.672	1,673.03	185.28	-57.81	-19.93	2.50	2.50	0.00
1,800.00	26.25	342.672	1,763.65	225.62	-70.39	-24.27	2.50	2.50	0.00
1,900.00	28.75	342.672	1,852.35	269.70	-84.15	-29.01	2.50	2.50	0.00
2,000.00	31.25	342.672	1,938.94	317.43	-99.04	-34.14	2.50	2.50	0.00
2,100.00		342.672	2,023.27		-115.04	-39.66	2.50	2.50	
	33.75			368.71					0.00
2,170.17	35.50	342.672	2,081.01	406.77	-126.91	-43.75	2.50	2.50	0.00
2,200.00	35.50	342.672	2,105.30	423.31	-132.07	-45.53	0.00	0.00	0.00
2,300.00	35.50	342.672	2,186.70	478.75	-149.37	-51.49	0.00	0.00	0.00
2,400.00	35.50	342.672	2,268.11	534.19	-166.67	-57.45	0.00	0.00	0.00
2,500.00	35.50	342.672	2,349.52	589.63	-183.97	-63.42	0.00	0.00	0.00
2,600.00	35.50	342.672	2,430.93	645.07	-201.26	-69.38	0.00	0.00	0.00
2,700.00	35.50	342.672	2,512.33	700.51	-218.56	-75.34	0.00	0.00	0.00
2,800.00	35.50	342.672	2,593.74	755.96	-235.86	-81.31	0.00	0.00	0.00
2,900.00	35.50	342.672	2,675.15	811.40	-253.15	-87.27	0.00	0.00	0.00
3,000.00	35.50	342.672	2,756.55	866.84	-270.45	-93.23	0.00	0.00	0.00
3,100.00	35.50	342.672	2,837.96	922.28	-287.75	-99.19	0.00	0.00	0.00
3,200.00	35.50	342.672	2,919.37	977.72	-305.05	-105.16	0.00	0.00	0.00
3,300.00	35.50	342.672	3,000.78	1,033.16	-322.34	-111.12	0.00	0.00	0.00
3,400.00	35.50	342.672	3,082.18	1,088.60	-339.64	-117.08	0.00	0.00	0.00
3,500.00			3,163.59				0.00	0.00	
,	35.50	342.672	,	1,144.04	-356.94	-123.05			0.00
3,600.00	35.50	342.672	3,245.00	1,199.48	-374.24	-129.01	0.00	0.00	0.00
3,700.00	35.50	342.672	3,326.41	1,254.92	-391.53	-134.97	0.00	0.00	0.00
3,800.00	35.50	342.672	3,407.81	1,310.36	-408.83	-140.93	0.00	0.00	0.00
3,900.00	35.50	342.672	3,489.22	1,365.80	-426.13	-146.90	0.00	0.00	0.00
4,000.00	35.50	342.672	3,570.63	1,421.24	-443.43	-152.86	0.00	0.00	0.00
4,100.00	35.50	342.672	3,652.04	1,476.68	-460.72	-158.82	0.00	0.00	0.00
4,200.00	35.50	342.672	3,733.44	1,532.12	-478.02	-164.79	0.00	0.00	0.00
4,300.00	35.50	342.672	3,814.85	1,587.56	-495.32	-170.75	0.00	0.00	0.00
4,400.00	35.50	342.672	3,896.26	1,643.00	-512.62	-176.71	0.00	0.00	0.00
4,500.00	35.50	342.672	3,977.67	1,698.44	-529.91	-182.67	0.00	0.00	0.00
4,600.00	35.50	342.672	4,059.07	1,753.88	-547.21	-188.64	0.00	0.00	0.00
4,612.18	35.50	342.672	4,068.99	1,760.64	-549.32	-189.36	0.00	0.00	0.00
			1 111 11						0.00
4,700.00	33.31	342.672	4,141.44	1,808.00	-564.10	-194.46	2.50	-2.50	0.00
4,800.00	30.81	342.672	4,226.18	1,858.67	-579.90	-199.91	2.50	-2.50	0.00

Planning Report



Database: Company:

Hilcorp

edm

Hilcorp Energy - San Juan Basin

Project:

Design:

San Juan, NM NAD27 Allison Unit 611H Pad

Site: Well: Wellbore:

Allison Unit 631H ОН

Plan #2

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

**Survey Calculation Method:** 

North Reference:

Well Allison Unit 631H - Slot 04

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

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

B29) True

Planned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100usft)	(°/100usft)	(°/100usft)
4,900.00	28.31	342.672	4,313.16	1,905.76	-594.59	-204.97	2.50	-2.50	0.00
5,000.00	25.81	342.672	4,402.21	1,949.18	-608.14	-209.64	2.50	-2.50	0.00
5,100.00	23.31	342.672	4,493.16	1,988.85	-620.52	-213.91	2.50	-2.50	0.00
5,200.00	20.81	342.672	4,585.83	2,024.70	-631.71	-217.77	2.50	-2.50	0.00
5,300.00	18.31	342.672	4,680.05	2,056.66	-641.68	-221.20	2.50	-2.50	0.00
5,400.00	15.81	342.672	4,775.64	2,084.66	-650.41	-224.21	2.50	-2.50	0.00
5,500.00	13.31	342.672	4,872.42	2,108.65	-657.90	-226.79	2.50	-2.50	0.00
5,600.00	10.81	342.672	4,970.21	2,128.60	-664.12	-228.94	2.50	-2.50	0.00
5,700.00	8.31	342.672	5,068.81	2,144.45	-669.07	-230.64	2.50	-2.50	0.00
5,800.00	5.81	342.672	5,168.05	2,156.18	-672.73	-231.91	2.50	-2.50	0.00
5,900.00	3.31	342.672	5,267.72	2,163.76	-675.09	-232.72	2.50	-2.50	0.00
6,000.00	0.81	342.672	5,367.65	2,167.19	-676.16	-233.09	2.50	-2.50	0.00
6,032.35	0.00	0.000	5,400.00	2,167.19	-676.23	-233.09	2.50	-2.50 -2.50	0.00
6,100.00	0.00	0.000	5,467.65	2,167.41	-676.23	-233.11	0.00	0.00	0.00
6,200.00	0.00	0.000	5,567.65	2,167.41	-676.23	-233.11	0.00	0.00	0.00
6,300.00	0.00	0.000	5,667.65	2,167.41	-676.23	-233.11	0.00	0.00	0.00
6,400.00	0.00	0.000	5,767.65	2,167.41	-676.23	-233.11	0.00	0.00	0.00
6,500.00	0.00	0.000	5,867.65	2,167.41	-676.23	-233.11	0.00	0.00	0.00
6.600.00	0.00	0.000	5,967.65	2,167.41	-676.23	-233.11	0.00	0.00	0.00
6,700.00	0.00	0.000	6,067.65	2,167.41	-676.23	-233.11	0.00	0.00	0.00
6,800.00	0.00	0.000	6,167.65	2,167.41	-676.23	-233.11	0.00	0.00	0.00
6,840.90	0.00	0.000	6,208.55	2,167.41	-676.23	-233.11	0.00	0.00	0.00
6,900.00	5.56	90.000	6,267.56	2,167.41	-673.37	-230.31	9.40	9.40	0.00
7,000.00	14.96	90.000	6,365.85	2,167.41	-655.58	-212.87	9.40	9.40	0.00
7,100.00	24.36	90.000	6,459.92	2,167.41	-621.98	-212.67 -179.94	9.40	9.40	0.00
7,100.00	33.76	90.000	6,547.23	2,167.41	-573.46	-179.94	9.40	9.40	0.00
7,300.00	43.16	90.000	6,625.45	2,167.41	-573.40 -511.33	-71.49	9.40	9.40	0.00
7,400.00	52.56	90.000	6,692.46	2,167.41	-311.33 -437.26	1.11	9.40	9.40	0.00
7,500.00	61.96	90.000	6,746.48	2,167.41	-353.24	83.46	9.40	9.40	0.00
7,600.00	71.36	90.000	6,786.05	2,167.41	-261.53	173.36	9.40	9.40	0.00
7,700.00	80.77	90.000	6,810.10	2,167.41	-164.58	268.38	9.40	9.40	0.00
7,799.36	90.11	90.000	6,818.00	2,167.41	-65.65	365.35	9.40	9.40	0.00
7,800.00	90.11	90.000	6,818.00	2,167.41	-65.00	365.98	0.00	0.00	0.00
7,900.00	90.11	90.001	6,817.81	2,167.41	35.00	464.00	0.00	0.00	0.00
8,000.00	90.11	90.001	6,817.63	2,167.41	135.00	562.01	0.00	0.00	0.00
8,100.00	90.11	90.002	6,817.44	2,167.40	235.00	660.03	0.00	0.00	0.00
8,200.00	90.11	90.002	6,817.26	2,167.40	335.00	758.04	0.00	0.00	0.00
8,300.00	90.11	90.003	6,817.07	2,167.40	435.00	856.05	0.00	0.00	0.00
8,400.00	90.11	90.003	6,816.88	2,167.39	535.00	954.07	0.00	0.00	0.00
,			6,816.88	,					
8,500.00 8,600.00	90.11 90.11	90.003 90.004	6,816.70	2,167.39 2,167.38	635.00 735.00	1,052.08 1,150.10	0.00 0.00	0.00 0.00	0.00 0.00
8,700.00	90.11	90.004	6,816.33	,	735.00 835.00	1,150.10	0.00	0.00	0.00
8,800.00	90.11	90.004	6,816.14	2,167.37 2,167.36	935.00	1,248.11	0.00	0.00	0.00
8,900.00	90.11	90.005	6,815.95	2,167.36	1,035.00	1,444.14	0.00	0.00	0.00
9,000.00	90.11	90.006	6,815.77	2,167.35	1,135.00	1,542.15	0.00	0.00	0.00
9,100.00	90.11	90.006	6,815.58	2,167.34	1,235.00	1,640.16	0.00	0.00	0.00
9,200.00	90.11	90.007	6,815.40	2,167.32	1,335.00	1,738.17	0.00	0.00	0.00
9,300.00	90.11	90.007	6,815.21	2,167.31	1,435.00	1,836.19	0.00	0.00	0.00
9,400.00	90.11	90.008	6,815.02	2,167.30	1,535.00	1,934.20	0.00	0.00	0.00
9,500.00	90.11	90.008	6,814.84	2,167.28	1,635.00	2,032.21	0.00	0.00	0.00
9.600.00	90.11	90.009	6,814.65	2,167.27	1,734.99	2,130.22	0.00	0.00	0.00
9,700.00	90.11	90.009	6,814.47	2,167.25	1,734.99	2,130.22	0.00	0.00	0.00

Planning Report



Database: Company:

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edm

Hilcorp Energy - San Juan Basin

Project:

San Juan, NM NAD27

Site: Allison Unit 611H Pad
Well: Allison Unit 631H

Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference:

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North Reference:

**Survey Calculation Method:** 

Well Allison Unit 631H - Slot 04

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

B29)

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

B29) True

ned 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	90.11	90.010	6,814.28	2,167.24	1,934.99	2,326.25	0.00	0.00	0.00
9,900.00	90.11	90.010	6,814.10	2,167.22	2,034.99	2,424.26	0.00	0.00	0.00
10,000.00	90.11	90.011	6,813.91	2,167.20	2,134.99	2,522.27	0.00	0.00	0.00
10,100.00	90.11	90.011	6,813.72	2,167.18	2,234.99	2,620.28	0.00	0.00	0.00
10,200.00	90.11	90.011	6,813.54	2,167.16	2,334.99	2,718.29	0.00	0.00	0.00
10,300.00	90.11	90.012	6,813.35	2,167.14	2,434.99	2,816.30	0.00	0.00	0.00
10,400.00	90.11	90.012	6,813.17	2,167.12	2,534.99	2,914.31	0.00	0.00	0.00
10,500.00	90.11	90.012	6,812.98	2,167.12	2,634.99	3,012.32	0.00	0.00	0.00
10,600.00	90.11	90.013	6,812.79	2,167.10	2,734.99	3,110.33	0.00	0.00	0.00
10,700.00	90.11	90.013	6,812.61	2,167.05	2,734.99	3,208.34	0.00	0.00	0.00
10,800.00	90.11	90.014	6,812.42	2,167.03	2,034.99	3,306.35	0.00	0.00	0.00
10,900.00	90.11	90.015	6,812.24	2,167.00	3,034.99	3,404.36	0.00	0.00	0.00
11,000.00	90.11	90.015	6,812.05	2,166.98	3,134.99	3,502.37	0.00	0.00	0.00
11,100.00	90.11	90.016	6,811.86	2,166.95	3,234.99	3,600.38	0.00	0.00	0.00
11,200.00	90.11	90.016	6,811.68	2,166.92	3,334.99	3,698.39	0.00	0.00	0.00
11,300.00	90.11	90.017	6,811.49	2,166.90	3,434.99	3,796.40	0.00	0.00	0.00
11,400.00	90.11	90.017	6,811.31	2,166.87	3,534.99	3,894.41	0.00	0.00	0.00
11,500.00	90.11	90.018	6,811.12	2,166.84	3,634.99	3,992.42	0.00	0.00	0.00
11,600.00	90.11	90.018	6.810.93	2,166.80	3,734.99	4,090.43	0.00	0.00	0.00
11,700.00	90.11	90.019	6,810.75	2,166.77	3,834.99	4,188.44	0.00	0.00	0.00
11,800.00	90.11	90.019	6,810.56	2,166.74	3,934.99	4,286.45	0.00	0.00	0.00
11,900.00	90.11	90.019	6,810.38	2.166.71	4,034.99	4,384.45	0.00	0.00	0.00
12,000.00	90.11	90.020	6,810.19	2,166.67	4,134.99	4,482.46	0.00	0.00	0.00
12,100.00	90.11	90.020	6,810.01	2,166.64	4,234.99	4,580.47	0.00	0.00	0.00
12,100.00	90.11	90.020	6,809.82	2,166.60	4,234.99	4,678.48	0.00	0.00	0.00
12,300.00	90.11	90.021	6,809.63	2,166.56	4,434.99	4,776.49	0.00	0.00	0.00
12,400.00	90.11	90.022	6,809.45	2,166.53	4,534.99	4,874.49	0.00	0.00	0.00
12,500.00	90.11	90.022	6,809.26	2,166.49	4,634.99	4,972.50	0.00	0.00	0.00
12,600.00	90.11	90.023	6,809.08	2,166.45	4,734.99	5,070.51	0.00	0.00	0.00
12,700.00	90.11	90.023	6,808.89	2,166.41	4,834.99	5,168.52	0.00	0.00	0.00
12,800.00	90.11	90.024	6,808.70	2,166.37	4,934.99	5,266.52	0.00	0.00	0.00
12,900.00	90.11	90.024	6,808.52	2,166.32	5,034.99	5,364.53	0.00	0.00	0.00
13,000.00	90.11	90.025	6,808.33	2,166.28	5,134.99	5,462.53	0.00	0.00	0.00
13,100.00	90.11	90.025	6,808.15	2,166.24	5,234.99	5,560.54	0.00	0.00	0.00
13,200.00	90.11	90.026	6,807.96	2,166.19	5,334.99	5,658.55	0.00	0.00	0.00
13,300.00	90.11	90.026	6,807.77	2,166.15	5,434.99	5,756.55	0.00	0.00	0.00
13,400.00	90.11	90.027	6,807.59	2,166.10	5.534.99	5,854.56	0.00	0.00	0.00
13,500.00	90.11	90.027	6,807.40	2,166.06	5,634.99	5,952.56	0.00	0.00	0.00
13,600.00	90.11	90.027	6,807.22	2,166.01	5,734.99	6,050.57	0.00	0.00	0.00
13,700.00	90.11	90.028	6,807.03	2,165.96	5,834.99	6,148.58	0.00	0.00	0.00
13,800.00	90.11	90.028	6,806.84	2,165.91	5,934.99	6,246.58	0.00	0.00	0.00
13,900.00	90.11	90.029	6,806.66	2,165.86	6,034.99	6,344.59	0.00	0.00	0.00
14,000.00	90.11	90.029	6,806.47	2,165.81	6,134.99	6,442.59	0.00	0.00	0.00
14,100.00	90.11	90.030	6,806.29	2,165.76	6,234.99	6,540.60	0.00	0.00	0.00
14,200.00	90.11	90.030	6,806.10	2,165.71	6,334.99	6,638.60	0.00	0.00	0.00
14,300.00	90.11	90.031	6,805.91	2,165.65	6,434.99	6,736.60	0.00	0.00	0.00
14,400.00	90.11	90.031	6,805.73	2,165.60	6,534.99	6,834.61	0.00	0.00	0.00
14,500.00	90.11	90.032	6,805.54	2,165.54	6,634.99	6,932.61	0.00	0.00	0.00
14,600.00	90.11	90.032	6,805.36	2,165.49	6,734.99	7,030.62	0.00	0.00	0.00
14,700.00	90.11	90.033	6,805.17	2,165.43	6,834.99	7,128.62	0.00	0.00	0.00
14,800.00	90.11	90.033	6,804.99	2,165.37	6,934.99	7,226.62	0.00	0.00	0.00
14,900.00	90.11	90.034	6,804.80	2,165.32	7,034.99	7,324.63	0.00	0.00	0.00

Planning Report



Database: Company:

Hilcorp

edm

Hilcorp Energy - San Juan Basin

Project:

San Juan, NM NAD27

Site: Allison Unit 611H Pad
Well: Allison Unit 631H

Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

**Survey Calculation Method:** 

Well Allison Unit 631H - Slot 04

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

B29)

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

B29) True

ed Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100usft)	(°/100usft)	(°/100usft)
15,000.00	90.11	90.034	6,804.61	2,165.26	7,134.99	7,422.63	0.00	0.00	0.00
15,100.00	90.11	90.035	6,804.43	2,165.20	7,234.99	7,520.63	0.00	0.00	0.00
15,200.00	90.11	90.035	6,804.24	2,165.14	7,334.98	7,618.64	0.00	0.00	0.00
15,300.00	90.11	90.035	6,804.06	2,165.08	7,434.98	7,716.64	0.00	0.00	0.00
15,400.00	90.11	90.036	6,803.87	2,165.01	7,534.98	7,814.64	0.00	0.00	0.00
15,500.00	90.11	90.036	6,803.68	2,164.95	7,634.98	7,912.64	0.00	0.00	0.00
15,600.00	90.11	90.037	6,803.50	2,164.89	7,734.98	8,010.65	0.00	0.00	0.00
15,700.00	90.11	90.037	6,803.31	2,164.82	7,834.98	8,108.65	0.00	0.00	0.00
15,800.00	90.11	90.038	6,803.13	2,164.75	7,934.98	8,206.65	0.00	0.00	0.00
15,900.00	90.11	90.038	6,802.94	2,164.69	8,034.98	8,304.65	0.00	0.00	0.00
16,000.00	90.11	90.039	6,802.75	2,164.62	8,134.98	8,402.65	0.00	0.00	0.00
16,100.00	90.11	90.039	6,802.57	2,164.55	8,234.98	8,500.65	0.00	0.00	0.00
16,200.00	90.11	90.040	6,802.38	2,164.48	8,334.98	8,598.66	0.00	0.00	0.00
16,300.00	90.11	90.040	6,802.20	2,164.41	8,434.98	8,696.66	0.00	0.00	0.00
16,400.00	90.11	90.041	6,802.01	2,164.34	8,534.98	8,794.66	0.00	0.00	0.00
16,500.00	90.11	90.041	6,801.82	2,164.27	8,634.98	8,892.66	0.00	0.00	0.00
16,600.00	90.11	90.042	6,801.64	2,164.20	8,734.98	8,990.66	0.00	0.00	0.00
16,700.00	90.11	90.042	6,801.45	2,164.13	8,834.98	9,088.66	0.00	0.00	0.00
16,800.00	90.11	90.043	6,801.27	2,164.05	8,934.98	9,186.66	0.00	0.00	0.00
16,900.00	90.11	90.043	6,801.08	2,163.98	9,034.98	9,284.66	0.00	0.00	0.00
17,000.00	90.11	90.043	6,800.89	2,163.90	9,134.98	9,382.66	0.00	0.00	0.00
17,100.00	90.11	90.044	6,800.71	2,163.83	9,234.98	9,480.66	0.00	0.00	0.00
17,200.00	90.11	90.044	6,800.52	2,163.75	9,334.98	9,578.66	0.00	0.00	0.00
17,300.00	90.11	90.045	6,800.34	2,163.67	9,434.98	9,676.66	0.00	0.00	0.00
17,400.00	90.11	90.045	6,800.15	2,163.59	9,534.98	9,774.66	0.00	0.00	0.00
17,500.00	90.11	90.046	6,799.97	2,163.51	9,634.98	9,872.66	0.00	0.00	0.00
17,600.00	90.11	90.046	6,799.78	2,163.43	9,734.98	9,970.66	0.00	0.00	0.00
17,700.00	90.11	90.047	6,799.59	2,163.35	9,834.98	10,068.66	0.00	0.00	0.00
17,800.00	90.11	90.047	6,799.41	2,163.27	9,934.98	10,166.65	0.00	0.00	0.00
17,900.00	90.11	90.048	6,799.22	2,163.19	10,034.98	10,264.65	0.00	0.00	0.00
18,000.00	90.11	90.048	6,799.04	2,163.10	10,134.98	10,362.65	0.00	0.00	0.00
18,100.00	90.11	90.049	6,798.85	2,163.02	10,234.98	10,460.65	0.00	0.00	0.00
18,200.00	90.11	90.049	6,798.66	2,162.93	10,334.98	10,558.65	0.00	0.00	0.00
18,300.00	90.11	90.050	6,798.48	2,162.85	10,434.98	10,656.64	0.00	0.00	0.00
18,400.00	90.11	90.050	6,798.29	2,162.76	10,534.98	10,754.64	0.00	0.00	0.00
18,500.00	90.11	90.051	6,798.11	2,162.67	10,634.98	10,852.64	0.00	0.00	0.00
18,556.94	90.11	90.051	6,798.00	2,162.62	10,691.92	10,908.44	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 631H BHL - plan hits target cente - Point	0.00 er	0.000	6,798.00	2,162.62	10,691.92	2,185,139.30	601,988.60	37.004622	-107.484055
AU 631H LP Rev2 - plan hits target cente - Point	0.00 er	0.000	6,818.00	2,167.41	-65.65	2,185,108.76	591,231.10	37.004640	-107.520896



#### Planning Report



Database: Company:

Hilcorp

edm

Hilcorp Energy - San Juan Basin

Local Co-ordinate Reference: TVD Reference:

Well Allison Unit 631H - Slot 04

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

GL 6350' & RKB 25.1' @ 6375.10ft (Nabors MD Reference:

B29)

True

Project: Site:

Well:

San Juan, NM NAD27

Allison Unit 611H Pad Allison Unit 631H

North Reference: **Survey Calculation Method:** 

Minimum Curvature

Wellbore: ОН Design: Plan #2

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	
	6,832.35	6,200.00	9 5/8"		9.62	12.25	
	18,556.94	6,798.00	5 1/2"		5.50	8.50	

Formations							
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	2,173.84	2,084.00	OJO ALAMO (SS)		0.00	0.000	
	2,254.91	2,150.00	KIRTLAND (SHALE + coal)		0.00	0.000	
	2,784.35	2,581.00	FRUITLAND (shale + COAL)		0.00	0.000	
	3,237.63	2,950.00	PICTURED CLIFFS (ss)		0.00	0.000	
	3,872.70	3,467.00	LEWIS SHALE		0.00	0.000	
	5,528.30	4,900.00	CLIFFHOUSE		0.00	0.000	
	5,906.29	5,274.00	MENEFEE		0.00	0.000	
	6,087.35	5,455.00	POINT LOOKOUT		0.00	0.000	
	6,606.35	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 <a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

CONDITIONS

Action 498077

#### **CONDITIONS**

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	498077
	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