

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Hilcorp Energy Company 382 Road 3100 Aztec, NM 87410		² OGRID Number 372171
		³ Reason for Filing Code/ Effective Date Test Allowable - RT
⁴ API Number 30-045-35611	⁵ Pool Name Basin Fruitland Coal	
⁶ Pool Code 71629		
⁷ Property Code 318864	⁸ Property Name Allison Unit	
⁹ Well Number 123H		

II. ¹⁰ Surface Location

Ul or lot no. I	Section 09	Township 32N	Range 07W	Lot Idn 10	Feet from the 1591	North/South Line South	Feet from the 776	East/West Line East	County San Juan
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¹¹ Bottom Hole Location

UL or lot no. (Lat 1) E	Section 11	Township 32N	Range 07W	Lot Idn 4	Feet from the 677	North/South Line North	Feet from the 663	East/West Line West	County San Juan
(ST 1) L	11	32N	07W		2711	South	1328	West	San Juan
NEW (Lat 2) L	10	32N	07W	7	1996	South	558	West	San Juan
NEW (ST 2) L	10	32N	07W	7	1883	South	254	West	San Juan
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
248440	Western Refinery	O
151618	Enterprise	G

IV. Well Completion Data

²¹ Spud Date 5/22/2018	²² Ready Date ~ 11/10/2023	²³ TD LAT 1: MD 9647'/TVD 3208' LAT 1 ST 1: MD 10,150'/TVD 3223' NEW LAT 2: MD 4016'/TVD 3131' NEW LAT 2 ST 1: MD 3710'/TVD 3135'	²⁴ PBTD LAT 1: MD 9629'/TVD 3209' LAT 1 ST 1: MD 7846'/TVD 3236' NEW LAT 2: MD 4016'/TVD 3131' NEW LAT 2 ST 1: MD 3710'/TVD 3135'	²⁵ Perforations LAT 1 MD: 4541'-9629'/TVD: 3268'-3209' LAT 1 ST 1 MD: 4454'-10,150'/TVD: 3271'-3223' NEW LAT 2: Open Hole NEW LAT 2 ST 1: Open Hole	²⁶ DHC, MC NSP 2175
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
12-1/4"	9-5/8", 32.3#, H-40	516.5'	280 sx (331 cf)		
8-3/4"	7", 23#, L-80	3899'	485 sx (1033 cf)		
LAT 1: 6-1/4"	4-1/2", 11.6#, N-80	TOL 4541' BOL 9630'			
LAT ST 1: 6-1/4"	4-1/2", 11.6#, N-80	TOL 3606' BOL 7847'			
NEW LAT 2:	Open Hole	N/A			
NEW LAT 2 ST 1:	Open Hole	N/A			

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date ~ 11/10/2023	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 			OIL CONSERVATION DIVISION		
Printed name: Amanda Walker			Approved by: Sarah McGrath		
Title: Operations Regulatory Tech Sr.			Title: Petroleum Specialist - A		
E-mail Address: mwalker@hilcorp.com			Approval Date: 11/09/2023		
Date: 11/9/2023		Phone: 346.237.2177		RT Expires 02/08/2024	

Mandi Walker

From: Rennick, Kenneth G <krennick@blm.gov>
Sent: Wednesday, November 1, 2023 6:02 PM
To: Scott Anderson; Kuehling, Monica, EMNRD; Rikala, Ward, EMNRD; Kade, Matthew H
Cc: Clay Padgett; JP Knox; Mandi Walker; Priscilla Shorty; Ben Mitchell; Christian Zuvich;
Cameron Garrett; Amanda Atencio; Craig Lingo; Chris Tomlinson; Luke Keller
Subject: Re: [EXTERNAL] Hilcorp: Allison Unit 123H (API: 3004535611) - Sidetrack

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

Thank you for the information, Scott. Considering that there are no significant changes to the approved notice of work and all work is in the Fruitland, noting the collapse in the subsequent report is indeed all the BLM will require.

Thank you, again!

Kenny Rennick

Kenneth (Kenny) Rennick

Petroleum Engineer

Bureau of Land Management
Farmington Field Office
6251 College Blvd
Farmington, NM 87402

Email: krennick@blm.gov
Mobile & Text: 505.497.0019

From: Scott Anderson <sanderson@hilcorp.com>
Sent: Wednesday, November 1, 2023 2:37 PM
To: Kuehling, Monica, EMNRD <monica.kuehling@state.nm.us>; Rennick, Kenneth G <krennick@blm.gov>; Rikala, Ward, EMNRD <Ward.Rikala@emnrn.nm.gov>; Kade, Matthew H <mkade@blm.gov>
Cc: Clay Padgett <cpadgett@hilcorp.com>; JP Knox <jknox@hilcorp.com>; Mandi Walker <mwalker@hilcorp.com>; Priscilla Shorty <pshorty@hilcorp.com>; Ben Mitchell <bemitchell@hilcorp.com>; Christian Zuvich <Christian.Zuvich@hilcorp.com>; Cameron Garrett <cgarrett@hilcorp.com>; Amanda Atencio <Amanda.Atencio@hilcorp.com>; Craig Lingo <clingo@hilcorp.com>; Chris Tomlinson <ctomlinson@hilcorp.com>; Luke Keller <lkeller@hilcorp.com>
Subject: [EXTERNAL] Hilcorp: Allison Unit 123H (API: 3004535611) - Sidetrack

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Monica, Kenny, Matthew – As a heads up, we started drilling the sidetrack on 10/29, however tripped for a new BHA and found the hole collapsed at 3440', roughly 400-500 feet above our current TD, when we got back in the sidetrack. The window is still fully intact and the upper part of the sidetrack was not affected. We are currently redrilling the hole following the very near to the original plan. This information will be included in the subsequent.

Scott Anderson
San Juan North – Operations Engineer
Hilcorp Energy Company
W: 713-289-2772
C: 248-761-3965

The information contained in this email message is confidential and may be legally privileged and is intended only for the use of the individual or entity named above. If you are not an intended recipient or if you have received this message in error, you are hereby notified that any dissemination, distribution, or copy of this email is strictly prohibited. If you have received this email in error, please immediately notify us by return email or telephone if the sender's phone number is listed above, then promptly and permanently delete this message.

While all reasonable care has been taken to avoid the transmission of viruses, it is the responsibility of the recipient to ensure that the onward transmission, opening, or use of this message and any attachments will not adversely affect its systems or data. No responsibility is accepted by the company in this regard and the recipient should carry out such virus and other checks as it considers appropriate.

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From: Rennick, Kenneth G <krennick@blm.gov>
Sent: Wednesday, November 8, 2023 2:37 PM
To: Kuehling, Monica, EMNRD; Scott Anderson; Rikala, Ward, EMNRD; Kade, Matthew H
Cc: Clay Padgett; JP Knox; Mandi Walker; Priscilla Shorty; Ben Mitchell; Christian Zuvich;
Cameron Garrett; Amanda Atencio; Craig Lingo; Chris Tomlinson; Luke Keller
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Thank you for the information, Scott.

Kenny Rennick

Kenneth (Kenny) Rennick

Petroleum Engineer

Bureau of Land Management
Farmington Field Office
6251 College Blvd
Farmington, NM 87402

Email: krennick@blm.gov
Mobile & Text: 505.497.0019

From: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Sent: Wednesday, November 8, 2023 1:22 PM
To: Scott Anderson <sanderson@hilcorp.com>; Rennick, Kenneth G <krennick@blm.gov>; Rikala, Ward, EMNRD <Ward.Rikala@emnrd.nm.gov>; Kade, Matthew H <mkade@blm.gov>
Cc: Clay Padgett <cpadgett@hilcorp.com>; JP Knox <jknox@hilcorp.com>; Mandi Walker <mwalker@hilcorp.com>; Priscilla Shorty <pshorty@hilcorp.com>; Ben Mitchell <bemitchell@hilcorp.com>; Christian Zuvich <Christian.Zuvich@hilcorp.com>; Cameron Garrett <cgarrett@hilcorp.com>; Amanda Atencio <Amanda.Atencio@hilcorp.com>; Craig Lingo <clingo@hilcorp.com>; Chris Tomlinson <ctomlinson@hilcorp.com>; Luke Keller <lkeller@hilcorp.com>
Subject: RE: [EXTERNAL] RE: Hilcorp: Allison Unit 123H (API: 3004535611) - Sidetrack

Thank you

From: Scott Anderson <sanderson@hilcorp.com>
Sent: Wednesday, November 8, 2023 1:19 PM
To: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>; Rennick, Kenneth G <krennick@blm.gov>; Rikala, Ward, EMNRD <Ward.Rikala@emnrd.nm.gov>; mkade@blm.gov

Cc: Clay Padgett <cpadgett@hilcorp.com>; JP Knox <jknox@hilcorp.com>; Mandi Walker <mwalker@hilcorp.com>; Priscilla Shorty <pshorty@hilcorp.com>; Ben Mitchell <bemitchell@hilcorp.com>; Christian Zuvich <Christian.Zuvich@hilcorp.com>; Cameron Garrett <cgarrett@hilcorp.com>; Amanda Atencio <Amanda.Atencio@hilcorp.com>; Craig Lingo <clingo@hilcorp.com>; Chris Tomlinson <ctomlinson@hilcorp.com>; Luke Keller <lkeller@hilcorp.com>
 Subject: RE: [EXTERNAL] RE: Hilcorp: Allison Unit 123H (API: 3004535611) - Sidetrack

Monica, Kenny, Ward and Matthew – Attached is the latest WBD on the Allison 123H. Below is a summary of what we encountered with the drilling rig:

- Set whipstock on RBP at 3071'
- Milled window f/ 3055-3063'
- Drilled 6-1/4" hole with steerable PDC to 3045', weight up to 8.4ppg, reamed and milled to 3068'
- Drilled to 3589', seeing losses up to 75 bph, backreamed thru hi-torque section, losses increased to 160 bph
- KO air, drilled to 3987', losses at 175 bph, weight up to 9ppg
- Backreamed to 3550', stuck pipe at 3547, freed up
- Backreamed to 3245', losses at 70 bph, added bicarb+Soltex in sweeps
- Reamed down to 3440', TOOH
- RIH w/ 6-1/4" bit + slick assy, hard tag at 3440', TOOH – **ORIGINAL HOLE LOST**
- RIH w/ 6-1/4" steerable PDC, tagged at 3380', washed and reamed to 3440'
- Drilled to 3710', weight up to 9ppg - SIDETRACK
- Backreamed to 3276', packing off, weight up to 9.15ppg
- Reamed to 3538'
- Backreamed to 3301'
- Reamed to 3987' – **FOUND ORIGINAL HOLE**
- Drilled to 4016', stopped making hole, TOOH – **LOST MUD MOTOR (PARTIAL) + PDC BIT**
- RIH w/ fishing tools, tagged 3710' – **IN SIDETRACK HOLE**
- Pulled whipstock

Scott Anderson
 San Juan North – Operations Engineer
 Hilcorp Energy Company
 W: 713-289-2772
 C: 248-761-3965

From: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>

Sent: Friday, November 3, 2023 10:56 AM

To: Scott Anderson <sanderson@hilcorp.com>; Rennick, Kenneth G <krennick@blm.gov>; Rikala, Ward, EMNRD <Ward.Rikala@emnrd.nm.gov>; mkade@blm.gov

Cc: Clay Padgett <cpadgett@hilcorp.com>; JP Knox <jknox@hilcorp.com>; Mandi Walker <mwalker@hilcorp.com>; Priscilla Shorty <pshorty@hilcorp.com>; Ben Mitchell <bemitchell@hilcorp.com>; Christian Zuvich <Christian.Zuvich@hilcorp.com>; Cameron Garrett <cgarrett@hilcorp.com>; Amanda Atencio <Amanda.Atencio@hilcorp.com>; Craig Lingo <clingo@hilcorp.com>; Chris Tomlinson <ctomlinson@hilcorp.com>; Luke Keller <lkeller@hilcorp.com>

Subject: RE: [EXTERNAL] RE: Hilcorp: Allison Unit 123H (API: 3004535611) - Sidetrack

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Scott

Please send an updated schematic before continuing. – include detailed information on what has been done so far.

Thank you

Monica Kuehling
Compliance Officer Supervisor
Deputy Oil and Gas Inspector
New Mexico Oil Conservation Division
North District
Office Phone: 505-334-6178 ext. 123
Cell Phone: 505-320-0243
Email - monica.kuehling@emnrd.nm.gov

From: Scott Anderson <sanderson@hilcorp.com>
Sent: Friday, November 3, 2023 9:42 AM
To: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>; Rennick, Kenneth G <krennick@blm.gov>; Rikala, Ward, EMNRD <Ward.Rikala@emnrd.nm.gov>; mkade@blm.gov
Cc: Clay Padgett <cpadgett@hilcorp.com>; JP Knox <jknox@hilcorp.com>; Mandi Walker <mwalker@hilcorp.com>; Priscilla Shorty <pshorty@hilcorp.com>; Ben Mitchell <bemitchell@hilcorp.com>; Christian Zuvich <Christian.Zuvich@hilcorp.com>; Cameron Garrett <cgarrett@hilcorp.com>; Amanda Atencio <Amanda.Atencio@hilcorp.com>; Craig Lingo <clingo@hilcorp.com>; Chris Tomlinson <ctomlinson@hilcorp.com>; Luke Keller <lkeller@hilcorp.com>
Subject: [EXTERNAL] RE: Hilcorp: Allison Unit 123H (API: 3004535611) - Sidetrack

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Monica, Kenny, Matthew – Here is another update on the Allison 123H sidetrack. We lost the motor and bit off the drilling assembly yesterday. We made an attempt to fish the tools out, but were not successful as a result of hole collapse. I can provide the full list of what was left downhole if you would like, however, we will plan to provide it in the final sundry. In addition, given the issues we have had so far with trying to stabilize the hole we are going to abandon this attempt to reach our planned TD, leave what we were able to drill of the upper lateral as an open hole completion, and return the well to production in the upper and lower laterals. Thank you!

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San Juan North – Operations Engineer
Hilcorp Energy Company
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To: Kuehling, Monica, EMNRD <monica.kuehling@state.nm.us>; Rennick, Kenneth G <krennick@blm.gov>; Rikala, Ward, EMNRD <Ward.Rikala@emnrd.nm.gov>; mkade@blm.gov
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DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT
☒ AS-DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35611	² Pool Code 71629	³ Pool Name BASIN FRUITLAND COAL LATERAL #2
⁴ Property Code 318864	⁵ Property Name ALLISON UNIT	⁶ Well Number 123H
⁷ GRID No. 372171	⁸ Operator Name HILCORP ENERGY COMPANY	⁹ Elevation 6629'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	9	32-N	7-W	10	1591	SOUTH	776	EAST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

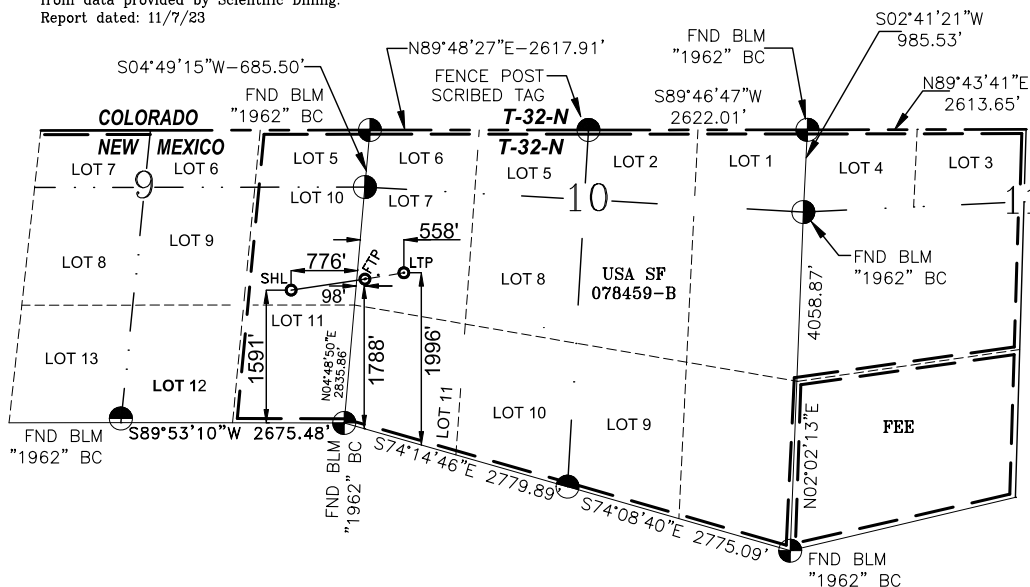
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	10	32-N	7-W	7	1996	SOUTH	558	WEST	SAN JUAN
¹² Dedicated Acres FC = 759.40 ACRES			¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No. NSP - 2175		

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16

NOTE:
Horizontal drill calculation were computed
from data provided by Scientific Dilling.
Report dated: 11/7/23

FIRST TAKE BORE: N81°33'03"E - 893.50'
LATERAL #2 BORE: N80°42'44"E - 472.95'



SURFACE HOLE LOCATION (SHL)
1591' FSL 776' FEL SEC. 9
LATITUDE: 36.994741° N
LONGITUDE: 107.565072° W
NAD27

LATITUDE: 36.994746° N
LONGITUDE: 107.565681° W
NAD83

FIRST TAKE POINT (FTP)
1788' FSL 98' FWL SEC. 10
LATITUDE: 36.995095° N
LONGITUDE: 107.562044° W
NAD27

LATITUDE: 36.995099° N
LONGITUDE: 107.562653° W
NAD83

LAST TAKE POINT (LTP)/BH
1996' FSL 558' FWL SEC. 10
LATITUDE: 36.995301° N
LONGITUDE: 107.560445° W
NAD27

LATITUDE: 36.995305° N
LONGITUDE: 107.561054° W
NAD83

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and 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 such a mineral or a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

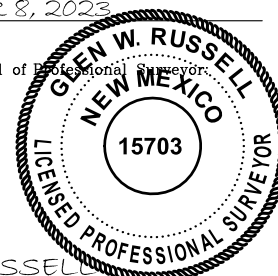
Amanda Walker 11/09/2023
Signature Date
Amanda Walker
Printed Name
mwalker@hilcorp.com
E-mail Address

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

NOVEMBER 8, 2023
Date of Survey

Signature and Seal of Professional Surveyor



GLEN W. RUSSELL
Certificate Number 15703

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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⁴ Property Code 318864	⁵ Property Name ALLISON UNIT	⁶ Well Number 123H
⁷ GRID No. 372171	⁸ Operator Name HILCORP ENERGY COMPANY	⁹ Elevation 6629'

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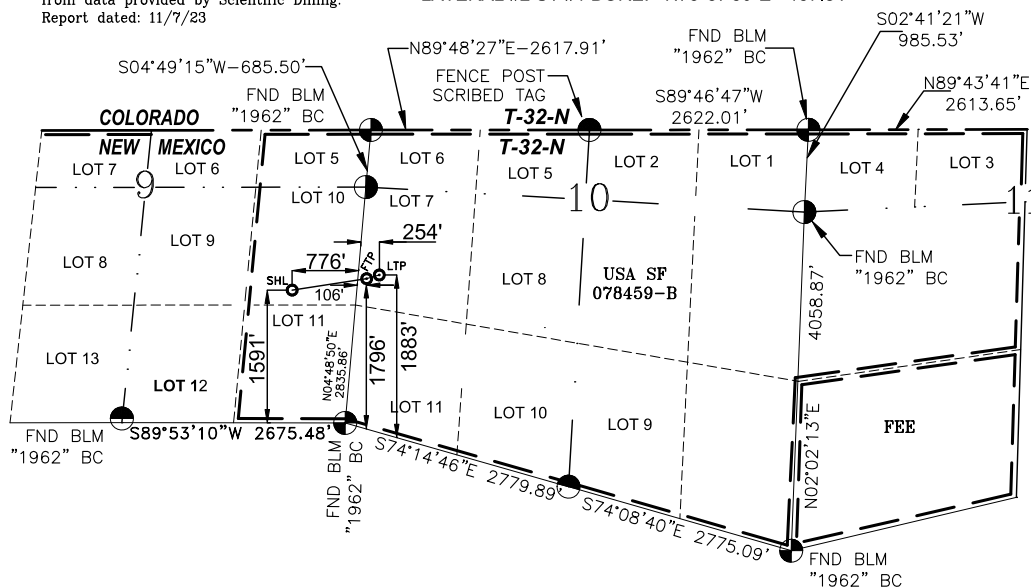
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OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16

NOTE:
Horizontal drill calculation were computed
from data provided by Scientific Dilling.
Report dated: 11/7/23

FIRST TAKE BORE: N81°17'27"E - 903.26'
LATERAL #2 ST #1 BORE: N73°37'50"E - 157.84'



SURFACE HOLE LOCATION (SHL)
1591' FSL 776' FEL SEC. 9
LATITUDE: 36.994741° N
LONGITUDE: 107.565072° W
NAD27

LATITUDE: 36.994746° N
LONGITUDE: 107.565681° W
NAD83

FIRST TAKE POINT (FTP)
1796' FSL 106' FWL SEC. 10
LATITUDE: 36.995110° N
LONGITUDE: 107.562013° W
NAD27

LATITUDE: 36.995114° N
LONGITUDE: 107.562622° W
NAD83

LAST TAKE POINT (LTP)/BH
1883' FSL 254' FWL SEC. 10
LATITUDE: 36.995231° N
LONGITUDE: 107.561494° W
NAD27

LATITUDE: 36.995235° N
LONGITUDE: 107.562103° W
NAD83

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and 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 such a mineral or a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

A Walker 11/09/2023
Signature Date
Amanda Walker
Printed Name
mwalker@hilcorp.com
E-mail Address

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

NOVEMBER 8, 2023
Date of Survey

Signature and Seal of Professional Surveyor
GLEN W. RUSSELL
NEW MEXICO
15703
LICENSED PROFESSIONAL SURVEYOR
Certificate Number 15703



Survey Certification

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

Operator	HilCorp
Well Name & No.	Allison Unit 123H Lateral 2
API #	30-045-35611
County & State	San Juan County, NM
SDI Job #	OP.041956
Rig	Drake 3
Survey Date	10/26/2023 to 10/28/2023
GL & KB Elevation	GL 6629' & KB 17' = 6646'

I, Janie Collins, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 3068 feet to a measured depth of 4016 feet is true and correct as determined from all available records.

A handwritten signature in blue ink, appearing to read 'Janie Collins', written over a horizontal line.

Signature

7-Nov-2023

Date

Janie Collins

Rockies Region Well Planner
Scientific Drilling - Rocky Mountain District



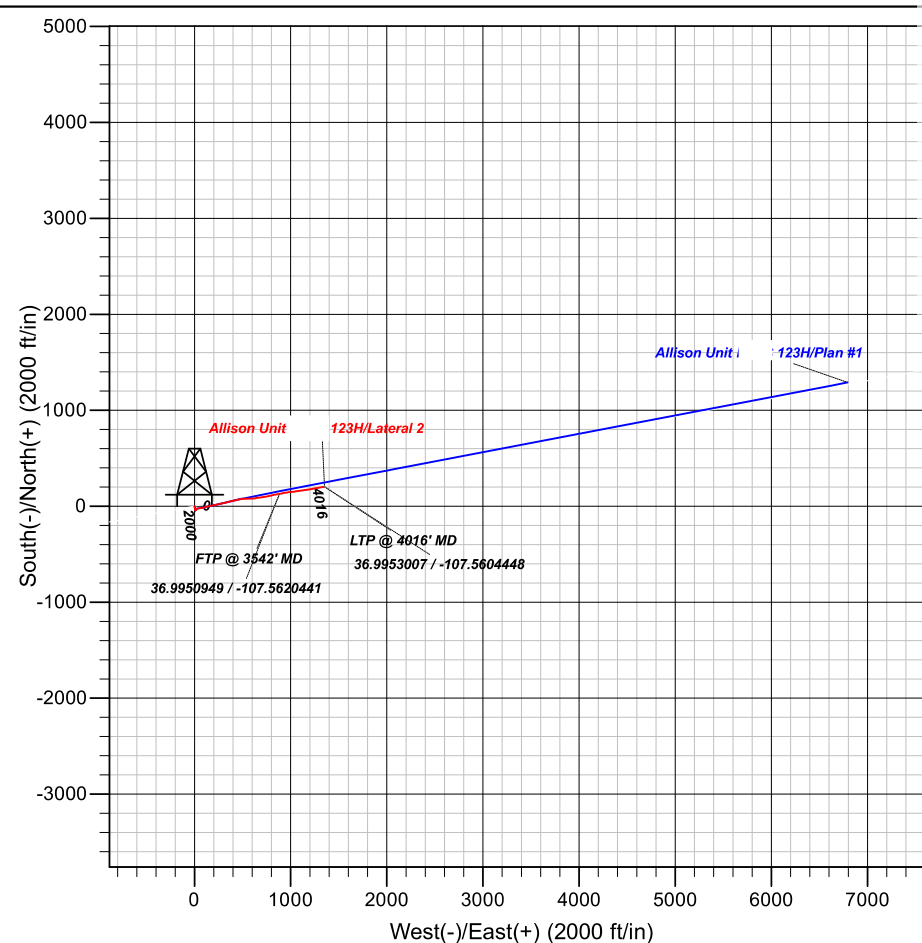
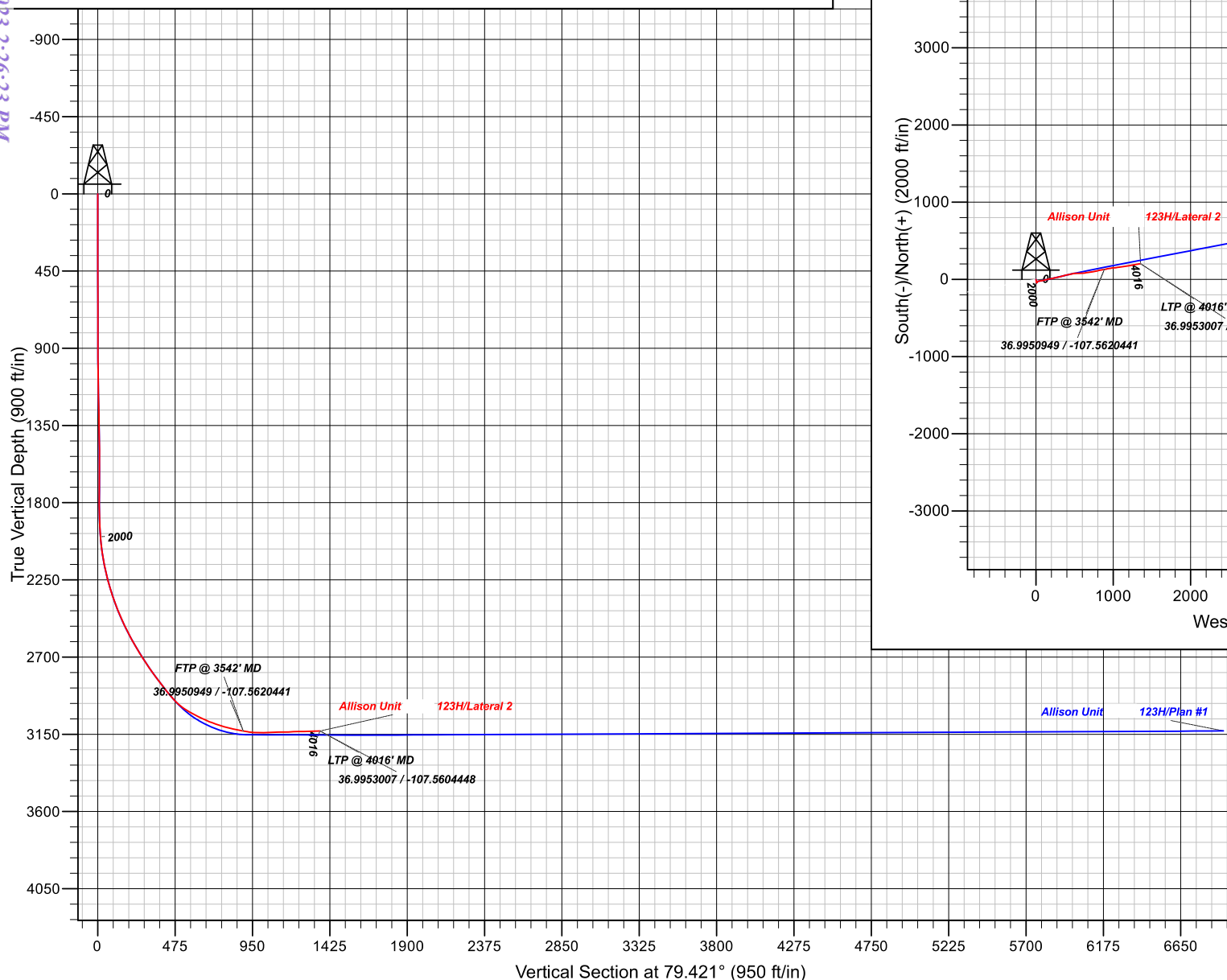
Company Name: Hilcorp Energy Corp.
Project: San Juan, NM NAD27
Site: Allison Unit 123H
Well: Allison Unit 123H
Wellbore: Lateral 2



WELL DETAILS: Allison Unit 123H

GL 6629' & RKB 17' @ 6646.00ft (Drake #3) 6629.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	2181465.68	578341.97	36.9947417	-107.5650717



Design: Lateral 2 (Allison Unit 123H/Lateral 2)

Created By: Janie Collins Date: 15:29, November 07 2023

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
Local North: True



Hilcorp Energy Corp.

San Juan, NM NAD27

Allison Unit 123H

Allison Unit 123H

Lateral 2

Design: Lateral 2

Standard Survey Report

07 November, 2023



www.scientificdrilling.com





Company:	Hilcorp Energy Corp.	Local Co-ordinate Reference:	Well Allison Unit HZFC 123H
Project:	San Juan, NM NAD27	TVD Reference:	GL 6629' & RKB 17' @ 6646.00ft (Drake #3)
Site:	Allison Unit HZFC 123H	MD Reference:	GL 6629' & RKB 17' @ 6646.00ft (Drake #3)
Well:	Allison Unit HZFC -123H	North Reference:	True
Wellbore:	Lateral 2	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 2	Database:	Grand Junction

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

Site		Allison Unit HZFC -123H						
Site Position:		Northing:	2,181,465.68	usft	Latitude:	36.9947416		
From:	Map	Easting:	578,341.97	usft	Longitude:	-107.5650717		
Position Uncertainty:	0.00	ft	Slot Radius:	13.20	in	Grid Convergence:	0.16	°

Well	Allison Unit HZFC -123H					
Well Position	+N/-S	0.00 ft	Northing:	2,181,465.68 usft	Latitude:	36.9947416
	+E/-W	0.00 ft	Easting:	578,341.97 usft	Longitude:	-107.5650717
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	6,629.00 ft

Wellbore	Lateral 2				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2023	10/26/2023	8.65	63.33	49,429.90000000

Design	Lateral 2				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	3,068.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	79.421	

Survey Program	Date	11/7/2023			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
570.00	3,068.00	Survey #1 - MWD Survey (Pilot)	MWD+HDGM	OWSG MWD + HDGM	
3,132.00	4,016.00	Survey #1 - Lateral (Lateral 2)	MWD+HDGM	OWSG MWD + HDGM	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
570.00	5.66	167.700	569.07	-27.49	5.99	0.85	0.99	0.99	0.00	
601.00	5.99	166.520	599.91	-30.55	6.70	0.97	1.13	1.06	-3.81	
662.00	4.67	163.330	660.65	-36.03	8.15	1.40	2.22	-2.16	-5.23	
725.00	3.51	175.560	723.48	-40.41	9.03	1.46	2.29	-1.84	19.41	
788.00	1.47	187.410	786.42	-43.13	9.08	1.01	3.32	-3.24	18.81	
851.00	0.10	76.460	849.42	-43.92	9.03	0.81	2.39	-2.17	-176.11	
914.00	0.57	23.880	912.41	-43.62	9.21	1.05	0.82	0.75	-83.46	
977.00	0.89	34.570	975.41	-42.93	9.61	1.57	0.55	0.51	16.97	
1,039.00	0.83	46.860	1,037.40	-42.23	10.21	2.29	0.31	-0.10	19.82	



Scientific Drilling Survey Report



Company:	Hilcorp Energy Corp.	Local Co-ordinate Reference:	Well Allison Unit HZFC 123H
Project:	San Juan, NM NAD27	TVD Reference:	GL 6629' & RKB 17' @ 6646.00ft (Drake #3)
Site:	Allison Unit HZFC-123H	MD Reference:	GL 6629' & RKB 17' @ 6646.00ft (Drake #3)
Well:	Allison Unit HZFC 123H	North Reference:	True
Wellbore:	Lateral 2	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 2	Database:	Grand Junction

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,102.00	0.81	54.580	1,100.40	-41.66	10.91	3.08	0.18	-0.03	12.25
1,165.00	1.11	53.820	1,163.39	-41.04	11.77	4.03	0.48	0.48	-1.21
1,228.00	1.35	53.430	1,226.37	-40.24	12.85	5.25	0.38	0.38	-0.62
1,290.00	1.40	45.040	1,288.35	-39.27	13.98	6.53	0.33	0.08	-13.53
1,353.00	1.37	40.940	1,351.34	-38.15	15.02	7.76	0.16	-0.05	-6.51
1,416.00	1.38	36.090	1,414.32	-36.97	15.96	8.90	0.19	0.02	-7.70
1,479.00	0.95	11.340	1,477.31	-35.85	16.51	9.64	1.04	-0.68	-39.29
1,542.00	1.24	359.690	1,540.29	-34.65	16.60	9.96	0.58	0.46	-18.49
1,605.00	1.25	358.100	1,603.28	-33.28	16.58	10.19	0.06	0.02	-2.52
1,667.00	1.69	351.740	1,665.26	-31.70	16.42	10.32	0.76	0.71	-10.26
1,729.00	1.90	345.470	1,727.23	-29.80	16.03	10.29	0.46	0.34	-10.11
1,790.00	1.41	335.020	1,788.20	-28.14	15.46	10.03	0.94	-0.80	-17.13
1,851.00	0.41	77.080	1,849.20	-27.41	15.36	10.07	2.54	-1.64	167.31
1,913.00	1.91	96.510	1,911.18	-27.48	16.60	11.28	2.47	2.42	31.34
1,974.00	3.83	85.040	1,972.10	-27.42	19.64	14.27	3.27	3.15	-18.80
2,035.00	6.28	82.400	2,032.86	-26.80	24.98	19.63	4.03	4.02	-4.33
2,096.00	9.06	79.540	2,093.31	-25.49	33.01	27.77	4.60	4.56	-4.69
2,158.00	11.47	79.790	2,154.31	-23.51	43.88	38.82	3.89	3.89	0.40
2,219.00	13.92	81.540	2,213.82	-21.36	57.11	52.22	4.07	4.02	2.87
2,280.00	16.69	79.090	2,272.65	-18.62	72.97	68.31	4.66	4.54	-4.02
2,342.00	18.74	76.630	2,331.71	-14.63	91.40	87.17	3.52	3.31	-3.97
2,403.00	20.97	76.200	2,389.08	-9.76	111.54	107.85	3.66	3.66	-0.70
2,464.00	23.51	77.840	2,445.53	-4.59	134.04	130.92	4.29	4.16	2.69
2,526.00	26.13	77.580	2,501.80	0.95	159.47	156.93	4.23	4.23	-0.42
2,587.00	28.59	77.050	2,555.98	7.11	186.81	184.94	4.05	4.03	-0.87
2,650.00	31.20	77.980	2,610.59	13.89	217.47	216.32	4.21	4.14	1.48
2,713.00	32.91	77.920	2,663.98	20.87	250.17	249.75	2.71	2.71	-0.10
2,776.00	34.06	77.830	2,716.52	28.17	284.15	284.49	1.83	1.83	-0.14
2,839.00	35.97	76.580	2,768.12	36.18	319.39	320.61	3.24	3.03	-1.98
2,902.00	37.89	76.140	2,818.48	45.11	356.18	358.41	3.08	3.05	-0.70
2,965.00	39.62	76.860	2,867.61	54.31	394.52	397.79	2.84	2.75	1.14
3,028.00	41.30	76.430	2,915.54	63.76	434.30	438.62	2.70	2.67	-0.68
3,068.00	42.54	77.260	2,945.30	69.84	460.32	465.32	3.39	3.09	2.07
3,132.00	54.13	86.280	2,987.83	76.32	507.51	512.90	20.92	18.11	14.09
3,164.00	58.93	88.720	3,005.47	77.47	534.17	539.32	16.29	15.00	7.63
3,195.00	61.89	88.460	3,020.78	78.13	561.12	565.93	9.58	9.55	-0.84
3,226.00	63.98	87.630	3,034.88	79.08	588.70	593.22	7.15	6.74	-2.68
3,258.00	64.70	84.420	3,048.74	81.08	617.47	621.86	9.32	2.25	-10.03
3,289.00	66.81	82.220	3,061.47	84.37	645.54	650.06	9.39	6.81	-7.10
3,321.00	68.70	81.590	3,073.59	88.54	674.86	679.65	6.18	5.91	-1.97
3,352.00	70.46	80.070	3,084.40	93.18	703.54	708.69	7.30	5.68	-4.90
3,383.00	72.33	79.820	3,094.29	98.30	732.47	738.07	6.08	6.03	-0.81
3,415.00	74.16	78.770	3,103.52	104.00	762.58	768.71	6.52	5.72	-3.28



Scientific Drilling Survey Report



Company:	Hilcorp Energy Corp.	Local Co-ordinate Reference:	Well Allison Unit HZFC 123H
Project:	San Juan, NM NAD27	TVD Reference:	GL 6629' & RKB 17' @ 6646.00ft (Drake #3)
Site:	Allison Unit HZFC 123H	MD Reference:	GL 6629' & RKB 17' @ 6646.00ft (Drake #3)
Well:	Allison Unit HZFC 123H	North Reference:	True
Wellbore:	Lateral 2	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 2	Database:	Grand Junction

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
3,446.00	76.76	77.830	3,111.30	110.08	791.96	798.71	8.89	8.39	-3.03	
3,477.00	78.28	78.310	3,118.00	116.34	821.57	828.96	5.13	4.90	1.55	
3,509.00	79.16	79.190	3,124.26	122.46	852.35	860.34	3.85	2.75	2.75	
3,540.00	79.09	79.000	3,130.11	128.22	882.24	890.79	0.64	-0.23	-0.61	
3,542.00	79.25	78.950	3,130.48	128.60	884.17	892.75	8.18	7.80	-2.50	
36.9950949 / -107.5620441 - FTP @ 3542' MD										
3,571.00	81.51	78.230	3,135.33	134.25	912.19	921.34	8.18	7.81	-2.48	
3,602.00	85.31	80.050	3,138.89	140.05	942.43	952.13	13.57	12.26	5.87	
3,634.00	90.13	82.340	3,140.16	144.94	974.02	984.07	16.67	15.06	7.16	
3,665.00	92.45	84.250	3,139.46	148.56	1,004.80	1,014.99	9.69	7.48	6.16	
3,696.00	91.61	83.140	3,138.36	151.96	1,035.59	1,045.88	4.49	-2.71	-3.58	
3,727.00	90.13	81.170	3,137.89	156.19	1,066.29	1,076.84	7.95	-4.77	-6.35	
3,759.00	90.87	81.620	3,137.61	160.98	1,097.93	1,108.82	2.71	2.31	1.41	
3,790.00	92.29	83.120	3,136.76	165.10	1,128.64	1,139.77	6.66	4.58	4.84	
3,822.00	91.78	81.530	3,135.62	169.37	1,160.33	1,171.71	5.22	-1.59	-4.97	
3,853.00	92.18	80.970	3,134.55	174.08	1,190.95	1,202.67	2.22	1.29	-1.81	
3,884.00	90.84	79.460	3,133.73	179.35	1,221.49	1,233.66	6.51	-4.32	-4.87	
3,916.00	91.42	79.430	3,133.10	185.21	1,252.94	1,265.65	1.81	1.81	-0.09	
4,016.00	91.42	79.430	3,130.62	203.55	1,351.22	1,365.62	0.00	0.00	0.00	
36.9953007 / -107.5604448 - LTP @ 4016' MD										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
3,542.00	3,130.48	128.60	884.17	36.9950949 / -107.5620441	
3,542.00	3,130.48	128.60	884.17	FTP @ 3542' MD	
4,016.00	3,130.62	203.55	1,351.22	36.9953007 / -107.5604448	
4,016.00	3,130.62	203.55	1,351.22	LTP @ 4016' MD	

Checked By: _____ Approved By: _____ Date: _____



Survey Certification

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

Operator	HilCorp
Well Name & No.	Allison Unit HZFC 123H Lateral 2ST1
API #	30-045-35611
County & State	San Juan County, NM
SDI Job #	OP.041956
Rig	Drake 3
Survey Date	10/29/2023 to 11/03/2023
GL & KB Elevation	GL 6629' & KB 17' = 6646'

I, Janie Collins, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 3477 feet to a measured depth of 3710 feet is true and correct as determined from all available records.

A handwritten signature in blue ink, appearing to read 'Janie Collins', written over a horizontal line.

Signature

7-Nov-2023

Date

Janie Collins

Rockies Region Well Planner
Scientific Drilling - Rocky Mountain District



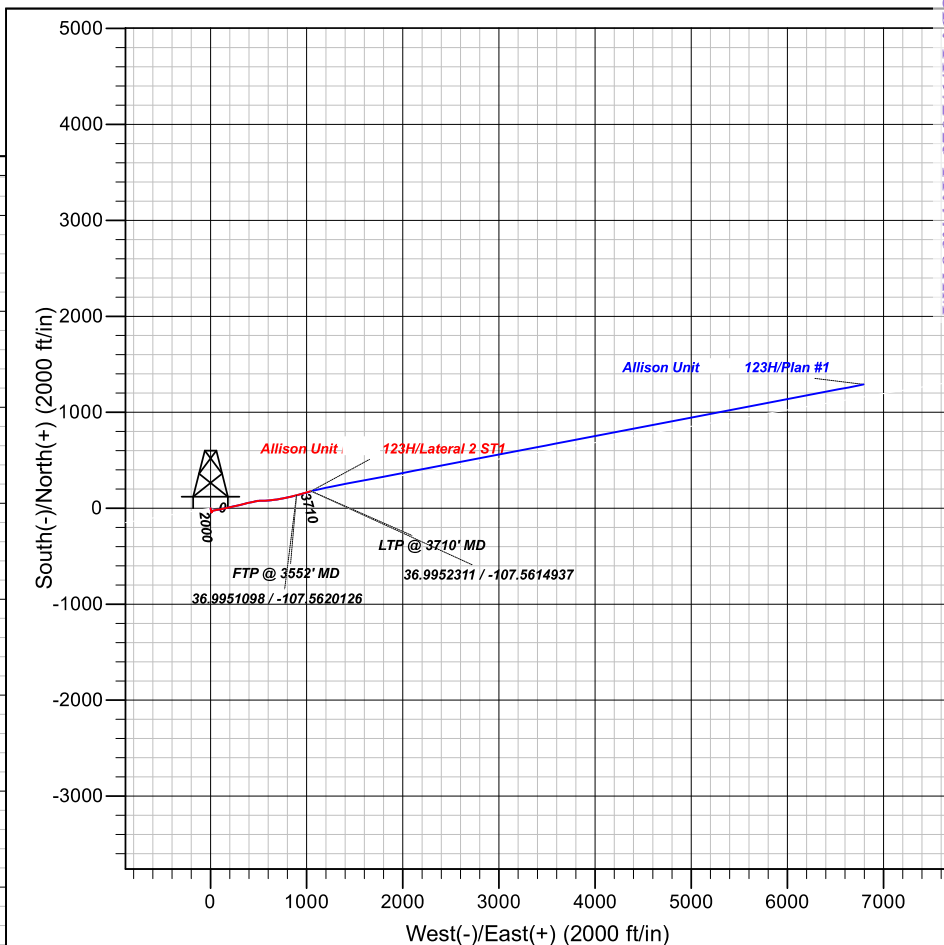
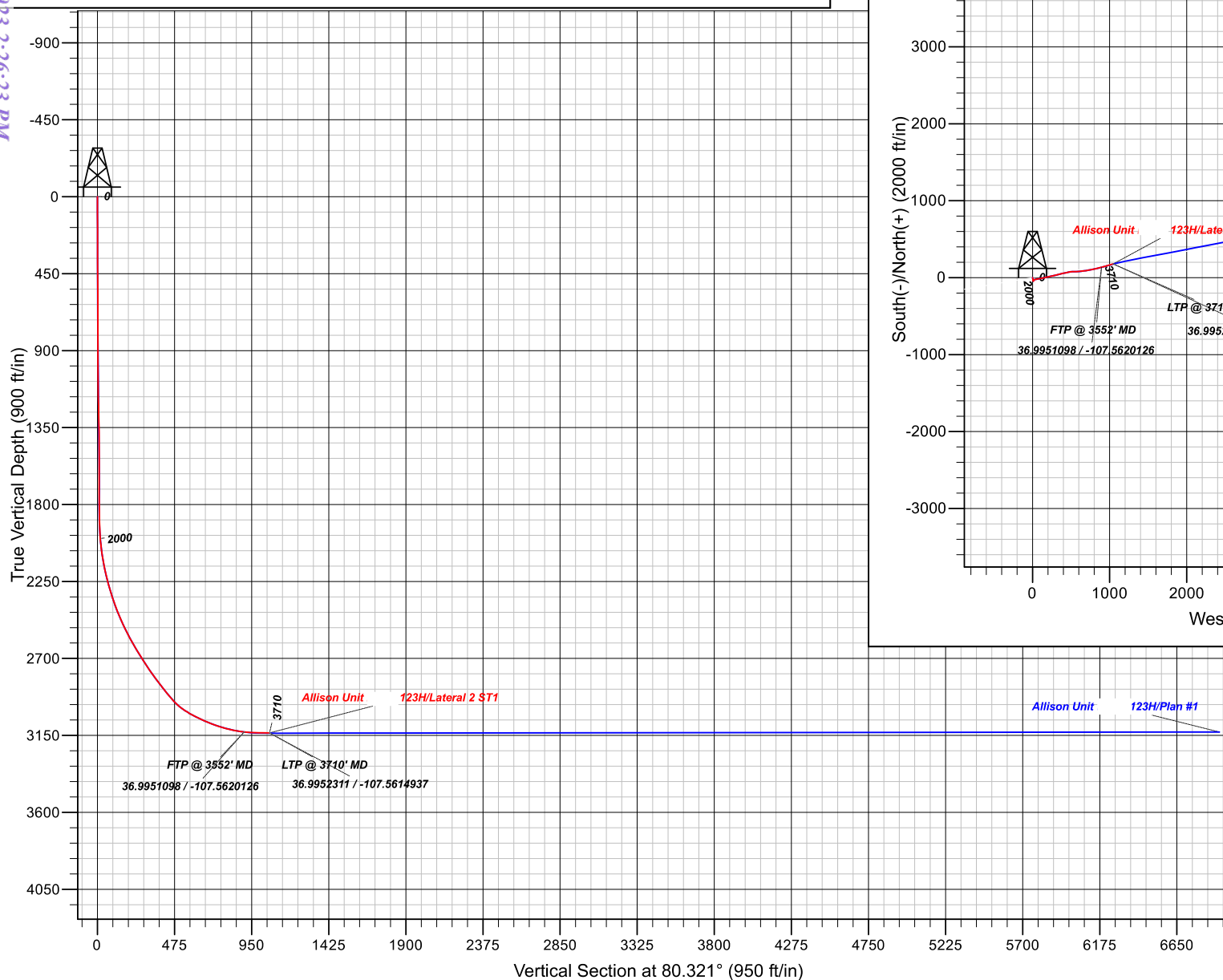
Company Name: Hilcorp Energy Corp.
Project: San Juan, NM NAD27
Site: Allison Unit 123H
Well: Allison Unit 123H
Wellbore: Lateral 2 ST1



WELL DETAILS: Allison Unit 123H

GL 6629' & RKB 17' @ 6646.00ft (Drake #3) 6629.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	2181465.68	578341.97	36.9947417	-107.5650717



Design: Lateral 2 ST1 (Allison Unit 123H/Lateral 2 ST1)

Created By: Janie Collins Date: 15:46, November 07 2023

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
Local North: True



Hilcorp Energy Corp.

San Juan, NM NAD27

Allison Unit ~~HZFC~~ 123H

Allison Unit ~~HZFC~~ 123H

Lateral 2 ST1

Design: Lateral 2 ST1

Standard Survey Report

07 November, 2023



www.scientificdrilling.com





Scientific Drilling Survey Report



Company:	Hilcorp Energy Corp.	Local Co-ordinate Reference:	Well Allison Unit HZFC 123H
Project:	San Juan, NM NAD27	TVD Reference:	GL 6629' & RKB 17' @ 6646.00ft (Drake #3)
Site:	Allison Unit HZFC 123H	MD Reference:	GL 6629' & RKB 17' @ 6646.00ft (Drake #3)
Well:	Allison Unit HZFC 123H	North Reference:	True
Wellbore:	Lateral 2 ST1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 2 ST1	Database:	Grand Junction

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

Site	Allison Unit HZFC 123H		
Site Position:		Northing:	2,181,465.68 usft
From:	Map	Easting:	578,341.97 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.20 in
		Latitude:	36.9947416
		Longitude:	-107.5650717
		Grid Convergence:	0.16 °

Well	Allison Unit HZFC 123H		
Well Position	+N/-S	0.00 ft	Northing: 2,181,465.68 usft
	+E/-W	0.00 ft	Easting: 578,341.97 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	0.00 ft
		Latitude:	36.9947416
		Longitude:	-107.5650717
		Ground Level:	6,629.00 ft

Wellbore	Lateral 2 ST1		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM2021_FILE	12/31/2021	8.80
			Dip Angle (°) 63.42
			Field Strength (nT) 49,629.30000000

Design	Lateral 2 ST1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	3,415.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)
	0.00	0.00	0.00
			Direction (°) 80.321

Survey Program	Date	11/7/2023		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
570.00	3,068.00	Survey #1 - MWD Survey (Pilot)	MWD+HDGM	OWSG MWD + HDGM
3,132.00	3,415.00	Survey #1 - Lateral (Lateral 2)	MWD+HDGM	OWSG MWD + HDGM
3,477.00	3,710.00	Survey #1 - MWD Survey (Lateral 2 ST1)	MWD+HDGM	OWSG MWD + HDGM

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
570.00	5.66	167.700	569.07	-27.49	5.99	1.29	0.99	0.99	0.00
601.00	5.99	166.520	599.91	-30.55	6.70	1.46	1.13	1.06	-3.81
662.00	4.67	163.330	660.65	-36.03	8.15	1.98	2.22	-2.16	-5.23
725.00	3.51	175.560	723.48	-40.41	9.03	2.11	2.29	-1.84	19.41
788.00	1.47	187.410	786.42	-43.13	9.08	1.70	3.32	-3.24	18.81
851.00	0.10	76.460	849.42	-43.92	9.03	1.52	2.39	-2.17	-176.11
914.00	0.57	23.880	912.41	-43.62	9.21	1.74	0.82	0.75	-83.46
977.00	0.89	34.570	975.41	-42.93	9.61	2.26	0.55	0.51	16.97



Scientific Drilling Survey Report



Company:	Hilcorp Energy Corp.	Local Co-ordinate Reference:	Well Allison Unit HZFC -123H
Project:	San Juan, NM NAD27	TVD Reference:	GL 6629' & RKB 17' @ 6646.00ft (Drake #3)
Site:	Allison Unit HZFC 123H	MD Reference:	GL 6629' & RKB 17' @ 6646.00ft (Drake #3)
Well:	Allison Unit HZFC 123H	North Reference:	True
Wellbore:	Lateral 2 ST1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 2 ST1	Database:	Grand Junction

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,039.00	0.83	46.860	1,037.40	-42.23	10.21	2.97	0.31	-0.10	19.82
1,102.00	0.81	54.580	1,100.40	-41.66	10.91	3.75	0.18	-0.03	12.25
1,165.00	1.11	53.820	1,163.39	-41.04	11.77	4.70	0.48	0.48	-1.21
1,228.00	1.35	53.430	1,226.37	-40.24	12.85	5.91	0.38	0.38	-0.62
1,290.00	1.40	45.040	1,288.35	-39.27	13.98	7.18	0.33	0.08	-13.53
1,353.00	1.37	40.940	1,351.34	-38.15	15.02	8.39	0.16	-0.05	-6.51
1,416.00	1.38	36.090	1,414.32	-36.97	15.96	9.51	0.19	0.02	-7.70
1,479.00	0.95	11.340	1,477.31	-35.85	16.51	10.24	1.04	-0.68	-39.29
1,542.00	1.24	359.690	1,540.29	-34.65	16.60	10.54	0.58	0.46	-18.49
1,605.00	1.25	358.100	1,603.28	-33.28	16.58	10.75	0.06	0.02	-2.52
1,667.00	1.69	351.740	1,665.26	-31.70	16.42	10.86	0.76	0.71	-10.26
1,729.00	1.90	345.470	1,727.23	-29.80	16.03	10.80	0.46	0.34	-10.11
1,790.00	1.41	335.020	1,788.20	-28.14	15.46	10.51	0.94	-0.80	-17.13
1,851.00	0.41	77.080	1,849.20	-27.41	15.36	10.53	2.54	-1.64	167.31
1,913.00	1.91	96.510	1,911.18	-27.48	16.60	11.75	2.47	2.42	31.34
1,974.00	3.83	85.040	1,972.10	-27.42	19.64	14.75	3.27	3.15	-18.80
2,035.00	6.28	82.400	2,032.86	-26.80	24.98	20.12	4.03	4.02	-4.33
2,096.00	9.06	79.540	2,093.31	-25.49	33.01	28.26	4.60	4.56	-4.69
2,158.00	11.47	79.790	2,154.31	-23.51	43.88	39.30	3.89	3.89	0.40
2,219.00	13.92	81.540	2,213.82	-21.36	57.11	52.71	4.07	4.02	2.87
2,280.00	16.69	79.090	2,272.65	-18.62	72.97	68.80	4.66	4.54	-4.02
2,342.00	18.74	76.630	2,331.71	-14.63	91.40	87.64	3.52	3.31	-3.97
2,403.00	20.97	76.200	2,389.08	-9.76	111.54	108.31	3.66	3.66	-0.70
2,464.00	23.51	77.840	2,445.53	-4.59	134.04	131.36	4.29	4.16	2.69
2,526.00	26.13	77.580	2,501.80	0.95	159.47	157.36	4.23	4.23	-0.42
2,587.00	28.59	77.050	2,555.98	7.11	186.81	185.35	4.05	4.03	-0.87
2,650.00	31.20	77.980	2,610.59	13.89	217.47	216.71	4.21	4.14	1.48
2,713.00	32.91	77.920	2,663.98	20.87	250.17	250.11	2.71	2.71	-0.10
2,776.00	34.06	77.830	2,716.52	28.17	284.15	284.84	1.83	1.83	-0.14
2,839.00	35.97	76.580	2,768.12	36.18	319.39	320.93	3.24	3.03	-1.98
2,902.00	37.89	76.140	2,818.48	45.11	356.18	358.69	3.08	3.05	-0.70
2,965.00	39.62	76.860	2,867.61	54.31	394.52	398.04	2.84	2.75	1.14
3,028.00	41.30	76.430	2,915.54	63.76	434.30	438.84	2.70	2.67	-0.68
3,068.00	42.54	77.260	2,945.30	69.84	460.32	465.51	3.39	3.09	2.07
3,132.00	54.13	86.280	2,987.83	76.32	507.51	513.12	20.92	18.11	14.09
3,164.00	58.93	88.720	3,005.47	77.47	534.17	539.59	16.29	15.00	7.63
3,195.00	61.89	88.460	3,020.78	78.13	561.12	566.27	9.58	9.55	-0.84
3,226.00	63.98	87.630	3,034.88	79.08	588.70	593.62	7.15	6.74	-2.68
3,258.00	64.70	84.420	3,048.74	81.08	617.47	622.32	9.32	2.25	-10.03
3,289.00	66.81	82.220	3,061.47	84.37	645.54	650.54	9.39	6.81	-7.10
3,321.00	68.70	81.590	3,073.59	88.54	674.86	680.15	6.18	5.91	-1.97
3,352.00	70.46	80.070	3,084.40	93.18	703.54	709.19	7.30	5.68	-4.90
3,383.00	72.33	79.820	3,094.29	98.30	732.47	738.57	6.08	6.03	-0.81



Scientific Drilling Survey Report



Company:	Hilcorp Energy Corp.	Local Co-ordinate Reference:	Well Allison Unit HZFC 123H
Project:	San Juan, NM NAD27	TVD Reference:	GL 6629' & RKB 17' @ 6646.00ft (Drake #3)
Site:	Allison Unit HZFC 123H	MD Reference:	GL 6629' & RKB 17' @ 6646.00ft (Drake #3)
Well:	Allison Unit HZFC 123H	North Reference:	True
Wellbore:	Lateral 2 ST1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 2 ST1	Database:	Grand Junction

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,415.00	74.16	78.770	3,103.52	104.00	762.58	769.21	6.52	5.72	-3.28
3,477.00	77.48	77.990	3,118.70	116.11	821.45	829.27	5.49	5.35	-1.26
3,540.00	84.52	74.650	3,128.55	130.83	881.85	891.30	12.34	11.17	-5.30
3,552.00	85.03	74.318	3,129.65	134.02	893.37	903.19	5.04	4.22	-2.77
FTP @ 3552' MD - 36.9951098 / -107.5620126									
3,602.00	87.14	72.940	3,133.06	148.08	941.23	952.72	5.04	4.23	-2.76
3,665.00	89.70	74.150	3,134.80	165.92	1,001.62	1,015.25	4.49	4.06	1.92
3,710.00	89.70	74.150	3,135.03	178.21	1,044.90	1,059.99	0.00	0.00	0.00
36.9952311 / -107.5614937 - LTP @ 3710' MD									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
3,552.00	3,129.65	134.02	893.37	FTP @ 3552' MD
3,552.00	3,129.65	134.02	893.37	36.9951098 / -107.5620126
3,710.00	3,135.03	178.21	1,044.90	36.9952311 / -107.5614937
3,710.00	3,135.03	178.21	1,044.90	LTP @ 3710' MD

Checked By: _____ Approved By: _____ Date: _____

ALLISON UNIT 123H

AS DRILLED LATERAL WBD
DRAWING NOT TO SCALE

State: NM
 County: San Juan
 API: 3004535611
 GL: 6,629'
 KB: 17'



12-1/4" Surface Hole to 522' MD
 9-5/8" 32.3# H40 ST&C set at 517' MD
 Cement to surface

Window: 3,055-3,063' MD /
 2,935-2,945' TVD

RBP @ 3,071' MD

Window: 3,589-3,599' MD /
 3,224-3,228' TVD

8-3/4" Hole TD @ 3,921' MD
 7" 23# L80 LT&C set at 3,899' MD/3,363' TVD
 Cement to surface
 PBTD 3,850'

OH LAT 2 ST 1 3,477 to 3,710' MD', TD @ ~3135' TVD
 6-1/4" hole

OH LAT 2 3,068 to 4,016' MD, TD @ ~3131' TVD
 6-1/4" hole



- Partial mud motor (stator + bend housing + drive assy)
- PDC bit

Liner*: TOL @ 4,541' MD
 TD @ 9,647' MD / 3,208' TVD

TD @ 9,647' MD /
 3,208' TVD

LAT 1
 LAT 1 ST 1
 Liner*: TOL @ 3,606' MD
 TD @ 7,847' MD / 3,231' TVD

TD @ 10,150' MD /
 3,223' TVD

*6-1/4" hole
 4-1/2" 11.6# J55 casing
 Pre-Perforated Drop-off liner

Original Wellbore		
Formation	MD	TVD
OJO	2,378'	2,366'
KIRTLAND	2,488'	2,468'
FRUITLAND	2,981'	2,880'

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

ACKNOWLEDGMENTS

Action 284338

ACKNOWLEDGMENTS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 284338
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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1220 S. St Francis Dr.
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CONDITIONS

Action 284338

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 284338
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
smcgrath	RT Expires 02/08/2024	11/9/2023