

Santa Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116 Online Phone Directory Visit: https://www.emnrd.nm.gov/ocd/contact-us/	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	C-104 Revised July 9, 2024 Submit Electronically Via OCD Permitting
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REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT**Section 1 - Operator and Well Information**

Submittal Type: ☐ Test Allowable (C-104RT) ☒ New Well (C-104NW) ☐ Recomplete (C-104RC) ☐ Pay Add (C-104RC) ☐ Amended	
Operator Name: SPUR ENERGY PARTNERS LLC	OGRID: 328947
Property Name and Well Number: ALTO AMM 21 10H	Property Code: 333554
Mineral Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal	API Number: 30-0 15-50159
Pool Name: N. SEVEN RIVERS; GLORIETA-YESO	Pool Code: 97565

Section 2 – Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
E	22	19S	25E		2310' FNL	440' FWL	32.6474464	-104.479735	EDDY

Section 3 – Completion Information

Producing Method	Ready Date	Perforations MD	Perforations TVD
PUPMING ON ESP	04/27/2023	3037'-7965'	3608'-2654'

Section 4 – Action IDs for Submissions and Order Numbers

List Action IDs for Drilling Sundries	Was an Order required / needed (Y/N), if yes list Order number:
C-104 RT Action ID (if C-104NW): 244762 REJECTED	Communitization Agreement ☐ Yes ☒ No, Order No.
Surface Casing Action ID: 332660	Unit: ☐ Yes ☒ No, Order No.
Intermediate 1 Casing Action ID:	Compulsory Pooling: ☐ Yes ☒ No, Order No.
Intermediate 2 Casing Action ID:	Down Hole Commingling: ☐ Yes ☒ No, Order No.
Production Casing Action ID: 332660	Surface Commingling: ☐ Yes ☒ No, Order No.
All casing was pressure tested in accordance with NMAC ☒ Yes ☐ No	Non-standard Location: ☐ Yes ☒ No ☐ Common ownership Order No.
Liner 1 Action ID: 338271 TUBING	Non-standard Proration: ☐ Yes ☒ No, Order No.
Casing was installed prior to OCD's Action ID system (Y/N): N	Simultaneous Dedication: ☐ Yes ☒ No, Order No.

Section 5 - Operator Signature and Certification

☒ I hereby certify that the required Water Use Report has been, or will be, submitted for this well's completion.	
☒ I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well's completion.	
☒ 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.	
Name SARAH CHAPMAN <i>Sarah Chapman</i>	
Title REGULATORY DIRECTOR	Date 01/27/2025

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 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 30-015-50159	² Pool Code 97565	³ Pool Name N. SEVEN RIVERS; GLORIETA-YESO
⁴ Property Code 333554	⁵ Property Name ALTO AMM 21	⁶ Well Number 10H
⁷ GRID NO. 328947	⁸ Operator Name SPUR ENERGY PARTNERS LLC.	⁹ Elevation 3472'

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
E	22	19S	25E		2310	NORTH	440	WEST	EDDY

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
E	21	19S	25E		1657	NORTH	49	WEST	EDDY

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

¹⁶ <u>GEODETIC DATA</u> NAD 83 GRID - NM EAST SURFACE LOCATION (SL) N: 599303.0 - E: 496276.5 LAT: 32.6474464° N LONG: 104.4797350° W FIRST TAKE POINT (FTP) 1669' FNL & 259' FEL SEC 21 N: 599944.7 - E: 495576.3 LAT: 32.6492075° N LONG: 104.4820128° W MD = 3037 - TVD = 2608.3 LAST TAKE POINT (LTP) 1657' FNL & 114' FWL SEC 21 N: 599987.6 - E: 490656.4 LAT: 32.6493056° N LONG: 104.4979980° W MD = 7965.0 - TVD = 2654.2 <u>BOTTOM HOLE (BH)</u> N: 599987.4 - E: 490591.4 LAT: 32.6493046° N LONG: 104.4982092° W MD = 8030.0 - TVD = 2654.4 <u>CORNER DATA</u> NAD 83 GRID - NM EAST A: FOUND 10"x8"x2.5" LIMESTONE ROCK N: 596289.2 - E: 490540.3 B: FOUND SPIKE NAIL N: 601644.8 - E: 490542.7 C: FOUND 1/2" REBAR N: 601611.6 - E: 495833.4 D: FOUND SPIKE NAIL N: 601616.1 - E: 498466.7 E: FOUND 60D NAIL N: 601603.9 - E: 501084.3 F: FOUND 1/2" REBAR N: 596091.2 - E: 501054.3 G: FOUND 1/2" REBAR N: 596183.6 - E: 498448.0 H: FOUND 1" PIPE N: 596277.3 - E: 495841.8 I: FOUND 1/2" REBAR N: 596283.3 - E: 493191.2 J: FOUND 1" IRON ROD N: 598944.5 - E: 495837.1	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 working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Sarah Chapman</i> 04/20/2023 Signature Date SARAH CHAPMAN Printed Name SCHAPMAN@SPURENERGY.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. 04/10/2023 Date of Survey Signature and Seal of Professional Surveyor 19680 Certificate Number Job No: LS22070816AC
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February 28th , 2023

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

RE: SPUR ENERGY PARTNERS LLC 328947

Well: ALTO AMM 21 010H
POOLS:97565 N SEVEN RIVERS;GLORIETA-YESO
EDDY COUNTY, NM
API Number: 30-015-50159

Please find the attached surveys performed on the above referenced well by Prime Solution Services.

Other information required by your office is as follows:

Original Hole:

Surveyed Depths: 146' MD– 7961' MD projection to 8030 MD
Date Performed: 1/4/2022 – 2/25/2023
Type of Survey: Directional Survey – MWD/IFR

A certified plat on which the bottom hole location is oriented both to the surface location and the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Joe Vocioni', is written over a horizontal line.

Joe Vocioni
MWD Operations Manager

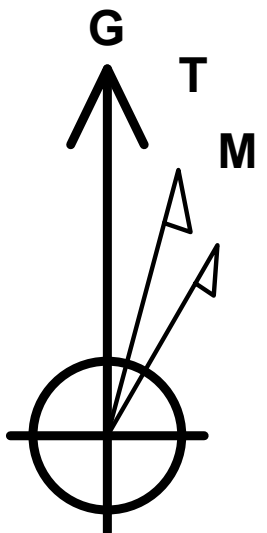
713-517-3120

jvocioni@primesolutionsvcs.com

SPUR ENERGY PARTNERS LLC.

3472+20 @ 3492.00usft (AKITA57)
North American Datum 1983

Project: Eddy County, NM (NAD83) NMEZ Grid
Site: ALTO AMM PAD
Well: ALTO AMM 10H
Wellbore: Lateral
Design: Lateral AsDrilled



Azimuths to Grid North
True North: 0.08°
Magnetic North: 6.93°

Magnetic Field
Strength: 47744.4nT
Dip Angle: 60.28°
Date: 12/19/2022
Model: USER DEFINED

PROJECT DETAILS: Eddy County, NM (NAD83) NMEZ Grid
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

Magnetic North is 6.93° East of Grid North (Magnetic Convergence)
Magnetic North is 6.85° East of True North (Magnetic Declination)

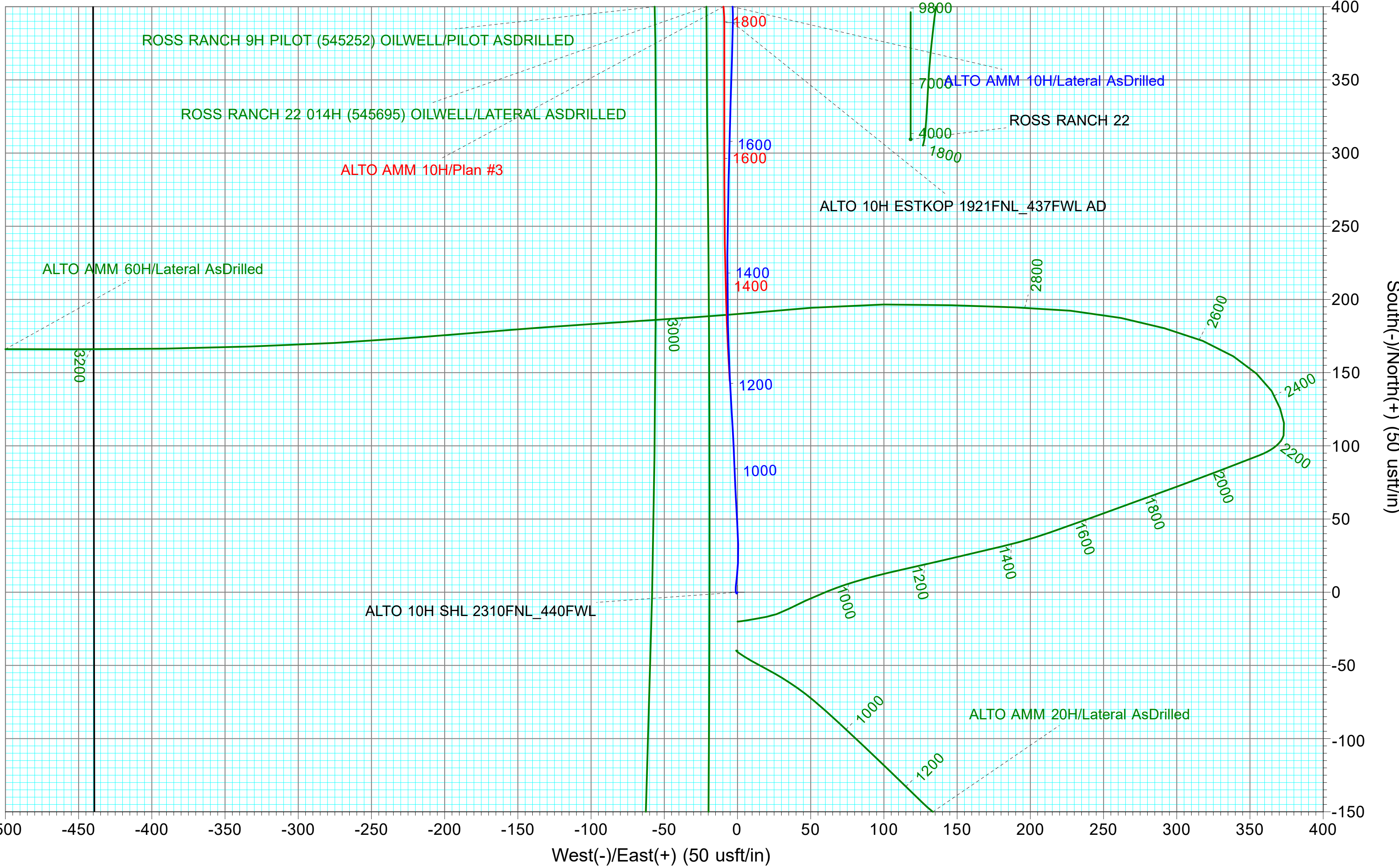
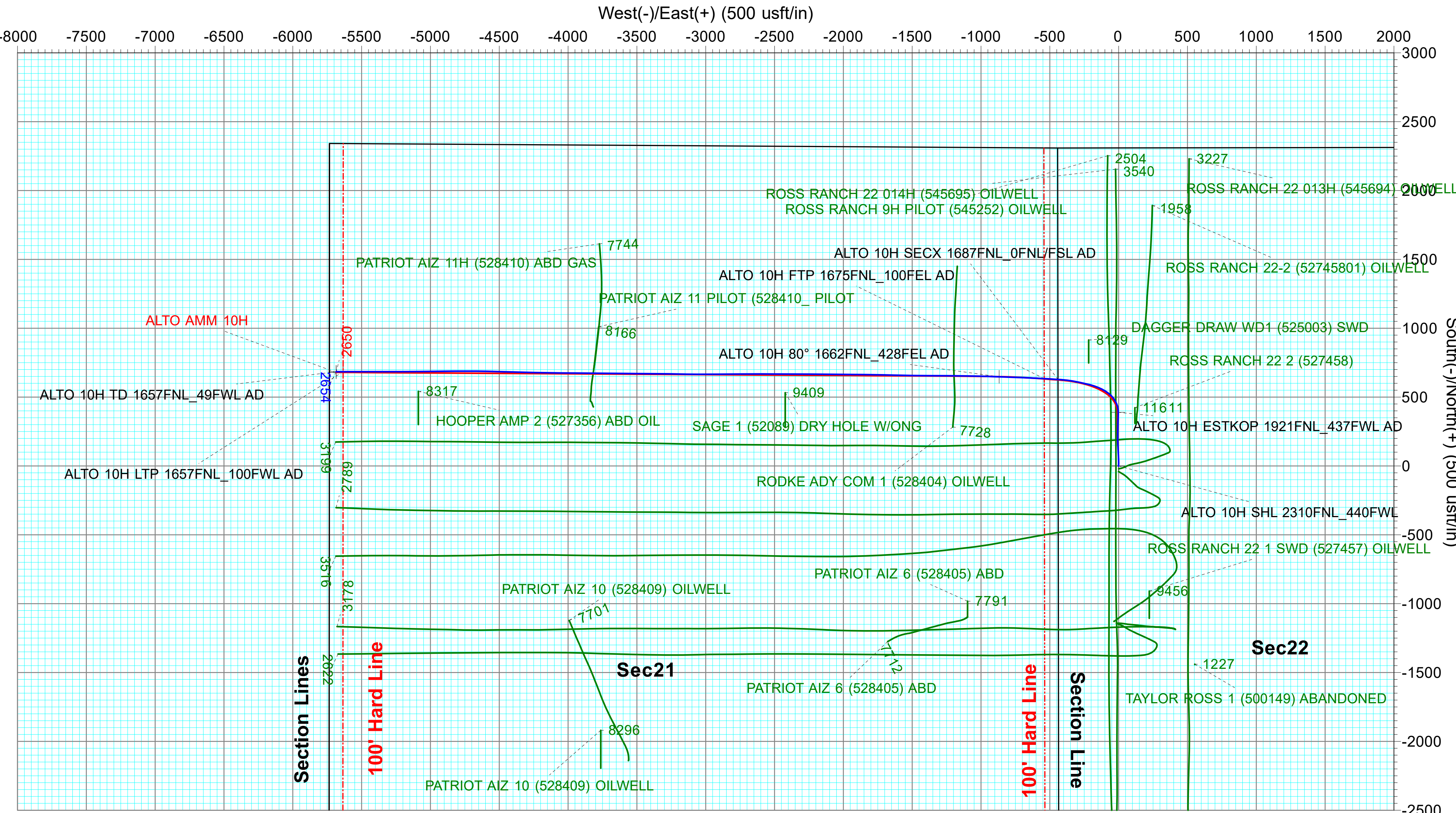
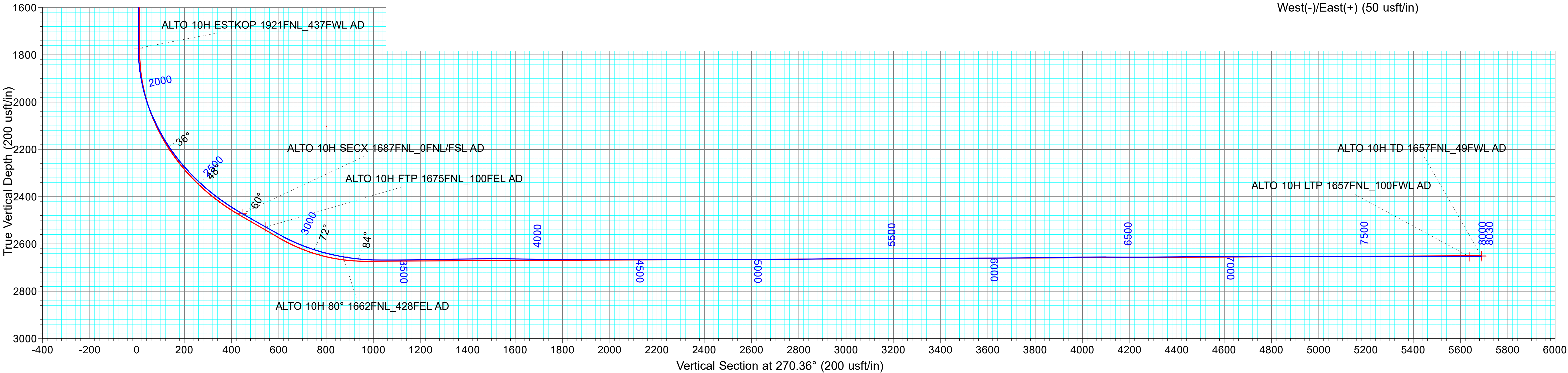
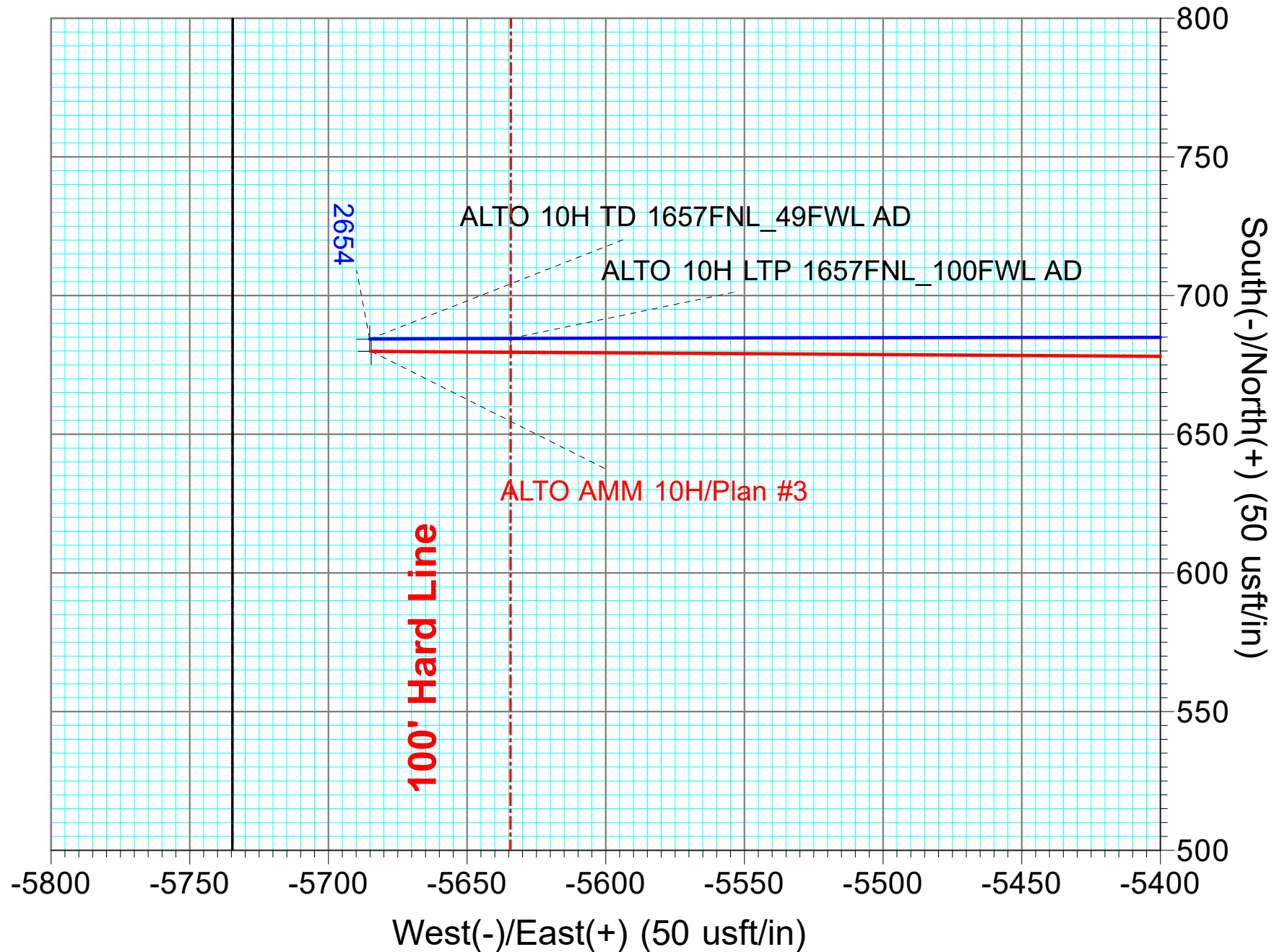
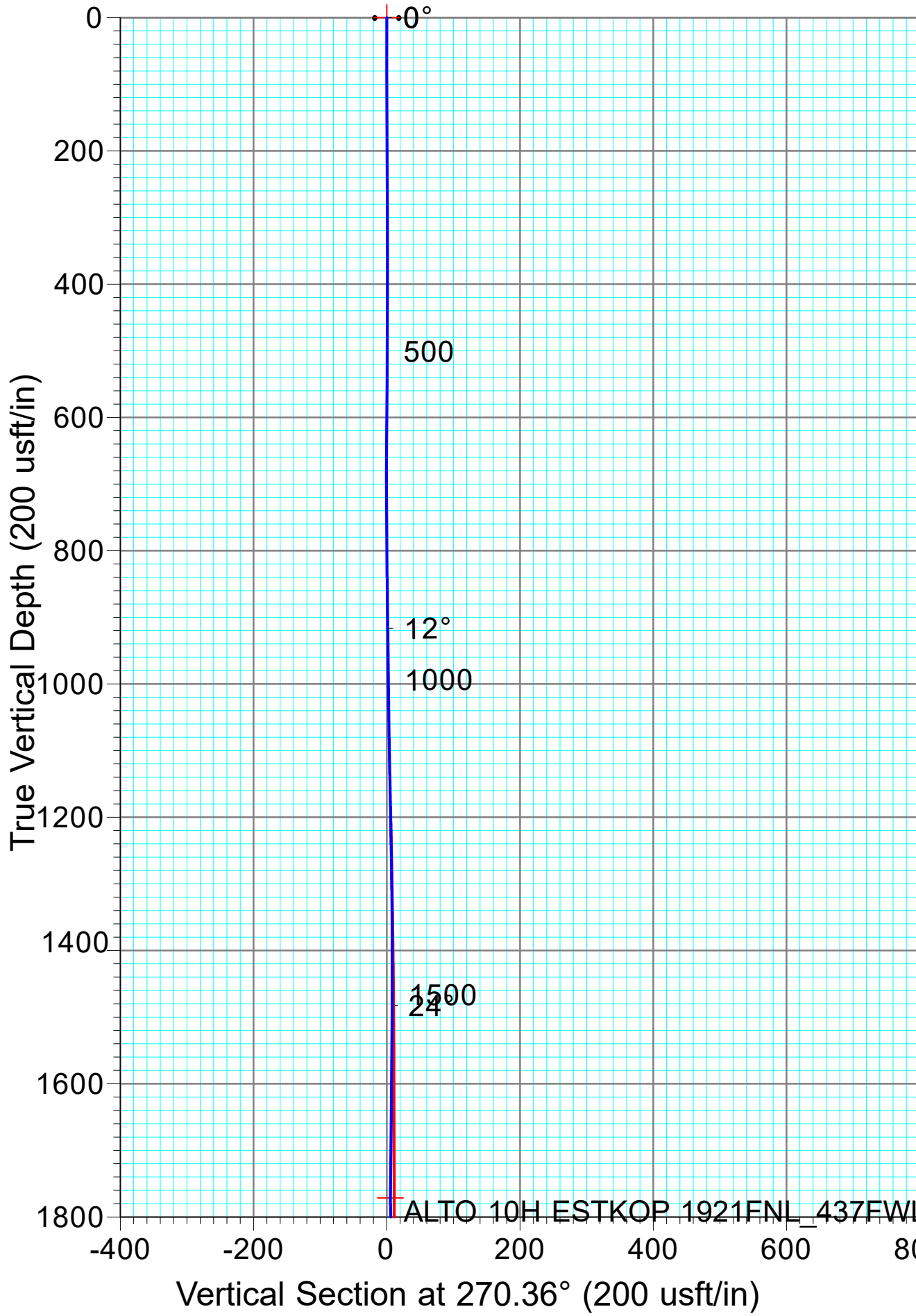
To convert a Magnetic Direction to a Grid Direction, Add 6.93°

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Annotation
1838.00	25.23	1.04	1771.41	389.18	-3.14	ESTKOP 1921FNL_437FWL AD
2743.10	59.74	273.83	2471.66	627.90	-440.69	1687FNL_0FNL/FSL AD
2858.20	60.78	273.31	2528.59	634.25	-540.52	FTP 1675FNL_100FEL AD
3211.61	80.00	272.26	2654.53	647.53	-868.11	80° 1662FNL_428FEL AD
7979.10	89.88	269.76	2654.24	684.56	-5634.23	LTP 1657FNL_100FWL AD
8030.00	89.88	269.77	2654.35	684.35	-5685.13	TD 1657FNL_49FWL AD

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
ALTO 10H SHL 2310FNL_440FWL	0.00	0.00	0.00	599303.000	496276.500
ALTO 10H ESTKOP 1921FNL_437FWL AD	1771.41	389.18	-3.14	599692.178	496273.357
ALTO 10H SECX 1687FNL_0FNL/FSL AD	2471.66	627.90	-440.69	599930.896	495835.810
ALTO 10H FTP 1675FNL_100FEL AD	2528.59	634.25	-540.52	599937.252	495735.981
ALTO 10H PBHL p2 1662FNL_50FEL	2650.00	679.90	-5684.50	599982.900	490592.000
ALTO 10H LTP 1657FNL_100FWL AD	2654.24	684.56	-5634.23	599987.561	490642.273
ALTO 10H TD 1657FNL_49FWL AD	2654.35	684.35	-5685.13	599987.350	490591.373
ALTO 10H 80° 1662FNL_428FEL AD	2654.53	647.53	-868.11	599950.527	495408.389



SPUR ENERGY PARTNERS LLC.
Eddy County, NM (NAD83) NMEZ Grid
ALTO AMM PAD
ALTO AMM 10H
Lateral AsDrilled
Created By: Mekka Williams
eSomina Well Design
mekka@esominawelldesign.com

SPUR ENERGY PARTNERS LLC.

Eddy County, NM (NAD83) NMEZ Grid

ALTO AMM PAD

ALTO AMM 10H

Lateral

Design: Lateral AsDrilled

Standard Survey Report

28 February, 2023

Survey Report

Company:	SPUR ENERGY PARTNERS LLC.	Local Co-ordinate Reference:	Well ALTO AMM 10H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3472+20 @ 3492.00usft (AKITA57)
Site:	ALTO AMM PAD	MD Reference:	3472+20 @ 3492.00usft (AKITA57)
Well:	ALTO AMM 10H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral AsDrilled	Database:	PRIME_EDM

Project	Eddy County, NM (NAD83) NMEZ Grid		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	ALTO AMM PAD			
Site Position:		Northing:	599,303.000 usft	Latitude: 32.6474464
From: Map		Easting:	496,276.500 usft	Longitude: -104.4797350
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: -0.08 °

Well	ALTO AMM 10H			
Well Position	+N/-S	0.00 usft	Northing:	599,303.000 usft
	+E/-W	0.00 usft	Easting:	496,276.500 usft
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft
			Ground Level:	3,472.00 usft

Wellbore	Lateral				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	12/19/22	6.85	60.28	47,744.40000000

Design	Lateral AsDrilled			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	270.36

Survey Program	Date	02/27/23		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
146.00	1,148.00	Survey #1 (Lateral)	MWD+SAG+FDIR	OWSG MWD + Sag Correction + FDIR Correction
1,335.00	7,961.00	Survey #2 (Lateral)	MWD+SAG+FDIR	OWSG MWD + Sag Correction + FDIR Correction
8,030.00	8,030.00	Survey #3 (Lateral)	Projection	Projection

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
146.00	0.40	207.00	146.00	-0.45	-0.23	0.23	0.27	0.27	0.00	
232.00	0.40	235.60	232.00	-0.89	-0.62	0.61	0.23	0.00	33.26	
358.00	1.30	352.20	357.99	0.28	-1.17	1.17	1.21	0.71	92.54	
453.00	2.80	5.00	452.92	3.66	-1.12	1.14	1.64	1.58	13.47	
548.00	5.10	6.80	547.69	10.16	-0.41	0.48	2.42	2.42	1.89	
642.00	7.00	2.70	641.16	20.03	0.35	-0.22	2.07	2.02	-4.36	
737.00	8.40	358.70	735.31	32.75	0.47	-0.26	1.58	1.47	-4.21	
831.00	10.10	356.70	828.08	47.85	-0.16	0.47	1.84	1.81	-2.13	

Survey Report

Company:	SPUR ENERGY PARTNERS LLC.	Local Co-ordinate Reference:	Well ALTO AMM 10H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3472+20 @ 3492.00usft (AKITA57)
Site:	ALTO AMM PAD	MD Reference:	3472+20 @ 3492.00usft (AKITA57)
Well:	ALTO AMM 10H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral AsDrilled	Database:	PRIME_EDM

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
926.00	12.10	356.90	921.30	66.11	-1.18	1.60	2.11	2.11	0.21	
1,020.00	14.30	358.00	1,012.81	87.55	-2.12	2.67	2.36	2.34	1.17	
1,148.00	17.10	356.40	1,136.02	122.14	-3.85	4.62	2.21	2.19	-1.25	
1,335.00	21.09	358.42	1,312.70	183.23	-6.51	7.66	2.16	2.13	1.08	
1,461.00	22.89	0.58	1,429.53	230.40	-6.89	8.33	1.57	1.43	1.71	
1,587.00	25.31	1.23	1,544.54	281.84	-6.06	7.83	1.93	1.92	0.52	
1,711.00	25.40	1.78	1,656.59	334.92	-4.66	6.77	0.20	0.07	0.44	
1,775.00	25.29	1.80	1,714.43	362.30	-3.81	6.09	0.17	-0.17	0.03	
1,838.00	25.23	1.04	1,771.41	389.18	-3.14	5.59	0.52	-0.10	-1.21	
1,901.00	25.21	350.65	1,828.43	415.85	-5.08	7.69	7.02	-0.03	-16.49	
1,964.00	25.78	341.13	1,885.32	442.07	-11.69	14.47	6.56	0.90	-15.11	
2,027.00	26.85	332.22	1,941.81	467.63	-22.76	25.70	6.49	1.70	-14.14	
2,090.00	28.17	323.12	1,997.72	492.12	-38.32	41.41	6.99	2.10	-14.44	
2,152.00	30.41	313.41	2,051.82	514.63	-58.52	61.75	8.46	3.61	-15.66	
2,213.00	31.53	305.13	2,104.14	534.43	-82.79	86.15	7.22	1.84	-13.57	
2,277.00	34.24	298.79	2,157.90	552.74	-112.27	115.74	6.84	4.23	-9.91	
2,340.00	37.32	292.53	2,209.02	568.60	-145.46	149.03	7.59	4.89	-9.94	
2,402.00	41.00	287.14	2,257.10	581.80	-182.28	185.93	8.08	5.94	-8.69	
2,465.00	44.53	283.77	2,303.35	593.16	-223.50	227.23	6.68	5.60	-5.35	
2,526.00	48.26	282.39	2,345.41	603.13	-266.52	270.31	6.33	6.11	-2.26	
2,589.00	52.02	281.07	2,385.79	612.95	-313.86	317.71	6.18	5.97	-2.10	
2,652.00	55.46	277.45	2,423.05	621.09	-363.99	367.88	7.16	5.46	-5.75	
2,715.00	58.72	273.88	2,457.28	626.27	-416.60	420.53	7.03	5.17	-5.67	
2,746.00	59.85	273.82	2,473.12	628.06	-443.19	447.13	3.65	3.65	-0.19	
2,777.00	60.26	273.80	2,488.59	629.85	-469.99	473.94	1.32	1.32	-0.06	
2,808.00	60.45	273.55	2,503.92	631.57	-496.88	500.84	0.93	0.61	-0.81	
2,840.00	60.57	273.56	2,519.68	633.30	-524.68	528.65	0.38	0.38	0.03	
2,871.00	60.92	273.13	2,534.83	634.88	-551.68	555.66	1.66	1.13	-1.39	
2,902.00	60.93	273.12	2,549.89	636.36	-578.73	582.72	0.04	0.03	-0.03	
2,934.00	61.51	272.87	2,565.30	637.82	-606.74	610.74	1.94	1.81	-0.78	
2,965.00	63.74	272.41	2,579.55	639.09	-634.24	638.24	7.31	7.19	-1.48	
3,028.00	68.16	272.14	2,605.22	641.37	-691.71	695.73	7.03	7.02	-0.43	
3,091.00	72.49	271.80	2,626.42	643.41	-750.98	755.01	6.89	6.87	-0.54	
3,153.00	76.89	272.00	2,642.79	645.39	-810.74	814.78	7.10	7.10	0.32	
3,215.00	80.18	272.28	2,655.11	647.66	-871.45	875.50	5.32	5.31	0.45	
3,278.00	84.13	272.24	2,663.71	650.12	-933.80	937.86	6.27	6.27	-0.06	
3,342.00	88.82	270.85	2,667.64	651.84	-997.63	1,001.71	7.64	7.33	-2.17	
3,468.00	90.82	270.92	2,668.04	653.79	-1,123.61	1,127.70	1.59	1.59	0.06	
3,593.00	91.22	270.30	2,665.81	655.12	-1,248.58	1,252.68	0.59	0.32	-0.50	
3,721.00	90.63	270.14	2,663.75	655.61	-1,376.57	1,380.66	0.48	-0.46	-0.13	
3,846.00	90.18	270.97	2,662.86	656.82	-1,501.56	1,505.65	0.76	-0.36	0.66	
3,971.00	88.89	271.22	2,663.88	659.21	-1,626.53	1,630.64	1.05	-1.03	0.20	
4,097.00	89.34	271.02	2,665.83	661.67	-1,752.49	1,756.61	0.39	0.36	-0.16	

Survey Report

Company:	SPUR ENERGY PARTNERS LLC.	Local Co-ordinate Reference:	Well ALTO AMM 10H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3472+20 @ 3492.00usft (AKITA57)
Site:	ALTO AMM PAD	MD Reference:	3472+20 @ 3492.00usft (AKITA57)
Well:	ALTO AMM 10H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral AsDrilled	Database:	PRIME_EDM

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,223.00	89.84	270.80	2,666.73	663.67	-1,878.47	1,882.60	0.43	0.40	-0.17	
4,349.00	90.21	270.43	2,666.67	665.02	-2,004.46	2,008.60	0.42	0.29	-0.29	
4,476.00	90.73	270.38	2,665.63	665.92	-2,131.45	2,135.59	0.41	0.41	-0.04	
4,601.00	89.48	270.23	2,665.40	666.59	-2,256.45	2,260.59	1.01	-1.00	-0.12	
4,728.00	89.86	270.41	2,666.13	667.30	-2,383.44	2,387.59	0.33	0.30	0.14	
4,856.00	90.10	270.06	2,666.18	667.82	-2,511.44	2,515.59	0.33	0.19	-0.27	
4,982.00	90.23	270.10	2,665.81	668.00	-2,637.44	2,641.59	0.11	0.10	0.03	
5,107.00	90.45	269.69	2,665.07	667.77	-2,762.44	2,766.58	0.37	0.18	-0.33	
5,234.00	90.79	269.58	2,663.70	666.96	-2,889.43	2,893.56	0.28	0.27	-0.09	
5,359.00	91.00	269.47	2,661.75	665.92	-3,014.41	3,018.53	0.19	0.17	-0.09	
5,484.00	89.81	271.04	2,660.86	666.48	-3,139.40	3,143.52	1.58	-0.95	1.26	
5,610.00	90.04	270.85	2,661.03	668.56	-3,265.38	3,269.52	0.24	0.18	-0.15	
5,722.00	90.15	270.50	2,660.84	669.88	-3,377.37	3,381.51	0.33	0.10	-0.31	
5,841.00	90.23	270.54	2,660.45	670.96	-3,496.37	3,500.51	0.08	0.07	0.03	
5,959.00	90.25	270.38	2,659.95	671.90	-3,614.36	3,618.51	0.14	0.02	-0.14	
6,078.00	90.41	270.59	2,659.27	672.91	-3,733.35	3,737.51	0.22	0.13	0.18	
6,199.00	90.79	270.38	2,658.00	673.93	-3,854.34	3,858.50	0.36	0.31	-0.17	
6,320.00	91.13	270.22	2,655.97	674.57	-3,975.32	3,979.48	0.31	0.28	-0.13	
6,439.00	89.44	270.79	2,655.38	675.62	-4,094.31	4,098.48	1.50	-1.42	0.48	
6,556.00	89.93	271.27	2,656.02	677.72	-4,211.29	4,215.47	0.59	0.42	0.41	
6,678.00	90.77	271.51	2,655.28	680.68	-4,333.25	4,337.44	0.72	0.69	0.20	
6,804.00	90.28	271.40	2,654.12	683.88	-4,459.21	4,463.42	0.40	-0.39	-0.09	
6,931.00	90.67	271.45	2,653.07	687.04	-4,586.16	4,590.39	0.31	0.31	0.04	
7,056.00	89.89	269.97	2,652.46	688.59	-4,711.15	4,715.38	1.34	-0.62	-1.18	
7,182.00	90.03	269.67	2,652.55	688.19	-4,837.15	4,841.38	0.26	0.11	-0.24	
7,308.00	89.86	269.44	2,652.67	687.21	-4,963.14	4,967.36	0.23	-0.13	-0.18	
7,433.00	89.82	269.21	2,653.02	685.74	-5,088.13	5,092.34	0.19	-0.03	-0.18	
7,559.00	90.00	270.08	2,653.22	684.96	-5,214.13	5,218.33	0.71	0.14	0.69	
7,684.00	89.87	269.94	2,653.36	684.98	-5,339.13	5,343.33	0.15	-0.10	-0.11	
7,810.00	89.83	270.01	2,653.69	684.92	-5,465.13	5,469.32	0.06	-0.03	0.06	
7,934.00	89.77	269.82	2,654.12	684.74	-5,589.13	5,593.32	0.16	-0.05	-0.15	
7,961.00	89.88	269.75	2,654.20	684.64	-5,616.13	5,620.32	0.48	0.41	-0.26	
8,030.00	89.88	269.77	2,654.35	684.35	-5,685.13	5,689.31	0.03	0.00	0.03	

Survey Report

Company:	SPUR ENERGY PARTNERS LLC.	Local Co-ordinate Reference:	Well ALTO AMM 10H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3472+20 @ 3492.00usft (AKITA57)
Site:	ALTO AMM PAD	MD Reference:	3472+20 @ 3492.00usft (AKITA57)
Well:	ALTO AMM 10H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral AsDrilled	Database:	PRIME_EDM

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
ALTO 10H SHL 2310FNI	0.00	360.00	0.00	0.00	0.00	599,303.000	496,276.500	32.6474464	-104.4797350
- actual wellpath hits target center									
- Point									
ALTO 10H ESTKOP 192	0.00	360.00	1,771.41	389.18	-3.14	599,692.178	496,273.357	32.6485162	-104.4797470
- actual wellpath hits target center									
- Point									
ALTO 10H SECX 1687F	0.00	0.00	2,471.66	627.90	-440.69	599,930.896	495,835.810	32.6491707	-104.4811696
- actual wellpath hits target center									
- Point									
ALTO 10H FTP 1675FNI	0.00	360.00	2,528.59	634.25	-540.52	599,937.252	495,735.981	32.6491878	-104.4814940
- actual wellpath hits target center									
- Point									
ALTO 10H PBHL p2 166	0.00	360.00	2,650.00	679.90	-5,684.50	599,982.900	490,592.000	32.6492924	-104.4982071
- actual wellpath misses target center by 6.22usft at 8029.38usft MD (2654.35 TVD, 684.35 N, -5684.51 E)									
- Point									
ALTO 10H lstsby	0.00	360.00	2,654.20	684.64	-5,616.13	599,987.640	490,660.370	32.6493057	-104.4979850
- actual wellpath hits target center									
- Point									
ALTO 10H LTP 1657FNL	0.00	360.00	2,654.24	684.56	-5,634.23	599,987.561	490,642.273	32.6493054	-104.4980438
- actual wellpath misses target center by 18.10usft at 7961.00usft MD (2654.20 TVD, 684.64 N, -5616.13 E)									
- Point									
ALTO 10H TD 1657FNL	0.00	360.00	2,654.35	684.35	-5,685.13	599,987.350	490,591.373	32.6493046	-104.4982092
- actual wellpath hits target center									
- Point									
ALTO 10H 80° 1662FNL	0.00	0.00	2,654.53	647.53	-868.11	599,950.527	495,408.389	32.6492230	-104.4825584
- actual wellpath hits target center									
- Point									

Design Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	Comment	
1,838.00	1,771.41	389.18	-3.14	ESTKOP 1921FNL_437FWL AD	
2,743.10	2,471.66	627.90	-440.69	1687FNL_0FNL/FSL AD	
2,858.20	2,528.59	634.25	-540.52	FTP 1675FNL_100FEL AD	
3,211.61	2,654.53	647.53	-868.11	80° 1662FNL_428FEL AD	
7,979.10	2,654.24	684.56	-5,634.23	LTP 1657FNL_100FWL AD	
8,030.00	2,654.35	684.35	-5,685.13	TD 1657FNL_49FWL AD	

Checked By: _____

Approved By: _____

Date: _____

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015- 50159	² Pool Code 97565	³ Pool Name N. SEVEN RIVERS; GLORIETA-YESO
⁴ Property Code 333554	⁵ Property Name ALTO AMM 21	⁶ Well Number 10H
⁷ OGRID NO. 328947	⁸ Operator Name SPUR ENERGY PARTNERS LLC.	⁹ Elevation 3472'

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
E	22	19S	25E		2310	NORTH	440	WEST	EDDY

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
E	21	19S	25E		1662	NORTH	50	WEST	EDDY
¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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

¹⁶ <u>GEODETIC DATA</u> NAD 83 GRID - NM EAST <u>SURFACE LOCATION (SL)</u> N: 599303.0 - E: 496276.5 LAT: 32.6474464° N LONG: 104.4797350° W <u>FIRST TAKE POINT (FTP)</u> 1662' FNL & 100' FEL SEC 21 N: 599950.7 - E: 495735.7 LAT: 32.6492247° N LONG: 104.4814950° W <u>LAST TAKE POINT (LTP)</u> 1662' FNL & 100' FWL SEC 21 N: 599982.5 - E: 490641.9 LAT: 32.6492916° N LONG: 104.4980449° W <u>BOTTOM HOLE (BH)</u> N: 599982.9 - E: 490592.0 LAT: 32.6492923° N LONG: 104.4982073° W <u>CORNER DATA</u> NAD 83 GRID - NM EAST A: FOUND 10"x8"x2.5" LIMESTONE ROCK N: 596289.2 - E: 490540.3 B: FOUND SPIKE NAIL N: 601644.8 - E: 490542.7 C: FOUND 1/2" REBAR N: 601611.6 - E: 495833.4 D: FOUND SPIKE NAIL N: 601616.1 - E: 498466.7 E: FOUND 60D NAIL N: 601603.9 - E: 501084.3 F: FOUND 1/2" REBAR N: 596091.2 - E: 501054.3 G: FOUND 1/2" REBAR N: 596183.6 - E: 498448.0 H: FOUND 1" PIPE N: 596277.3 - E: 495841.8 I: FOUND 1/2" REBAR N: 596283.3 - E: 493191.2 J: FOUND 1" IRON ROD N: 598944.5 - E: 495837.1 Bottom Hole Location: Prime Solution Services MWD Original hole: Final Station 7961MD Displacement = 5657.71' at a 276.95 Azimuth API # 30-015-50159	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 working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Sarah Chapman</i> 11/03/2022 Signature Date SARAH CAPMAN Printed Name SCHAPMAN@SPURENERGY.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. 07/08/22 Date of Survey Signature and Seal of Professional Surveyor Number Job No: LS22070816
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WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Section 1 - Operator and Well Information

Submittal Type: ☒ New Well ☐ Workover ☐ Deepening ☐ Plugback ☐ Different Reservoir ☐ C-144 Closure Attachment ☐ Other	
Operator Name: SPUR ENERGY PARTNERS LLC	OGRID: 328947
Property Name and Well Number: ALTO AMM 21 10H	Property Code: 333554
Mineral Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal	API Number: 30-0 15-50159
Pool Name: N. SEVEN RIVERS; GLORIETA-YESO	Pool Code: 97565

Section 2 – Well Location										
	Ul or lot no.	Section	Township	Range	Lot Id	Feet from	N/S Line	Feet from	E/W Line	County
SHL:	E	22	19S	25E		2310	NORTH	440	WEST	EDDY
BHL	E	21	19S	25E		1657	NORTH	49	WEST	EDDY

Section 3 – Completion Information

Date T.D. Reached 02/25/2023	Total Measured Depth of Well 2654'V/8030'M	Acid Volume (bbls) 679	☒ Directional Survey Submitted ☐ Deviation Survey Submitted
Date Rig Released 02/26/2023	Plug-Back Measured Depth 2654'V/7989'M	Completion Fluid Used (bbls) 291,438	Were Logs Ran (Y/N) Y
Completion Date 04/27/2023	Perforations (MD and TVD) 3037'M-7965'M/2608'V-2654'V	Completion Proppant Used (lbs) 5,021,030	List Type of Logs Ran if applicable: GAMMA

Section 4 – Action IDs for Submissions and Order Numbers

Surface Casing Action ID: 332660	UIC Permit/Order (UIC wells only) ☐ Yes ☒ No, Order No.
Intermediate 1 Casing Action ID:	NOI Recomplete Action ID (if applicable):
Intermediate 2 Casing Action ID:	NOI Plugback Action ID (if applicable):
Production Casing Action ID: 332660	Cement Squeeze Action ID (if applicable):
Tubing Action ID: 338271	All casing was pressure tested in accordance with NMAC ☒ Yes ☐ No
Liner 1 Action ID:	Casing was installed prior to Action ID system (Y/N): N

Section 5 – Test Data

Date First Production 05/07/2023	Production Method PUMPING ON ESP	Well Status PRODUCING	Gas – Oil Ratio
Date of Test 06/02/2023	Choke Size N/A	Flowing Tubing Pressure 225	Casing Pressure 110
24 hr Oil (bbls) 923	24 hr Gas (MCF) 135	24 hr Water (bbls) 1961	Oil Gravity - API
Disposition of Gas: SOLD			

Section 6 – Pits

☐ A temporary pit was used at the well. If so, attach a plat with the location of the temporary pit.
☒ A Closed Loop System was used.
☐ If an on-site burial was used at the well, report the exact location of the on-site burial:
LAT: _____ LONG: _____

Section 7 - Operator Signature and Certification

☒ I hereby certify that the required Water Use Report has been, or will be, submitted for this well’s completion.	
☒ I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well’s completion.	
☒ 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.	
Name SARAH CHAPMAN Sarah Chapman	
Title REGULATORY DIRECTOR	Date 01/27/2025

South Formations				North Formations			
Formation/Zone	MD	TVD	W/O/G	Formation/Zone	MD	TVD	W/O/G
T. Anhy				T. San Jose			
T. Salt				T. Nacimiento			
B. Salt				T. Ojo Alamo			
T. Yates				T. Kirtland			
T. 7 Rivers				T. Fruitland			
T. Queen				T. Pictured Cliffs			
T. Grayburg	345'	345'	O/G	T. Lewis Shale			
T. San Andres	705'	705'	O/G	T. Chacra			
T. Glorieta	2250'	2250'	O/G	T. Cliff House			
T. Yeso				T. Menefee			
T. Paddock	2370'	2370'	O/G	T. Point Lookout			
T. Blinebry	3065'	3065'	O/G	T. Mancos			
T.Tubb				T. Gallup			
T. Drinkard				T. Greenhorn			
T. Abo				T. Graneros			
T. Wolfcamp				T. Dakota			
T. Penn				T. Morrison			
T. Cisco				T. Bluff			
T. Canyon				T.Todilto			
T. Strawn				T. Entrada			
T. Atoka				T. Wingate			
T. Morrow				T. Chinle			
T. Barnett Shale				T. Permian			
T. Miss				T. Penn A"			
T. Woodford Shale				T. Penn. "B"			
T. Devonian				T. Penn. "C"			
T. Silurian				T. Penn. "D"			
T. Fusselman				T. Leadville			
T. Montoya				T. Madison			
T. Simpson				T. Elbert			
T. McKee				T. McCracken			
T. Waddell				T. Ignacio Otzte			
T. Connel				T. Granite			
T. Ellenburger				T. Hermosa			
T. Gr. Wash				T. De Chelly			
T. Delaware Sand				T. Pinkerton			
T. Lamar Lime							
T. Bell Canyon							
T. Cherry Canyon							
T. Brushy Canyon							
T. Bone Springs							
T. 1st BS Sand							
T. 2nd BS Carbonate							
T. 2nd BS Sand							
T. 3rd BS Carbonate							
T. 3rd BS Sand							

API #	30-015-50159	Alto Amm 21 10H	County, ST	Eddy County, NM
Operator	Spur Energy Partners		Sec-Twn-Rng	22-19S-25E
Field	North Seven Rivers		Footage	2310' FNL and 440' FWL
Spud Date	2/22/2023		Survey	

RKB	3492'
GL	3472'

Hole Size	12-1/4"
TOC	surf
Method	circ returns

Csg Depth	1210'
Size	9-5/8"
Weight	36ppf
Grade	J55
Connections	BTC
Cement	525sx

Surface csg

Hole Size	8-3/4"	8-3/4"
TOC	surf	
Method	circ returns	

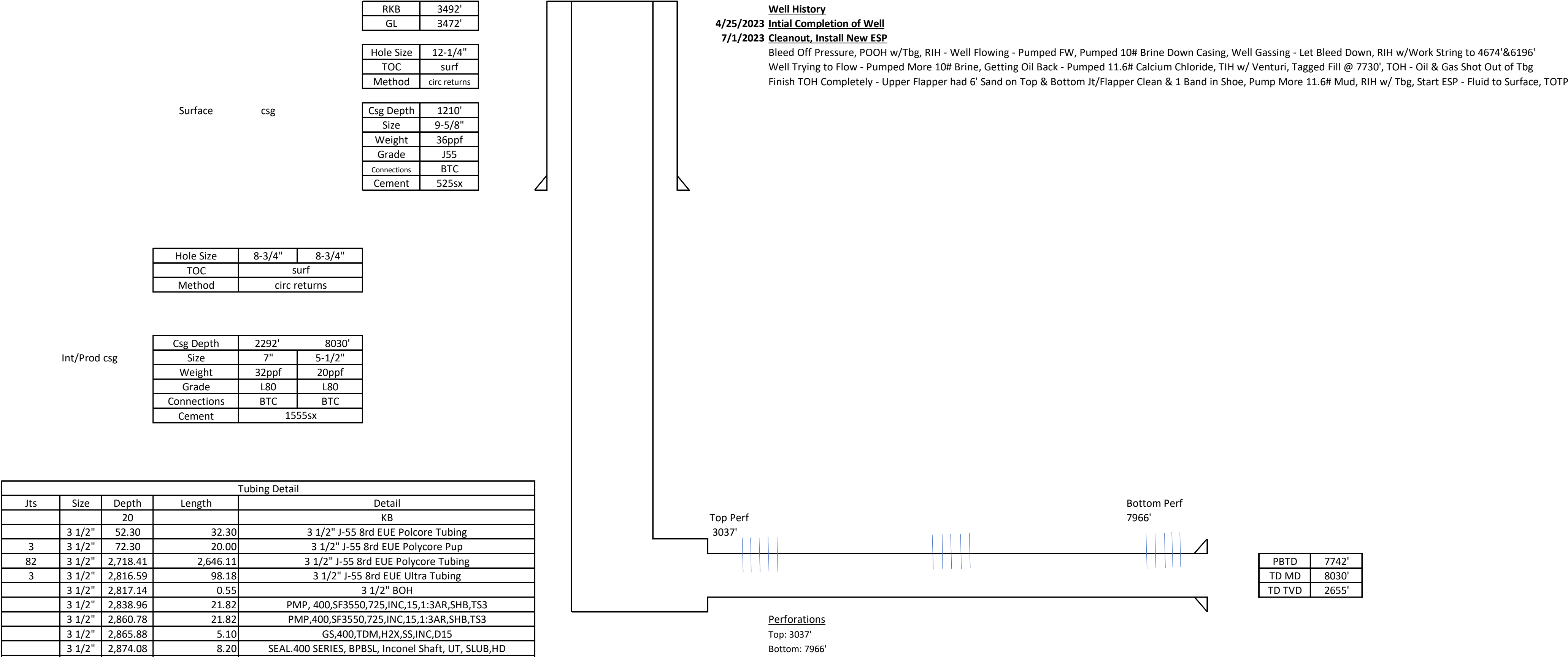
Int/Prod csg

Csg Depth	2292'	8030'
Size	7"	5-1/2"
Weight	32ppf	20ppf
Grade	L80	L80
Connections	BTC	BTC
Cement	155Ssx	

Tubing Detail				
Jts	Size	Depth	Length	Detail
		20		KB
	3 1/2"	52.30	32.30	3 1/2" J-55 8rd EUE Polcore Tubing
3	3 1/2"	72.30	20.00	3 1/2" J-55 8rd EUE Polcore Pup
82	3 1/2"	2,718.41	2,646.11	3 1/2" J-55 8rd EUE Polcore Tubing
3	3 1/2"	2,816.59	98.18	3 1/2" J-55 8rd EUE Ultra Tubing
	3 1/2"	2,817.14	0.55	3 1/2" BOH
	3 1/2"	2,838.96	21.82	PMP, 400,SF3550,725,INC,15,1:3AR,SHB,TS3
	3 1/2"	2,860.78	21.82	PMP,400,SF3550,725,INC,15,1:3AR,SHB,TS3
	3 1/2"	2,865.88	5.10	GS,400,TDM,H2X,SS,INC,D15
	3 1/2"	2,874.08	8.20	SEAL,400 SERIES, BPBSL, Inconel Shaft, UT, SLUB,HD
	3 1/2"	2,882.28	8.20	SEAL, 400 SERIES, BPBSL, Inconel Shaft, SLUB, HD
	3 1/2"	2,900.03	17.75	MTR,456, FMS2,150HP,2460V,43A,10RTR
	3 1/2"	2,902.06	2.03	Senor, 125c,Triton i, Carbon Steel,
	2 3/8"	2,908.06	6.00	2 3/8" Pup Joint
	3 3/8"	2,908.56	0.50	2 3/8" Bull Plug

Rod Detail					
Rods	Size	Depth	Length	Guides	Detail

Last Update	7/17/2023
By	Cristian Gonzalez



Well History

4/25/2023 **Intial Completion of Well**

7/1/2023 **Cleanout, Install New ESP**

Bleed Off Pressure, POOH w/Tbg, RIH - Well Flowing - Pumped FW, Pumped 10# Brine Down Casing, Well Gassing - Let Bleed Down, RIH w/Work String to 4674’&6196’

Well Trying to Flow - Pumped More 10# Brine, Getting Oil Back - Pumped 11.6# Calcium Chloride, TIH w/ Venturi, Tagged Fill @ 7730’, TOH - Oil & Gas Shot Out of Tbg

Finish TOH Completely - Upper Flapper had 6' Sand on Top & Bottom It/Flapper Clean & 1 Band in Shoe, Pump More 11.6# Mud, RIH w/ Tbg, Start ESP - Fluid to Surface, TOTP

PBDT	7742'
TD MD	8030'
TD TVD	2655'

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

General Information
Phone: (505) 629-6116

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

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

ACKNOWLEDGMENTS

Action 425181

ACKNOWLEDGMENTS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 425181
	Action Type: [C-104] Completion Packet - New Well (C-104NW)

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.
☒	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.

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

CONDITIONS

Action 425181

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 425181
	Action Type: [C-104] Completion Packet - New Well (C-104NW)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	1/29/2025