

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 50H	Property Code: 333554
Mineral Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal	API Number: 30-0 15-50161
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
L	22	19S	25E		1901' FSL	422' FWL	32.6443120	-104.479783	EDDY

Section 3 – Completion Information

Producing Method	Ready Date	Perforations MD	Perforations TVD
PUMPING ON ESP	04/27/2023	3810'-8876'	3226'- 3182'

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): 210163	Communitization Agreement ☐ Yes ☒ No, Order No.
Surface Casing Action ID: 331601	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: 331601	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: TUBING 338008	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	Date
REGULATORY DIRECTOR	01/08/2025

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 30-015-50161	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 50H
⁷ GRID NO. 328947	⁸ Operator Name SPUR ENERGY PARTNERS LLC.	⁹ Elevation 3471'

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
L	22	19S	25E		1901	SOUTH	422	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
L	21	19S	25E		1848	SOUTH	57	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>GEODEIC DATA</u> NAD 83 GRID - NM EAST <u>SURFACE LOCATION (SL)</u> N: 598162.7 - E: 496259.9 LAT: 32.6443120° N LONG: 104.4797839° W <u>FIRST TAKE POINT (FTP)</u> 1841' FSL & 109' FEL SEC 21 N: 598118.0 - E: 495729.5 LAT: 32.6441870° N LONG: 104.4815067° W MD = 3810.0 - TVD = 3225.8 <u>LAST TAKE POINT (LTP)</u> 1846' FSL & 125' FWL SEC 21 N: 598134.8 - E: 490666.5 LAT: 32.6442129° N LONG: 104.4979559° W MD = 8876.0 - TVD = 3181.9 <u>BOTTOM HOLE (BH)</u> N: 598136.9 - E: 490597.7 LAT: 32.6442182° N LONG: 104.4981793° W MD = 8945.0 - TVD = 3176.6 <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>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> <i>Sarah Chapman</i> 04/20/2023 Signature Date SARAH CHAPMAN Printed Name SCHAPMAN@SPURENERGY.COM E-mail Address ¹⁸ SURVEYOR CERTIFICATION <i>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.</i> 04/02/2023 Date of Survey Signature and Seal of Professional Surveyor 19680 Certificate Number Job No: LS220708120AC
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February 06th , 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 050H
POOLS:97565 N SEVEN RIVERS;GLORIETA-YESO
EDDY COUNTY, NM
API Number: 30-015-50161

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: 119'– 8878' MD projection to 8945MD
Date Performed: 12/27/2022 – 1/31/2023
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.

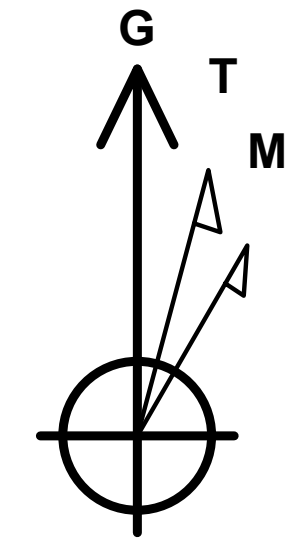
Joe Vocioni
MWD Operations Manager

713-517-3120

jvocioni@primesolutionsvcs.com

SPUR ENERGY PARTNERS LLC.

Project: Eddy County, NM (NAD83) NMEZ Grid
Site: ALTO AMM PAD
Well: ALTO AMM 50H
Wellbore: Lateral
Design: Lateral AsDrilled



3471+20 @ 3491.00usft (_AKITA57)
North American Datum 1983

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

Magnetic Field
Strength: 47743.3nT
Dip Angle: 60.27°
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)

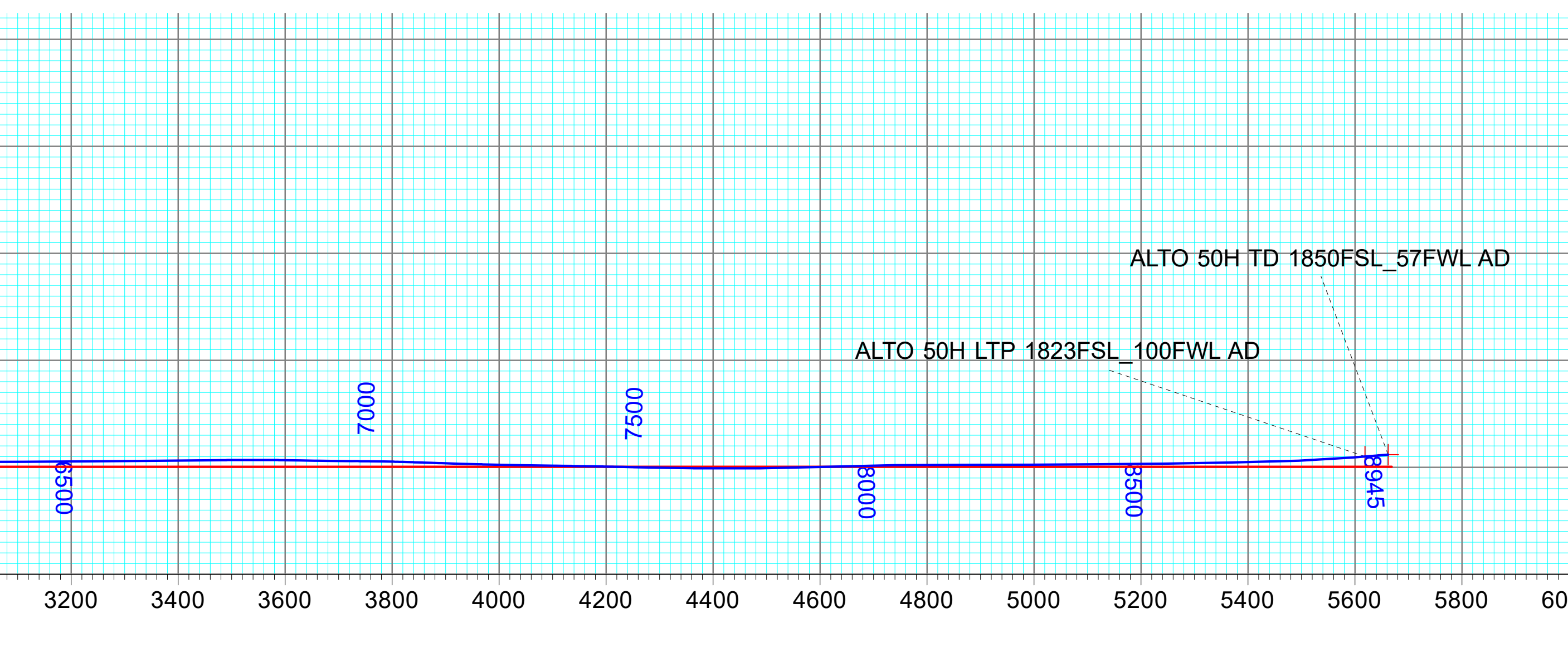
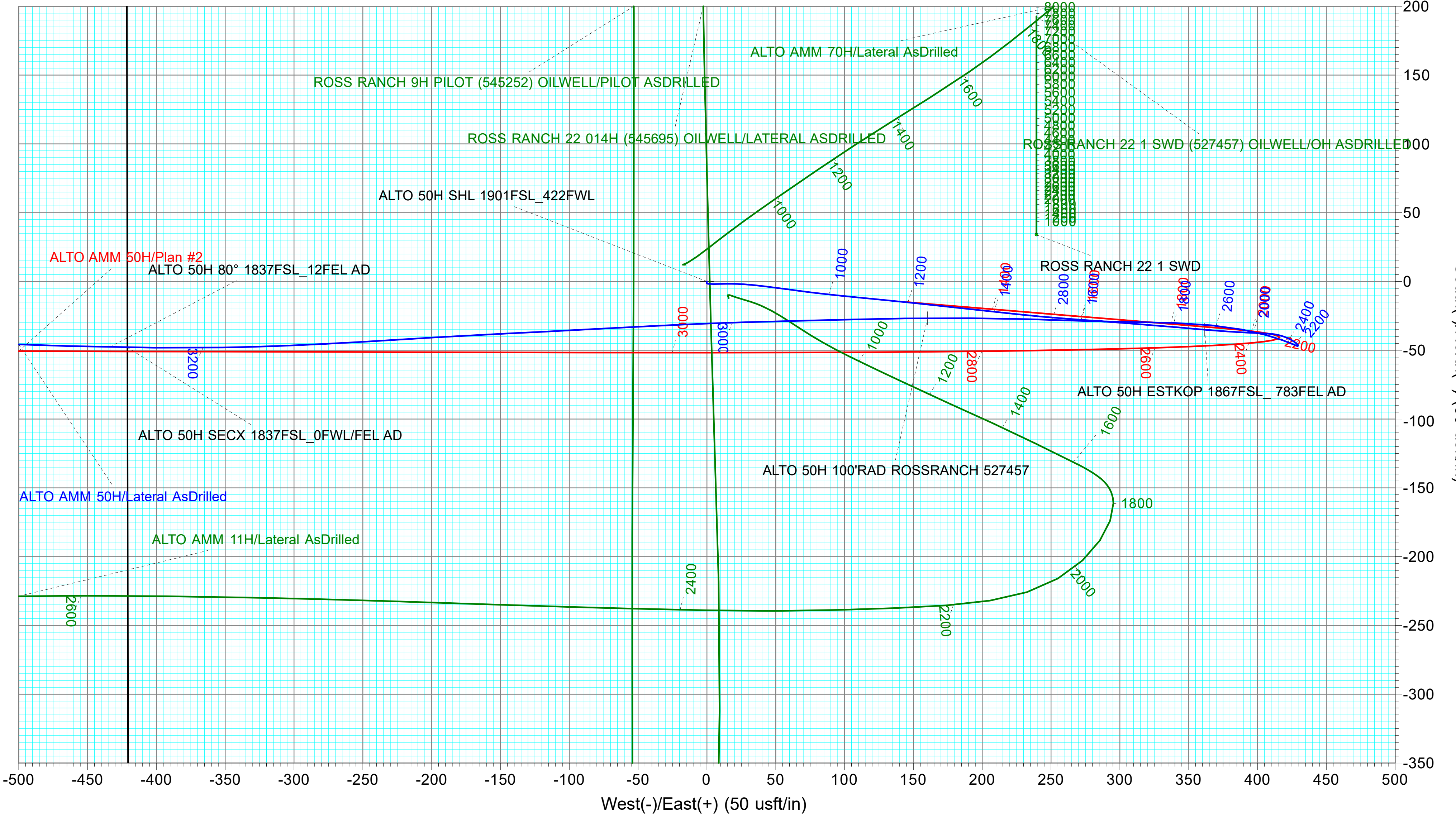
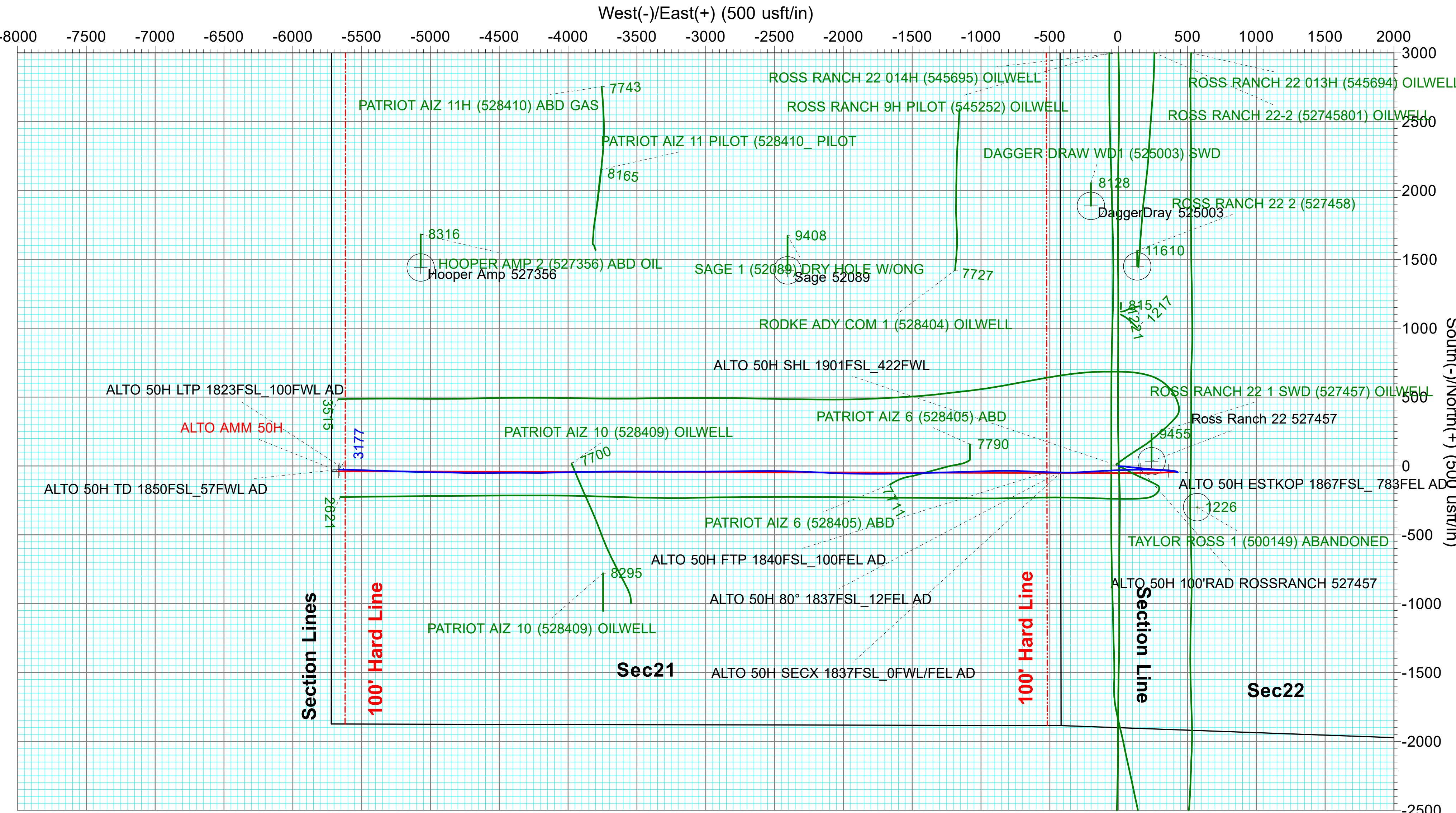
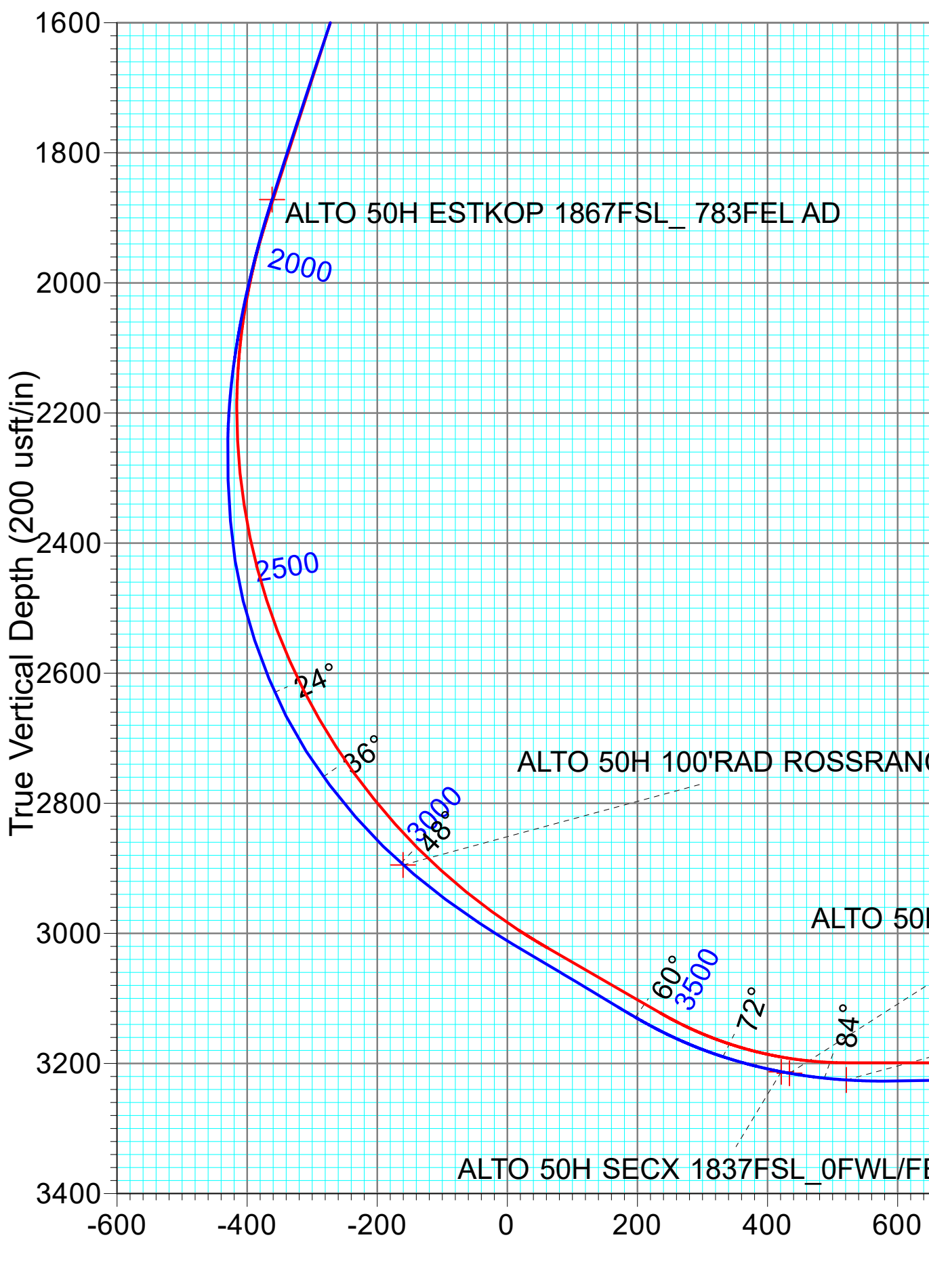
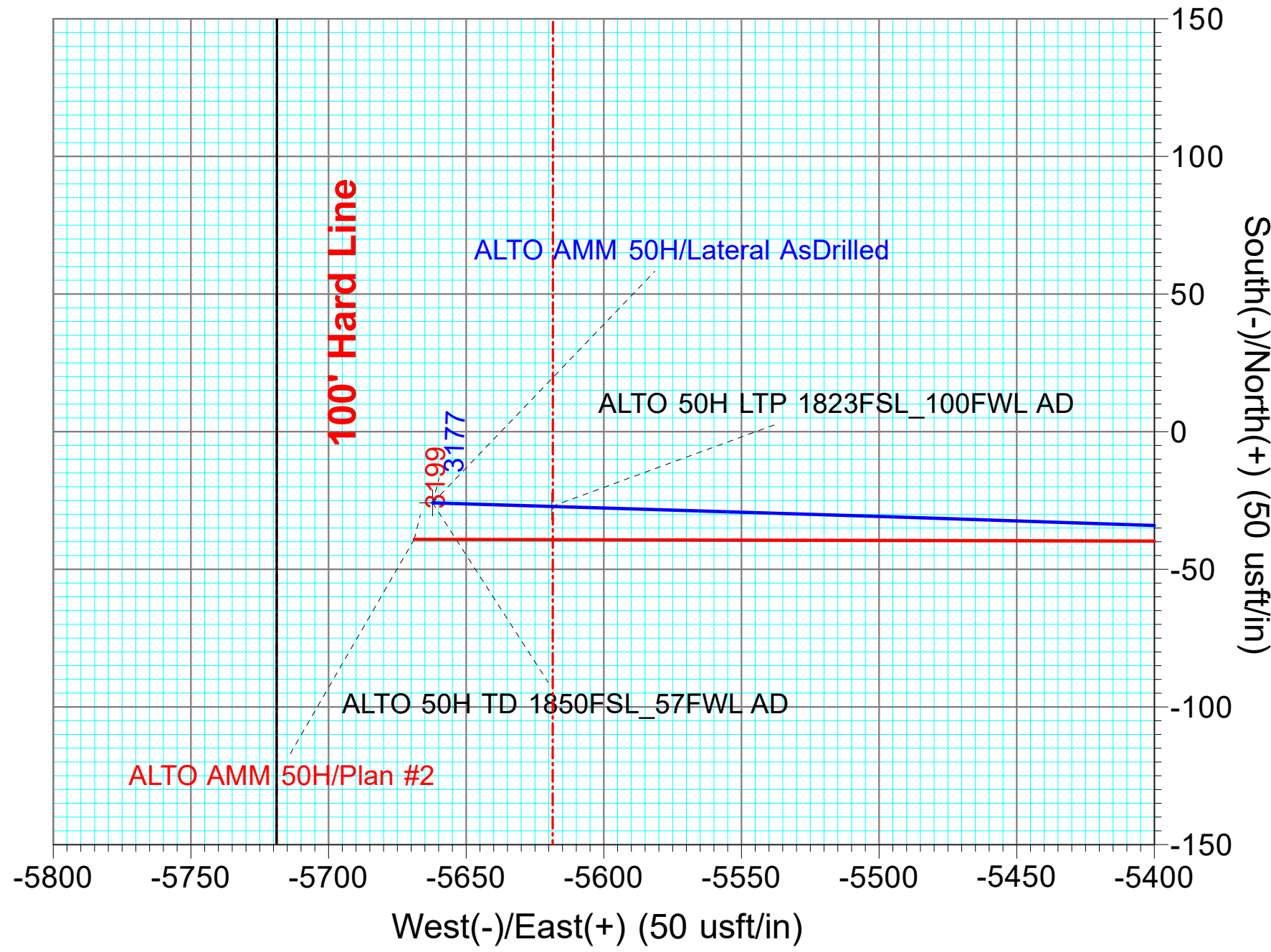
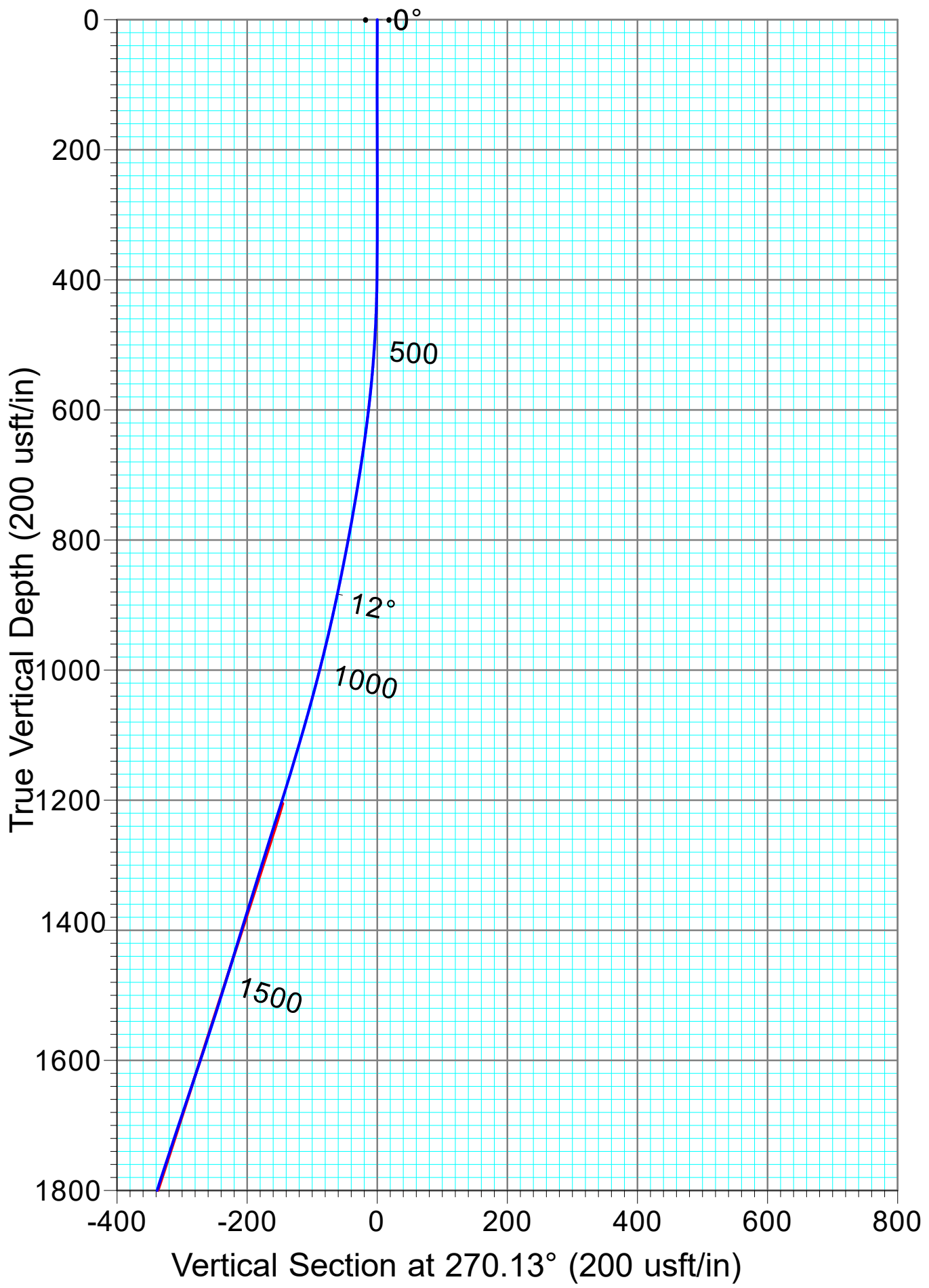
To convert a Magnetic Direction to a Grid Direction, Add 6.93°

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Annotation
1922.00	18.05	95.02	1871.85	-35.01	361.67	ESTKOP 1867FSL_ 783FEL AD
3031.00	48.29	269.61	2894.85	-26.68	160.32	100'RAD ROSSRANCH 527457
3700.00	79.07	270.95	3212.80	-47.77	-421.29	SECX 1837FSL_0FWL/FEL AD
3712.65	80.00	271.07	3215.10	-47.55	-433.73	80° 1837FSL_12FEL AD
3800.90	86.52	272.23	3225.46	-45.10	-521.29	FTP 1840FSL_100FEL AD
8901.50	94.40	271.71	3179.92	-27.11	-5618.84	LTP 1823FSL_100FWL AD
8945.00	94.40	271.71	3176.58	-25.82	-5662.19	TD 1850FSL_57FWL

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
ALTO 50H SHL 1901FSL_422FWL	-1.00	0.00	0.00	598162.700	496259.900
ALTO 50H ESTKOP 1867FSL_ 783FEL AD	1871.85	-35.01	361.67	598127.685	496621.571
ALTO 50H 100'RAD ROSSRANCH 527457	2894.85	-26.68	160.32	598136.017	496420.216
ALTO 50H TD 1850FSL_57FWL AD	3176.58	-25.82	-5662.20	598136.880	490597.705
ALTO 50H LTP 1823FSL_100FWL AD	3179.92	-27.11	-5618.84	598135.586	490641.058
ALTO 50H SECX 1837FSL_0FWL/FEL AD	3212.80	-47.77	-421.29	598114.926	495838.609
ALTO 50H 80° 1837FSL_12FEL AD	3215.10	-47.55	-433.73	598115.145	495826.172
ALTO 50H FTP 1840FSL_100FEL AD	3225.46	-45.10	-521.29	598117.596	495738.615



SPUR ENERGY PARTNERS LLC.
Eddy County, NM (NAD83) NMEZ Grid
ALTO AMM PAD
ALTO AMM 50H
Lateral AsDrilled
Created By: Mekka Williams
eSomnia Well Design
mekka@esominawell.com

SPUR ENERGY PARTNERS LLC.

Eddy County, NM (NAD83) NMEZ Grid

ALTO AMM PAD

ALTO AMM 50H

Lateral

Design: Lateral AsDrilled

Standard Survey Report

06 February, 2023

Survey Report

Company:	SPUR ENERGY PARTNERS LLC.	Local Co-ordinate Reference:	Well ALTO AMM 50H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3471+20 @ 3491.00usft (_AKITA57)
Site:	ALTO AMM PAD	MD Reference:	3471+20 @ 3491.00usft (_AKITA57)
Well:	ALTO AMM 50H	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 50H			
Well Position	+N/-S	0.00 usft	Northing:	598,162.700 usft
	+E/-W	0.00 usft	Easting:	496,259.900 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft
			Ground Level:	3,471.00 usft

Wellbore	Lateral				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	12/19/22	6.85	60.27	47,743.30000000

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	270.13

Survey Program	Date	02/06/23		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
119.00	1,137.00	Survey #1 (Lateral)	MWD+SAG+FDIR	OWSG MWD + Sag Correction + FDIR Correction
1,229.00	8,878.00	Survey #2 (Lateral)	MWD+SAG+FDIR	OWSG MWD + Sag Correction + FDIR Correction
8,945.00	8,945.00	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	
119.00	0.20	184.60	119.00	-0.21	-0.02	0.02	0.17	0.17	0.00	
150.00	0.10	133.80	150.00	-0.28	0.00	0.00	0.51	-0.32	-163.87	
236.00	0.40	208.00	236.00	-0.60	-0.09	0.09	0.45	0.35	86.28	
321.00	0.40	174.30	321.00	-1.15	-0.20	0.20	0.27	0.00	-39.65	
416.00	1.10	100.30	415.99	-1.65	0.73	-0.74	1.12	0.74	-77.89	
510.00	4.00	89.90	509.89	-1.80	4.90	-4.90	3.11	3.09	-11.06	
605.00	6.90	88.80	604.45	-1.68	13.92	-13.92	3.05	3.05	-1.16	
699.00	9.00	93.80	697.54	-2.05	26.90	-26.91	2.35	2.23	5.32	

Survey Report

Company:	SPUR ENERGY PARTNERS LLC.	Local Co-ordinate Reference:	Well ALTO AMM 50H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3471+20 @ 3491.00usft (_AKITA57)
Site:	ALTO AMM PAD	MD Reference:	3471+20 @ 3491.00usft (_AKITA57)
Well:	ALTO AMM 50H	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)
794.00	10.60	97.10	791.15	-3.62	42.99	-43.00	1.78	1.68	3.47
888.00	12.00	97.80	883.33	-6.01	61.25	-61.26	1.50	1.49	0.74
983.00	14.00	96.80	975.89	-8.72	82.45	-82.47	2.12	2.11	-1.05
1,077.00	15.70	95.50	1,066.74	-11.28	106.40	-106.43	1.84	1.81	-1.38
1,137.00	16.60	95.30	1,124.38	-12.85	123.01	-123.04	1.50	1.50	-0.33
1,229.00	17.64	96.16	1,212.30	-15.56	149.96	-150.00	1.16	1.13	0.93
1,356.00	17.39	96.35	1,333.41	-19.72	187.95	-188.00	0.20	-0.20	0.15
1,483.00	17.00	96.04	1,454.73	-23.78	225.28	-225.33	0.32	-0.31	-0.24
1,608.00	18.51	94.31	1,573.78	-27.19	263.24	-263.30	1.28	1.21	-1.38
1,733.00	18.48	94.19	1,692.32	-30.13	302.78	-302.85	0.04	-0.02	-0.10
1,860.00	18.10	95.03	1,812.91	-33.33	342.51	-342.58	0.36	-0.30	0.66
1,922.00	18.05	95.02	1,871.85	-35.01	361.67	-361.75	0.08	-0.08	-0.02
1,985.00	15.45	93.86	1,932.17	-36.43	379.77	-379.85	4.16	-4.13	-1.84
2,047.00	13.44	92.18	1,992.21	-37.26	395.21	-395.29	3.31	-3.24	-2.71
2,109.00	11.09	93.80	2,052.79	-37.93	408.36	-408.45	3.83	-3.79	2.61
2,173.00	8.75	110.05	2,115.84	-40.01	419.08	-419.17	5.67	-3.66	25.39
2,237.00	5.87	125.20	2,179.32	-43.57	426.33	-426.43	5.38	-4.50	23.67
2,299.00	2.26	146.24	2,241.15	-46.41	429.60	-429.71	6.20	-5.82	33.94
2,361.00	2.20	290.46	2,303.13	-47.01	429.17	-429.27	6.85	-0.10	232.61
2,424.00	4.92	293.77	2,366.01	-45.50	425.56	-425.66	4.33	4.32	5.25
2,486.00	9.49	290.29	2,427.50	-42.66	418.33	-418.42	7.40	7.37	-5.61
2,549.00	14.07	285.18	2,489.16	-38.85	406.06	-406.15	7.45	7.27	-8.11
2,612.00	19.13	280.88	2,549.52	-34.89	388.52	-388.60	8.26	8.03	-6.83
2,675.00	22.21	275.47	2,608.46	-31.81	366.52	-366.59	5.75	4.89	-8.59
2,738.00	27.12	272.10	2,665.70	-30.14	340.30	-340.37	8.10	7.79	-5.35
2,801.00	32.45	270.64	2,720.36	-29.43	309.03	-309.09	8.54	8.46	-2.32
2,864.00	37.20	271.85	2,772.06	-28.62	273.07	-273.14	7.62	7.54	1.92
2,927.00	40.95	271.73	2,820.96	-27.39	233.39	-233.45	5.95	5.95	-0.19
2,989.00	45.45	270.30	2,866.14	-26.66	190.96	-191.02	7.43	7.26	-2.31
3,053.00	49.78	269.28	2,909.28	-26.84	143.70	-143.77	6.87	6.77	-1.59
3,115.00	53.45	268.38	2,947.77	-27.85	95.13	-95.19	6.03	5.92	-1.45
3,178.00	56.60	268.63	2,983.88	-29.19	43.53	-43.59	5.01	5.00	0.40
3,210.00	57.50	268.17	3,001.28	-29.94	16.68	-16.75	3.06	2.81	-1.44
3,241.00	59.25	267.42	3,017.54	-30.96	-9.69	9.62	6.01	5.65	-2.42
3,272.00	59.48	267.17	3,033.33	-32.22	-36.33	36.26	1.02	0.74	-0.81
3,303.00	59.47	267.01	3,049.08	-33.57	-63.00	62.93	0.45	-0.03	-0.52
3,335.00	59.22	266.98	3,065.39	-35.02	-90.49	90.41	0.79	-0.78	-0.09
3,366.00	59.14	267.06	3,081.28	-36.40	-117.08	117.00	0.34	-0.26	0.26
3,397.00	58.89	267.12	3,097.24	-37.75	-143.62	143.54	0.82	-0.81	0.19
3,428.00	58.84	267.02	3,113.26	-39.10	-170.12	170.03	0.32	-0.16	-0.32
3,460.00	60.04	266.64	3,129.53	-40.63	-197.63	197.54	3.89	3.75	-1.19
3,492.00	62.24	266.33	3,144.98	-42.35	-225.61	225.51	6.93	6.88	-0.97
3,554.00	67.47	267.11	3,171.31	-45.55	-281.62	281.51	8.51	8.44	1.26

Survey Report

Company:	SPUR ENERGY PARTNERS LLC.	Local Co-ordinate Reference:	Well ALTO AMM 50H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3471+20 @ 3491.00usft (_AKITA57)
Site:	ALTO AMM PAD	MD Reference:	3471+20 @ 3491.00usft (_AKITA57)
Well:	ALTO AMM 50H	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)
3,618.00	72.93	268.65	3,192.99	-47.76	-341.77	341.66	8.83	8.53	2.41
3,680.00	77.59	270.75	3,208.76	-48.06	-401.71	401.60	8.20	7.52	3.39
3,743.00	82.24	271.37	3,219.79	-46.92	-463.71	463.60	7.44	7.38	0.98
3,805.00	86.82	272.29	3,225.70	-44.94	-525.37	525.27	7.53	7.39	1.48
3,868.00	90.23	272.54	3,227.32	-42.29	-588.29	588.19	5.43	5.41	0.40
3,931.00	91.64	272.85	3,226.29	-39.33	-651.21	651.12	2.29	2.24	0.49
4,079.00	90.23	270.22	3,223.87	-35.36	-799.12	799.04	2.02	-0.95	-1.78
4,203.00	90.48	268.45	3,223.11	-36.80	-923.10	923.02	1.44	0.20	-1.43
4,328.00	90.48	268.10	3,222.06	-40.57	-1,048.04	1,047.95	0.28	0.00	-0.28
4,454.00	91.72	268.57	3,219.64	-44.23	-1,173.96	1,173.86	1.05	0.98	0.37
4,580.00	91.02	268.23	3,216.63	-47.74	-1,299.88	1,299.77	0.62	-0.56	-0.27
4,705.00	93.09	268.66	3,212.15	-51.13	-1,424.74	1,424.62	1.69	1.66	0.34
4,830.00	92.64	268.59	3,205.90	-54.13	-1,549.55	1,549.42	0.36	-0.36	-0.06
4,955.00	91.44	269.49	3,201.45	-56.22	-1,674.45	1,674.32	1.20	-0.96	0.72
5,062.00	90.37	269.42	3,199.76	-57.24	-1,781.43	1,781.30	1.00	-1.00	-0.07
5,188.00	89.83	271.43	3,199.54	-56.31	-1,907.42	1,907.29	1.65	-0.43	1.60
5,313.00	88.07	272.08	3,201.83	-52.48	-2,032.34	2,032.21	1.50	-1.41	0.52
5,433.00	88.14	272.50	3,205.80	-47.69	-2,152.17	2,152.06	0.35	0.06	0.35
5,553.00	88.29	272.28	3,209.53	-42.68	-2,272.01	2,271.91	0.22	0.13	-0.18
5,675.00	90.24	271.23	3,211.10	-38.95	-2,393.94	2,393.84	1.82	1.60	-0.86
5,793.00	91.81	270.50	3,208.99	-37.17	-2,511.90	2,511.81	1.47	1.33	-0.62
5,914.00	93.54	270.11	3,203.34	-36.52	-2,632.76	2,632.67	1.47	1.43	-0.32
6,032.00	92.92	268.45	3,196.69	-38.00	-2,750.56	2,750.47	1.50	-0.53	-1.41
6,152.00	91.49	269.25	3,192.08	-40.41	-2,870.44	2,870.34	1.37	-1.19	0.67
6,272.00	90.47	270.32	3,190.02	-40.86	-2,990.42	2,990.32	1.23	-0.85	0.89
6,393.00	89.91	269.89	3,189.62	-40.64	-3,111.42	3,111.32	0.58	-0.46	-0.36
6,513.00	90.87	269.68	3,188.81	-41.09	-3,231.41	3,231.31	0.82	0.80	-0.18
6,638.00	90.04	270.50	3,187.81	-40.89	-3,356.41	3,356.31	0.93	-0.66	0.66
6,763.00	90.94	270.16	3,186.74	-40.17	-3,481.40	3,481.30	0.77	0.72	-0.27
6,889.00	88.89	270.01	3,186.93	-39.99	-3,607.39	3,607.29	1.63	-1.63	-0.12
7,015.00	89.63	269.25	3,188.56	-40.80	-3,733.38	3,733.28	0.84	0.59	-0.60
7,142.00	87.91	269.14	3,191.28	-42.58	-3,860.33	3,860.22	1.36	-1.35	-0.09
7,267.00	88.69	268.77	3,194.99	-44.86	-3,985.25	3,985.14	0.69	0.62	-0.30
7,392.00	89.26	267.98	3,197.23	-48.41	-4,110.18	4,110.06	0.78	0.46	-0.63
7,518.00	88.68	270.40	3,199.49	-50.19	-4,236.14	4,236.01	1.97	-0.46	1.92
7,643.00	89.23	270.31	3,201.77	-49.41	-4,361.12	4,360.99	0.45	0.44	-0.07
7,770.00	90.73	269.43	3,201.82	-49.70	-4,488.11	4,487.99	1.37	1.18	-0.69
7,897.00	91.64	269.01	3,199.19	-51.43	-4,615.07	4,614.94	0.79	0.72	-0.33
8,022.00	91.24	271.63	3,196.05	-50.73	-4,740.02	4,739.89	2.12	-0.32	2.10
8,148.00	89.28	271.31	3,195.48	-47.50	-4,865.97	4,865.85	1.58	-1.56	-0.25
8,273.00	90.88	270.77	3,195.30	-45.23	-4,990.94	4,990.83	1.35	1.28	-0.43
8,398.00	89.85	271.87	3,194.51	-42.35	-5,115.90	5,115.79	1.21	-0.82	0.88
8,524.00	91.19	271.44	3,193.36	-38.71	-5,241.84	5,241.74	1.12	1.06	-0.34

Survey Report

Company:	SPUR ENERGY PARTNERS LLC.	Local Co-ordinate Reference:	Well ALTO AMM 50H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3471+20 @ 3491.00usft (_AKITA57)
Site:	ALTO AMM PAD	MD Reference:	3471+20 @ 3491.00usft (_AKITA57)
Well:	ALTO AMM 50H	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)	
8,650.00	90.80	271.91	3,191.18	-35.03	-5,367.77	5,367.68	0.48	-0.31	0.37	
8,777.00	92.36	271.81	3,187.67	-30.91	-5,494.65	5,494.57	1.23	1.23	-0.08	
8,878.00	94.40	271.71	3,181.72	-27.81	-5,595.42	5,595.34	2.02	2.02	-0.10	
8,945.00	94.40	271.71	3,176.58	-25.82	-5,662.19	5,662.12	0.00	0.00	0.00	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,922.00	1,871.85	-35.01	361.67	ESTKOP 1867FSL_ 783FEL AD	
3,031.00	2,894.85	-26.68	160.32	100°RAD ROSSRANCH 527457	
3,700.00	3,212.80	-47.77	-421.29	SECX 1837FSL_0FWL/FEL AD	
3,712.65	3,215.10	-47.55	-433.73	80° 1837FSL_12FEL AD	
3,800.90	3,225.46	-45.10	-521.29	FTP 1840FSL_100FEL AD	
8,901.50	3,179.92	-27.11	-5,618.84	LTP 1823FSL_100FWL AD	
8,945.00	3,176.58	-25.82	-5,662.19	TD 1850FSL_57FWL	

Checked By:	_____	Approved By:	_____	Date:	_____
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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- 50161		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 50H
⁷ OGRID NO. 328947	⁸ Operator Name SPUR ENERGY PARTNERS LLC.		⁹ Elevation 3471'

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
L	22	19S	25E		1901	SOUTH	422	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no. L	Section 21	Township 19S	Range 25E	Lot Idn	Feet from the 1835	North/South line SOUTH	Feet from the 50	East/West line WEST	County 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>GEODEIC DATA</u> NAD 83 GRID — NM EAST <u>SURFACE LOCATION (SL)</u> N: 598162.7 — E: 496259.9 LAT: 32.6443120° N LONG: 104.4797839° W <u>FIRST TAKE POINT (FTP)</u> <u>1835' FSL & 100' FEL SEC 21</u> N: 598112.0 — E: 495738.6 LAT: 32.6441707° N LONG: 104.4814773° W <u>LAST TAKE POINT (LTP)</u> <u>1835' FSL & 100' FWL SEC 21</u> N: 598123.5 — E: 490641.1 LAT: 32.6441816° N LONG: 104.4980382° W <u>BOTTOM HOLE (BH)</u> N: 598123.6 — LAT: 32.644 LONG: 104.4	<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
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Bottom Hole Location: Prime Solution Services MWD Original
 hole: Final Station 8878MD Displacement = 5595.49' at a
 269.72 Azimuth API # 30-015-50161

The diagram shows a survey plat with a grid. The horizontal axis is labeled with stationing: 1835', 1901', and 422'. The vertical axis is labeled with section numbers: 21 and 22. A point labeled 'B.H.' (Bottom Hole) is located at the intersection of the 1835' station and the boundary between sections 21 and 22. Other points include 'LTP' (Last Take Point), 'FTP' (First Take Point), 'S.L.' (Surface Location), and 'J'. A red arrow points from the text box above to the B.H. point.

17 OPERATOR CERTIFICATION <i>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> <i>Sarah Chapman</i> 11/03/2022 Signature _____ Date _____ SARAH CHAPMAN Printed Name _____	ENERGY.COM TIFICATION <i>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.</i> 7/08/22 Date of Survey _____ Signature and Seal of Professional Surveyor _____ 19680 Certificate Number _____
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Job No.: LS220708120

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 #	30-015-50161	Alto Amm 21 50H	County, ST	Eddy County, NM
Operator	Spur Energy Partners		Sec-Twn-Rng	22-19S-25E
Field	North Seven Rivers		Footage	1901' FSL and 422' FWL
Spud Date	1/23/2023		Survey	

RKB	3491'
GL	3471'

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

Surface csg

Csg Depth	1201'
Size	9-5/8"
Weight	36ppf
Grade	J55
Connections	BTC
Cement	525sx

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

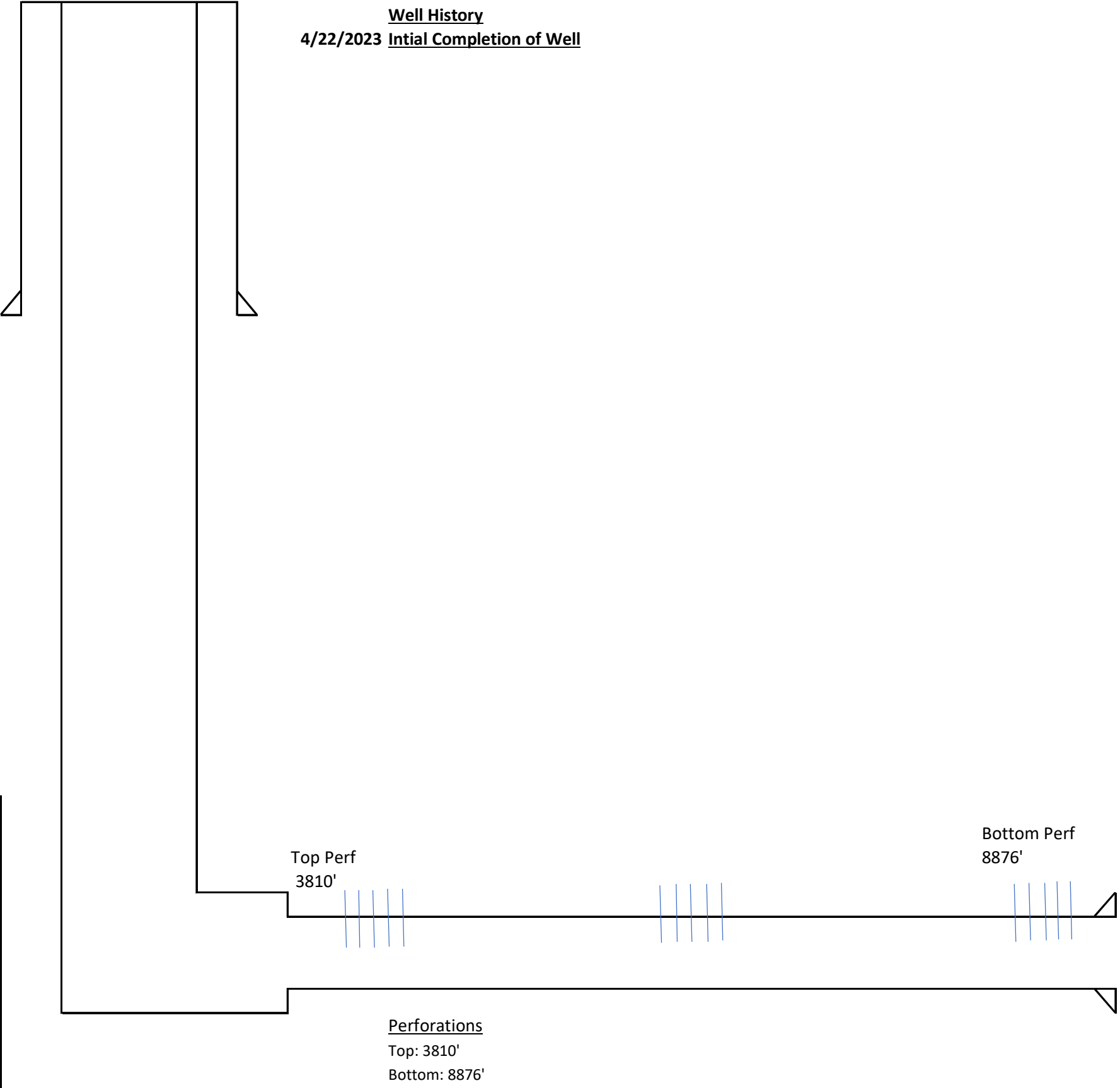
Int/Prod csg

Csg Depth	3517'	8945'
Size	7"	5-1/2"
Weight	32ppf	20ppf
Grade	L80	L80
Connections	BTC	BTC
Cement	160Ssx	

Tubing Detail				
Jts	Size	Depth	Length	Detail
		20		KB
26	3 1/2"	903.05	883.05	3 1/2" Polycore Tubing
	3 1/2"	909.05	6.00	3 1/2" Polycore Tubing Pup
73	3 1/2"	3,239.57	2,330.52	3 1/2" Polycore Tubing
3	3 1/2"	3,338.06	98.49	3 1/2" Ultra Tubing
	3 1/2"	3,338.61	0.55	3 1/2" BOH
	3 1/2"	3,360.43	21.82	PMP,400,SF3550,72S,INC,15,1:3AR,SHB,TS3
	3 1/2"	3,382.25	21.82	PMP,400,SF3550,72S,INC,15,1:3AR,SHB,TS3
	3 1/2"	3,387.35	5.10	GS,400,TDM,H2X,SS,INC,D15
	3 1/2"	3,395.55	8.20	SEAL,400 Series,BPBSL,Inconel Shaft, UT,SLUB,HD
	3 1/2"	3,403.75	8.20	SEAL,400,Series,BPBSL,Inconel Shaft,SLUB, HD
	3 1/2"	3,424.35	20.60	Motor, 456, Series, FMS2,180HP/2952/43, 12 Rotor
	3 1/2"	3,426.38	2.03	SEN,SPY PRO 8,456 MOTFLG,CS,5KPSI,150C
	2 3/8"	3,432.38	6.00	2 3/8" Pup Joint
	2 3/8"	3,432.88	0.50	2 3/8" Bull Plug

Rod Detail					
Rods	Size	Depth	Length	Guides	Detail

Last Update	7/17/2023
By	Cristian Gonzalez



PBTD	8654'
TD MD	8878'
TD TVD	3182'

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

General Information
Phone: (505) 629-6116

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

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

ACKNOWLEDGMENTS

Action 418710

ACKNOWLEDGMENTS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 418710
	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
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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 418710

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 418710
	Action Type: [C-104] Completion Packet - New Well (C-104NW)

CONDITIONS

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