

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

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

Submit one copy to appropriate District Office

AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address SPUR ENERGY PARTNERS LLC 9655 KATY FREEWAY, SUITE 500 HOUSTON, TX 77024		² OGRID Number 328947
		³ Reason for Filing Code/ Effective Date NW 07/26/2023
⁴ API Number 30 - 0 15-50158	⁵ Pool Name N. SEVEN RIVERS; GLORIETA-YESO	⁶ Pool Code 97565
⁷ Property Code 333554	⁸ Property Name ALTO AMM 21	⁹ Well Number 20H

II. 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		2350	NORTH	440	WEST	EDDY

¹¹ Bottom Hole Location

FTP: 2661' FNL 107' FEL LTP: 2647' FNL 129' FWL

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		2645	NORTH	49	WEST	EDDY

¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
P	P	04/18/2023			

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
221115	FRONTIER FIELD SERVICES, LLC 4200 EAST SKELLY DR., SUITE 700, TULSA, OK 74135	G
33479	HOLLYFRONTIER REFINING & MARKETING 2828 N. HARWOOD DR., SUITE 1300, DALLAS, TX 75201	O

IV. Well Completion Data

²¹ Spud Date	²² Ready Date	²³ TD	²⁴ PBTD	²⁵ Perforations	²⁶ DHC, MC
01/01/2023	4/27/2023	2789'V/8469'M	2789'V/8413'M	3329'-8389'	
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
12-1/4"	9-5/8" 36# J-55 BTC	1215'	525 SXS (CIRC TO SURFACE)		
8-3/4"	7" 32# L-80 BK-HT	3046'	1480 SXS (CIRC TO SURFACE)		
8-3/4"	5-1/2" 20# L-80 BK-HT	8469'	1480 SXS (CIRC TO SURFACE)		
	3-1/2" J-55 TBG	2990'			

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
05/13/2023	05/06/2023	06/03/2023	24-HOUR	215	155
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas	⁴¹ Test Method	
N/A	625	2601	252	PUMPING ON ESP	

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: *Sarah Chapman*
Printed name: SARAH CHAPMAN
Title: REGULATORY DIRECTOR
E-mail Address: SCHAPMAN@SPURENERGY.COM
Date: 07/26/2023 Phone: 832-930-8613

OIL CONSERVATION DIVISION
Approved by:
Title:
Approval 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
AS-DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-50158		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 20H	
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		2350	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		2645	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.

<p>¹⁶ <u>GEODETIC DATA</u> NAD 83 GRID - NM EAST <u>SURFACE LOCATION (SL)</u> N: 599263.0 - E: 496276.5 LAT: 32.6473364° N LONG: 104.4797348° W <u>FIRST TAKE POINT (FTP)</u> 2661' FNL & 107' FEL SEC 21 N: 598951.5 - E: 495729.8 LAT: 32.6464782° N LONG: 104.4815098° W MD = 3329.0 - TVD = 2799.8 <u>LAST TAKE POINT (LTP)</u> 2647' FNL & 129' FWL SEC 21 N: 598997.6 - E: 490670.8 LAT: 32.6465844° N LONG: 104.4979461° W MD = 8389.0 - TVD 2786.8</p>	<p><u>BOTTOM HOLE (BH)</u> N: 599000.5 - E: 490590.9 LAT: 32.6465920° N LONG: 104.4982058° W MD = 8469.0 - TVD = 2788.6 <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</p>	<p>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> <u>Sarah Chapman</u> 04/20/2023 Signature Date SARAH CHAPMAN Printed Name SCHAPMAN@SPURENERGY.COM E-mail Address</p>
		<p>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> 04/10/2023 Date of Survey Signature and Seal of Professional Surveyor 19680 Certificate Number</p>

Job No: LS22070815AC



February 17th , 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 020H
POOLS:97565 N SEVEN RIVERS;GLORIETA-YESO
EDDY COUNTY, NM
API Number: 30-015-50158

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: 154' MD– 8400' MD projection to 8469 MD
Date Performed: 1/1/2022 – 2/14/2023
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 blue horizontal line.

Joe Vocioni
MWD Operations Manager

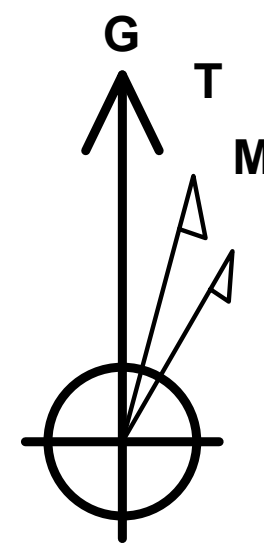
713-517-3120

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 20H
Wellbore: Lateral
Design: Lateral AsDrilled



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

Magnetic Field
Strength: 47744.3nT
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

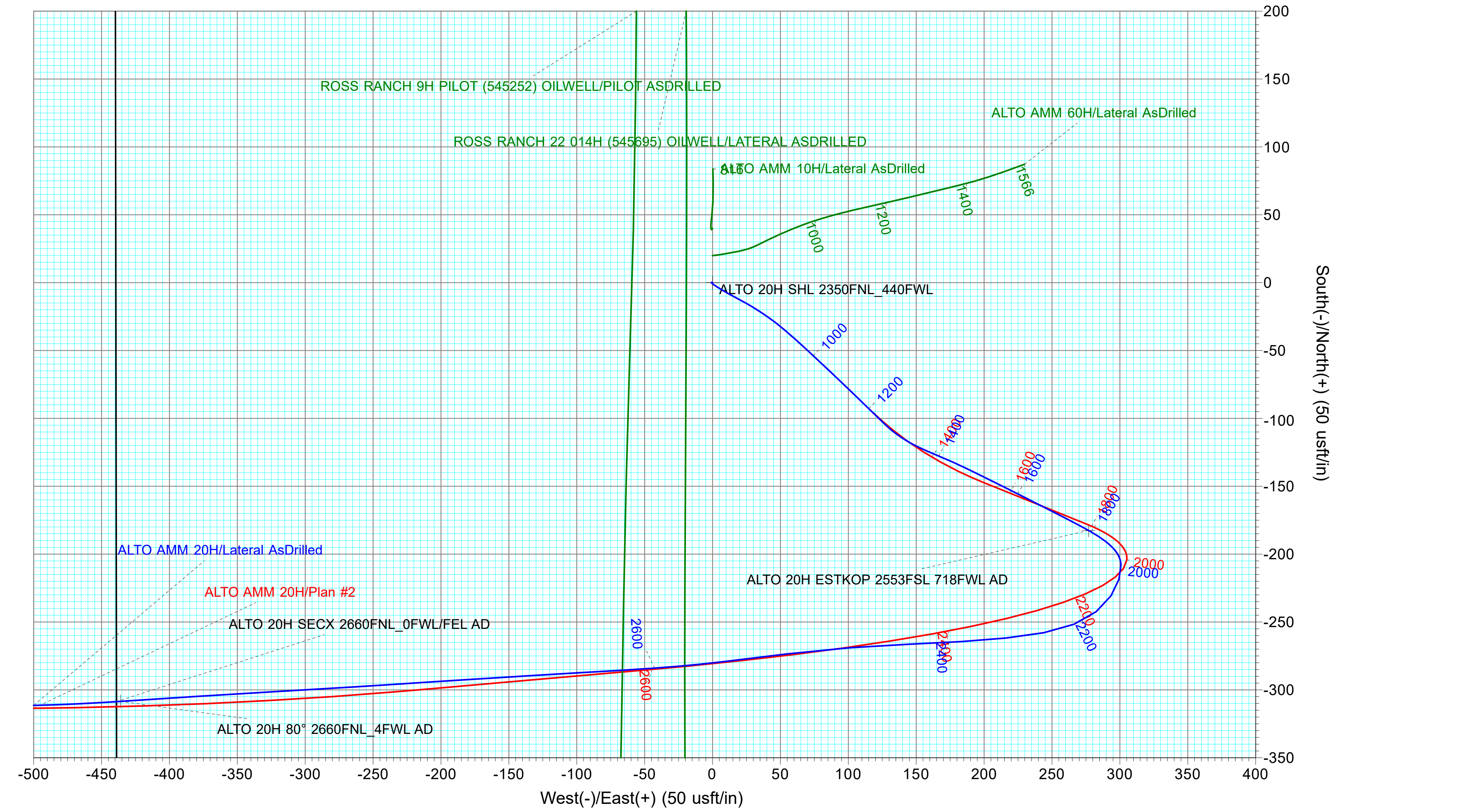
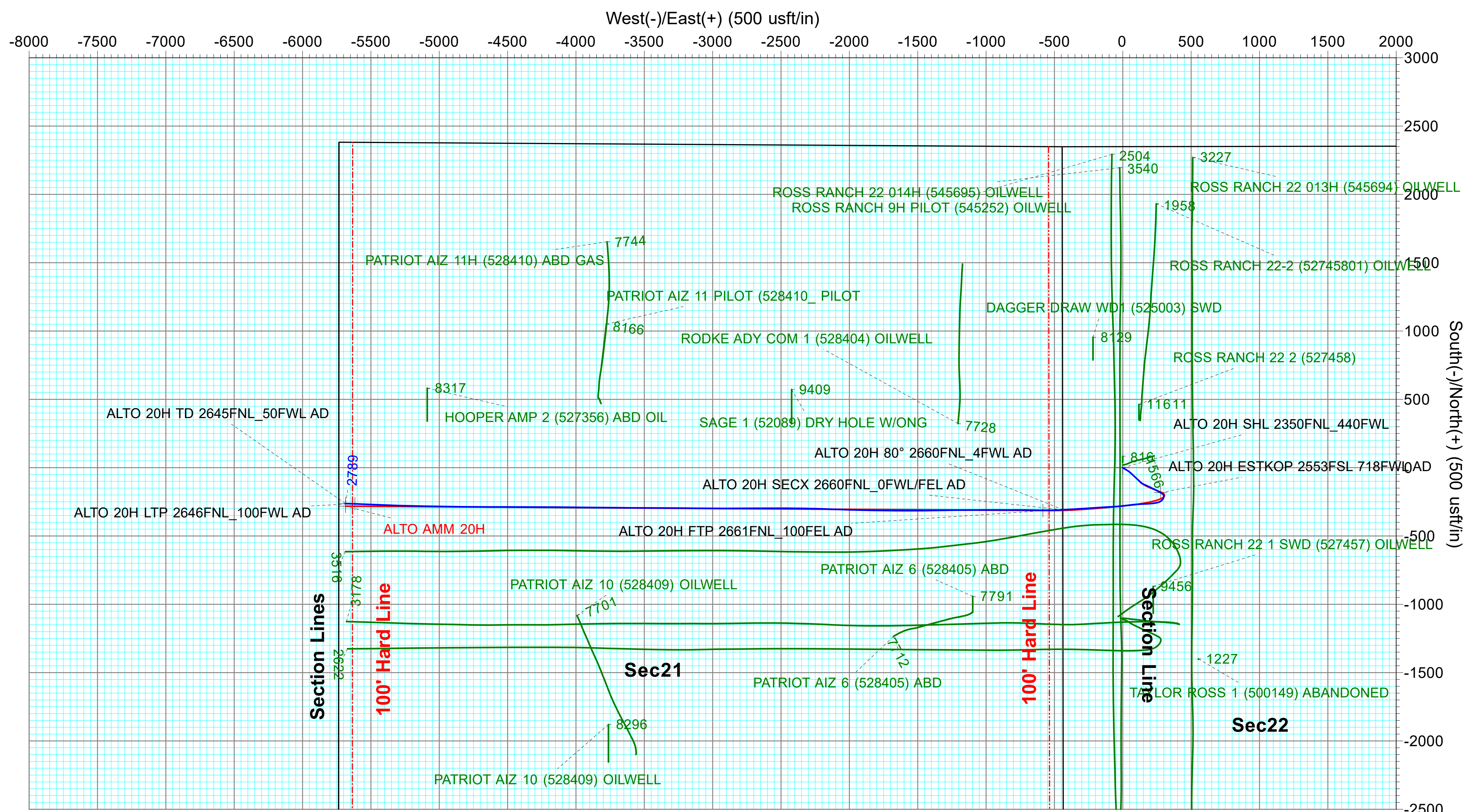
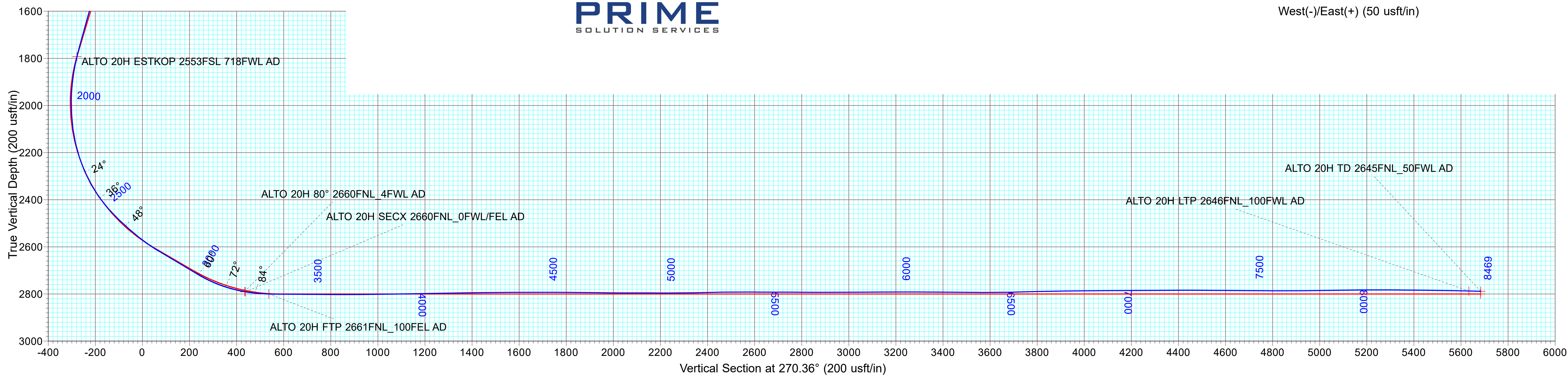
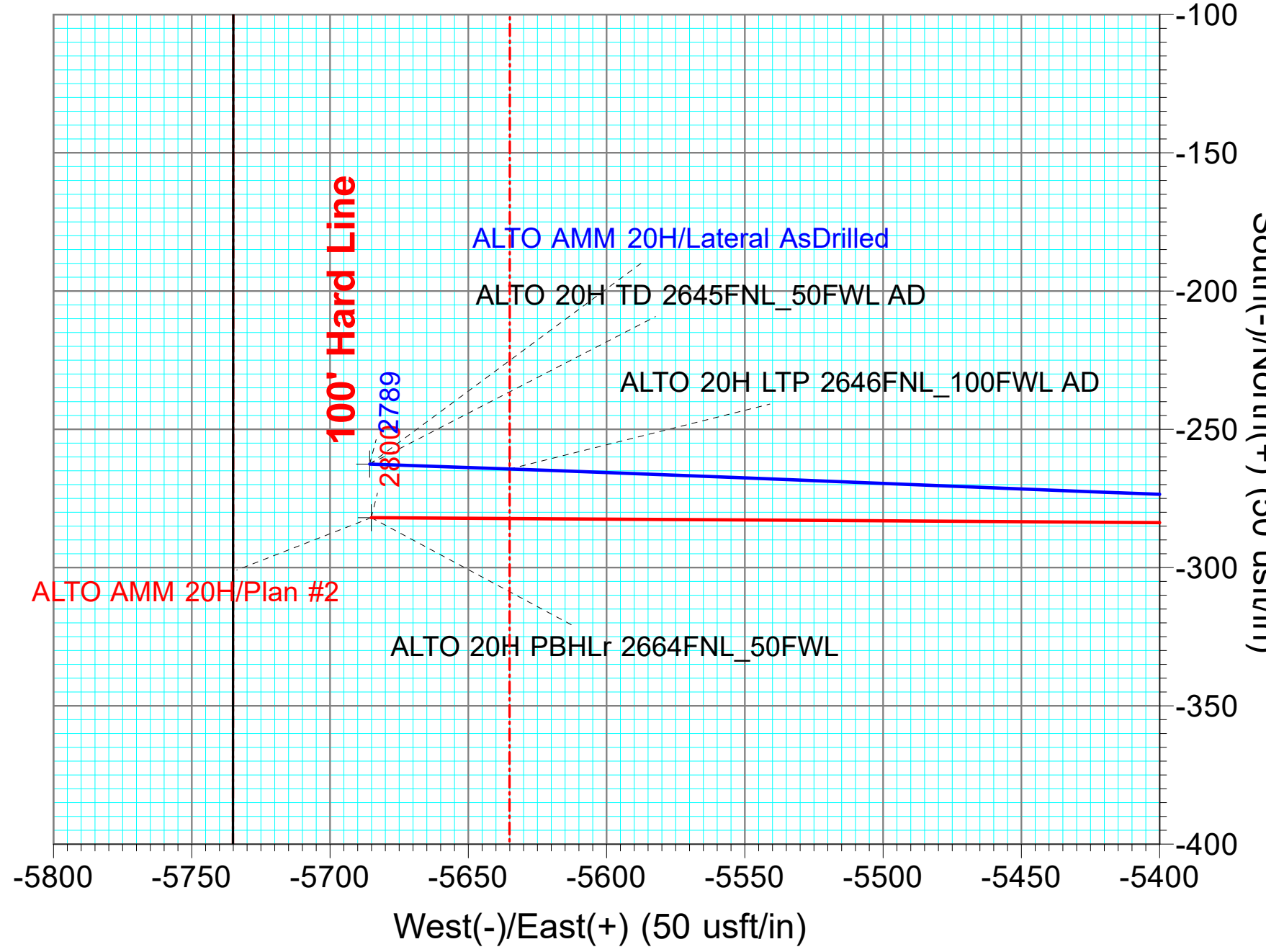
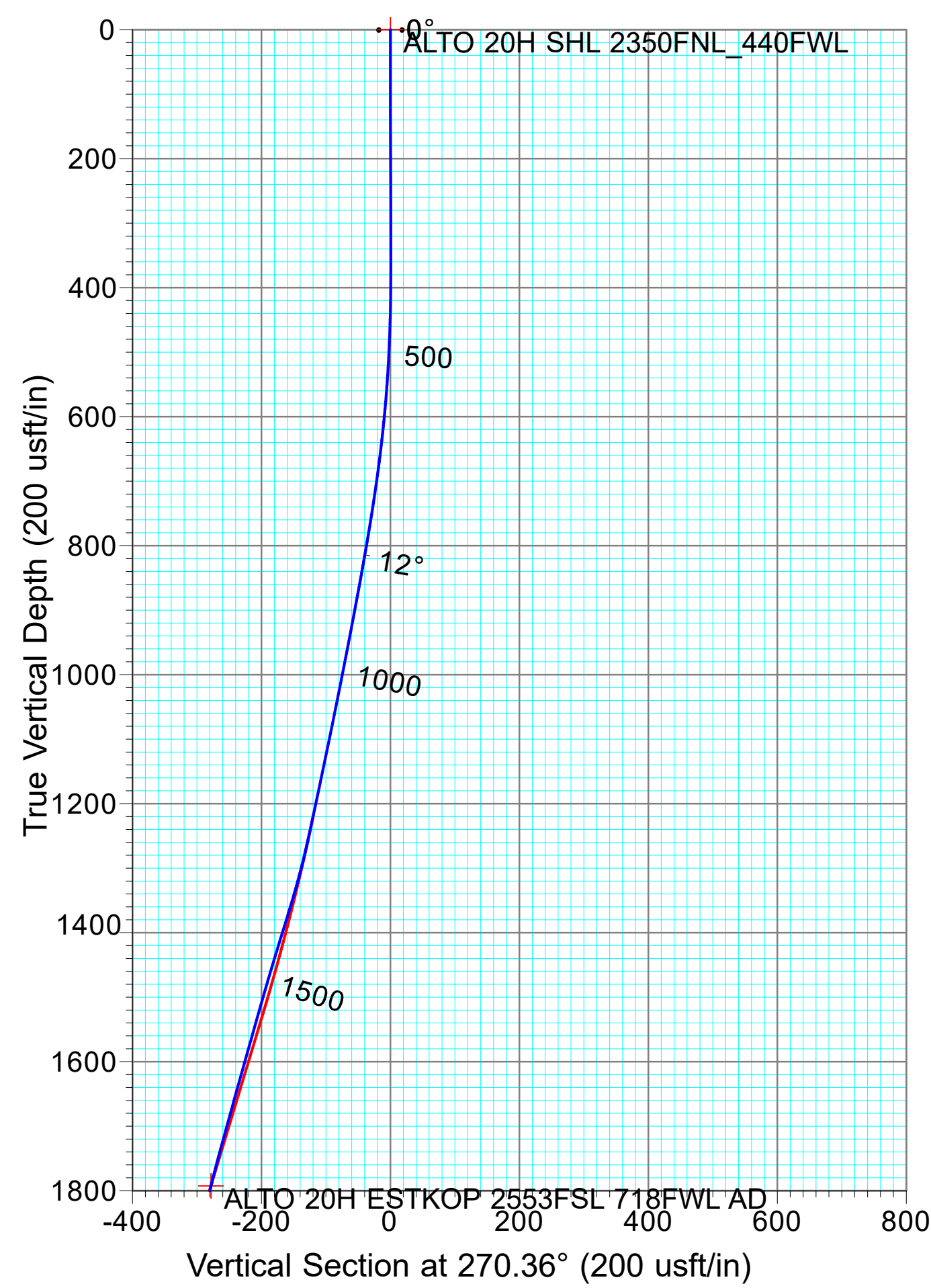
Magnetic North is 6.93° East of Grid North (Magnetic Convergence)
Magnetic North is 6.85° East of True North (Magnetic Declination)
To convert a Magnetic Direction to a Grid Direction, Add 6.93°

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Annotation
1838.00	15.65	119.30	1792.67	-182.53	276.97	ESTKOP 2553FSL 718FWL
3217.62	80.00	266.22	2790.13	-308.44	-435.96	80° 2660FNL_4FWL
3221.00	80.31	266.22	2790.70	-308.66	-439.28	SECX 2660FNL_0FWL/FEL
3321.20	88.03	270.03	2800.11	-311.87	-538.89	FTP 2661FNL_100FEL
8418.50	88.67	272.05	2787.41	-264.31	-5635.15	LTP 2646FNL_100FWL
8469.00	88.66	272.05	2788.59	-262.50	-5685.60	TD 2645FNL_50FWL

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
ALTO 20H SHL 2350FNL_440FWL	0.00	0.00	0.00	599263.000	496276.500
ALTO 20H ESTKOP 2553FSL 718FWL AD	1792.67	-182.53	276.97	599080.474	496553.468
ALTO 20H LTP 2646FNL_100FWL AD	2787.41	-264.31	-5635.15	598998.689	490641.353
ALTO 20H TD 2645FNL_50FWL AD	2788.59	-262.50	-5685.60	599000.495	490590.899
ALTO 20H 80° 2660FNL_4FWL AD	2790.13	-308.44	-435.96	598954.556	495840.543
ALTO 20H SECX 2660FNL_0FWL/FEL AD	2790.70	-308.66	-439.28	598954.336	495837.220
ALTO 20H PBHLr 2664FNL_50FWL	2800.00	-281.90	-5685.00	598981.100	490591.500
ALTO 20H FTP 2661FNL_100FEL AD	2800.11	-311.87	-538.89	598951.133	495737.615



SPUR ENERGY PARTNERS LLC.

Eddy County, NM (NAD83) NMEZ Grid

ALTO AMM PAD

ALTO AMM 20H

Lateral

Design: Lateral AsDrilled

Standard Survey Report

17 February, 2023

Survey Report

Company:	SPUR ENERGY PARTNERS LLC.	Local Co-ordinate Reference:	Well ALTO AMM 20H
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 20H	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 20H					
Well Position	+N/-S	0.00 usft	Northing:	599,263.000 usft	Latitude:	32.6473365
	+E/-W	0.00 usft	Easting:	496,276.500 usft	Longitude:	-104.4797348
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	47,744.30000000

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	270.36	

Survey Program	Date	02/17/23			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
152.00	1,159.00	Survey #1 (Lateral)	MWD+SAG+FDIR	OWSG MWD + Sag Correction + FDIR Correction	
1,273.00	8,400.00	Survey #2 (Lateral)	MWD+SAG+FDIR	OWSG MWD + Sag Correction + FDIR Correction	
8,469.00	8,469.00	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	0.00
152.00	0.20	297.30	152.00	0.12	-0.24	0.24	0.13	0.13	0.00	0.00
237.00	0.20	262.70	237.00	0.17	-0.51	0.52	0.14	0.00	-40.71	
322.00	0.30	272.20	322.00	0.16	-0.88	0.89	0.13	0.12	11.18	
417.00	1.10	130.90	416.99	-0.43	-0.44	0.44	1.42	0.84	-148.74	
511.00	3.60	124.20	510.91	-2.68	2.68	-2.70	2.67	2.66	-7.13	
606.00	6.50	119.30	605.53	-6.99	9.84	-9.88	3.08	3.05	-5.16	
701.00	9.10	118.20	699.64	-13.17	21.15	-21.23	2.74	2.74	-1.16	
795.00	11.50	122.80	792.12	-21.76	35.58	-35.72	2.70	2.55	4.89	

Survey Report

Company:	SPUR ENERGY PARTNERS LLC.	Local Co-ordinate Reference:	Well ALTO AMM 20H
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 20H	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)	
890.00	13.60	129.80	884.85	-34.04	52.12	-52.34	2.73	2.21	7.37	
984.00	14.90	133.10	975.96	-49.37	69.44	-69.75	1.63	1.38	3.51	
1,078.00	15.50	133.30	1,066.67	-66.24	87.40	-87.82	0.64	0.64	0.21	
1,159.00	16.10	133.80	1,144.61	-81.44	103.39	-103.90	0.76	0.74	0.62	
1,273.00	16.79	134.45	1,253.95	-103.91	126.55	-127.20	0.63	0.61	0.57	
1,335.00	17.58	122.14	1,313.20	-115.17	140.88	-141.60	5.99	1.27	-19.85	
1,398.00	18.65	112.65	1,373.09	-124.11	158.23	-159.01	4.98	1.70	-15.06	
1,461.00	18.45	114.03	1,432.81	-132.05	176.64	-177.46	0.77	-0.32	2.19	
1,524.00	17.78	116.50	1,492.69	-140.40	194.35	-195.23	1.62	-1.06	3.92	
1,587.00	17.44	116.43	1,552.74	-148.90	211.41	-212.34	0.54	-0.54	-0.11	
1,649.00	17.39	116.80	1,611.90	-157.21	228.00	-228.98	0.20	-0.08	0.60	
1,712.00	17.22	117.14	1,672.05	-165.71	244.70	-245.74	0.31	-0.27	0.54	
1,775.00	17.14	116.92	1,732.23	-174.16	261.28	-262.37	0.16	-0.13	-0.35	
1,838.00	15.65	119.30	1,792.67	-182.53	276.97	-278.11	2.59	-2.37	3.78	
1,902.00	11.65	127.71	1,854.86	-190.71	289.61	-290.81	6.96	-6.25	13.14	
1,964.00	9.39	144.27	1,915.83	-198.64	297.52	-298.76	6.05	-3.65	26.71	
2,027.00	8.88	176.59	1,978.07	-207.68	300.82	-302.11	8.08	-0.81	51.30	
2,090.00	11.32	196.43	2,040.10	-218.47	299.35	-300.72	6.69	3.87	31.49	
2,152.00	14.14	213.47	2,100.60	-230.63	293.45	-294.90	7.53	4.55	27.48	
2,214.00	16.10	231.25	2,160.48	-242.33	282.57	-284.08	8.08	3.16	28.68	
2,277.00	19.11	248.38	2,220.56	-251.61	266.15	-267.73	9.46	4.78	27.19	
2,340.00	23.81	259.13	2,279.20	-257.81	244.06	-245.67	9.70	7.46	17.06	
2,403.00	29.22	264.09	2,335.56	-261.80	216.25	-217.89	9.27	8.59	7.87	
2,465.00	35.39	266.74	2,387.94	-264.38	183.24	-184.89	10.21	9.95	4.27	
2,528.00	41.82	267.41	2,437.15	-266.37	144.00	-145.67	10.23	10.21	1.06	
2,590.00	45.84	265.81	2,481.87	-268.93	101.15	-102.84	6.73	6.48	-2.58	
2,653.00	49.07	263.03	2,524.46	-273.47	54.97	-56.69	6.07	5.13	-4.41	
2,716.00	51.97	263.18	2,564.52	-279.30	6.70	-8.46	4.61	4.60	0.24	
2,778.00	56.97	265.98	2,600.54	-284.03	-43.51	41.72	8.86	8.06	4.52	
2,810.00	59.04	266.67	2,617.49	-285.77	-70.59	68.79	6.72	6.47	2.16	
2,843.00	59.26	266.72	2,634.42	-287.40	-98.87	97.06	0.68	0.67	0.15	
2,873.00	59.24	266.51	2,649.75	-288.92	-124.61	122.79	0.61	-0.07	-0.70	
2,906.00	59.32	266.50	2,666.61	-290.65	-152.93	151.10	0.24	0.24	-0.03	
2,937.00	59.25	266.35	2,682.45	-292.31	-179.52	177.68	0.47	-0.23	-0.48	
2,969.00	59.26	266.23	2,698.80	-294.09	-206.97	205.12	0.32	0.03	-0.38	
3,000.00	59.48	266.22	2,714.60	-295.85	-233.59	231.72	0.71	0.71	-0.03	
3,032.00	61.81	266.47	2,730.28	-297.63	-261.42	259.54	7.31	7.28	0.78	
3,096.00	68.30	266.74	2,757.26	-301.06	-319.32	317.42	10.15	10.14	0.42	
3,159.00	74.65	266.27	2,777.27	-304.70	-378.91	376.99	10.10	10.08	-0.75	
3,222.00	80.40	266.22	2,790.87	-308.73	-440.26	438.32	9.13	9.13	-0.08	
3,285.00	86.12	268.73	2,798.26	-311.48	-502.74	500.77	9.90	9.08	3.98	
3,350.00	89.55	271.06	2,800.72	-311.59	-567.68	565.71	6.38	5.28	3.58	
3,414.00	89.71	270.64	2,801.13	-310.64	-631.67	629.70	0.70	0.25	-0.66	

Survey Report

Company:	SPUR ENERGY PARTNERS LLC.	Local Co-ordinate Reference:	Well ALTO AMM 20H
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 20H	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)	
3,478.00	89.63	270.48	2,801.50	-310.02	-695.66	693.70	0.28	-0.13	-0.25	
3,605.00	89.44	269.90	2,802.53	-309.60	-822.66	820.70	0.48	-0.15	-0.46	
3,733.00	90.80	270.21	2,802.26	-309.47	-950.65	948.69	1.09	1.06	0.24	
3,858.00	90.91	269.76	2,800.40	-309.51	-1,075.64	1,073.67	0.37	0.09	-0.36	
3,983.00	91.03	269.37	2,798.28	-310.46	-1,200.62	1,198.64	0.33	0.10	-0.31	
4,109.00	90.97	269.18	2,796.08	-312.05	-1,326.59	1,324.60	0.16	-0.05	-0.15	
4,234.00	90.74	268.75	2,794.22	-314.31	-1,451.55	1,449.55	0.39	-0.18	-0.34	
4,361.00	90.30	270.67	2,793.07	-314.95	-1,578.54	1,576.53	1.55	-0.35	1.51	
4,488.00	89.92	270.38	2,792.82	-313.79	-1,705.54	1,703.53	0.38	-0.30	-0.23	
4,613.00	89.52	270.66	2,793.43	-312.65	-1,830.53	1,828.53	0.39	-0.32	0.22	
4,740.00	89.12	271.98	2,794.94	-309.73	-1,957.48	1,955.50	1.09	-0.31	1.04	
4,868.00	90.28	272.20	2,795.61	-305.06	-2,085.39	2,083.44	0.92	0.91	0.17	
4,993.00	89.25	271.50	2,796.12	-301.02	-2,210.33	2,208.39	1.00	-0.82	-0.56	
5,119.00	91.43	270.86	2,795.37	-298.43	-2,336.29	2,334.37	1.80	1.73	-0.51	
5,246.00	91.31	270.45	2,792.34	-296.98	-2,463.24	2,461.33	0.34	-0.09	-0.32	
5,370.00	89.27	269.87	2,791.71	-296.63	-2,587.23	2,585.32	1.71	-1.65	-0.47	
5,496.00	90.15	269.67	2,792.35	-297.14	-2,713.23	2,711.31	0.72	0.70	-0.16	
5,622.00	89.28	269.20	2,792.98	-298.38	-2,839.22	2,837.29	0.78	-0.69	-0.37	
5,748.00	90.74	270.52	2,792.95	-298.69	-2,965.21	2,963.28	1.56	1.16	1.05	
5,870.00	90.31	270.72	2,791.84	-297.37	-3,087.20	3,085.27	0.39	-0.35	0.16	
5,992.00	90.01	270.48	2,791.49	-296.09	-3,209.19	3,207.27	0.31	-0.25	-0.20	
6,114.00	89.70	270.30	2,791.80	-295.26	-3,331.19	3,329.27	0.29	-0.25	-0.15	
6,235.00	89.62	270.25	2,792.52	-294.68	-3,452.19	3,450.27	0.08	-0.07	-0.04	
6,355.00	89.37	270.09	2,793.58	-294.32	-3,572.18	3,570.26	0.25	-0.21	-0.13	
6,475.00	91.64	270.79	2,792.52	-293.40	-3,692.17	3,690.25	1.98	1.89	0.58	
6,594.00	91.35	270.52	2,789.42	-292.04	-3,811.12	3,809.21	0.33	-0.24	-0.23	
6,715.00	90.69	270.67	2,787.26	-290.78	-3,932.09	3,930.19	0.56	-0.55	0.12	
6,833.00	90.42	270.40	2,786.12	-289.68	-4,050.08	4,048.18	0.32	-0.23	-0.23	
6,952.00	90.24	270.35	2,785.43	-288.90	-4,169.07	4,167.18	0.16	-0.15	-0.04	
7,078.00	90.31	270.32	2,784.83	-288.17	-4,295.07	4,293.18	0.06	0.06	-0.02	
7,205.00	90.10	270.06	2,784.38	-287.75	-4,422.07	4,420.17	0.26	-0.17	-0.20	
7,331.00	89.54	270.18	2,784.77	-287.48	-4,548.07	4,546.17	0.45	-0.44	0.10	
7,456.00	89.75	270.23	2,785.55	-287.04	-4,673.06	4,671.17	0.17	0.17	0.04	
7,582.00	89.39	269.99	2,786.49	-286.79	-4,799.06	4,797.16	0.34	-0.29	-0.19	
7,708.00	90.74	271.22	2,786.35	-285.46	-4,925.05	4,923.16	1.45	1.07	0.98	
7,834.00	90.75	271.24	2,784.71	-282.76	-5,051.01	5,049.13	0.02	0.01	0.02	
7,959.00	90.78	271.03	2,783.04	-280.28	-5,175.97	5,174.11	0.17	0.02	-0.17	
8,084.00	89.36	271.88	2,782.89	-277.11	-5,300.93	5,299.08	1.32	-1.14	0.68	
8,210.00	89.61	272.34	2,784.02	-272.47	-5,426.84	5,425.02	0.42	0.20	0.37	
8,337.00	88.91	272.28	2,785.66	-267.35	-5,553.72	5,551.93	0.55	-0.55	-0.05	
8,400.00	88.68	272.05	2,786.99	-264.97	-5,616.66	5,614.89	0.52	-0.37	-0.37	
8,469.00	88.66	272.05	2,788.59	-262.50	-5,685.60	5,683.84	0.03	-0.03	0.00	

Survey Report

Company:	SPUR ENERGY PARTNERS LLC.	Local Co-ordinate Reference:	Well ALTO AMM 20H
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 20H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral AsDrilled	Database:	PRIME_EDM

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
ALTO 20H SHL 2350FNI - hit/miss target - Shape - actual wellpath hits target center - Point	0.00	360.00	0.00	0.00	0.00	599,263.000	496,276.500	32.6473365	-104.4797348	
ALTO 20H ESTKOP 255 - actual wellpath hits target center - Point	0.00	0.00	1,792.67	-182.53	276.97	599,080.474	496,553.468	32.6468358	-104.4788342	
ALTO 20H LTP 2646FNI - actual wellpath misses target center by 18.50usft at 8400.00usft MD (2786.99 TVD, -264.97 N, -5616.66 E) - Point	0.00	360.00	2,787.41	-264.31	-5,635.15	598,998.689	490,641.353	32.6465873	-104.4980418	
ALTO 20H TD 2645FNL - actual wellpath hits target center - Point	0.00	0.00	2,788.59	-262.51	-5,685.60	599,000.495	490,590.899	32.6465920	-104.4982057	
ALTO 20H 80° 2660FNL - actual wellpath misses target center by 0.01usft at 3217.62usft MD (2790.13 TVD, -308.44 N, -435.96 E) - Point	0.00	360.00	2,790.13	-308.44	-435.96	598,954.556	495,840.543	32.6464870	-104.4811498	
ALTO 20H SECX 2660F - actual wellpath hits target center - Point	0.00	360.00	2,790.70	-308.66	-439.28	598,954.336	495,837.220	32.6464864	-104.4811606	
ALTO 20H PBHLr 2664F - actual wellpath misses target center by 22.49usft at 8467.97usft MD (2788.56 TVD, -262.54 N, -5684.57 E) - Point	0.00	360.00	2,800.00	-281.90	-5,685.00	598,981.100	490,591.500	32.6465387	-104.4982037	
ALTO 20H FTP 2661FNI - actual wellpath hits target center - Point	0.00	360.00	2,800.11	-311.87	-538.89	598,951.133	495,737.615	32.6464772	-104.4814842	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment	
1,838.00	1,792.67	-182.53	276.97	ESTKOP 2553FSL 718FWL	
3,217.62	2,790.13	-308.44	-435.96	80° 2660FNL_4FWL	
3,221.00	2,790.70	-308.66	-439.28	SECX 2660FNL_0FWL/FEL	
3,321.20	2,800.11	-311.87	-538.89	FTP 2661FNL_100FEL	
8,418.50	2,787.41	-264.31	-5,635.15	LTP 2646FNL_100FWL	
8,469.00	2,788.59	-262.50	-5,685.60	TD 2645FNL_50FWL	

Checked By: _____ Approved By: _____ Date: _____

Intent As Drilled

API #									
Operator Name:					Property Name:				Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit?

Is this well an infill well?

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #									
Operator Name:					Property Name:				Well Number

KZ 06/29/2018

Submit To Appropriate District Office Two Copies District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505				Form C-105 Revised April 3, 2017				
		1. WELL API NO.		30-015-50158		2. Type of Lease		<input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> FED/INDIAN		
		3. State Oil & Gas Lease No.				4. Reason for filing:		5. Lease Name or Unit Agreement Name		
		<input checked="" type="checkbox"/> COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only)				<input type="checkbox"/> C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)		ALTO AMM 21		
		6. Well Number:		20H		7. Type of Completion:		<input checked="" type="checkbox"/> NEW WELL <input type="checkbox"/> WORKOVER <input type="checkbox"/> DEEPENING <input type="checkbox"/> PLUGBACK <input type="checkbox"/> DIFFERENT RESERVOIR <input type="checkbox"/> OTHER		
8. Name of Operator		SPUR ENERGY PARTNERS LLC				9. OGRID		328947		
10. Address of Operator		9655 KATY FREEWAY, SUITE 500, HOUSTON, TX 77024				11. Pool name or Wildcat		N. SEVEN RIVERS; GLORIETA-YESO		
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	E	22	19S	25E		2350	NORTH	440	WEST	EDDY
BH:	E	21	19S	25E		2645	NORTH	49	WEST	EDDY
13. Date Spudded	14. Date T.D. Reached	15. Date Rig Released		16. Date Completed (Ready to Produce)		17. Elevations (DF and RKB, RT, GR, etc.)		3472' GR		
01/01/2023	02/14/2023	02/16/2023		04/27/2023						
18. Total Measured Depth of Well		19. Plug Back Measured Depth		20. Was Directional Survey Made?		21. Type Electric and Other Logs Run		GAMMA RAY		
2789'V/8469'M		2789'V/8413'M		YES						
22. Producing Interval(s), of this completion - Top, Bottom, Name		3329'-8389' LOWER Paddock								
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
9-5/8"		36#		1215'		12-1/4"		525 SXS (CIRC TO SURFACE)		0
7"		32#		3046'		8-3/4"		1480 SXS (CIRC TO SURFACE)		0
5-1/2"		20#		8469'		8-3/4"		1480 SXS (CIRC TO SURFACE)		0
24. LINER RECORD										
SIZE		TOP		BOTTOM		SACKS CEMENT		SCREEN		
25. TUBING RECORD										
SIZE		DEPTH SET		PACKER SET						
3-1/2"		2990'								
26. Perforation record (interval, size, and number)						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
04/03/2023 RIH & cleanout to PBDT @ 8413'. RIH & perf from 3329'-8389', total shots 900/ft @ 0.42 shot size. Frac in 25 stages w/ 12118008 gal slickwater and 50014620# sand. 04/10/2023 rig down wireline and cleanout. 04/25/2023 RIH w/ 3-1/2" J-55 tbg @ 2990'.						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						3329'-8389'		12118008 gal slickwater and 50014620# sand		
28. PRODUCTION										
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)				
05/13/2023		PUMPING ON ESP				PRODUCING				
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio			
06/03/2023	24-HOUR	N/A		625	252	2601				
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)				
215	155		625	252	2601					
29. Disposition of Gas (Sold, used for fuel, vented, etc.)						30. Test Witnessed By		JERRY MATHEWS		
SOLD										
31. List Attachments										
FINAL DIRECTIONAL, AS-DRILLED, C-104 AND SUPPLEMENTAL										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.						33. Rig Release Date:				
34. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude			Longitude			NAD83				
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature		Printed Name		Title		Date				
Sarah Chapman		SARAH CHAPMAN		REGULATORY DIRECTOR		07/26/2023				
E-mail Address		SCHAPMAN@SPURENERGY.COM								

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg 345'	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres 705'	T. Simpson	T. Mancos	T. McCracken
T. Glorieta 2250'	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock 2370'	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinebry 3065'	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs	T. Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

OIL OR GAS SANDS OR ZONES

No. 1, from.....to..... No. 3, from.....to.....
 No. 2, from.....to..... No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology
345'	705'	460'	DOLOMITE				
705'	2250'	1545'	DOLOMITE, SILTSTONE				
2250'	2370'	120'	DOLOMITE, LIMESTONE				
2370'	3065'	695'	DOLOMITE, LIMESTONE				

API #	30-015-50158	Alto Amm 21 20H	County, ST	Eddy County, NM
Operator	Spur Energy Partners		Sec-Twn-Rng	22-19S-25E
Field	North Seven Rivers		Footage	2350' FNL and 440' FWL
Spud Date	2/11/2023		Survey	

RKB	3492'
GL	3472'

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

Surface csg

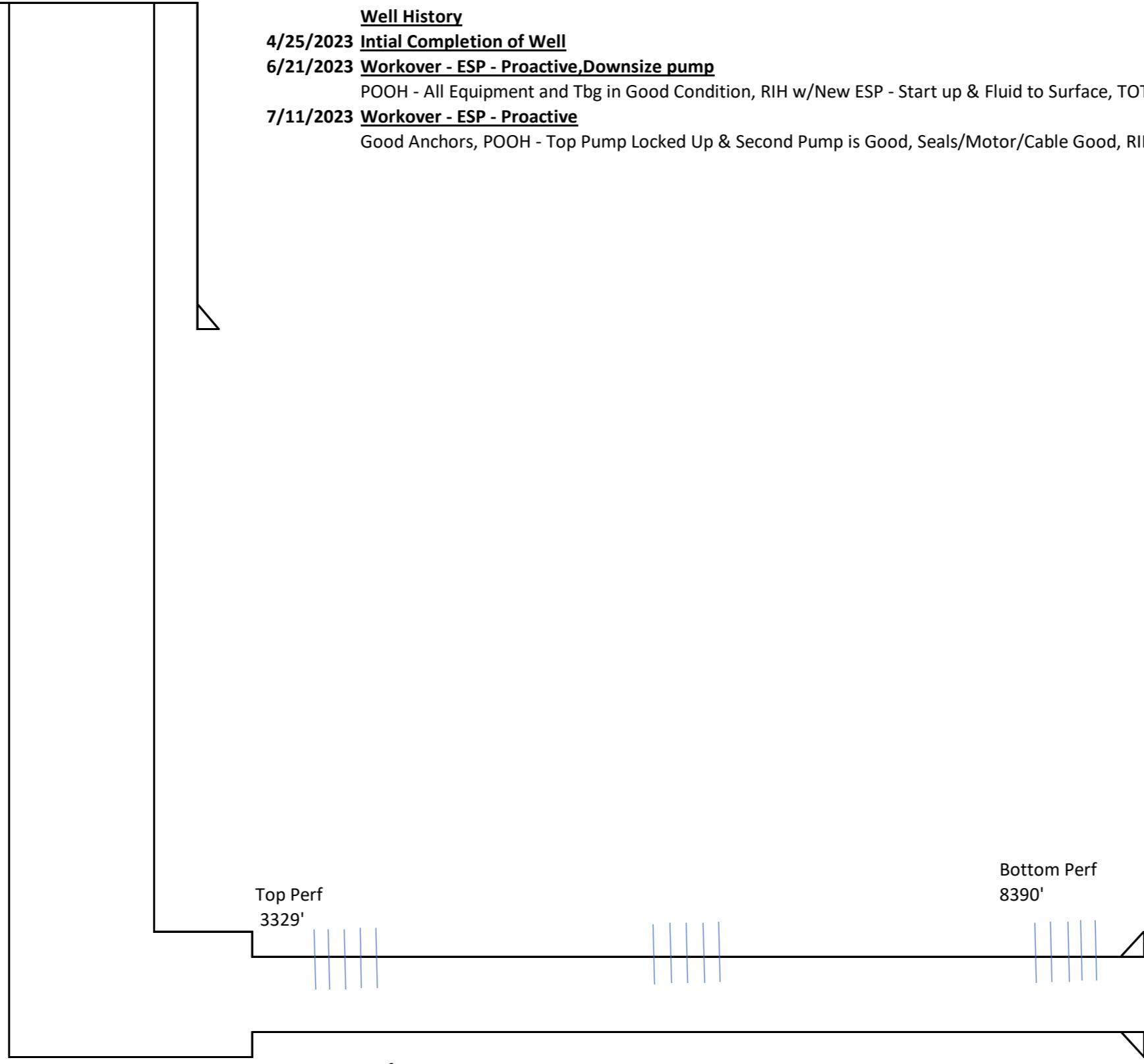
Csg Depth	1215'
Size	9-5/8"
Weight	36ppf
Grade	J55
Connections	BTC
Cement	525sx

Well History
4/25/2023 Intial Completion of Well
6/21/2023 Workover - ESP - Proactive, Downsize pump
 POOH - All Equipment and Tbg in Good Condition, RIH w/New ESP - Start up & Fluid to Surface, TOTP
7/11/2023 Workover - ESP - Proactive
 Good Anchors, POOH - Top Pump Locked Up & Second Pump is Good, Seals/Motor/Cable Good, RIH w/Tbg, Start Pump - Fluid to Surface, TOTP

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

Int/Prod csg

Csg Depth	3046'	8459'
Size	7"	5-1/2"
Weight	32ppf	20ppf
Grade	L80	L80
Connections	BTC	BTC
Cement	1525sx	



PBTD	8166'
TD MD	8469'
TD TVD	2790'

Tubing Detail				
Jts	Size	Depth	Length	Detail
		20		
86	3 1/2"	2,799.15	2,779.15	3 1/2" J-55 8rd EUE Polycore Tubing
3	3 1/2"	2,898.42	99.27	3 1/2" J-55 5rd EUE Ultra Tubing
	3 1/2"	2,898.97	0.55	3 1/2" BOH
	3 1/2"	2,920.79	21.82	PMP,400,SF2700,110S,INC.15,1:3AR,SHB,TS3
	3 1/2"	2,942.61	21.82	PMP,400,SF3550,73S,INC.15,1:3AR,SHB,TS2
	3 1/2"	2,947.71	5.10	GS,400,TDM,H2X,SS,INC,D15
	3 1/2"	2,955.91	8.20	SEAL,400 SERIES,BPBSL,INCONEL SHAFT,UT,SLUB,HD
	3 1/2"	2,964.11	8.20	SEAL,400 SERIES,BPBSL,INCONEL SHAFT,SLUB,HD
	3 1/2"	2,984.81	20.70	MTR,456,FMS2,180HP/2952/43, 12 ROTOR
	3 1/2"	2,986.71	1.90	SENSOR,VLT(ACE), 5K PSI,150C, (302F),CS,1XP
	3 1/2"	2,992.71	6.00	2 3/8" PUP JOINT
	3 1/2"	2,993.21	0.50	2 3/8 BULL PLUG

Perforations
 Top: 3329'
 Bottom: 8390'

Rod Detail					
Rods	Size	Depth	Length	Guides	Detail

Last Update	7/17/2023
By	Cristian Gonzalez

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 244781

ACKNOWLEDGMENTS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 244781
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
<input checked="" type="checkbox"/>	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 244781

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 244781
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	4/30/2026