

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

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 RT 10/13/2022
⁴ API Number 30 - 0 15-49360	⁵ Pool Name ARTESIA; GLORIETA-YESO (O)	⁶ Pool Code 96830
⁷ Property Code 326714	⁸ Property Name HALBERD 27 STATE COM	⁹ Well Number 70H

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
D	26	17S	28E		685	NORTH	112	WEST	EDDY

¹¹ Bottom Hole Location

FTP: 608' FNL 353' FEL LTP: 581' FNL 110' FWL

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	27	17S	28E		579	NORTH	44	WEST	EDDY
¹² Lse Code S	¹³ Producing Method Code P	¹⁴ Gas Connection Date 10/01/2022	¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date		

III. Oil and Gas Transporters

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

IV. Well Completion Data

²¹ Spud Date 04/04/2022	²² Ready Date 10/13/2022	²³ TD 9401'M/4284'V	²⁴ PBTD 9359'M/4284'V	²⁵ Perforations 4567'-9335'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
12-1/4"		9-5/8" 36# J-55 BTC	1258'		605 SXS (CIRC 203 SXS TO SURFACE)
8-3/4"		7" 32# L-80 BK-HT	4529'		1620 SXS (CIRC 365 SXS TO SURFACE)
8-3/4"		5-1/2" 20# L-80 BK-HT	9401'		1620 SXS (CIRC 365 SXS TO SURFACE)
		3-1/2" J-55 TBG	4374'		

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 			OIL CONSERVATION DIVISION		
Printed name: SARAH CHAPMAN			Approved by: PATRICIA MARTINEZ		
Title: REGULATORY DIRECTOR			Title: PETROLEUM SPECIALIST		
E-mail Address: SCHAPMAN@SPURENERGY.COM			Approval Date: 6/16/2025		
Date: 10/13/2022		Phone: 832-930-8613			

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 30-015-49360	² Pool Code 96830	³ Pool Name ARTESIA; GLORIETA-YESO (O)
⁴ Property Code 326714	⁵ Property Name HALBERD 27 STATE COM	⁶ Well Number 70H
⁷ GRID NO. 328947	⁸ Operator Name SPUR ENERGY PARTNERS LLC.	⁹ Elevation 3591'

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
D	26	17S	28E		685	NORTH	112	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
D	27	17S	28E		579	NORTH	44	WEST	EDDY

¹² Dedicated Acres 160	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 GEODETIC DATA NAD 83 GRID - NM EAST SURFACE LOCATION (SL) N: 658799.0 - E: 596124.6 LAT: 32.8109406° N LONG: 104.1550067° W FIRST TAKE POINT (FTP) 608' FNL & 353' FEL - SEC 27 N: 658866.5 - E: 595660.0 LAT: 32.8111283° N LONG: 104.1565187° W MD: 4567.0 - TVD: 4277.4 LAST TAKE POINT (LTP) 581' FNL & 110' FWL - SEC 27 N: 658877.6 - E: 590889.0 LAT: 32.8111796° N LONG: 104.1720150° W MD: 9335.0 - TVD: 4283.1 BOTTOM HOLE (BH) N: 658879.4 - E: 590833.1 LAT: 32.8111848° N LONG: 104.1722297° W MD: 9401.0 - TVD: 4283.7 CORNER DATA NAD 83 GRID - NM EAST A: FOUND BRASS CAP "1941" N: 654235.0 - E: 590741.9 B: FOUND BRASS CAP "1941" N: 656846.0 - E: 590769.0 C: FOUND BRASS CAP "1941" N: 659457.7 - E: 590794.9 D: FOUND BRASS CAP "1941" N: 659466.8 - E: 593406.4 E: FOUND BRASS CAP "1941" N: 659475.1 - E: 596017.9 F: FOUND BRASS CAP "1941" N: 659675.9 - E: 598617.6 G: FOUND BRASS CAP "1941" N: 659870.2 - E: 601205.0 H: FOUND BRASS CAP "1941" N: 657214.4 - E: 601209.0 I: FOUND BRASS CAP "1941" N: 654552.6 - E: 601197.1 J: FOUND BRASS CAP "1941" N: 654424.1 - E: 598586.6 K: FOUND BRASS CAP "1941" N: 654298.0 - E: 595977.3 L: FOUND BRASS CAP "1941" N: 654266.7 - E: 593360.1 M: FOUND BRASS CAP "1941" N: 656886.5 - E: 595997.7	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> 09/21/2022 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> 07/15/2022 Date of Survey Signature and Seal of Professional Surveyor 19680 Certificate Number LS21121314AC
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I **Larry Wright**, certify that I am employed by **Wellbenders Directional Services**. That I did on the day(s) of **04/06/22** thru **04/30/22** conduct or supervise the taking of a **MWD Survey** from a depth of **140'** to a depth of **9401'**; that the data is true, correct, complete and within the limitations of the tool as set forth by **Wellbenders Directional Services**; that I am authorized and qualified to make this report; that this survey was conducted at the request of **Spur Energy Partners** for the **Halberd 27 State Com 70H** API No. **30-015-49360** in **Eddy County, New Mexico**; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by **Wellbenders Directional Services**.

Larry Wright

*1125 Beach Airport Rd, Conroe, Texas
77301
PH 936-756-3225 FAX 936-756-3248*



Spur Energy Partners, LLC

Eddy County, NM (NAD 83 - NME)

HALBERD 27 STATE COM

70H

Wellbore #1

Survey: Survey #2

Standard Survey Report

02 May, 2022





Survey Report



Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well 70H
Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3611.00usft (AKITA 57)
Site:	HALBERD 27 STATE COM	MD Reference:	RKB = 20' @ 3611.00usft (AKITA 57)
Well:	70H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	WBDS_SQL_2

Project	Eddy County, NM (NAD 83 - NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	HALBERD 27 STATE COM		
Site Position:		Northing:	658,818.90 usft
From:	Map	Easting:	596,124.80 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	32.8109953
		Longitude:	-104.1550059
		Grid Convergence:	0.097 °

Well	70H		
Well Position	+N/-S	0.00 usft	Northing: 658,799.00 usft
	+E/-W	0.00 usft	Easting: 596,124.60 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32.8109406
		Longitude:	-104.1550067
		Ground Level:	3,591.00 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2020	02/14/22	6.785
			Dip Angle (°) 60.324
			Field Strength (nT) 47,708.99320270

Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°) 269.81

Survey Program	Date	05/02/22		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
140.00	1,216.00	Survey #1 (Wellbore #1)	MWD+IGRF	OWSG MWD + IGRF or WMM
1,326.00	9,401.00	Survey #2 (Wellbore #1)	MWD+IGRF	OWSG MWD + IGRF or WMM

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
1,216.00	3.60	68.30	1,215.48	10.10	14.93	-14.97	0.00	0.00	0.00	
1. SHL 70H: 685' FNL, 112' FWL										
1,326.00	3.08	65.45	1,325.30	12.60	20.83	-20.87	0.50	-0.47	-2.59	
1,453.00	2.47	64.31	1,452.15	15.21	26.40	-26.45	0.48	-0.48	-0.90	
1,578.00	2.03	65.12	1,577.05	17.31	30.84	-30.89	0.35	-0.35	0.65	
1,704.00	4.22	53.34	1,702.86	21.01	36.58	-36.65	1.80	1.74	-9.35	
1,830.00	3.68	56.40	1,828.56	26.02	43.67	-43.75	0.46	-0.43	2.43	
1,957.00	3.39	59.80	1,955.31	30.16	50.31	-50.41	0.28	-0.23	2.68	
2,081.00	5.86	61.55	2,078.90	35.02	59.04	-59.16	1.99	1.99	1.41	
2,209.00	5.27	65.47	2,206.30	40.58	70.14	-70.27	0.55	-0.46	3.06	



Survey Report



Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well 70H
Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3611.00usft (AKITA 57)
Site:	HALBERD 27 STATE COM	MD Reference:	RKB = 20' @ 3611.00usft (AKITA 57)
Well:	70H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	WBDS_SQL_2

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
2,334.00	4.88	66.95	2,330.81	45.04	80.25	-80.40	0.33	-0.31	1.18	
2,461.00	4.41	66.73	2,457.39	49.09	89.71	-89.87	0.37	-0.37	-0.17	
2,587.00	3.90	64.65	2,583.06	52.83	98.03	-98.20	0.42	-0.40	-1.65	
2,714.00	3.58	65.88	2,709.79	56.30	105.55	-105.74	0.26	-0.25	0.97	
2,839.00	3.25	65.26	2,834.57	59.38	112.33	-112.53	0.27	-0.26	-0.50	
2,965.00	2.99	66.23	2,960.38	62.20	118.58	-118.79	0.21	-0.21	0.77	
3,091.00	2.98	67.51	3,086.21	64.78	124.62	-124.83	0.05	-0.01	1.02	
3,216.00	2.82	68.28	3,211.05	67.16	130.48	-130.70	0.13	-0.13	0.62	
3,342.00	2.75	65.74	3,336.90	69.55	136.11	-136.34	0.11	-0.06	-2.02	
3,493.50	1.52	47.69	3,488.30	72.40	140.91	-141.15	0.92	-0.81	-11.91	
2. KOP 70H @ 3493.18' MD										
3,495.00	1.51	47.37	3,489.79	72.42	140.94	-141.18	0.92	-0.72	-21.34	
3,557.00	1.88	318.97	3,551.77	73.74	140.87	-141.12	3.84	0.60	-142.58	
3,620.00	4.55	287.91	3,614.67	75.29	137.82	-138.07	4.91	4.24	-49.30	
3,683.00	9.83	283.04	3,677.16	77.27	130.19	-130.45	8.43	8.38	-7.73	
3,745.00	16.46	275.30	3,737.50	79.28	116.28	-116.54	11.04	10.69	-12.48	
3,808.00	22.00	272.94	3,796.96	80.71	95.59	-95.85	8.88	8.79	-3.75	
3,871.00	27.95	273.58	3,854.05	82.24	69.04	-69.32	9.45	9.44	1.02	
3,933.00	33.06	270.32	3,907.45	83.24	37.61	-37.88	8.66	8.24	-5.26	
3,997.00	37.26	267.62	3,959.77	82.54	0.78	-1.05	7.00	6.56	-4.22	
4,060.00	41.80	266.80	4,008.35	80.57	-39.26	39.00	7.25	7.21	-1.30	
4,123.00	47.36	268.16	4,053.20	78.65	-83.42	83.16	8.95	8.83	2.16	
4,186.00	52.43	268.50	4,093.77	77.26	-131.57	131.32	8.06	8.05	0.54	
4,248.00	57.53	268.27	4,129.34	75.82	-182.31	182.06	8.23	8.23	-0.37	
4,279.00	59.89	268.29	4,145.44	75.03	-208.79	208.54	7.61	7.61	0.06	
START TANGENT: 4279.00' MD/ 4145.44' TVD										
4,282.01	59.97	268.28	4,146.95	74.95	-211.39	211.14	2.65	2.62	-0.41	
FINAL FTP: 4282.01' MD/ 4146.95' TVD										
4,311.00	60.73	268.16	4,161.29	74.17	-236.57	236.33	2.65	2.63	-0.41	
4,343.00	61.11	268.05	4,176.84	73.24	-264.52	264.28	1.22	1.19	-0.34	
4,369.89	61.45	268.03	4,189.76	72.43	-288.09	287.85	1.26	1.26	-0.06	
3. FTP 70H: 600' FNL, 100' FEL										
4,374.00	61.50	268.03	4,191.73	72.31	-291.70	291.46	1.26	1.26	-0.06	
4,406.00	61.91	267.86	4,206.90	71.30	-319.86	319.62	1.36	1.28	-0.53	
4,437.00	62.13	267.79	4,221.44	70.26	-347.22	346.98	0.74	0.71	-0.23	
4,469.00	62.51	267.75	4,236.30	69.16	-375.53	375.30	1.19	1.19	-0.12	
END TANGENT: 4469.00' MD/ 4236.30' TVD										
4,500.00	63.58	268.60	4,250.36	68.28	-403.15	402.92	4.23	3.45	2.74	
4,563.00	68.22	269.73	4,276.08	67.45	-460.63	460.41	7.54	7.37	1.79	
4,626.00	73.79	271.35	4,296.57	68.03	-520.18	519.95	9.17	8.84	2.57	
4,689.00	79.90	272.00	4,310.91	69.82	-581.47	581.23	9.75	9.70	1.03	
4,751.00	85.81	271.72	4,318.61	71.82	-642.93	642.68	9.54	9.53	-0.45	
4,786.39	87.75	271.19	4,320.60	72.72	-678.25	678.01	5.67	5.47	-1.49	
4. PLAN LP 70H: 600' FNL, 567' FEL										



Survey Report



Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well 70H
Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3611.00usft (AKITA 57)
Site:	HALBERD 27 STATE COM	MD Reference:	RKB = 20' @ 3611.00usft (AKITA 57)
Well:	70H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	WBDS_SQL_2

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,815.00	89.31	270.77	4,321.34	73.21	-706.84	706.60	5.67	5.47	-1.48
4,940.00	91.42	271.50	4,320.54	75.68	-831.81	831.55	1.79	1.69	0.58
5,066.00	89.01	270.86	4,320.07	78.28	-957.77	957.50	1.98	-1.91	-0.51
5,193.00	90.80	271.20	4,320.28	80.56	-1,084.74	1,084.47	1.43	1.41	0.27
5,319.00	88.33	268.90	4,321.24	80.67	-1,210.72	1,210.45	2.68	-1.96	-1.83
5,440.00	89.71	269.39	4,323.31	78.87	-1,331.69	1,331.42	1.21	1.14	0.40
5,563.00	91.75	270.12	4,321.74	78.34	-1,454.67	1,454.40	1.76	1.66	0.59
5,684.00	89.37	268.86	4,320.56	77.26	-1,575.65	1,575.38	2.23	-1.97	-1.04
5,804.00	90.35	269.44	4,320.85	75.48	-1,695.63	1,695.37	0.95	0.82	0.48
5,925.00	93.02	270.43	4,317.29	75.34	-1,816.57	1,816.31	2.35	2.21	0.82
6,046.00	90.16	269.18	4,313.93	74.93	-1,937.50	1,937.25	2.58	-2.36	-1.03
6,167.00	91.25	269.29	4,312.45	73.32	-2,058.48	2,058.23	0.91	0.90	0.09
6,286.00	90.04	269.49	4,311.11	72.05	-2,177.47	2,177.21	1.03	-1.02	0.17
6,405.00	91.61	269.93	4,309.39	71.45	-2,296.45	2,296.20	1.37	1.32	0.37
6,522.00	87.57	269.00	4,310.23	70.36	-2,413.41	2,413.17	3.54	-3.45	-0.79
6,646.00	89.01	269.74	4,313.93	68.99	-2,537.35	2,537.10	1.31	1.16	0.60
6,772.00	91.17	270.42	4,313.73	69.17	-2,663.34	2,663.10	1.80	1.71	0.54
6,897.00	89.20	269.27	4,313.33	68.83	-2,788.33	2,788.09	1.82	-1.58	-0.92
7,023.00	90.60	269.76	4,313.55	67.76	-2,914.32	2,914.08	1.18	1.11	0.39
7,148.00	92.48	270.38	4,310.19	67.92	-3,039.27	3,039.03	1.58	1.50	0.50
7,275.00	91.79	270.45	4,305.46	68.84	-3,166.18	3,165.93	0.55	-0.54	0.06
7,401.00	89.49	270.16	4,304.05	69.51	-3,292.16	3,291.91	1.84	-1.83	-0.23
7,527.00	89.01	270.66	4,305.70	70.41	-3,418.14	3,417.89	0.55	-0.38	0.40
7,653.00	89.21	270.55	4,307.66	71.74	-3,544.12	3,543.87	0.18	0.16	-0.09
7,779.00	90.64	269.58	4,307.82	71.88	-3,670.12	3,669.86	1.37	1.13	-0.77
7,905.00	91.93	268.61	4,305.00	69.89	-3,796.07	3,795.81	1.28	1.02	-0.77
8,031.00	92.09	269.53	4,300.58	67.85	-3,921.97	3,921.72	0.74	0.13	0.73
8,158.00	92.18	270.31	4,295.85	67.67	-4,048.88	4,048.63	0.62	0.07	0.61
8,284.00	90.41	269.71	4,293.00	67.69	-4,174.84	4,174.60	1.48	-1.40	-0.48
8,411.00	90.64	270.01	4,291.83	67.38	-4,301.84	4,301.59	0.30	0.18	0.24
8,537.00	90.16	271.00	4,290.95	68.49	-4,427.83	4,427.58	0.87	-0.38	0.79
8,663.00	89.18	269.59	4,291.68	69.14	-4,553.82	4,553.56	1.36	-0.78	-1.12
8,789.00	90.81	269.60	4,291.69	68.25	-4,679.81	4,679.56	1.29	1.29	0.01
8,916.00	92.15	270.73	4,288.41	68.62	-4,806.76	4,806.51	1.38	1.06	0.89
9,041.00	91.09	271.09	4,284.88	70.60	-4,931.70	4,931.43	0.90	-0.85	0.29
9,167.00	90.69	271.82	4,282.92	73.80	-5,057.64	5,057.37	0.66	-0.32	0.58
9,293.00	89.54	271.50	4,282.67	77.45	-5,183.58	5,183.30	0.95	-0.91	-0.25
9,337.00	89.43	271.55	4,283.06	78.62	-5,227.57	5,227.28	0.27	-0.25	0.11
9,344.63	89.43	271.55	4,283.14	78.83	-5,235.19	5,234.90	0.00	0.00	0.00
5. LTP 70H: 600' FNL, 100' FWL									
9,344.88	89.43	271.55	4,283.14	78.83	-5,235.44	5,235.15	0.00	0.00	0.00
FINAL LTP: 9344.88' MD/ 4283.14' TVD									
9,394.50	89.43	271.55	4,283.63	80.18	-5,285.04	5,284.75	0.00	0.00	0.00
6. BHL 70H: 600' FNL, 50' FWL									



Survey Report



Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well 70H
Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3611.00usft (AKITA 57)
Site:	HALBERD 27 STATE COM	MD Reference:	RKB = 20' @ 3611.00usft (AKITA 57)
Well:	70H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	WBDS_SQL_2

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,401.00	89.43	271.55	4,283.70	80.35	-5,291.54	5,291.24	0.00	0.00	0.00
Projection to Bit: 9401.00' MD/ 4283.70' TVD - Final Station Closure Distance= 5292.15 /Direction= 270.87 - TD: Latitude=									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
FINAL FTP: 601' FNL, - survey hits target center - Point	0.00	0.00	4,146.95	74.95	-211.39	658,873.95	595,913.21	32.8111476	-104.1556943
FINAL LTP: 580' FNL, - survey hits target center - Point	0.00	0.00	4,283.14	78.83	-5,235.44	658,877.84	590,889.16	32.8111804	-104.1720471
FINAL BIT PROJ/TD: - survey hits target center - Point	0.00	0.00	4,283.70	80.35	-5,291.54	658,879.36	590,833.06	32.8111848	-104.1722297

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
4,279.00	4,145.44	75.03	-208.79	START TANGENT: 4279.00' MD/ 4145.44' TVD	
4,282.01	4,146.95	74.95	-211.39	FINAL FTP: 4282.01' MD/ 4146.95' TVD	
4,469.00	4,236.30	69.16	-375.53	END TANGENT: 4469.00' MD/ 4236.30' TVD	
9,344.88	4,283.14	78.83	-5,235.44	FINAL LTP: 9344.88' MD/ 4283.14' TVD	
9,401.00	4,283.70	80.35	-5,291.54	Projection to Bit: 9401.00' MD/ 4283.70' TVD	
9,401.00	4,283.70	80.35	-5,291.54	Final Station Closure Distance= 5292.15 /Direction= 270.87	
9,401.00	4,283.70	80.35	-5,291.54	TD: Latitude= 32.8111848 / Longitude= -104.1722297	
9,401.00	4,283.70	80.35	-5,291.54	TD: Y= 658879.35 / X= 590833.06	

Checked By: _____	Approved By: _____	Date: _____
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Company: Spur Energy Partners, LLC
Project: Eddy County, NM (NAD 83 - NME)
Site: HALBERD 27 STATE COM
Well: 70H
Wellbore: Wellbore #1
Rig: AKITA 57
Design: PLAN #3 / 11:43, May 02 2022



WELL DETAILS: 70H

RKB = 20' @ 3611.00usft (AKITA 57)					
3591.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	658799.00	596124.60	32.8109406	-104.1550067

SECTION DETAILS

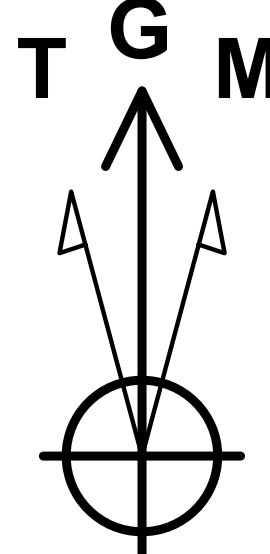
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect
1	1216.00	3.60	68.30	1215.48	10.10	14.93	0.00	-14.97
2	1270.00	3.60	68.30	1269.38	11.35	18.08	0.00	-18.12
3	1276.66	3.54	66.40	1276.02	11.51	18.47	2.00	-18.51
4	3493.18	3.54	66.40	3488.32	66.27	143.82	0.00	-144.04
5	4283.89	60.00	269.81	4149.12	75.90	-213.23	8.00	212.98
6	4483.89	60.00	269.81	4249.12	75.33	-386.43	0.00	386.18
7	4788.97	90.51	269.81	4325.86	74.36	-677.99	10.00	677.74
8	9346.88	90.51	269.81	4285.44	59.27	-5235.70	0.00	5235.47
9	9396.78	90.51	269.81	4285.00	59.10	-5285.60	0.00	5285.37

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
1. SHL 70H: 685' FNL, 112' FWL	0.00	0.00	0.00	658799.00	596124.60	32.8109406	-104.1550067
2. KOP 70H @ 3493.18' MD	3488.32	66.27	143.82	658865.27	596268.42	32.8111221	-104.1545382
3. FTP 70H: 600' FNL, 100' FEL	4330.00	75.90	-211.40	658874.90	595913.20	32.8111502	-104.1556944
4. PLAN LP 70H: 600' FNL, 567' FEL	4325.86	74.36	-677.99	658873.36	595446.61	32.8111481	-104.1572131
5. LTP 70H: 600' FNL, 100' FWL	4285.44	59.30	-5235.70	658858.30	590888.90	32.8111267	-104.1720480
6. BHL 70H: 600' FNL, 50' FWL	4285.00	59.10	-5285.60	658858.10	590839.00	32.8111264	-104.1722105

CORRECTION REFERENCE DATA:

To convert a Magnetic Direction to a Grid Direction, Add 6.688°
To convert a True Direction to a Grid Direction, Subtract 0.097°
To convert a Magnetic Direction to a True Direction, Add 6.785° East
Magnetic Declination: 6.785°
Grid Convergence: 0.097° West
Magnetic Dip Angle: 60.324°
Magnetic Field Strength: 47708.99320270nT



Azimuths to Grid North
True North: -0.10°
Magnetic North: 6.69°

Magnetic Field
Strength: 47709.0snT
Dip Angle: 60.32°
Date: 02/14/2022
Model: IGRF2020

FINAL LTP: 9344.88' MD/ 4283.14' TVD

Projection to Bit: 9401.00' MD/ 4283.70' TVD

Final Station Closure Distance= 5292.15 /Direction= 270.87

TD: Latitude= 32.8111848 / Longitude= -104.1722297

TD: Y= 658879.35 / X= 590833.06

70H FINAL SURVEY

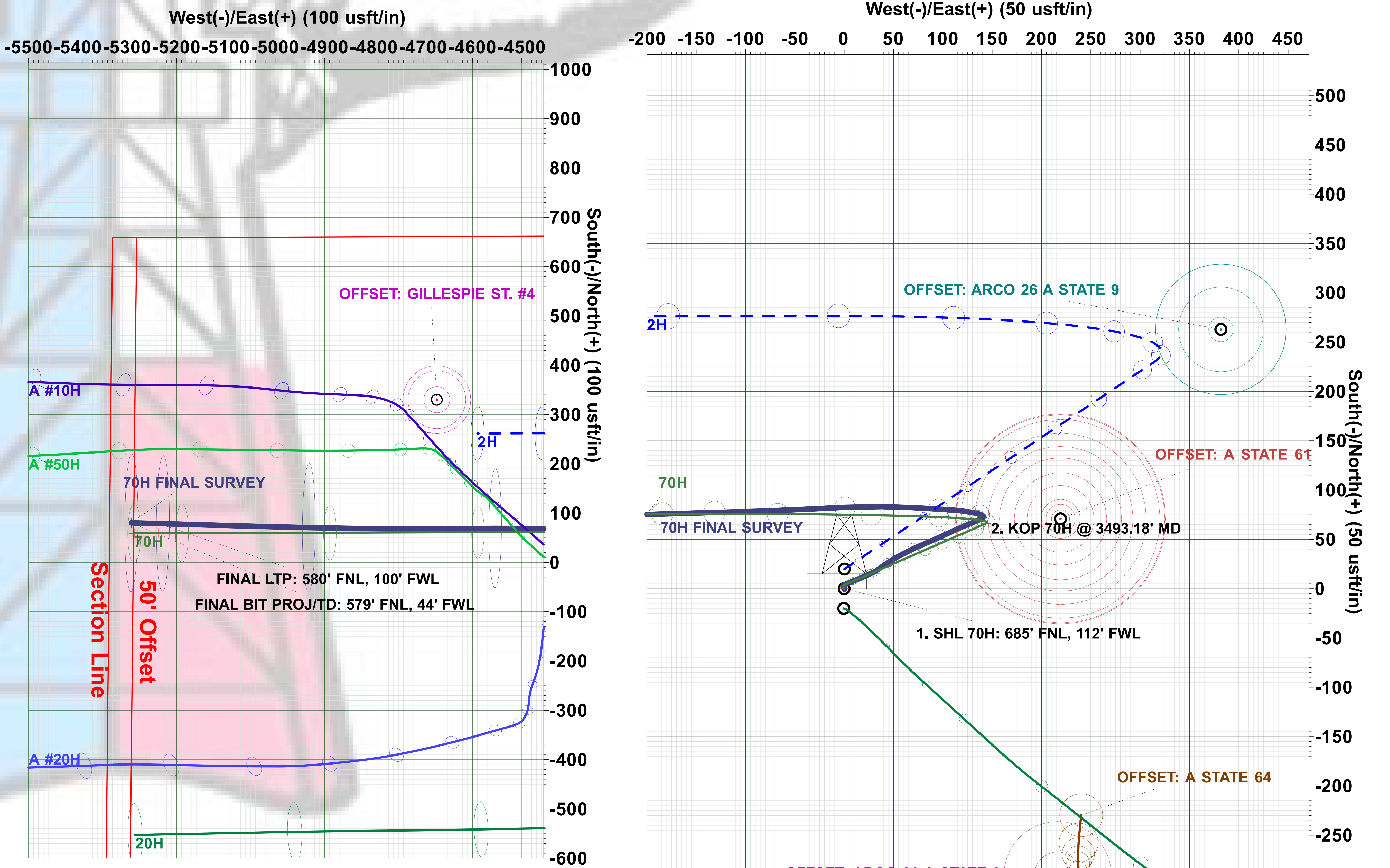
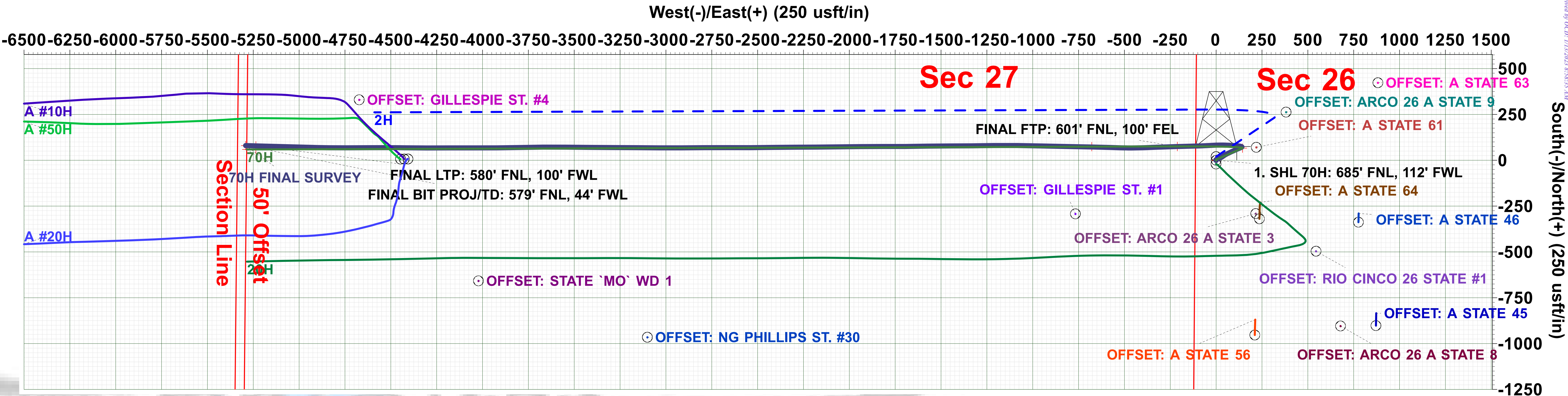
FINAL FTP: 4282.01' MD/ 4146.95' TVD

START TANGENT: 4279.00' MD/ 4145.44' TVD

END TANGENT: 4469.00' MD/ 4236.30' TVD

FINAL FTP: 601' FNL, 100' FEL

Vertical Section at 269.81° (200 usft/in)



PROJECT DETAILS: Eddy County, NM (NAD 83 - NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

Disclaimer:

All Plan Details, boundary lines and offset well location/ survey data is provided by customer and subject to customer approval.

Plan: PLAN #3 (70H/Wellbore #1) AKITA 57

Created By: Derek Stephens Date: 11:43, May 02 2022

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 <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 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					
WELL COMPLETION OR RECOMPLETION REPORT AND LOG								1. WELL API NO. 30-015-49360		
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ 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)								2. Type of Lease ☒ STATE ☐ FEE ☐ FED/INDIAN		
								3. State Oil & Gas Lease No.		
5. Lease Name or Unit Agreement Name HALBERD 27 STATE COM								6. Well Number: 70H		
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ 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 ARTESIA; GLORIETA-YESO (O)				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	D	26	17S	28E		685	NORTH	112	WEST	EDDY
BH:	D	27	17S	28E		579	NORTH	44	WEST	EDDY
13. Date Spudded 04/04/2022	14. Date T.D. Reached 04/24/2022		15. Date Rig Released 04/26/2022		16. Date Completed (Ready to Produce) 10/13/2022			17. Elevations (DF and RKB, RT, GR, etc.) 3591' GR		
18. Total Measured Depth of Well 9401'M/4284'V			19. Plug Back Measured Depth 9359'M/4284'V		20. Was Directional Survey Made? YES			21. Type Electric and Other Logs Run GAMMA RAY		
22. Producing Interval(s), of this completion - Top, Bottom, Name 4567'-9335' 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		1258'		12-1/4"		605 SXS (CIRC 203 SXS		TO SURFACE)
7"		32		4529'		8-3/4"		1620 SXS (CIRC 365 SXS		TO SURFACE)
5-1/2"		20		9401'		8-3/4"		1620 SXS (CIRC 365 SXS		TO SURFACE)
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		SIZE	DEPTH SET		PACKER SET	
						3-1/2"	4374'			
26. Perforation record (interval, size, and number) 07/19/2022 RIH & cleanout to PBTD @ 9359'. RIH & perf from 4567'-9335', total shots 900/ft @ 0.42 shot size. Frac in 25 stages w/ 12204864gal freshwater and 4972560# sand. 08/24/2022 rig down wireline and cleanout. RIH w/ 3-1/2" J-55 tbg @ 4374'.						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						4567'-9335'		12204864 GAL SLICKWATER AND 4972560# SAND		
28. PRODUCTION										
Date First Production 10/13/2022		Production Method (Flowing, gas lift, pumping - Size and type pump) PUMPING ON ESP				Well Status (Prod. or Shut-in) PRODUCING				
Date of Test 11/14/2022	Hours Tested 24-HOURS	Choke Size N/A	Prod'n For Test Period	Oil - Bbl 747	Gas - MCF 828	Water - Bbl. 2400	Gas - Oil Ratio			
Flow Tubing Press. 126	Casing Pressure 155	Calculated 24-Hour Rate	Oil - Bbl. 747	Gas - MCF 828	Water - Bbl. 2400	Oil Gravity - API - (Corr.)				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) SOLD								30. Test Witnessed By JERRY MATHEWS		
31. List Attachments AS-DRILLED C-102, DIRECTIONAL PLANS AND FINAL C-104										
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 <i>Sarah Chapman</i> Printed Name SARAH CHAPMAN E-mail Address SCHAPMAN@SPURENERGY.COM Title REGULAORY DIRECTOR Date 01/13/2023										

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 465'	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers 725'	T. Devonian	T. Cliff House	T. Leadville
T. Queen 1270'	T. Silurian	T. Menefee	T. Madison
T. Grayburg 1680'	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres 1956'	T. Simpson	T. Mancos	T. McCracken
T. Glorieta 3365'	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs	T. Todilto	
T. Abo	T. YESO 3450'	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.....

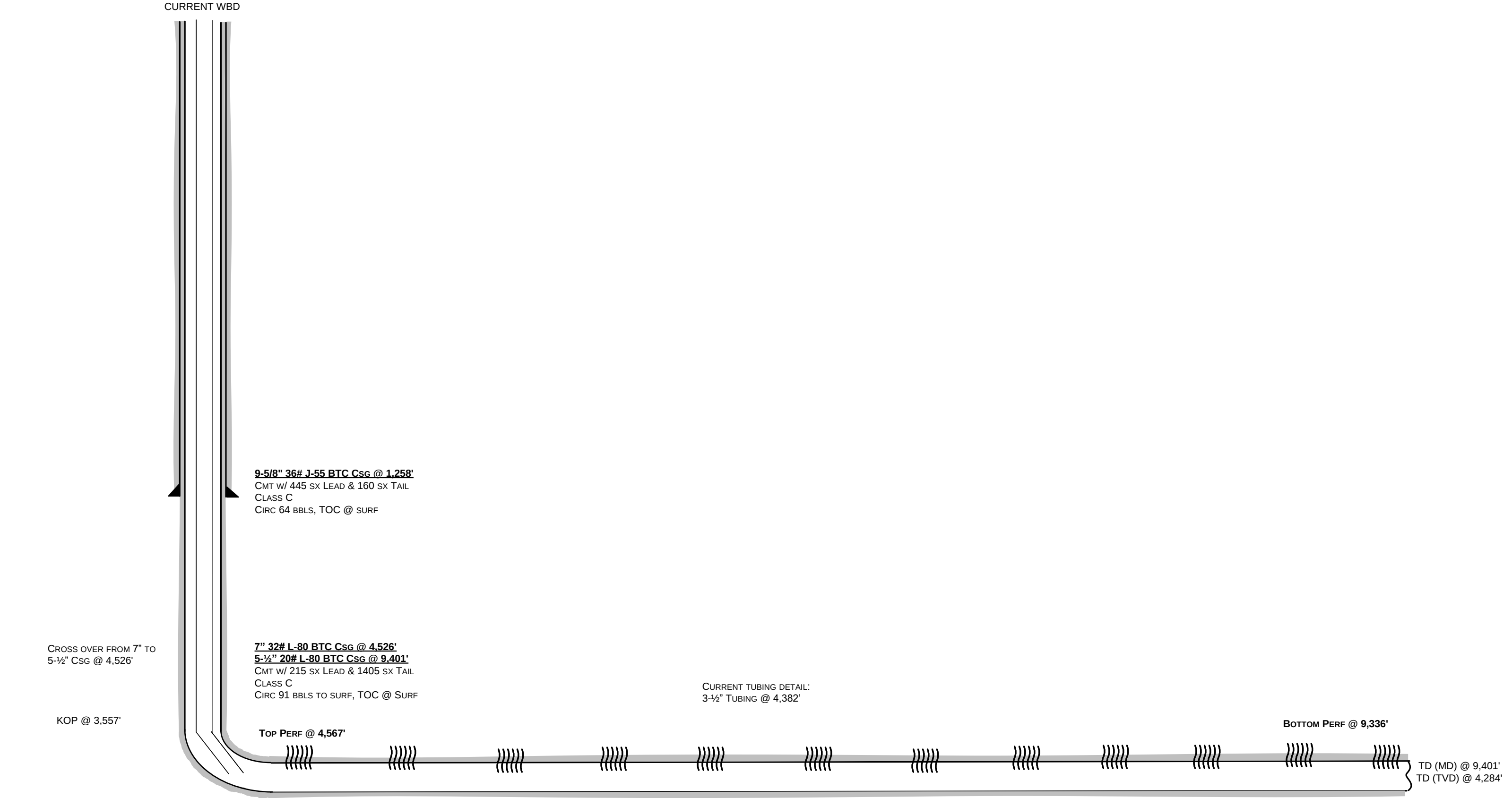
No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology
465	725	260	DOLOMITE				
725	1270	545	DOLOMITE, LIMESTONE				
1270	1680	410	DOLOMITE, SANDSTONE				
1680	1956	276	DOLOMITE				
1956	3365	1400	DOLOMITE, SILTSTONE				
3365	3450	85	DOLOMITE				

Eddy County, NM
API# 30-015-49360

SPUD DATE: 4/4/2022
ELEV: 3591' GL, 20' KB



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 175802

ACKNOWLEDGMENTS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 175802
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

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

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

CONDITIONS

Action 175802

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 175802
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	6/16/2025