

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 RT 08/16/2021
⁴ API Number 30 - 0 15-48121	⁵ Pool Name LOCO HILLS; GLORIETA-YESO	
⁶ Pool Code 96718		
⁷ Property Code 330331	⁸ Property Name SHORTY 2 STATE COM	⁹ Well Number 20H

II. ¹⁰ Surface Location

UL or lot no. E	Section 02	Township 17S	Range 30E	Lot Idn	Feet from the 2081	North/South Line NORTH	Feet from the 205	East/West line WEST	County EDDY
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¹¹ Bottom Hole Location

FTP: 2406' FNL 863' FWL LTP: 2414' FNL 403' FEL

UL or lot no. H	Section 02	Township 17S	Range 30E	Lot Idn	Feet from the 2413	North/South line NORTH	Feet from the 245	East/West line EAST	County EDDY
¹² Lse Code S	¹³ Producing Method Code P	¹⁴ Gas Connection Date TBD	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 05/13/2021	²² Ready Date 08/16/2021	²³ TD 4843'V/9528'M	²⁴ PBTD 4843'V/9528'M	²⁵ Perforations 5355'-9370'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set	³⁰ Sacks Cement
17-1/2"		13-3/8" 54.5# J-55 BTC		415'	395 SXS (CIRC TO SURFACE)
13-3/8"		9-5/8" 36# J-55 BTC		1815'	565 SXS (CIRC TO SURFACE)
8-3/4"		7" 32# L-80 BK-HT 5-1/2" 20# L-80 BK-HT		5121' 9528'	1435 SXS (CIRC TO SURFACE)

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: <i>Sarah Chapman</i> Printed name: SARAH CHAPMAN Title: REGULATORY DIRECTOR E-mail Address: SCHAPMAN@SPUREPLLC.COM Date: 08/16/2021	Phone: 832-930-8613	OIL CONSERVATION DIVISION	
	Approved by: KURT SIMMONS		
	Title: NMOCD, SANTA FE		
	Approval Date: 09/24/2021		
	RT C-104 EXPIRES 11/16/2021		

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

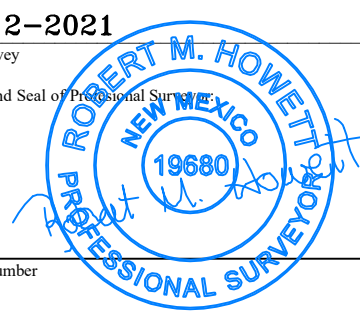
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT
AS-DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-48121		2 Pool Code 96718		3 Pool Name LOCO HILLS; GLORIETA-YESO					
4 Property Code 330331		5 Property Name SHORTY 2 STATE COM						6 Well Number 20H	
7 GRID NO. 328947		8 Operator Name SPUR ENERGY PARTNERS LLC						9 Elevation 3752'	
10 Surface Location									
UL or lot no. E	Section 2	Township 17S	Range 30E	Lot Idn	Feet from the 2018	North/South line NORTH	Feet From the 205	East/West line WEST	County EDDY
11 Bottom Hole Location If Different From Surface									
UL or lot no. H	Section 2	Township 17S	Range 30E	Lot Idn	Feet from the 2413	North/South line NORTH	Feet from the 245	East/West line EAST	County EDDY
12 Dedicated Acres 160		13 Joint or Infill		14 Consolidation Code		15 Order No.			

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

16 <u>GEODETIC DATA</u> NAD 83 GRID - NM EAST <u>SURFACE LOCATION (SL)</u> N: 678713.2 - E: 658884.0 LAT: 32.8652188° N LONG: 103.9504991° W <u>FIRST TAKE POINT (FTP)</u> 2406' FNL & 863' FWL N: 678327.1 - E: 659543.7 LAT: 32.8641511° N LONG: 103.9483553° W MD: 5355.0 - TVD: 4836.9 <u>LAST TAKE POINT (LTP)</u> 2414' FNL & 403' FEL N: 678332.6 - E: 663557.7 LAT: 32.8641252° N LONG: 103.9352824° W MD: 9470.0 - TVD: 4842.6		<u>BOTTOM HOLE (BH)</u> N: 678334.1 - E: 663715.7 LAT: 32.8641276° N LONG: 103.9347679° W MD: 9528.0 - TVD: 4843.2 <u>CORNER DATA</u> NAD 83 GRID - NM EAST A: FOUND BRASS CAP "1916" N 675443.0 - E 653411.2 B: FOUND BRASS CAP "1916" N 678082.1 - E 653402.4 C: FOUND BRASS CAP "1916" N 680713.3 - E 653392.4 D: FOUND BRASS CAP "1916" N 680722.0 - E 656032.0		E: FOUND BRASS CAP "1916" N 680729.8 - E 658673.7 F: FOUND BRASS CAP "1916" N 680738.2 - E 661314.5 G: FOUND BRASS CAP "1916" N 680747.5 - E 663952.3 H: FOUND BRASS CAP "1916" N 678115.0 - E 663961.8 I: FOUND BRASS CAP "1916" N 675482.0 - E 663970.7 J: FOUND BRASS CAP "1916" N 675465.0 - E 661330.4 K: FOUND BRASS CAP "1916" N 675454.6 - E 658689.2 L: FOUND BRASS CAP "1916" N 678091.2 - E 658681.2		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Sarah Chapman</i> 08/16/2021 Signature Date SARAH CHAPMAN Printed Name SCHAPMAN@SPUREPLLC.COM E-mail Address	
18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 08-12-2021 Date of Survey Signature and Seal of Professional Surveyor:  19680 Certificate Number		Job No: LS21010061-AC					



I **Larry Wright** certify that I am employed by **Wellbenders Directional Services**. That I did on the day(s) of **06/12/21** thru **06/18/21** conduct or supervise the taking of a **MWD Survey** from a depth of **407'** to a depth of **9528'**; 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 **Shorty 2 State Com 20H** API No. **30-015-48121** 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*



Spur Energy Partners, LLC

Eddy County, NM (NAD 83 - NME)

SHORTY 2 STATE COM (10-20-70)

#20H

Wellbore #1

Design: Wellbore #1

Standard Survey Report

18 June, 2021





Survey Report



Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well #20H
Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3772.00usft
Site:	SHORTY 2 STATE COM (10-20-70)	MD Reference:	RKB = 20' @ 3772.00usft
Well:	#20H	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						SHORTY 2 STATE COM (10-20-70)											
Site Position:						Northing:			678,753.20 usft			Latitude:			32.8653287		
From:			Map			Easting:			658,884.00 usft			Longitude:			-103.9504986		
Position Uncertainty:			0.00 usft			Slot Radius:			13.200 in			Grid Convergence:			0.208 °		

Well	#20H					
Well Position	+N/-S	0.00 usft	Northing:	678,713.20 usft	Latitude:	32.8652169
	+E/-W	0.00 usft	Easting:	659,079.00 usft	Longitude:	-103.9498640
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,752.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	5/19/2021	6.781	60.428	47,838.75268647

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)	Direction (°)	
	0.00	0.00	0.00	89.81	

Survey Program	Date	6/18/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
20.00	407.00	INVICTUS TOOL (Wellbore #1)	MWD+IGRF	OWSG MWD + IGRF or WMM	
468.00	9,528.00	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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20.00	0.00	359.79	20.00	0.00	0.00	0.00	0.00	0.00	0.00	
109.00	0.10	312.59	109.00	0.05	-0.06	-0.06	0.11	0.11	0.00	
167.00	0.20	275.59	167.00	0.10	-0.20	-0.19	0.23	0.17	-63.79	
195.00	0.20	226.59	195.00	0.07	-0.28	-0.28	0.59	0.00	-175.00	
222.00	0.30	228.59	222.00	-0.01	-0.37	-0.37	0.37	0.37	7.41	
250.00	0.60	227.59	250.00	-0.16	-0.53	-0.53	1.07	1.07	-3.57	
281.00	0.70	239.59	281.00	-0.36	-0.81	-0.81	0.54	0.32	38.71	
312.00	0.90	244.59	311.99	-0.56	-1.20	-1.20	0.68	0.65	16.13	
344.00	0.90	255.59	343.99	-0.73	-1.67	-1.67	0.54	0.00	34.37	



Survey Report



Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well #20H
Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3772.00usft
Site:	SHORTY 2 STATE COM (10-20-70)	MD Reference:	RKB = 20' @ 3772.00usft
Well:	#20H	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)
375.00	1.20	247.59	374.98	-0.92	-2.20	-2.21	1.07	0.97	-25.81
407.00	1.20	249.59	406.98	-1.16	-2.83	-2.83	0.13	0.00	6.25
468.00	0.92	233.77	467.97	-1.68	-3.82	-3.83	0.66	-0.46	-25.93
591.00	2.73	213.47	590.90	-4.70	-6.23	-6.25	1.54	1.47	-16.50
710.00	5.27	212.32	709.60	-11.69	-10.72	-10.76	2.14	2.13	-0.97
831.00	8.18	214.08	829.76	-23.51	-18.51	-18.59	2.41	2.40	1.45
951.00	10.02	213.73	948.24	-39.27	-29.10	-29.23	1.53	1.53	-0.29
1,071.00	10.59	212.06	1,066.30	-57.30	-40.75	-40.94	0.54	0.47	-1.39
1,191.00	10.77	211.80	1,184.23	-76.17	-52.51	-52.76	0.16	0.15	-0.22
1,314.00	10.64	211.71	1,305.08	-95.60	-64.53	-64.85	0.11	-0.11	-0.07
1,439.00	10.42	211.27	1,427.98	-115.08	-76.46	-76.85	0.19	-0.18	-0.35
1,565.00	10.20	210.22	1,551.95	-134.46	-87.99	-88.44	0.23	-0.17	-0.83
1,692.00	9.85	210.48	1,677.01	-153.54	-99.16	-99.67	0.28	-0.28	0.20
1,751.00	9.80	210.22	1,735.14	-162.22	-104.25	-104.79	0.11	-0.08	-0.44
1,899.00	9.49	209.07	1,881.05	-183.77	-116.52	-117.13	0.25	-0.21	-0.78
2,025.00	7.69	223.84	2,005.65	-198.93	-127.41	-128.07	2.25	-1.43	11.72
2,148.00	7.16	222.96	2,127.61	-210.48	-138.33	-139.03	0.44	-0.43	-0.72
2,298.00	6.90	223.57	2,276.49	-223.85	-150.91	-151.65	0.18	-0.17	0.41
2,424.00	6.33	223.05	2,401.65	-234.41	-160.87	-161.65	0.45	-0.45	-0.41
2,550.00	5.71	220.24	2,526.95	-244.27	-169.66	-170.47	0.54	-0.49	-2.23
2,676.00	7.16	219.53	2,652.15	-255.11	-178.71	-179.55	1.15	1.15	-0.56
2,802.00	6.59	217.77	2,777.25	-266.88	-188.14	-189.02	0.48	-0.45	-1.40
2,928.00	8.70	218.74	2,902.12	-280.03	-198.53	-199.46	1.68	1.67	0.77
3,054.00	9.10	217.86	3,026.60	-295.33	-210.61	-211.58	0.34	0.32	-0.70
3,180.00	9.10	217.33	3,151.02	-311.12	-222.76	-223.79	0.07	0.00	-0.42
3,306.00	9.01	216.46	3,275.45	-326.98	-234.67	-235.75	0.13	-0.07	-0.69
3,433.00	7.60	210.48	3,401.11	-342.22	-244.84	-245.97	1.30	-1.11	-4.71
3,559.00	7.56	210.74	3,526.01	-356.52	-253.30	-254.48	0.04	-0.03	0.21
3,686.00	7.69	210.66	3,651.89	-371.01	-261.91	-263.13	0.10	0.10	-0.06
3,749.00	8.00	211.36	3,714.30	-378.38	-266.34	-267.59	0.51	0.49	1.11
3,812.00	6.33	192.90	3,776.82	-385.51	-269.39	-270.67	4.48	-2.65	-29.30
3,875.00	6.81	157.74	3,839.43	-392.35	-268.75	-270.05	6.33	0.76	-55.81
3,938.00	9.67	135.07	3,901.79	-399.56	-263.60	-264.92	6.79	4.54	-35.98
4,002.00	12.79	123.20	3,964.56	-407.25	-253.87	-255.22	6.04	4.87	-18.55
4,065.00	15.30	115.03	4,025.68	-414.59	-240.50	-241.88	5.07	3.98	-12.97
4,128.00	18.51	109.14	4,085.95	-421.38	-223.52	-224.91	5.77	5.10	-9.35
4,190.00	21.45	105.98	4,144.22	-427.73	-203.32	-204.73	5.05	4.74	-5.10
4,253.00	24.75	103.43	4,202.16	-433.97	-179.41	-180.85	5.47	5.24	-4.05
4,317.00	27.12	100.18	4,259.71	-439.66	-152.02	-153.47	4.32	3.70	-5.08
4,380.00	30.02	94.38	4,315.05	-443.40	-122.16	-123.63	6.37	4.60	-9.21
4,443.00	33.67	87.43	4,368.57	-443.82	-88.97	-90.45	8.20	5.79	-11.03
4,506.00	36.62	86.82	4,420.08	-442.00	-52.76	-54.22	4.72	4.68	-0.97
4,569.00	40.70	87.43	4,469.27	-440.03	-13.46	-14.92	6.50	6.48	0.97



Survey Report



Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well #20H
Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3772.00usft
Site:	SHORTY 2 STATE COM (10-20-70)	MD Reference:	RKB = 20' @ 3772.00usft
Well:	#20H	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)
4,633.00	45.80	86.99	4,515.87	-437.89	30.32	28.87	7.98	7.97	-0.69
4,694.00	48.88	86.29	4,557.20	-435.26	75.10	73.66	5.12	5.05	-1.15
4,753.00	51.87	86.03	4,594.82	-432.21	120.44	119.00	5.08	5.07	-0.44
4,814.00	55.21	84.97	4,631.07	-428.35	169.34	167.92	5.65	5.48	-1.74
4,874.00	59.78	84.71	4,663.30	-423.80	219.72	218.31	7.63	7.62	-0.43
4,904.00	60.26	84.44	4,678.29	-421.34	245.59	244.19	1.78	1.60	-0.90
4,934.00	60.35	84.44	4,693.15	-418.82	271.53	270.14	0.30	0.30	0.00
4,964.00	60.35	84.44	4,707.99	-416.29	297.47	296.09	0.00	0.00	0.00
4,994.00	60.44	84.44	4,722.81	-413.76	323.44	322.06	0.30	0.30	0.00
5,024.00	60.48	84.27	4,737.61	-411.20	349.41	348.04	0.51	0.13	-0.57
5,054.00	60.48	84.36	4,752.39	-408.61	375.39	374.03	0.26	0.00	0.30
5,083.00	62.33	85.06	4,766.27	-406.27	400.74	399.39	6.72	6.38	2.41
5,114.00	64.62	86.11	4,780.11	-404.13	428.39	427.05	7.98	7.39	3.39
5,176.00	68.92	85.41	4,804.56	-399.92	485.20	483.87	7.01	6.94	-1.13
5,235.00	76.04	84.80	4,822.31	-395.11	541.22	539.90	12.11	12.07	-1.03
5,296.00	83.16	85.67	4,833.31	-390.14	600.97	599.67	11.76	11.67	1.43
5,356.00	90.02	86.38	4,836.88	-385.99	660.68	659.40	11.49	11.43	1.18
5,416.00	90.99	86.11	4,836.35	-382.06	720.55	719.28	1.68	1.62	-0.45
5,536.00	90.95	87.96	4,834.32	-375.85	840.37	839.12	1.54	-0.03	1.54
5,656.00	90.29	88.75	4,833.02	-372.41	960.31	959.07	0.86	-0.55	0.66
5,776.00	90.68	89.01	4,832.01	-370.06	1,080.28	1,079.05	0.39	0.32	0.22
5,899.00	88.75	90.16	4,832.62	-369.17	1,203.27	1,202.04	1.83	-1.57	0.93
6,025.00	89.32	90.24	4,834.74	-369.61	1,329.25	1,328.02	0.46	0.45	0.06
6,151.00	88.84	90.24	4,836.76	-370.14	1,455.23	1,454.00	0.38	-0.38	0.00
6,278.00	88.70	89.98	4,839.49	-370.38	1,582.20	1,580.97	0.23	-0.11	-0.20
6,404.00	88.40	90.33	4,842.68	-370.72	1,708.16	1,706.92	0.37	-0.24	0.28
6,530.00	90.64	91.12	4,843.73	-372.32	1,834.14	1,832.89	1.89	1.78	0.63
6,656.00	90.11	91.04	4,842.91	-374.69	1,960.11	1,958.86	0.43	-0.42	-0.06
6,780.00	90.42	90.86	4,842.33	-376.75	2,084.09	2,082.83	0.29	0.25	-0.15
6,906.00	90.07	90.68	4,841.80	-378.44	2,210.08	2,208.81	0.31	-0.28	-0.14
7,031.00	90.02	90.77	4,841.70	-380.02	2,335.07	2,333.80	0.08	-0.04	0.07
7,157.00	89.49	90.77	4,842.24	-381.72	2,461.06	2,459.78	0.42	-0.42	0.00
7,283.00	90.46	88.22	4,842.29	-380.61	2,587.04	2,585.76	2.17	0.77	-2.02
7,409.00	90.33	88.75	4,841.42	-377.28	2,712.99	2,711.73	0.43	-0.10	0.42
7,536.00	89.71	89.19	4,841.38	-374.99	2,839.97	2,838.71	0.60	-0.49	0.35
7,660.00	89.05	89.10	4,842.72	-373.14	2,963.95	2,962.70	0.54	-0.53	-0.07
7,787.00	91.25	89.01	4,842.39	-371.05	3,090.92	3,089.68	1.73	1.73	-0.07
7,913.00	90.64	89.45	4,840.31	-369.36	3,216.90	3,215.65	0.60	-0.48	0.35
8,038.00	89.54	89.72	4,840.11	-368.45	3,341.89	3,340.65	0.91	-0.88	0.22
8,164.00	89.58	90.51	4,841.08	-368.70	3,467.88	3,466.64	0.63	0.03	0.63
8,290.00	89.23	90.42	4,842.39	-369.73	3,593.87	3,592.63	0.29	-0.28	-0.07
8,417.00	88.31	89.98	4,845.12	-370.17	3,720.84	3,719.59	0.80	-0.72	-0.35
8,543.00	91.34	90.16	4,845.50	-370.32	3,846.83	3,845.58	2.41	2.40	0.14



Survey Report



Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well #20H
Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3772.00usft
Site:	SHORTY 2 STATE COM (10-20-70)	MD Reference:	RKB = 20' @ 3772.00usft
Well:	#20H	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)
8,669.00	90.73	90.24	4,843.22	-370.76	3,972.80	3,971.55	0.49	-0.48	0.06
8,795.00	90.02	90.51	4,842.40	-371.59	4,098.80	4,097.54	0.60	-0.56	0.21
8,921.00	89.45	90.60	4,842.98	-372.81	4,224.79	4,223.53	0.46	-0.45	0.07
9,048.00	90.64	91.30	4,842.88	-374.91	4,351.77	4,350.50	1.09	0.94	0.55
9,174.00	90.33	91.30	4,841.82	-377.77	4,477.73	4,476.46	0.25	-0.25	0.00
9,301.00	89.36	91.21	4,842.16	-380.55	4,604.70	4,603.41	0.77	-0.76	-0.07
9,454.00	89.93	88.84	4,843.11	-380.62	4,757.69	4,756.40	1.59	0.37	-1.55
9,528.00	89.93	88.84	4,843.20	-379.12	4,831.67	4,830.39	0.00	0.00	0.00

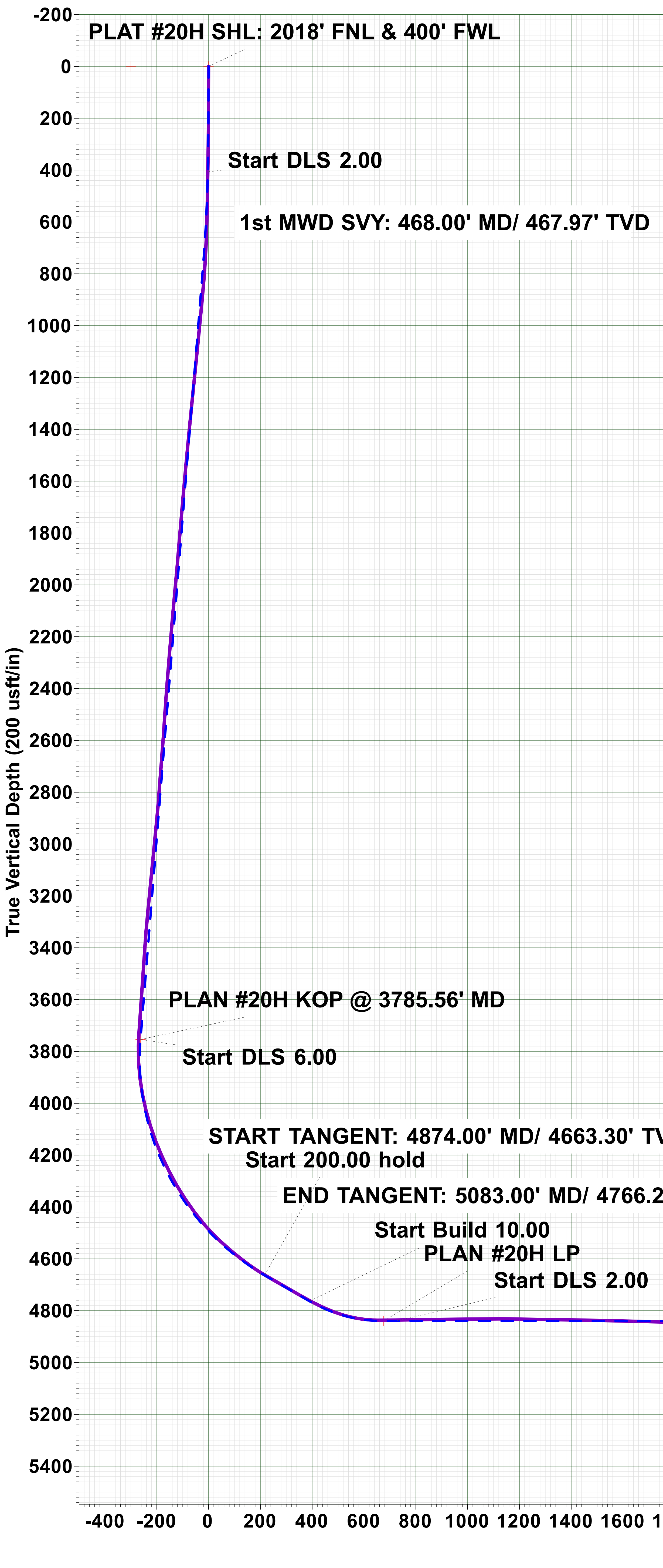
Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
FINAL #20H 100' FWL	0.00	0.00	4,843.14	-380.13	4,782.01	678,333.07	663,861.01	32.8641233	-103.9342946
- actual wellpath misses target center by 24.33usft at 9454.00usft MD (4843.11 TVD, -380.62 N, 4757.69 E)									
- Point									
FINAL #20H 50' FWL/	0.00	0.00	4,843.20	-379.12	4,831.67	678,334.07	663,910.68	32.8641256	-103.9341328
- actual wellpath hits target center									
- Point									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
468.00	467.97	-1.68	-3.82	1st MWD SVY: 468.00' MD/ 467.97' TVD
4,874.00	4,663.30	-423.80	219.72	START TANGENT: 4874.00' MD/ 4663.30' TVD
5,083.00	4,766.27	-406.27	400.74	END TANGENT: 5083.00' MD/ 4766.27' TVD
9,528.00	4,843.20	-379.12	4,831.67	TD: Y= 678334.08 / X= 663910.67
9,528.00	4,843.20	-379.12	4,831.67	Final Station Closure Distance= 4846.52 /Direction= 94.49
9,528.00	4,843.20	-379.12	4,831.67	Projection to Bit: 9528.00' MD/ 4843.20' TVD
9,528.00	4,843.20	-379.12	4,831.67	TD: Latitude= 32.8641256 / Longitude= -103.9341328

Checked By: _____	Approved By: _____	Date: _____
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Company: Spur Energy Partners, LLC
Project: Eddy County, NM (NAD 83 - NME)
Site: SHORTY 2 STATE COM (10-20-70)
Well: #20H
Wellbore: Wellbore #1
Rig:
Design: Plan #4 / 7:18, June 18 2021

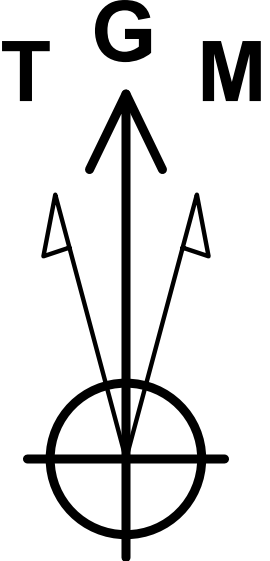


WELL DETAILS: #20H						
RKB = 20' @ 3772.00usft 3752.00						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	678713.20	659079.00	32.8652168	-103.9498640	

SECTION DETAILS								
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect
1	407.00	1.20	249.59	406.98	-1.16	-2.83	0.00	-2.83
2	766.04	8.13	214.31	764.64	-23.47	-20.68	2.00	-20.76
3	3785.56	8.13	214.31	3753.84	-376.06	-261.28	0.00	-262.53
4	4871.73	60.00	86.50	4663.24	-415.06	217.67	6.00	216.30
5	5071.73	60.00	86.50	4763.24	-404.49	390.56	0.00	389.21
6	5371.73	90.00	86.50	4840.00	-387.00	676.50	10.00	675.21
7	5421.73	90.00	86.50	4840.00	-383.95	726.41	0.00	725.13
8	5587.04	90.00	89.81	4840.00	-378.62	891.61	2.00	890.35
9	9527.45	90.00	89.81	4840.00	-365.30	4832.00	0.00	4830.76

CORRECTION REFERENCE DATA:

To convert a Magnetic Direction to a Grid Direction, Add 6.573°
To convert a True Direction to a Grid Direction, Subtract 0.208°
To convert a Magnetic Direction to a True Direction, Add 6.781° East
Magnetic Declination: 6.781°
Grid Convergence: 0.208° West
Magnetic Dip Angle: 60.428°
Magnetic Field Strength: 47838.75268647nT

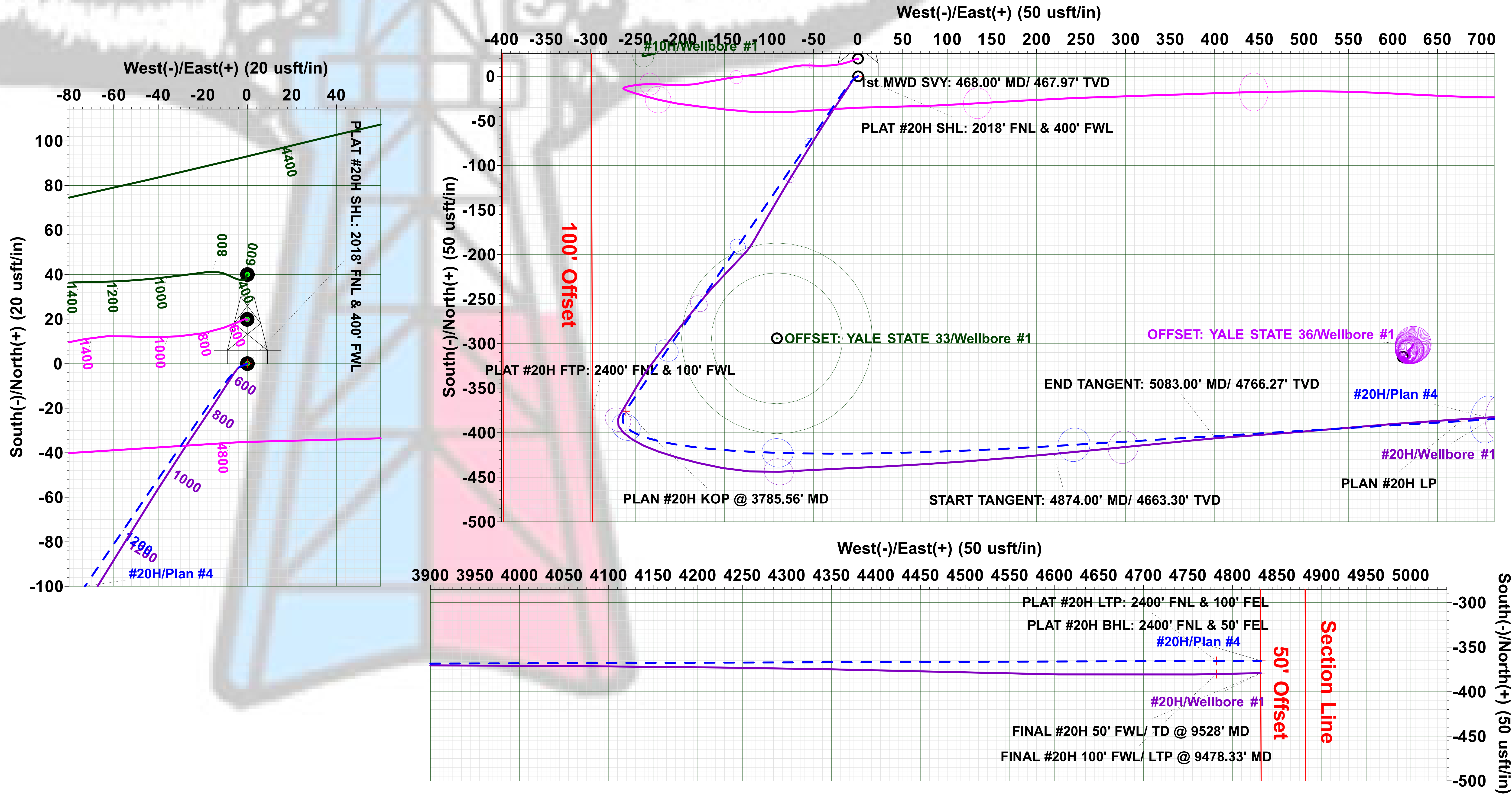
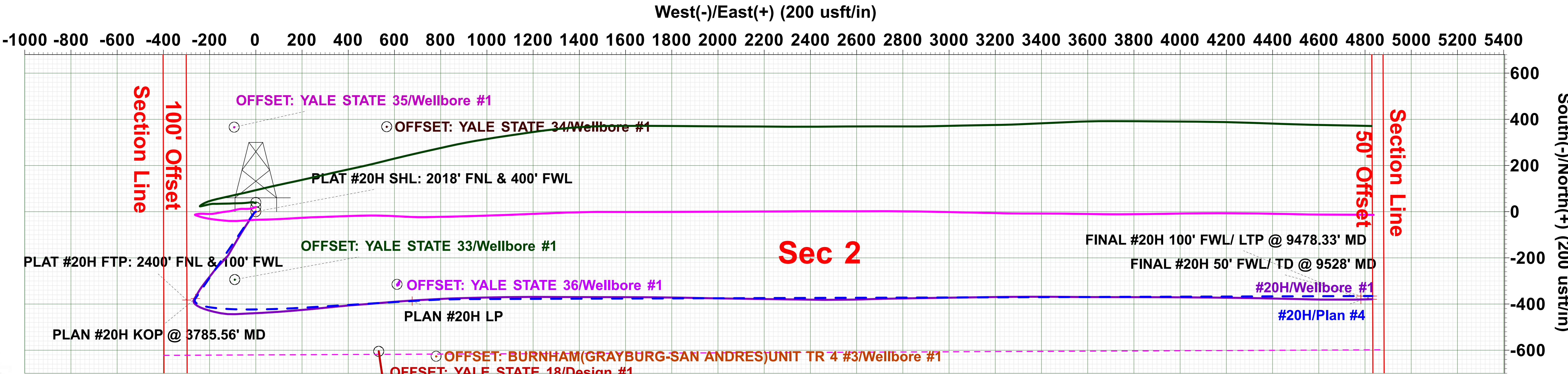


Azimuths to Grid North
True North: -0.21°
Magnetic North: 6.57°

Magnetic Field
Strength: 47838.8snT
Dip Angle: 60.43°
Date: 5/19/2021
Model: IGRF2020

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



DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PLAT #20H FTP: 2400' FNL & 100' FWL	0.00	-382.50	-298.50	678330.70	658780.50	32.8641685	-103.9508406
PLAT #20H SHL: 2018' FNL & 400' FWL	0.00	0.00	0.00	678713.20	659079.00	32.8652168	-103.9498640
PLAN #20H KOP @ 3785.56' MD	3753.84	-376.06	-261.28	678337.14	658817.72	32.8641858	-103.9507194
PLAN #20H LP	4840.00	-387.00	676.50	678326.20	659755.50	32.8641464	-103.9476653
PLAT #20H BHL: 2400' FNL & 50' FEL	4840.00	-365.30	4832.00	678347.90	663911.00	32.8641636	-103.9341316
PLAT #20H LTP: 2400' FNL & 100' FEL	4840.00	-365.50	4782.00	678347.70	663861.00	32.8641635	-103.9342944
FINAL #20H 100' FWL/ LTP @ 9478.33' MD	4843.14	-380.13	4782.01	678333.07	663861.01	32.8641233	-103.9342946
FINAL #20H 50' FWL/ TD @ 9528' MD	4843.20	-379.12	4831.67	678334.08	663910.67	32.8641256	-103.9341328



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

Plan: Plan #4 (#20H/Wellbore #1)

Created By: Matthew May Date: 7:18, June 18 2021

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

District I

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

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

ACKNOWLEDGMENTS

Action 42117

ACKNOWLEDGMENTS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 42117
	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.

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

CONDITIONS

Action 42117

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 42117
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	None	9/24/2021