

Submit a Copy To Appropriate District
Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.	30-015-48121
5. Indicate Type of Lease STATE ☒ FEE ☐	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name	SHORTY 2 STATE COM
8. Well Number	20H
9. OGRID Number	328947
10. Pool name or Wildcat	LOCO HILLS; GLORIETA-YESO
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3752' GR	

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator SPUR ENERGY PARTNERS LLC	
3. Address of Operator 9455 KATY FREEWAY, SUITE 500, HOUSTON, TX 77024	
4. Well Location Unit Letter <u>E</u> : <u>2018</u> feet from the <u>NORTH</u> line and <u>400</u> feet from the <u>WEST</u> line Section <u>2</u> Township <u>17S</u> Range <u>30E</u> NMPM County <u>EDDY</u>	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
DOWNHOLE COMMINGLE ☐	P AND A ☐
CLOSED-LOOP SYSTEM ☐	CASING/CEMENT JOB ☐
OTHER: ☐	OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Spur Energy Partners LLC respectfully requests to amend the permitted FTPs, LTPs and BHL for the mentioned well.

Current:

FTP: 2175' FNL 100' FWL

LTP: 2175' FNL 100' FEL

BHL: 2175' FNL 50' FEL

Please find updated directional plot, plan and C-102 attached for your use.

Proposed:

FTP: 2400' FNL 100' FWL

LTP: 2400' FNL 100' FEL

BHL: 2400' FNL 50' FEL

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Sarah Chapman TITLE REGULATORY DIRECTOR DATE 04/26/2021

Type or print name SARAH CHAPMAN E-mail address: SCHAPMAN@SPUREPLLC.COM PHONE: 832-930-8613

For State Use Only

APPROVED BY: John Garcia TITLE Petroleum Specialist DATE 5/18/2021

Conditions of Approval (if any):

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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 30-015-48121	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 OGRID NO. 328947	⁸ Operator Name SPUR ENERGY PARTNERS LLC.	⁹ Elevation 3752'

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	2	17S	30E		2018	NORTH	400	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
H	2	17S	30E		2400	NORTH	50	EAST	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 LOT 4 LOT 3 LOT 2 LOT 1 2018' 400' S.L. FTP N 89°48'28" E (GRID) 5,081.79' (HORIZ) 2 2400' LTP 50' B.H. 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Sarah Chapman</i> 04/26/2021 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. 01-29-21 Date of Survey Signature and Seal of Professional Surveyor 19680 Certificate Number REV: BH/FTP/LTP MOVE - 4/20/21
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Job No.:

LS21010061R



Spur Energy Partners, LLC

Eddy County, NM (NAD 83 - NME)

SHORTY 2 STATE COM (10-20-70)

#20H

Wellbore #1

Plan: Plan #2

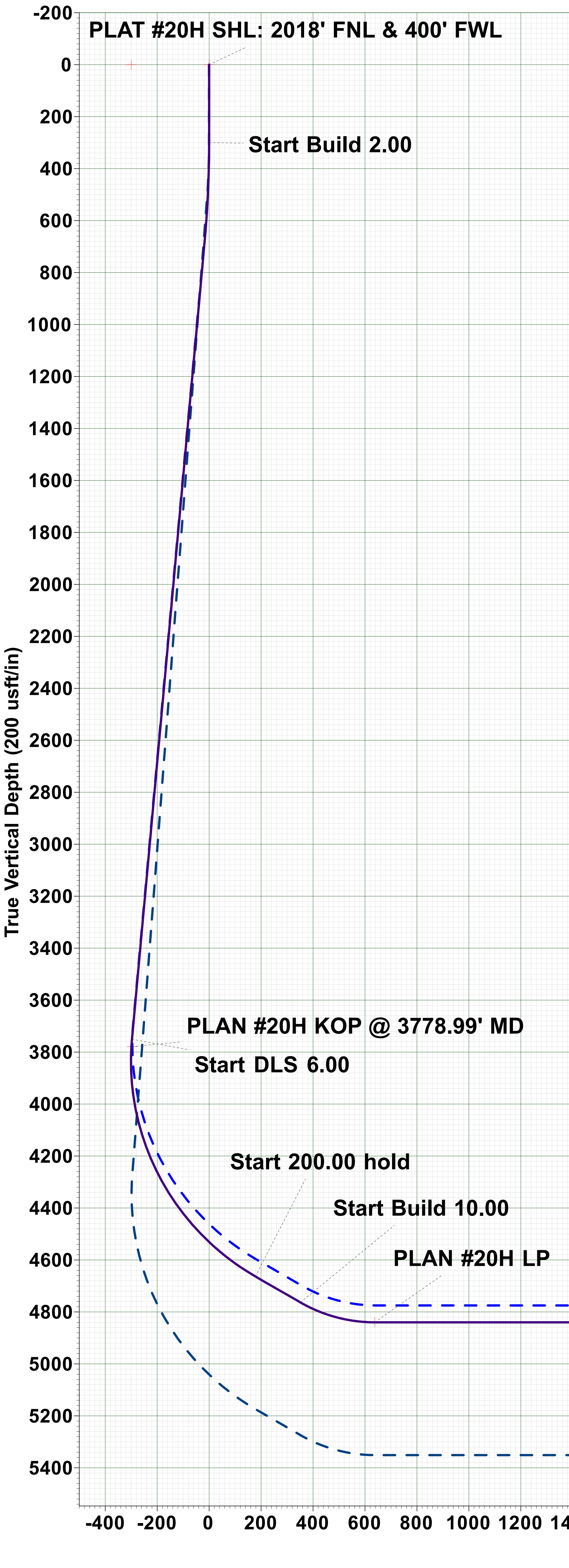
Standard Planning Report

23 April, 2021





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 #2 / 10:21, April 23 2021

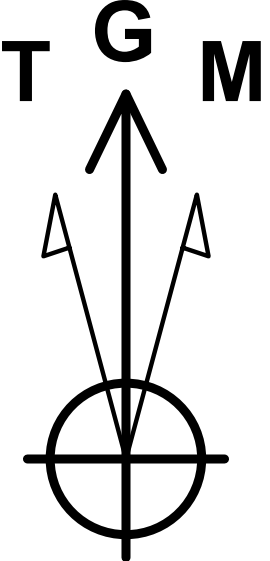


WELL DETAILS: #20H					
RKB = 20' @ 3772.00usft					
3752.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	678713.20	659079.00	32.8652168	-103.9498640

SECTION DETAILS								
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00
3	682.37	7.65	222.53	681.24	-18.78	-17.23	2.00	-17.29
4	3778.99	7.65	222.53	3750.31	-322.45	-295.80	0.00	-296.87
5	4867.85	60.00	89.81	4663.24	-380.73	179.34	6.00	178.08
6	5067.85	60.00	89.81	4763.24	-380.15	352.55	0.00	351.28
7	5367.85	90.00	89.81	4840.00	-379.20	639.02	10.00	637.76
8	9560.85	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

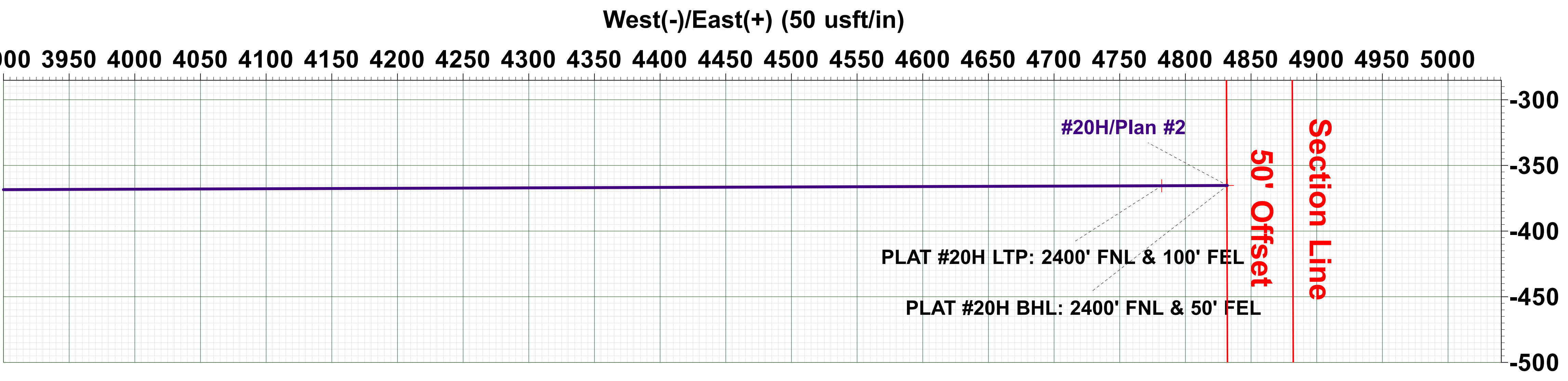
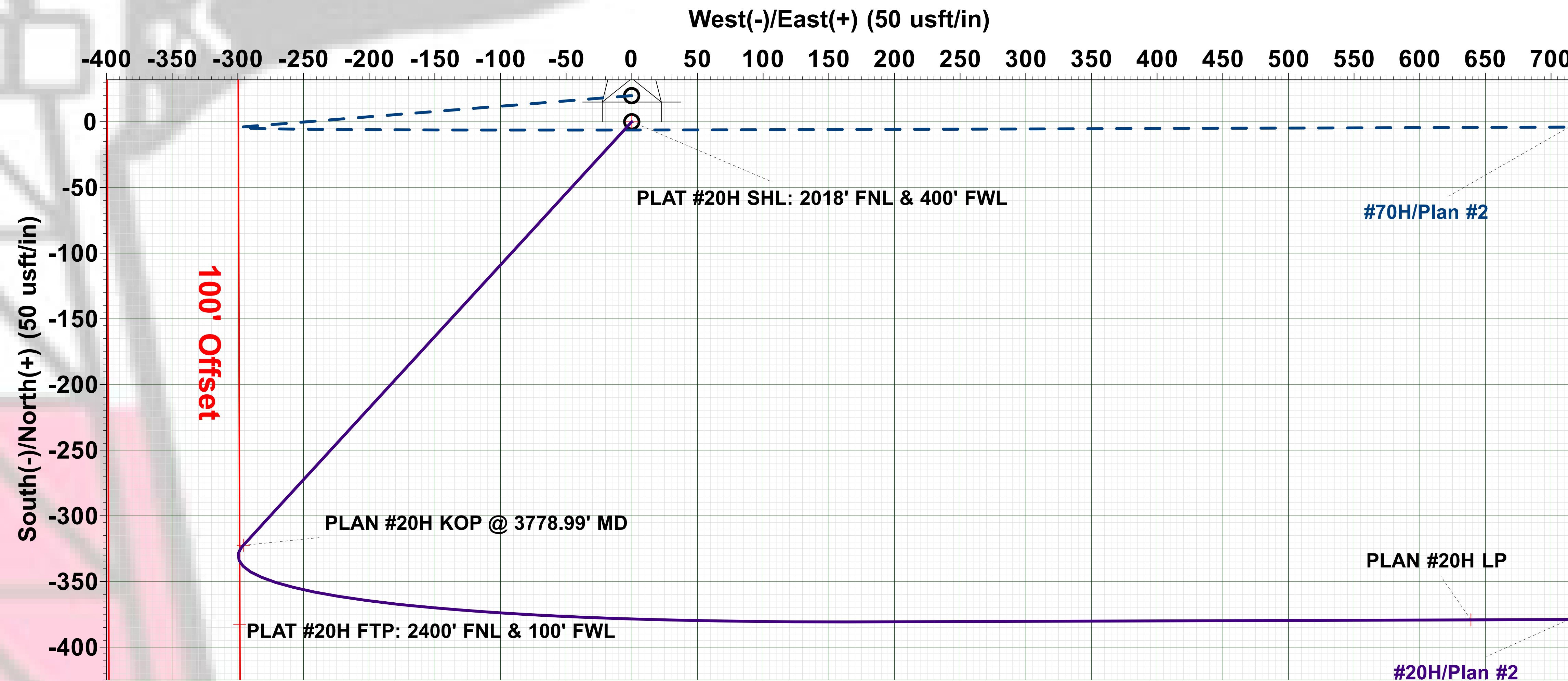
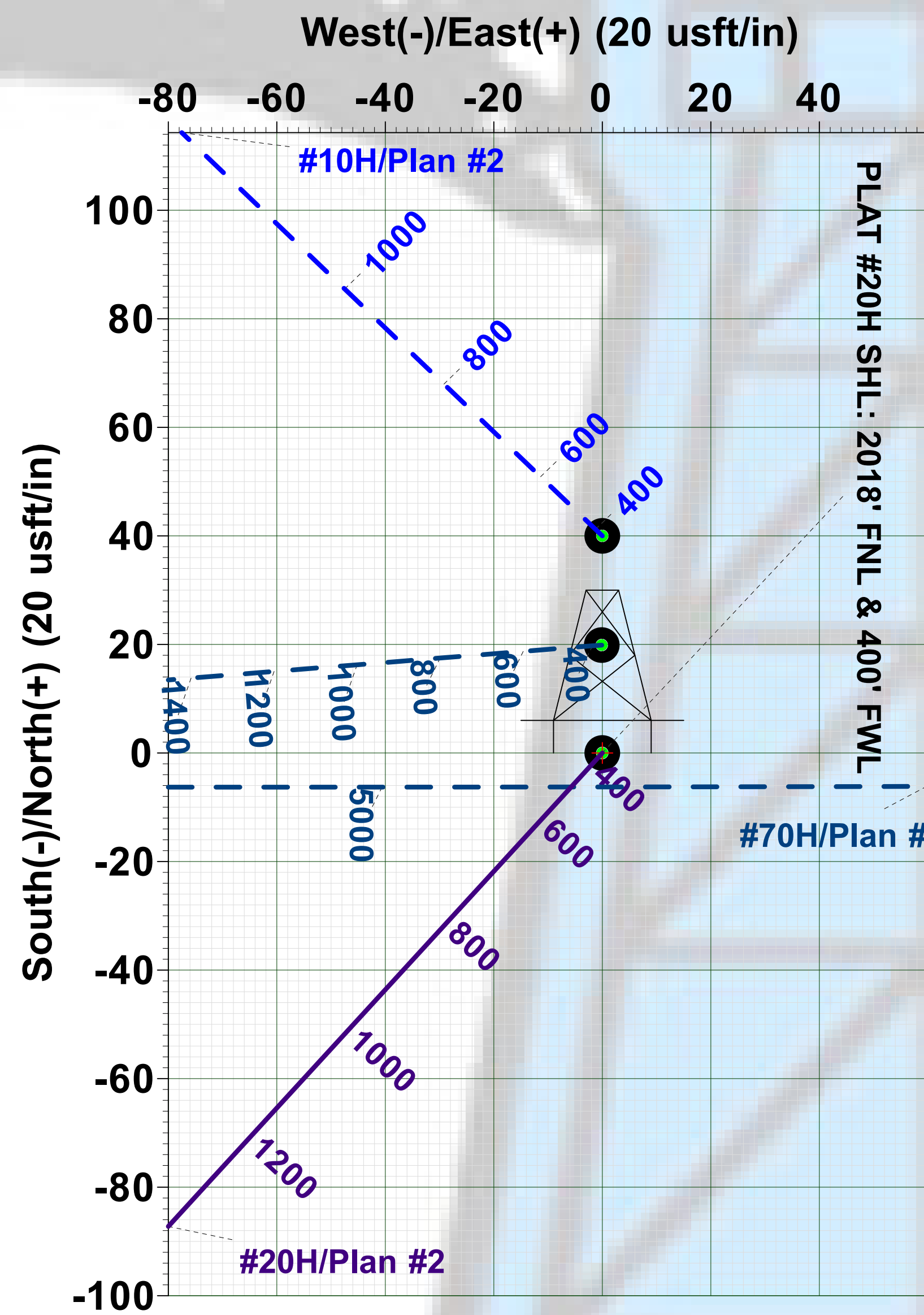
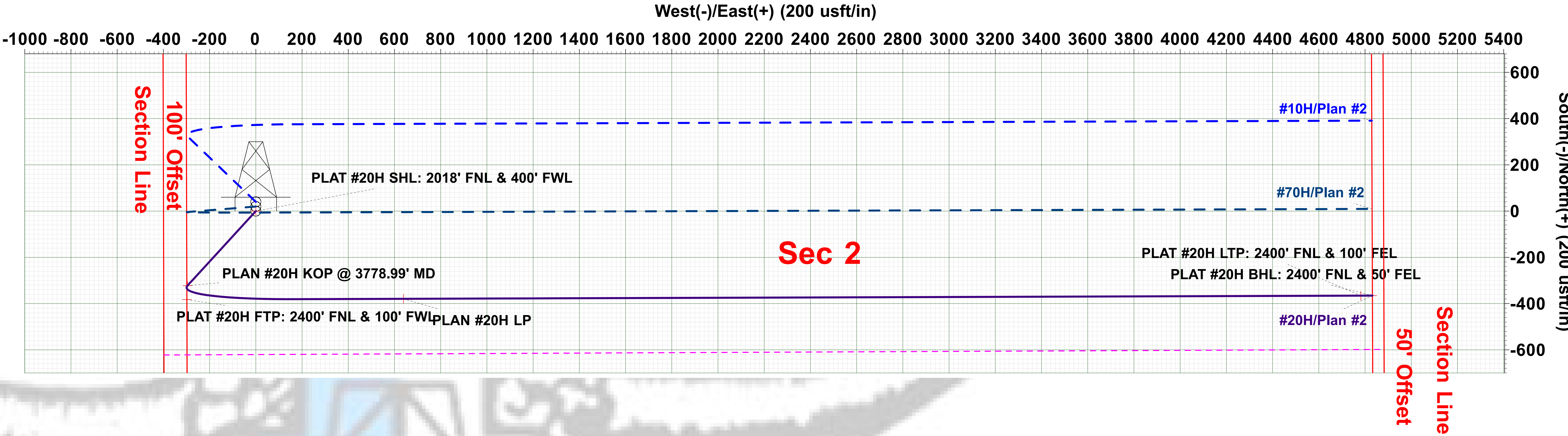


Azimuths to Grid North
True North: -0.21°
Magnetic North: 6.57°

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
PLAT #20H FTP: 2400' FNL & 100' FWL	0.00	-382.50	-298.50	678330.70	658780.50	32.8641685
PLAT #20H SHL: 2018' FNL & 400' FWL	0.00	0.00	0.00	678713.20	659079.00	-103.9508406
PLAN #20H KOP @ 3778.99' MD	3778.99	-322.45	-295.80	678390.75	658783.20	-103.9508311
PLAN #20H LP	4840.00	-379.20	639.02	678334.00	659718.02	-103.9477873
PLAT #20H BHL: 2400' FNL & 50' FEL	4840.00	-365.30	4832.00	678347.90	663911.00	-103.9341316
PLAT #20H LTP: 2400' FNL & 100' FEL	4840.00	-365.50	4782.00	678347.70	663861.00	-103.9342944



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

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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		2 Pool Code		3 Pool Name	
4 Property Code		5 Property Name SHORTY 2 STATE COM			6 Well Number 20H
7 OGRID NO.		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 400	East/West line WEST	County EDDY
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11 Bottom Hole Location If Different From Surface

UL or lot no. H	Section 2	Township 17S	Range 30E	Lot Idn	Feet from the 2400	North/South line NORTH	Feet from the 50	East/West line EAST	County EDDY
12 Dedicated Acres		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 2018' 400' S.L. FTP GEODETIC DATA NAD 83 GRID - NM EAST <u>SURFACE LOCATION</u> N: 678713.2 - E: 659079.0 LAT: 32.8652168° N LONG: 103.9498640° W <u>FIRST TAKE POINT (FTP)</u> 2400' FNL 100' FWL SEC. 2 N: 678330.7 - E: 658780.5 LAT: 32.8641685° N LON: 103.9508407° W <u>LAST TAKE POINT (LTP)</u> 2400' FNL 100' FEL SEC. 2 N: 678347.7 - E: 663861.0 LAT: 32.8641636° N LON: 103.9342945° W <u>BOTTOM HOLE LOCATION</u> N: 678347.9 - E: 663911.0 LAT: 32.8641636° N LONG: 103.9341317° W 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. Signature _____ Date _____ Printed Name _____ 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. 01-29-21 Date of Survey Signature and Seal of Professional Surveyor 19680 Certificate Number REV: BH/FTP/LTP MOVE - 4/20/21	
10 2400' B.H. 50' CORNER DATA NAD 83 GRID - NM EAST A: FOUND BRASS CAP "1916" N: 675454.6 - E: 658689.2 B: FOUND BRASS CAP "1916" N: 678091.2 - E: 658681.2 C: FOUND BRASS CAP "1916" N: 680729.8 - E: 658673.7 D: FOUND BRASS CAP "1916" N: 680738.2 - E: 661314.5 E: FOUND BRASS CAP "1916" N: 680747.5 - E: 663952.3 F: FOUND BRASS CAP "1916" N: 678115.0 - E: 663961.8 G: FOUND 1/2" PIPE N: 675482.0 - E: 663970.7 H: FOUND BRASS CAP "1916" N: 675465.0 - E: 661330.4		11 2400' 50' 19680 PROF. ROBERT M. HOWETT NEW MEXICO 19680 PROFESSIONAL SURVEYOR	

Job No.:

LS21010061R



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #20H
Company:	Spur Energy Partners, LLC	TVD Reference:	RKB = 20' @ 3772.00usft
Project:	Eddy County, NM (NAD 83 - NME)	MD Reference:	RKB = 20' @ 3772.00usft
Site:	SHORTY 2 STATE COM (10-20-70)	North Reference:	Grid
Well:	#20H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #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
From:	Map	Easting:	658,884.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	32.8653287
		Longitude:	-103.9504986
		Grid Convergence:	0.208 °

Well	#20H		
Well Position	+N/-S	-40.00 usft	Northing: 678,713.20 usft
	+E/-W	195.00 usft	Easting: 659,079.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Latitude: 32.8652169
			Longitude: -103.9498640
			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	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	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

Plan Survey Tool Program	Date	4/23/2021		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	9,560.85	Plan #2 (Wellbore #1)	MWD+IGRF
				OWSG MWD + IGRF or WM

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.000	
682.38	7.65	222.53	681.24	-18.78	-17.23	2.00	2.00	0.00	222.532	
3,778.99	7.65	222.53	3,750.31	-322.45	-295.80	0.00	0.00	0.00	0.000	
4,867.85	60.00	89.81	4,663.24	-380.73	179.34	6.00	4.81	-12.19	-135.563	
5,067.85	60.00	89.81	4,763.24	-380.15	352.55	0.00	0.00	0.00	0.000	
5,367.85	90.00	89.81	4,840.00	-379.20	639.02	10.00	10.00	0.00	0.000	
9,560.85	90.00	89.81	4,840.00	-365.30	4,832.00	0.00	0.00	0.00	0.000	PLAT #20H BHL: 2'



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #20H
Company:	Spur Energy Partners, LLC	TVD Reference:	RKB = 20' @ 3772.00usft
Project:	Eddy County, NM (NAD 83 - NME)	MD Reference:	RKB = 20' @ 3772.00usft
Site:	SHORTY 2 STATE COM (10-20-70)	North Reference:	Grid
Well:	#20H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Planned 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
PLAT #20H SHL: 2018' FNL & 400' FWL - PLAT #20H FTP: 2400' FNL & 100' FWL									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	2.00	222.53	399.98	-1.29	-1.18	-1.18	2.00	2.00	0.00
500.00	4.00	222.53	499.84	-5.14	-4.72	-4.73	2.00	2.00	0.00
600.00	6.00	222.53	599.45	-11.56	-10.61	-10.65	2.00	2.00	0.00
682.38	7.65	222.53	681.24	-18.78	-17.23	-17.29	2.00	2.00	0.00
700.00	7.65	222.53	698.71	-20.51	-18.81	-18.88	0.00	0.00	0.00
800.00	7.65	222.53	797.82	-30.31	-27.81	-27.91	0.00	0.00	0.00
900.00	7.65	222.53	896.93	-40.12	-36.80	-36.94	0.00	0.00	0.00
1,000.00	7.65	222.53	996.04	-49.92	-45.80	-45.96	0.00	0.00	0.00
1,100.00	7.65	222.53	1,095.15	-59.73	-54.80	-54.99	0.00	0.00	0.00
1,200.00	7.65	222.53	1,194.26	-69.54	-63.79	-64.02	0.00	0.00	0.00
1,300.00	7.65	222.53	1,293.37	-79.34	-72.79	-73.05	0.00	0.00	0.00
1,400.00	7.65	222.53	1,392.48	-89.15	-81.78	-82.08	0.00	0.00	0.00
1,500.00	7.65	222.53	1,491.59	-98.96	-90.78	-91.11	0.00	0.00	0.00
1,600.00	7.65	222.53	1,590.70	-108.76	-99.78	-100.14	0.00	0.00	0.00
1,700.00	7.65	222.53	1,689.81	-118.57	-108.77	-109.16	0.00	0.00	0.00
1,800.00	7.65	222.53	1,788.92	-128.38	-117.77	-118.19	0.00	0.00	0.00
1,900.00	7.65	222.53	1,888.04	-138.18	-126.76	-127.22	0.00	0.00	0.00
2,000.00	7.65	222.53	1,987.15	-147.99	-135.76	-136.25	0.00	0.00	0.00
2,100.00	7.65	222.53	2,086.26	-157.80	-144.76	-145.28	0.00	0.00	0.00
2,200.00	7.65	222.53	2,185.37	-167.60	-153.75	-154.31	0.00	0.00	0.00
2,300.00	7.65	222.53	2,284.48	-177.41	-162.75	-163.34	0.00	0.00	0.00
2,400.00	7.65	222.53	2,383.59	-187.22	-171.75	-172.36	0.00	0.00	0.00
2,500.00	7.65	222.53	2,482.70	-197.02	-180.74	-181.39	0.00	0.00	0.00
2,600.00	7.65	222.53	2,581.81	-206.83	-189.74	-190.42	0.00	0.00	0.00
2,700.00	7.65	222.53	2,680.92	-216.64	-198.73	-199.45	0.00	0.00	0.00
2,800.00	7.65	222.53	2,780.03	-226.44	-207.73	-208.48	0.00	0.00	0.00
2,900.00	7.65	222.53	2,879.14	-236.25	-216.73	-217.51	0.00	0.00	0.00
3,000.00	7.65	222.53	2,978.25	-246.06	-225.72	-226.54	0.00	0.00	0.00
3,100.00	7.65	222.53	3,077.36	-255.86	-234.72	-235.57	0.00	0.00	0.00
3,200.00	7.65	222.53	3,176.47	-265.67	-243.71	-244.59	0.00	0.00	0.00
3,300.00	7.65	222.53	3,275.58	-275.47	-252.71	-253.62	0.00	0.00	0.00
3,400.00	7.65	222.53	3,374.69	-285.28	-261.71	-262.65	0.00	0.00	0.00
3,500.00	7.65	222.53	3,473.80	-295.09	-270.70	-271.68	0.00	0.00	0.00
3,600.00	7.65	222.53	3,572.91	-304.89	-279.70	-280.71	0.00	0.00	0.00
3,700.00	7.65	222.53	3,672.03	-314.70	-288.69	-289.74	0.00	0.00	0.00
3,778.99	7.65	222.53	3,750.31	-322.45	-295.80	-296.87	0.00	0.00	0.00
3,800.00	6.80	215.06	3,771.16	-324.50	-297.46	-298.54	6.00	-4.01	-35.55
3,807.53	6.54	211.94	3,778.63	-325.22	-297.94	-299.02	6.00	-3.58	-41.48
PLAN #20H KOP @ 3778.99' MD									
3,850.00	5.48	189.54	3,820.88	-329.28	-299.56	-300.65	6.00	-2.48	-52.73
3,900.00	5.64	158.22	3,870.65	-333.91	-299.04	-300.15	6.00	0.31	-62.64
3,950.00	7.17	134.78	3,920.35	-338.39	-295.92	-297.04	6.00	3.07	-46.89
4,000.00	9.43	120.99	3,969.83	-342.70	-290.19	-291.32	6.00	4.53	-27.58
4,050.00	12.02	112.78	4,018.95	-346.83	-281.87	-283.02	6.00	5.18	-16.42
4,100.00	14.77	107.51	4,067.59	-350.76	-270.99	-272.15	6.00	5.49	-10.54
4,150.00	17.59	103.88	4,115.60	-354.49	-257.58	-258.75	6.00	5.65	-7.26
4,200.00	20.47	101.23	4,162.87	-358.01	-241.66	-242.85	6.00	5.75	-5.29
4,250.00	23.37	99.22	4,209.25	-361.30	-223.30	-224.49	6.00	5.81	-4.03



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #20H
Company:	Spur Energy Partners, LLC	TVD Reference:	RKB = 20' @ 3772.00usft
Project:	Eddy County, NM (NAD 83 - NME)	MD Reference:	RKB = 20' @ 3772.00usft
Site:	SHORTY 2 STATE COM (10-20-70)	North Reference:	Grid
Well:	#20H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Planned 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)
4,300.00	26.30	97.63	4,254.62	-364.36	-202.53	-203.73	6.00	5.85	-3.18
4,350.00	29.23	96.34	4,298.86	-367.18	-179.41	-180.63	6.00	5.88	-2.58
4,400.00	32.18	95.26	4,341.84	-369.75	-154.01	-155.23	6.00	5.90	-2.15
4,450.00	35.14	94.35	4,383.46	-372.06	-126.39	-127.63	6.00	5.91	-1.82
4,500.00	38.10	93.57	4,423.58	-374.12	-96.64	-97.88	6.00	5.93	-1.57
4,550.00	41.07	92.88	4,462.11	-375.90	-64.83	-66.08	6.00	5.94	-1.38
4,600.00	44.04	92.72	4,498.93	-377.41	-31.05	-32.30	6.00	5.94	-1.22
4,650.00	47.02	91.77	4,533.96	-378.65	4.60	3.35	6.00	5.95	-1.10
4,700.00	49.99	91.22	4,567.08	-379.60	42.04	40.78	6.00	5.95	-1.00
4,750.00	52.97	90.76	4,598.21	-380.27	81.15	79.89	6.00	5.96	-0.91
4,800.00	55.95	90.34	4,627.27	-380.66	121.83	120.57	6.00	5.96	-0.84
4,850.00	58.94	89.94	4,654.17	-380.76	163.97	162.71	6.00	5.96	-0.79
4,867.85	60.00	89.81	4,663.24	-380.73	179.34	178.08	6.00	5.96	-0.75
4,900.00	60.00	89.81	4,679.32	-380.64	207.19	205.92	0.00	0.00	0.00
5,000.00	60.00	89.81	4,729.32	-380.35	293.79	292.53	0.00	0.00	0.00
5,067.85	60.00	89.81	4,763.24	-380.15	352.55	351.28	0.00	0.00	0.00
5,100.00	63.22	89.81	4,778.53	-380.06	380.83	379.57	10.00	10.00	0.00
5,150.00	68.22	89.81	4,799.08	-379.91	426.39	425.13	10.00	10.00	0.00
5,200.00	73.22	89.81	4,815.59	-379.75	473.57	472.31	10.00	10.00	0.00
5,250.00	78.22	89.81	4,827.92	-379.59	522.01	520.75	10.00	10.00	0.00
5,300.00	83.22	89.81	4,835.99	-379.43	571.34	570.07	10.00	10.00	0.00
5,350.00	88.22	89.81	4,839.72	-379.26	621.18	619.92	10.00	10.00	0.00
5,367.84	90.00	89.81	4,840.00	-379.20	639.02	637.76	10.00	10.00	0.00
PLAN #20H LP									
5,400.00	90.00	89.81	4,840.00	-379.10	671.18	669.92	0.00	0.00	0.00
5,500.00	90.00	89.81	4,840.00	-378.77	771.18	769.92	0.00	0.00	0.00
5,600.00	90.00	89.81	4,840.00	-378.43	871.18	869.92	0.00	0.00	0.00
5,700.00	90.00	89.81	4,840.00	-378.10	971.18	969.92	0.00	0.00	0.00
5,800.00	90.00	89.81	4,840.00	-377.77	1,071.17	1,069.92	0.00	0.00	0.00
5,900.00	90.00	89.81	4,840.00	-377.44	1,171.17	1,169.92	0.00	0.00	0.00
6,000.00	90.00	89.81	4,840.00	-377.11	1,271.17	1,269.92	0.00	0.00	0.00
6,100.00	90.00	89.81	4,840.00	-376.78	1,371.17	1,369.92	0.00	0.00	0.00
6,200.00	90.00	89.81	4,840.00	-376.44	1,471.17	1,469.92	0.00	0.00	0.00
6,300.00	90.00	89.81	4,840.00	-376.11	1,571.17	1,569.92	0.00	0.00	0.00
6,400.00	90.00	89.81	4,840.00	-375.78	1,671.17	1,669.92	0.00	0.00	0.00
6,500.00	90.00	89.81	4,840.00	-375.45	1,771.17	1,769.92	0.00	0.00	0.00
6,600.00	90.00	89.81	4,840.00	-375.12	1,871.17	1,869.92	0.00	0.00	0.00
6,700.00	90.00	89.81	4,840.00	-374.79	1,971.17	1,969.92	0.00	0.00	0.00
6,800.00	90.00	89.81	4,840.00	-374.46	2,071.17	2,069.92	0.00	0.00	0.00
6,900.00	90.00	89.81	4,840.00	-374.12	2,171.17	2,169.92	0.00	0.00	0.00
7,000.00	90.00	89.81	4,840.00	-373.79	2,271.17	2,269.92	0.00	0.00	0.00
7,100.00	90.00	89.81	4,840.00	-373.46	2,371.17	2,369.92	0.00	0.00	0.00
7,200.00	90.00	89.81	4,840.00	-373.13	2,471.17	2,469.92	0.00	0.00	0.00
7,300.00	90.00	89.81	4,840.00	-372.80	2,571.17	2,569.92	0.00	0.00	0.00
7,400.00	90.00	89.81	4,840.00	-372.47	2,671.17	2,669.92	0.00	0.00	0.00
7,500.00	90.00	89.81	4,840.00	-372.13	2,771.17	2,769.92	0.00	0.00	0.00
7,600.00	90.00	89.81	4,840.00	-371.80	2,871.16	2,869.92	0.00	0.00	0.00
7,700.00	90.00	89.81	4,840.00	-371.47	2,971.16	2,969.92	0.00	0.00	0.00
7,800.00	90.00	89.81	4,840.00	-371.14	3,071.16	3,069.92	0.00	0.00	0.00
7,900.00	90.00	89.81	4,840.00	-370.81	3,171.16	3,169.92	0.00	0.00	0.00
8,000.00	90.00	89.81	4,840.00	-370.48	3,271.16	3,269.92	0.00	0.00	0.00
8,100.00	90.00	89.81	4,840.00	-370.14	3,371.16	3,369.92	0.00	0.00	0.00
8,200.00	90.00	89.81	4,840.00	-369.81	3,471.16	3,469.92	0.00	0.00	0.00
8,300.00	90.00	89.81	4,840.00	-369.48	3,571.16	3,569.92	0.00	0.00	0.00



Planning Report



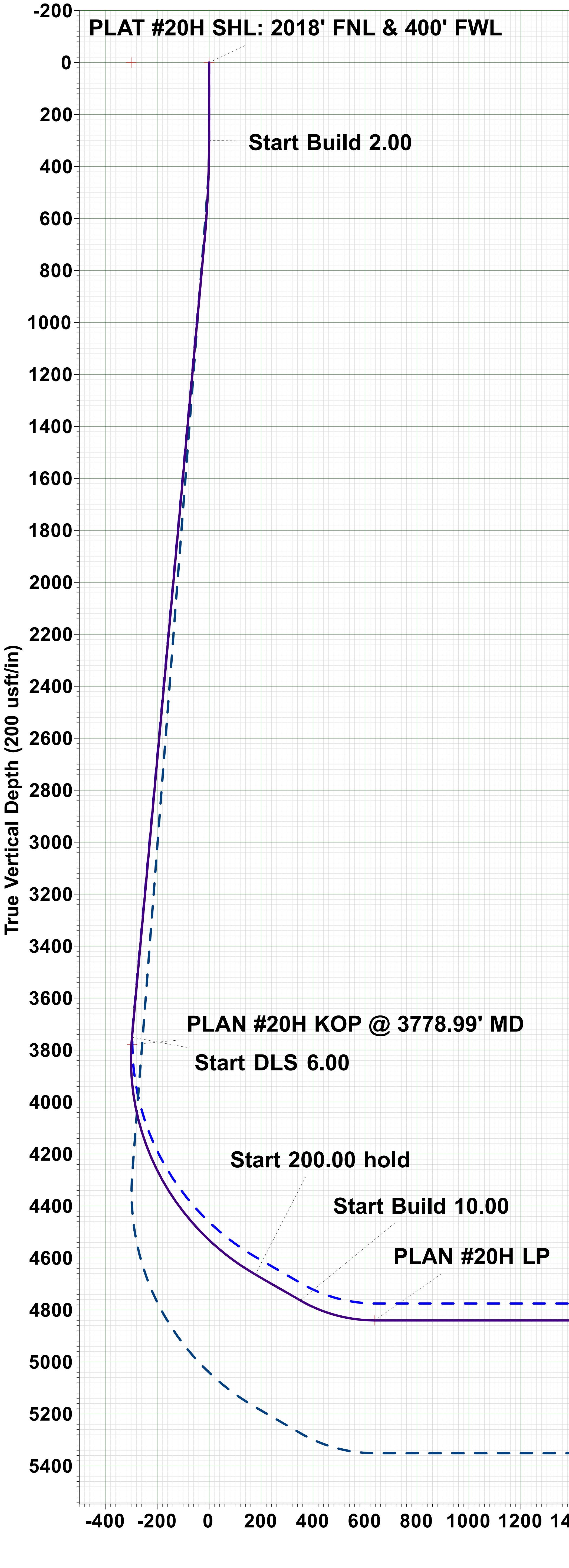
Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #20H
Company:	Spur Energy Partners, LLC	TVD Reference:	RKB = 20' @ 3772.00usft
Project:	Eddy County, NM (NAD 83 - NME)	MD Reference:	RKB = 20' @ 3772.00usft
Site:	SHORTY 2 STATE COM (10-20-70)	North Reference:	Grid
Well:	#20H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Planned 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)	
8,400.00	90.00	89.81	4,840.00	-369.15	3,671.16	3,669.92	0.00	0.00	0.00	
8,500.00	90.00	89.81	4,840.00	-368.82	3,771.16	3,769.92	0.00	0.00	0.00	
8,600.00	90.00	89.81	4,840.00	-368.49	3,871.16	3,869.92	0.00	0.00	0.00	
8,700.00	90.00	89.81	4,840.00	-368.15	3,971.16	3,969.92	0.00	0.00	0.00	
8,800.00	90.00	89.81	4,840.00	-367.82	4,071.16	4,069.92	0.00	0.00	0.00	
8,900.00	90.00	89.81	4,840.00	-367.49	4,171.16	4,169.92	0.00	0.00	0.00	
9,000.00	90.00	89.81	4,840.00	-367.16	4,271.16	4,269.92	0.00	0.00	0.00	
9,100.00	90.00	89.81	4,840.00	-366.83	4,371.16	4,369.92	0.00	0.00	0.00	
9,200.00	90.00	89.81	4,840.00	-366.50	4,471.16	4,469.92	0.00	0.00	0.00	
9,300.00	90.00	89.81	4,840.00	-366.17	4,571.16	4,569.92	0.00	0.00	0.00	
9,400.00	90.00	89.81	4,840.00	-365.83	4,671.15	4,669.92	0.00	0.00	0.00	
9,500.00	90.00	89.81	4,840.00	-365.50	4,771.15	4,769.92	0.00	0.00	0.00	
PLAT #20H LTP: 2400' FNL & 100' FEL										
9,560.85	90.00	89.81	4,840.00	-365.30	4,832.00	4,830.76	0.00	0.00	0.00	
PLAT #20H BHL: 2400' FNL & 50' FEL										

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
PLAT #20H SHL: 201i - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	678,713.20	659,079.00	32.8652169	-103.9498640	
PLAT #20H FTP: 240i - plan misses target center by 485.19usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.01	0.00	-382.50	-298.50	678,330.70	658,780.50	32.8641685	-103.9508406	
PLAN #20H KOP @ 3 - plan misses target center by 3.52usft at 3807.48usft MD (3778.58 TVD, -325.22 N, -297.94 E) - Point	0.00	0.00	3,778.99	-322.45	-295.80	678,390.75	658,783.20	32.8643335	-103.9508311	
PLAN #20H LP - plan hits target center - Point	0.00	0.00	4,840.00	-379.20	639.02	678,334.00	659,718.02	32.8641682	-103.9477873	
PLAT #20H LTP: 240i - plan misses target center by 10.85usft at 9500.00usft MD (4840.00 TVD, -365.50 N, 4771.15 E) - Point	0.00	0.00	4,840.00	-365.50	4,782.00	678,347.70	663,861.00	32.8641635	-103.9342944	
PLAT #20H BHL: 240i - plan hits target center - Point	0.00	0.00	4,840.00	-365.30	4,832.00	678,347.90	663,911.00	32.8641636	-103.9341316	



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 #2 / 10:21, April 23 2021

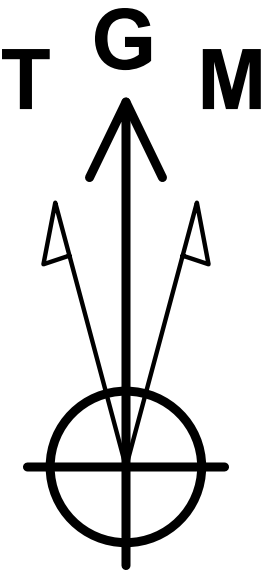


WELL DETAILS: #20H					
RKB = 20' @ 3772.00usft					
3752.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	678713.20	659079.00	32.8652168	-103.9498640

SECTION DETAILS								
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00
3	682.37	7.65	222.53	681.24	-18.78	-17.23	2.00	-17.29
4	3778.99	7.65	222.53	3750.31	-322.45	-295.80	0.00	-296.87
5	4867.85	60.00	89.81	4663.24	-380.73	179.34	6.00	178.08
6	5067.85	60.00	89.81	4763.24	-380.15	352.55	0.00	351.28
7	5367.85	90.00	89.81	4840.00	-379.20	639.02	10.00	637.76
8	9560.85	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

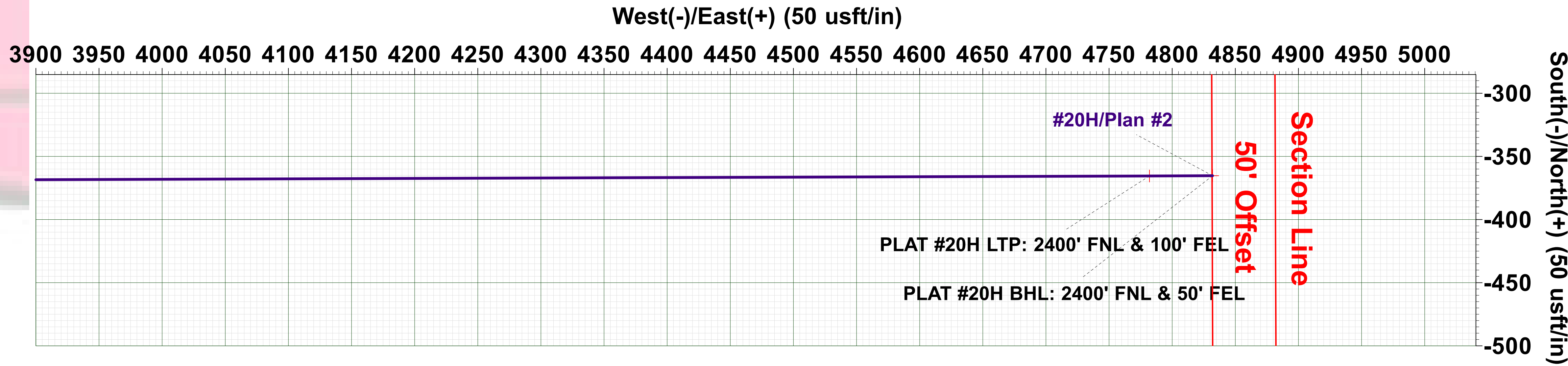
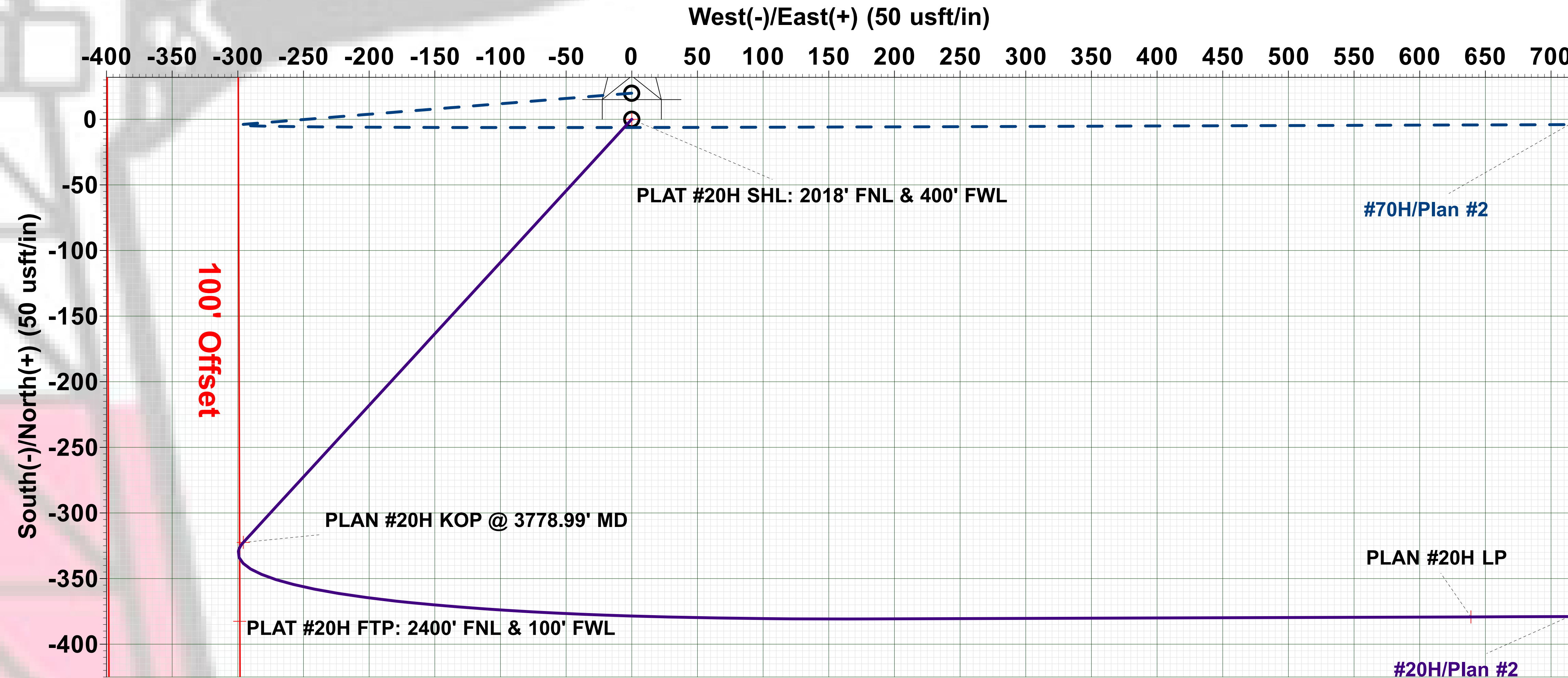
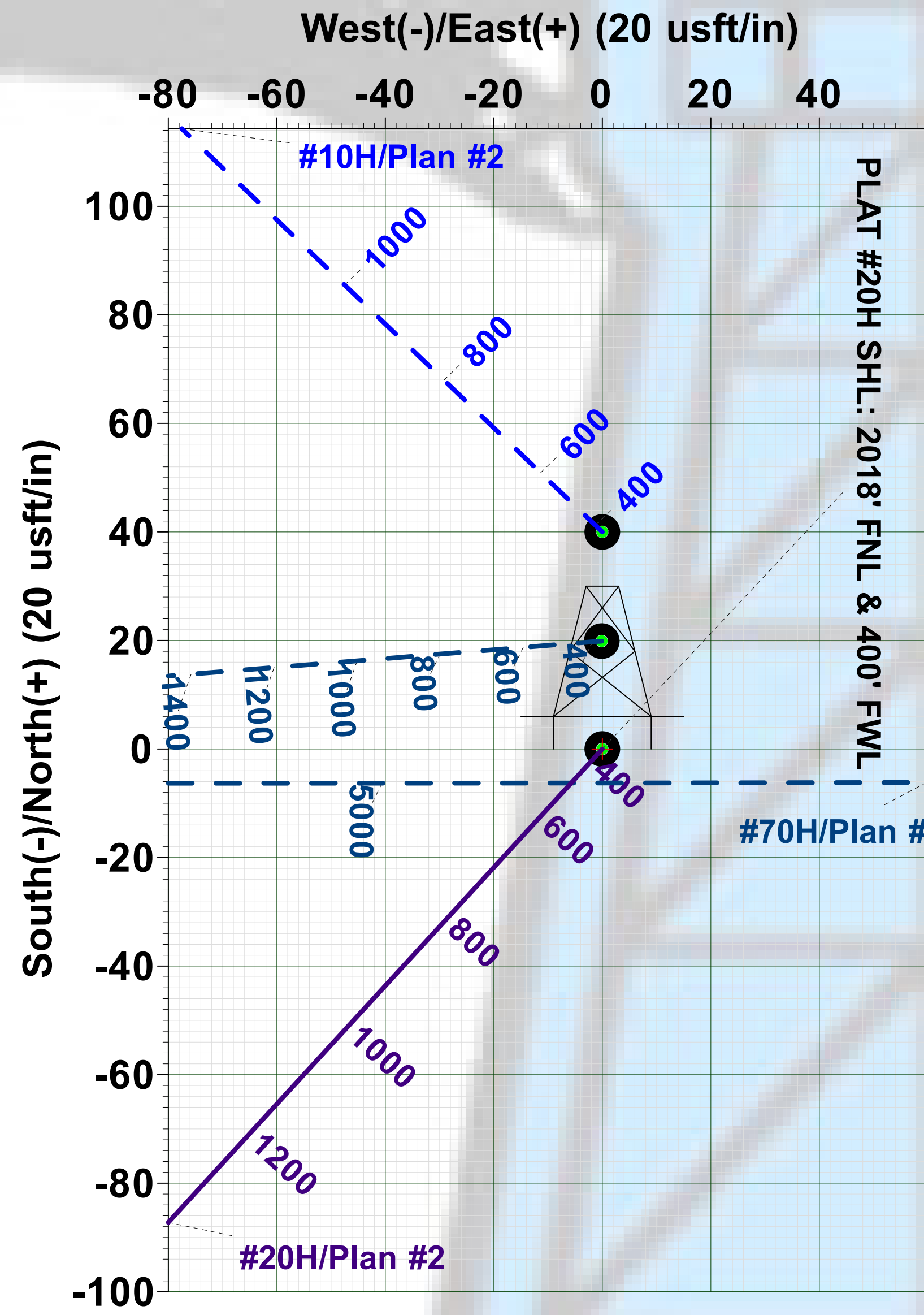
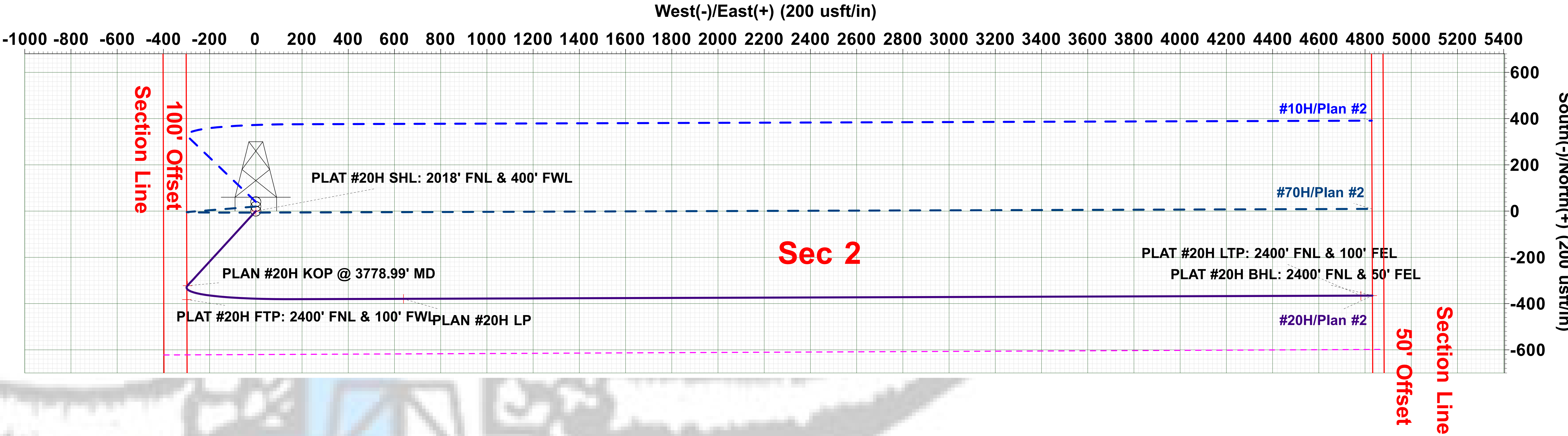


Azimuths to Grid North
True North: -0.21°
Magnetic North: 6.57°

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
PLAT #20H FTP: 2400' FNL & 100' FWL	0.00	-382.50	-298.50	678330.70	658780.50	32.8641685
PLAT #20H SHL: 2018' FNL & 400' FWL	0.00	0.00	0.00	678713.20	659079.00	-103.9508406
PLAN #20H KOP @ 3778.99' MD	3778.99	-322.45	-295.80	678390.75	658783.20	-103.9508311
PLAN #20H LP	4840.00	-379.20	639.02	678334.00	659718.02	-103.9477873
PLAT #20H BHL: 2400' FNL & 50' FEL	4840.00	-365.30	4832.00	678347.90	663911.00	-103.9341316
PLAT #20H LTP: 2400' FNL & 100' FEL	4840.00	-365.50	4782.00	678347.70	663861.00	-103.9342944



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

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

COMMENTS

Action 25510

COMMENTS

Operator:		OGRID:	Action Number:	Action Type:
SPUR ENERGY PARTNERS LLC	9655 Katy Freeway	328947	25510	C-103A
Suite 500	Houston, TX77024			

Created By	Comment	Comment Date
kpickford	KP GEO Review 4/27/2021	04/27/2021

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

CONDITIONS

Action 25510

CONDITIONS OF APPROVAL

Operator: SPUR ENERGY PARTNERS LLC Suite 500 Houston, TX77024		9655 Katy Freeway	OGRID: 328947	Action Number: 25510	Action Type: C-103A
OCD Reviewer	Condition				
kpickford	NSL Will require an administrative order for non-standard location prior to placing the well on production.				