

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.5. Lease Serial No.
Multiple--See Attached

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
Multiple--See Attached8. Well Name and No.
Multiple--See Attached9. API Well No.
Multiple--See Attached10. Field and Pool or Exploratory Area
N SEVEN RIVERS-GLOP-YESO
N SEVEN RIVERS-WOLFCAMP

11. County or Parish, State

EDDY COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

SPUR ENERGY PARTNERS LLC

Contact: SARAH E CHAPMAN

E-Mail: SCHAPMAN@SPUREPLLC.COM

3a. Address

920 MEMORIAL CITY WAY STE 1000
HOUSTON, TX 77024

3b. Phone No. (include area code)

Ph: 832-930-8613

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Multiple--See Attached

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Spur Energy Partners LLC respectfully requests to amend the approved drill plans with the updated casing and cementing design for the following wells:

30-015-46216 Osage Boyd 15 Federal Com 9H NMNM012833
 30-015-45955 Osage Boyd 15 Federal Com 10H NMNM012833
 30-015-46070 Osage Boyd 15 Federal Com 11H NMNM012833
 30-015-46138 Osage Boyd 15 Federal Com 12H NMNM012833
 30-015-46071 Osage Boyd 15 Federal Com 13H NMNM012833
 30-015-46072 Osage Boyd 15 Federal Com 14H NMNM060341

I have attached updated drill plans for your use.

Please let me know if you have any questions.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #516561 verified by the BLM Well Information System
For SPUR ENERGY PARTNERS LLC, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 05/27/2020 (20PP2994SE)

Name (Printed/Typed) SARAH E CHAPMAN

Title REGULATORY DIRECTOR

Signature (Electronic Submission)

Date 05/26/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By DYLAN ROSSMANGO

Title PETROLEUM ENGINEER

Date 06/03/2020

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Carlsbad

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Accepted - KMS NMOC

Additional data for EC transaction #516561 that would not fit on the form

5. Lease Serial No., continued

NMNM12833
NMNM60341

Wells/Facilities, continued

Agreement	Lease	Well/Fac Name, Number	API Number	Location
NMNM12833	NMNM12833	OSAGE BOYD 15 FEDERAL COM 3040	15-46216-00-X1	Sec 22 T19S R25E NWNW 649FNL 681FWL 32.652008 N Lat, 104.478966 W Lon
NMNM12833	NMNM12833	OSAGE BOYD 15 FEDERAL COM 3040	15-45955-00-X1	Sec 22 T19S R25E NWNW 649FNL 701FWL 32.652008 N Lat, 104.478905 W Lon
NMNM12833	NMNM12833	OSAGE BOYD 15 FEDERAL COM 3040	15-46070-00-X1	Sec 22 T19S R25E NWNW 649FNL 721FWL 32.652008 N Lat, 104.478836 W Lon
NMNM12833	NMNM12833	OSAGE BOYD 15 FEDERAL COM 3040	15-46138-00-X1	Sec 22 T19S R25E NWNW 649FNL 1160FWL 32.652008 N Lat, 104.477409 W Lon
NMNM12833	NMNM12833	OSAGE BOYD 15 FEDERAL COM 3040	15-46071-00-X1	Sec 22 T19S R25E NWNW 649FNL 1180FWL 32.652008 N Lat, 104.477348 W Lon
NMNM60341	NMNM60341	OSAGE BOYD 15 FEDERAL COM 3040	15-46072-00-X1	Sec 22 T19S R25E NWNW 649FNL 1200FWL 32.652008 N Lat, 104.477280 W Lon

Revisions to Operator-Submitted EC Data for Sundry Notice #516561

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM12833	NMNM12833 NMNM60341
Agreement:		
Operator:	SPUR ENERGY PARTNERS LLC 920 MEMORIAL CITY WAY SUITE 1000 HOUSTON, TX 77024 Ph: 832-930-8502	SPUR ENERGY PARTNERS LLC 920 MEMORIAL CITY WAY STE 1000 HOUSTON, TX 77024 Ph: 281.795.2286
Admin Contact:	SARAH E CHAPMAN REGULATORY DIRECTOR E-Mail: SCHAPMAN@SPUREPLLC.COM Cell: 281-642-5503 Ph: 832-930-8613	SARAH E CHAPMAN REGULATORY DIRECTOR E-Mail: SCHAPMAN@SPUREPLLC.COM Cell: 281-642-5503 Ph: 832-930-8613
Tech Contact:	SARAH E CHAPMAN REGULATORY DIRECTOR E-Mail: SCHAPMAN@SPUREPLLC.COM Cell: 281-642-5503 Ph: 832-930-8613	SARAH E CHAPMAN REGULATORY DIRECTOR E-Mail: SCHAPMAN@SPUREPLLC.COM Cell: 281-642-5503 Ph: 832-930-8613
Location:		
State:	NM	NM
County:	EDDY	EDDY
Field/Pool:	N. SEVEN RIVERS; GLORIETA	N SEVEN RIVERS-GLOR-YESO N SEVEN RIVERS-WOLFCAMP
Well/Facility:	OSAGE BOYD 15 FED COM 9H Sec 22 T19S R25E Mer NMP NWNW 649FNL 681FWL 32.652008 N Lat, 104.478969 W Lon	OSAGE BOYD 15 FEDERAL COM 9H Sec 22 T19S R25E NWNW 649FNL 681FWL 32.652008 N Lat, 104.478966 W Lon OSAGE BOYD 15 FEDERAL COM 10H Sec 22 T19S R25E NWNW 649FNL 701FWL 32.652008 N Lat, 104.478905 W Lon OSAGE BOYD 15 FEDERAL COM 11H Sec 22 T19S R25E NWNW 649FNL 721FWL 32.652008 N Lat, 104.478836 W Lon OSAGE BOYD 15 FEDERAL COM 12H Sec 22 T19S R25E NWNW 649FNL 1160FWL 32.652008 N Lat, 104.477409 W Lon OSAGE BOYD 15 FEDERAL COM 13H Sec 22 T19S R25E NWNW 649FNL 1180FWL 32.652008 N Lat, 104.477348 W Lon OSAGE BOYD 15 FEDERAL COM 14H Sec 22 T19S R25E NWNW 649FNL 1200FWL 32.652008 N Lat, 104.477280 W Lon

Spur Energy Partners LLC – Osage Boyd 15 Federal Com 9H – 14H Bulk Sundry

Spur requests a sundry for the following changes in regards to the wells listed below:

API #	Well Name	Lease Serial #
30-015-46216	Osage Boyd 15 Federal Com 9H	NMNM012833
30-015-45955	Osage Boyd 15 Federal Com 10H	NMNM012833
30-015-46070	Osage Boyd 15 Federal Com 11H	NMNM012833
30-015-46138	Osage Boyd 15 Federal Com 12H	NMNM012833
30-015-46071	Osage Boyd 15 Federal Com 13H	NMNM012833
30-015-46072	Osage Boyd 15 Federal Com 14H	NMNM060341

1. Casing Program

All wells require changing the connection of the surface casing from LTC to BTC and the production casing to the specifications below:

Hole Size (in)	Casing Interval		Csg. Size (in)	Weight (lbs)	Grade	Conn.	SF	SF Burst	Body SF	Joint SF
	From (ft)	To (ft)					Collapse		Tension	Tension
12.25	0	1279	9.625	36	J-55	BTC	1.125	1.2	1.4	1.4
8.75	0	3886	7	32	L-80	BTC	1.125	1.2	1.4	1.4
8.75	3886	9228	5.5	20	L-80	BK-HT	1.125	1.2	1.4	1.4
							SF Values will meet or Exceed			

2. Cementing Program

The surface and production jobs will be slightly modified to match the following:

Casing String	# Sks	Wt. (lb/gal)	Yld (ft ³ /sack)	H ₂ O (gal/sk)	500# Comp. Strength (hours)	Slurry Description
Surface (Lead)	380	12.8	1.65	8.19	10:25	35/65 Poz C
Surface (Tail)	220	14.8	1.33	6.35	4:04	Class C Cement, Accelerator
Production (Lead)	611	12.8	1.66	7.86	8:08	35/65 Poz C
Production (Tail)	1067	14.8	1.33	6.29	7:47	Class C Cement

Casing String	Top (ft)	Bottom (ft)	% Excess
Surface (Lead)	0	950	100%
Surface (Tail)	950	1279	165%
Production (Lead)	0	5500	0%
Production (Tail)	5500	9228	50%



Company: Spur Energy Partners, LLC
Project: Eddy County, NM (NAD 83 - NME)
Site: Osage Boyd 15 Federal Com
Well: #9H
Wellbore: OH
Rig: Akita 57
Design: Plan #1 / 11:56, March 03 2020

WELL DETAILS: #9H

RKB=20' @ 3495.00usft (Akita 57)
3475.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	600962.30	496514.50	32.652008	-104.478969

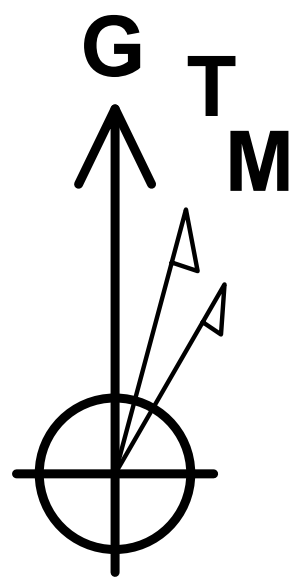
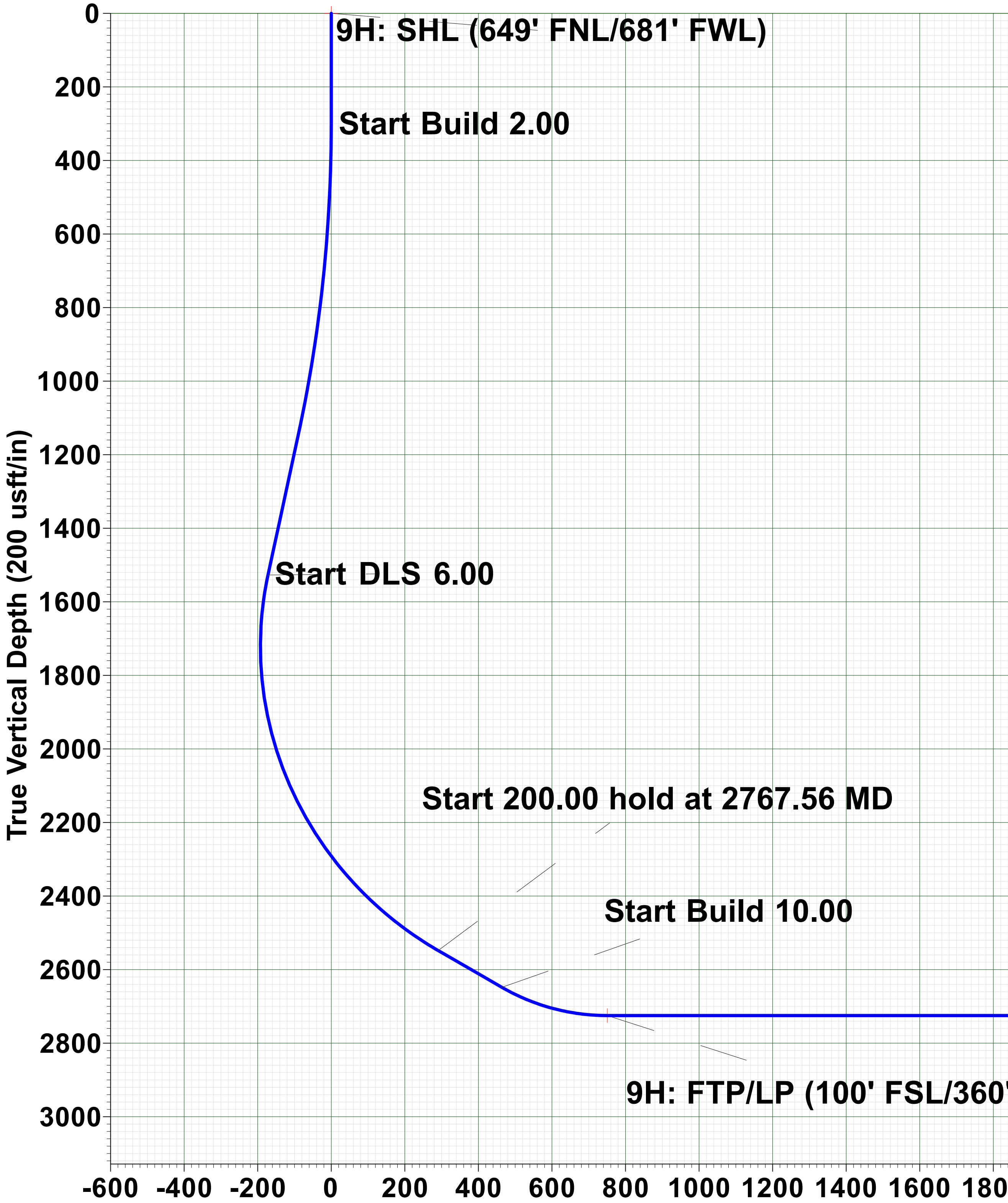
SECTION DETAILS

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	1155.47	17.11	225.46	1142.81	-88.93	-90.36	2.00	-88.92
4	1557.70	17.11	225.46	1527.24	-171.94	-174.70	0.00	-171.91
5	2767.56	60.00	359.99	2548.24	290.72	-321.84	6.00	290.77
6	2967.56	60.00	359.99	2648.24	463.92	-321.86	0.00	463.98
7	3267.56	90.00	359.99	2725.00	750.40	-321.90	10.00	750.46
8	8318.76	90.00	359.99	2725.00	5801.60	-322.59	0.00	5801.66
9	8398.86	90.00	359.99	2725.00	5881.70	-322.60	0.00	5881.76

9H: FTP/LP (100' FSL/360' FWL)
9H: LTP (100' FNL/360' FWL)
9H: PBHL 20' FNL/360' FWL)

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
9H: SHL (649' FNL/681' FWL)	0.00	0.00	0.00	600962.30	496514.50	32.652008	-104.478969
9H: FTP/LP (100' FSL/360' FWL)	2725.00	750.40	-321.90	601712.70	496192.60	32.654070	-104.480018
9H: LTP (100' FNL/360' FWL)	2725.00	5801.60	-322.60	606763.90	496191.90	32.667954	-104.480043
9H: PBHL 20' FNL/360' FWL)	2725.00	5881.70	-322.60	606844.00	496191.90	32.668174	-104.480044



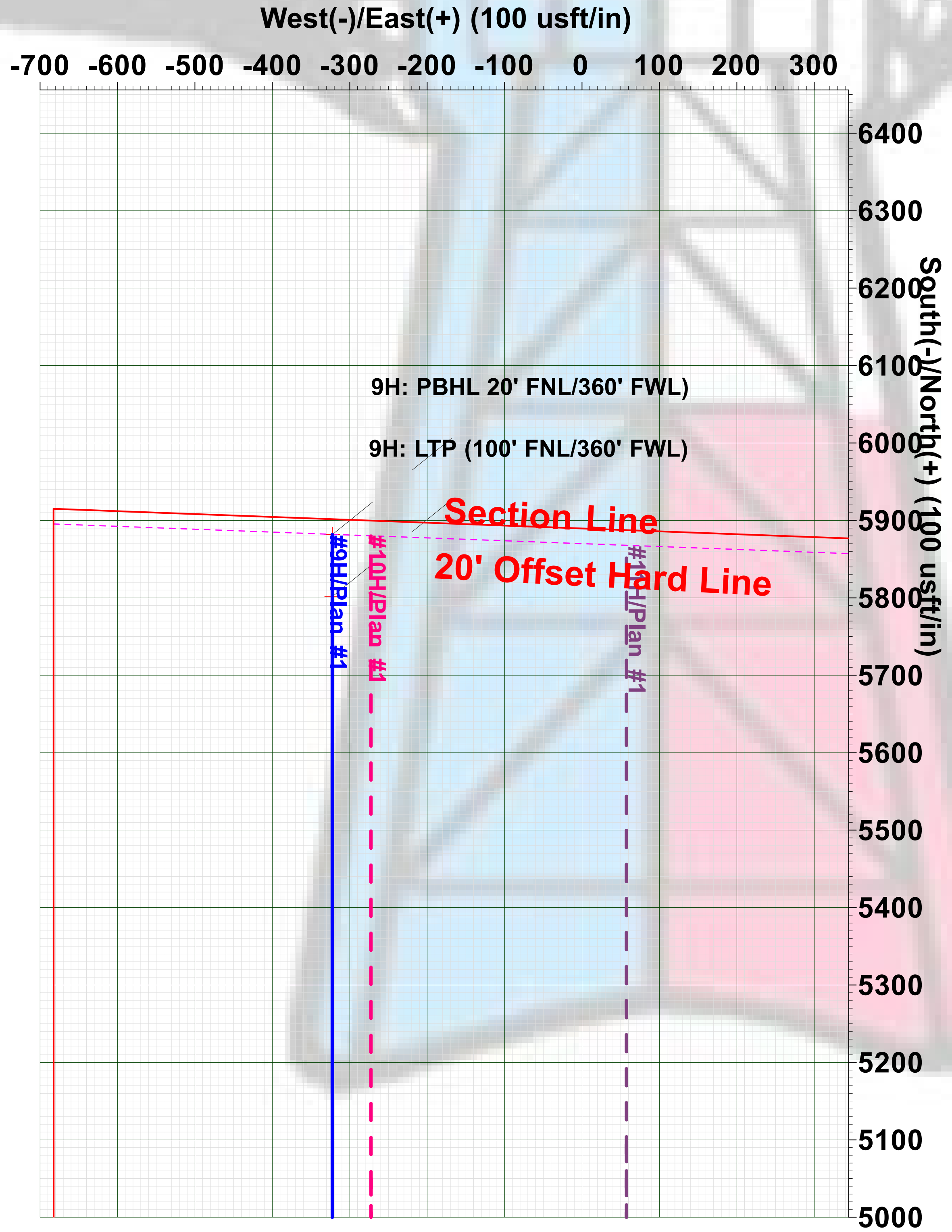
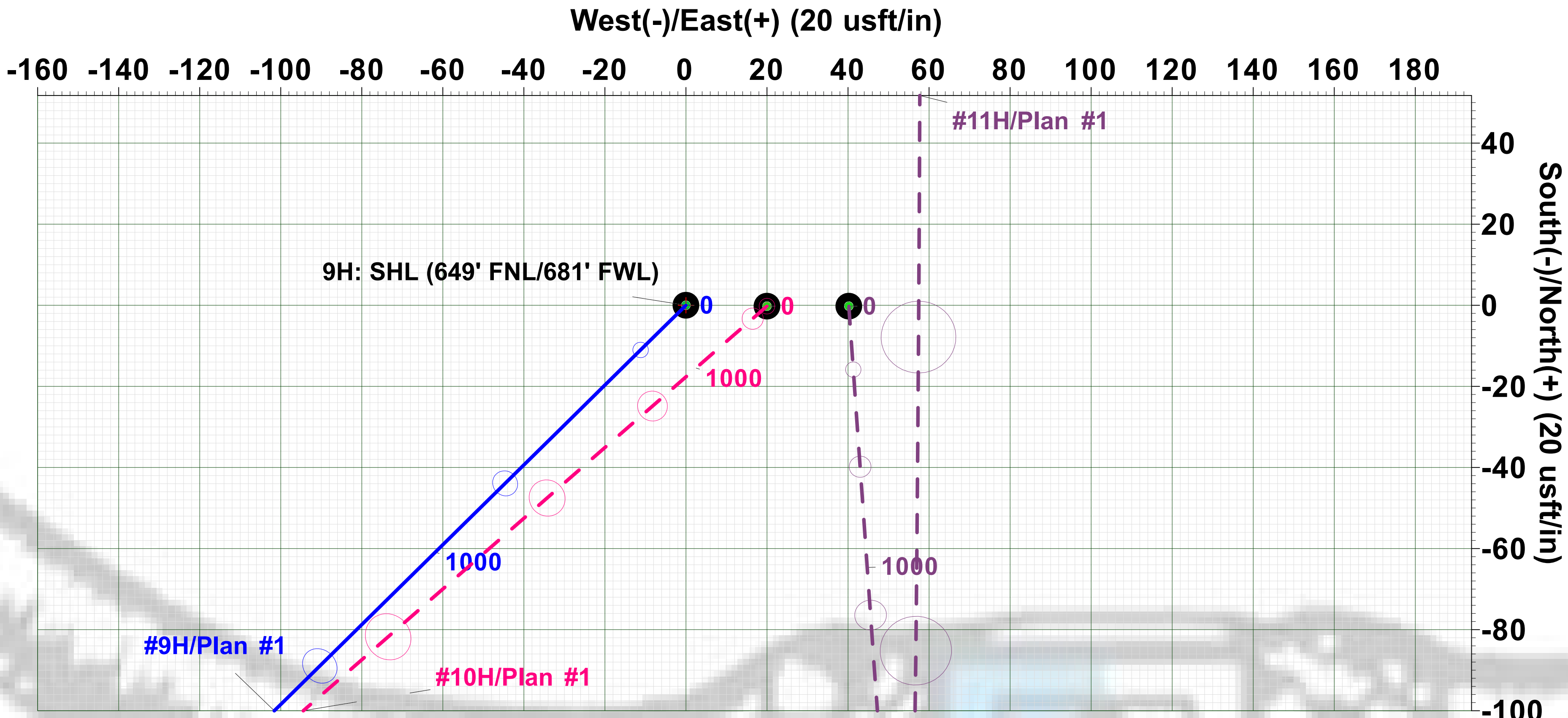
Azimuths to Grid North
True North: 0.08°
Magnetic North: 7.19°

Magnetic Field
Strength: 47814.6snT
Dip Angle: 60.28°
Date: 3/2/2020
Model: IGRF2015

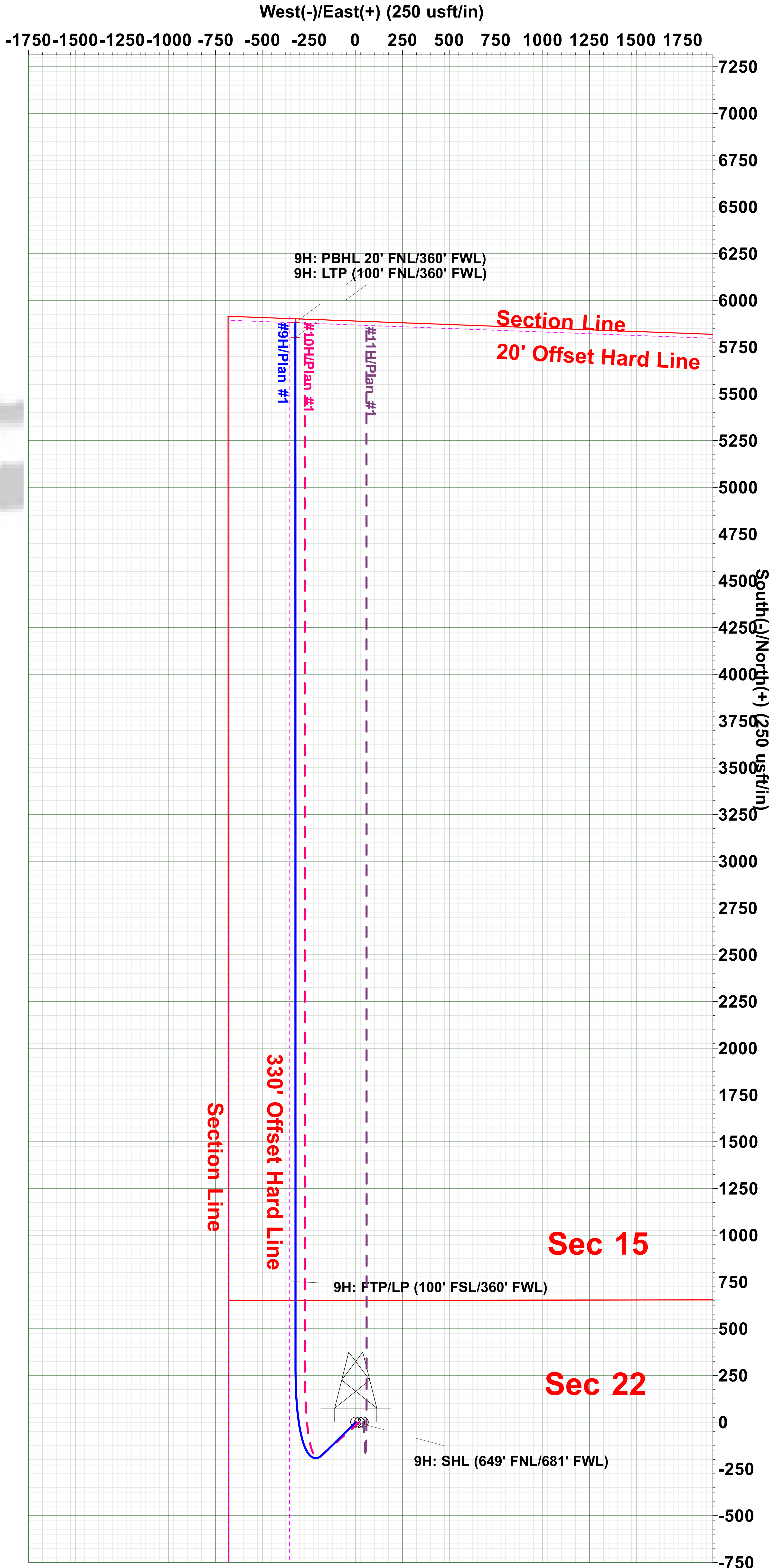
PROJECT DETAILS: Eddy County, NM (NAD 83 - NME)

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.



9H: PBHL 20' FNL/360' FWL)
9H: LTP (100' FNL/360' FWL)
TD at 8398.86





Spur Energy Partners, LLC

Eddy County, NM (NAD 83 - NME)

Osage Boyd 15 Federal Com

#9H

OH

Plan: Plan #1

Standard Plan With Toolface

03 March, 2020



Wellbenders

Standard Plan With Toolface

Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well #9H
Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	RKB=20' @ 3495.00usft (Akita 57)
Site:	Osage Boyd 15 Federal Com	MD Reference:	RKB=20' @ 3495.00usft (Akita 57)
Well:	#9H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #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	Osage Boyd 15 Federal Com		
Site Position:		Northing:	600,962.30 usft
From:	Map	Easting:	496,514.50 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	32.652008
		Longitude:	-104.478969
		Grid Convergence:	-0.079 °

Well		#9H				
Well Position	+N/-S	0.00 usft	Northing:	600,962.30 usft	Latitude:	32.652008
	+E/-W	0.00 usft	Easting:	496,514.50 usft	Longitude:	-104.478969
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,475.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/2/2020	7.115	60.275	47,814.55101405

Design	Plan #1			
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	359.99

Survey Tool Program	Date	3/3/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	8,398.86	Plan #1 (OH)	MWD+IGRF	OWSG MWD + IGRF or WMM



Wellbenders

Standard Plan With Toolface

Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well #9H
Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	RKB=20' @ 3495.00usft (Akita 57)
Site:	Osage Boyd 15 Federal Com	MD Reference:	RKB=20' @ 3495.00usft (Akita 57)
Well:	#9H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	WBDS_SQL_2

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
200.00	0.00	0.00	200.00	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	0.00	0.000
400.00	2.00	225.46	399.98	-1.22	-1.24	-1.22	2.00	2.00	0.00	225.456
500.00	4.00	225.46	499.84	-4.90	-4.97	-4.89	2.00	2.00	0.00	0.000
600.00	6.00	225.46	599.45	-11.01	-11.18	-11.01	2.00	2.00	0.00	0.000
700.00	8.00	225.46	698.70	-19.56	-19.87	-19.55	2.00	2.00	0.00	0.000
800.00	10.00	225.46	797.47	-30.53	-31.02	-30.52	2.00	2.00	0.00	0.000
900.00	12.00	225.46	895.62	-43.91	-44.62	-43.91	2.00	2.00	0.00	0.000
1,000.00	14.00	225.46	993.06	-59.69	-60.65	-59.68	2.00	2.00	0.00	0.000
1,100.00	16.00	225.46	1,089.64	-77.85	-79.09	-77.83	2.00	2.00	0.00	0.000
1,155.47	17.11	225.46	1,142.81	-88.93	-90.36	-88.92	2.00	2.00	0.00	0.000
1,200.00	17.11	225.46	1,185.37	-98.12	-99.70	-98.11	0.00	0.00	0.00	0.000
1,300.00	17.11	225.46	1,280.95	-118.76	-120.66	-118.74	0.00	0.00	0.00	0.000
1,400.00	17.11	225.46	1,376.52	-139.40	-141.63	-139.37	0.00	0.00	0.00	0.000
1,500.00	17.11	225.46	1,472.10	-160.03	-162.60	-160.00	0.00	0.00	0.00	0.000
1,557.70	17.11	225.46	1,527.24	-171.94	-174.70	-171.91	0.00	0.00	0.00	0.000
1,600.00	15.26	231.70	1,567.87	-179.76	-183.50	-179.72	6.00	-4.37	14.77	139.689
1,650.00	13.36	241.13	1,616.32	-186.62	-193.73	-186.59	6.00	-3.80	18.85	133.686
1,700.00	11.91	253.18	1,665.12	-190.91	-203.73	-190.87	6.00	-2.89	24.10	124.550
1,750.00	11.10	267.70	1,714.12	-192.59	-213.48	-192.56	6.00	-1.63	29.04	112.787
1,800.00	11.05	283.37	1,763.20	-191.68	-222.95	-191.64	6.00	-0.09	31.33	98.556
1,850.00	11.79	298.11	1,812.22	-188.17	-232.12	-188.12	6.00	1.47	29.48	83.180
1,900.00	13.17	310.47	1,861.05	-182.06	-240.96	-182.02	6.00	2.77	24.72	68.729
1,950.00	15.03	320.18	1,909.55	-173.39	-249.44	-173.34	6.00	3.71	19.42	56.657
2,000.00	17.20	327.64	1,957.59	-162.16	-257.55	-162.12	6.00	4.35	14.93	47.237



Wellbenders

Standard Plan With Toolface

Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well #9H
Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	RKB=20' @ 3495.00usft (Akita 57)
Site:	Osage Boyd 15 Federal Com	MD Reference:	RKB=20' @ 3495.00usft (Akita 57)
Well:	#9H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	WBDS_SQL_2

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
2,050.00	19.59	333.41	2,005.03	-148.42	-265.26	-148.37	6.00	4.78	11.53	40.063
2,100.00	22.12	337.93	2,051.75	-132.19	-272.55	-132.15	6.00	5.07	9.05	34.589
2,150.00	24.75	341.56	2,097.63	-113.53	-279.40	-113.49	6.00	5.27	7.24	30.359
2,200.00	27.46	344.51	2,142.52	-92.49	-285.80	-92.44	6.00	5.41	5.91	27.035
2,250.00	30.21	346.97	2,186.32	-69.12	-291.71	-69.07	6.00	5.51	4.92	24.379
2,300.00	33.01	349.06	2,228.90	-43.48	-297.13	-43.43	6.00	5.59	4.16	22.223
2,350.00	35.83	350.85	2,270.14	-15.66	-302.05	-15.60	6.00	5.65	3.58	20.449
2,400.00	38.68	352.41	2,309.94	14.29	-306.44	14.34	6.00	5.70	3.12	18.972
2,450.00	41.55	353.78	2,348.17	46.26	-310.31	46.32	6.00	5.73	2.75	17.730
2,500.00	44.43	355.01	2,384.74	80.19	-313.62	80.24	6.00	5.76	2.46	16.676
2,550.00	47.32	356.12	2,419.55	115.97	-316.39	116.02	6.00	5.79	2.22	15.777
2,600.00	50.22	357.13	2,452.50	153.50	-318.60	153.56	6.00	5.80	2.02	15.004
2,650.00	53.13	358.06	2,483.50	192.69	-320.24	192.75	6.00	5.82	1.86	14.338
2,700.00	56.05	358.92	2,512.47	233.42	-321.30	233.48	6.00	5.83	1.72	13.763
2,750.00	58.97	359.72	2,539.32	275.59	-321.80	275.65	6.00	5.85	1.61	13.264
2,767.56	60.00	359.99	2,548.24	290.72	-321.84	290.77	6.00	5.85	1.54	12.833
2,800.00	60.00	359.99	2,564.46	318.81	-321.84	318.87	0.00	0.00	0.00	0.000
2,900.00	60.00	359.99	2,614.46	405.41	-321.85	405.47	0.00	0.00	0.00	0.000
2,967.56	60.00	359.99	2,648.24	463.92	-321.86	463.98	0.00	0.00	0.00	0.000
3,000.00	63.24	359.99	2,663.66	492.46	-321.86	492.52	10.00	10.00	0.00	0.000
3,050.00	68.24	359.99	2,684.19	538.03	-321.87	538.09	10.00	10.00	0.00	0.000
3,100.00	73.24	359.99	2,700.67	585.22	-321.88	585.28	10.00	10.00	0.00	0.000
3,150.00	78.24	359.99	2,712.98	633.67	-321.88	633.72	10.00	10.00	0.00	0.000
3,200.00	83.24	359.99	2,721.02	683.00	-321.89	683.06	10.00	10.00	0.00	0.000
3,250.00	88.24	359.99	2,724.73	732.85	-321.90	732.90	10.00	10.00	0.00	0.000
3,267.56	90.00	359.99	2,725.00	750.40	-321.90	750.46	10.00	10.00	0.00	0.000
3,300.00	90.00	359.99	2,725.00	782.84	-321.90	782.90	0.00	0.00	0.00	0.000



Wellbenders

Standard Plan With Toolface

Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well #9H
Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	RKB=20' @ 3495.00usft (Akita 57)
Site:	Osage Boyd 15 Federal Com	MD Reference:	RKB=20' @ 3495.00usft (Akita 57)
Well:	#9H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	WBDS_SQL_2

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)	
3,400.00	90.00	359.99	2,725.00	882.84	-321.92	882.90	0.00	0.00	0.00	0.000	
3,500.00	90.00	359.99	2,725.00	982.84	-321.93	982.90	0.00	0.00	0.00	0.000	
3,600.00	90.00	359.99	2,725.00	1,082.84	-321.95	1,082.90	0.00	0.00	0.00	0.000	
3,700.00	90.00	359.99	2,725.00	1,182.84	-321.96	1,182.90	0.00	0.00	0.00	0.000	
3,800.00	90.00	359.99	2,725.00	1,282.84	-321.97	1,282.90	0.00	0.00	0.00	0.000	
3,900.00	90.00	359.99	2,725.00	1,382.84	-321.99	1,382.90	0.00	0.00	0.00	0.000	
4,000.00	90.00	359.99	2,725.00	1,482.84	-322.00	1,482.90	0.00	0.00	0.00	0.000	
4,100.00	90.00	359.99	2,725.00	1,582.84	-322.01	1,582.90	0.00	0.00	0.00	0.000	
4,200.00	90.00	359.99	2,725.00	1,682.84	-322.03	1,682.90	0.00	0.00	0.00	0.000	
4,300.00	90.00	359.99	2,725.00	1,782.84	-322.04	1,782.90	0.00	0.00	0.00	0.000	
4,400.00	90.00	359.99	2,725.00	1,882.84	-322.05	1,882.90	0.00	0.00	0.00	0.000	
4,500.00	90.00	359.99	2,725.00	1,982.84	-322.07	1,982.90	0.00	0.00	0.00	0.000	
4,600.00	90.00	359.99	2,725.00	2,082.84	-322.08	2,082.90	0.00	0.00	0.00	0.000	
4,700.00	90.00	359.99	2,725.00	2,182.84	-322.10	2,182.90	0.00	0.00	0.00	0.000	
4,800.00	90.00	359.99	2,725.00	2,282.84	-322.11	2,282.90	0.00	0.00	0.00	0.000	
4,900.00	90.00	359.99	2,725.00	2,382.84	-322.12	2,382.90	0.00	0.00	0.00	0.000	
5,000.00	90.00	359.99	2,725.00	2,482.84	-322.14	2,482.90	0.00	0.00	0.00	0.000	
5,100.00	90.00	359.99	2,725.00	2,582.84	-322.15	2,582.90	0.00	0.00	0.00	0.000	
5,200.00	90.00	359.99	2,725.00	2,682.84	-322.16	2,682.90	0.00	0.00	0.00	0.000	
5,300.00	90.00	359.99	2,725.00	2,782.84	-322.18	2,782.90	0.00	0.00	0.00	0.000	
5,400.00	90.00	359.99	2,725.00	2,882.84	-322.19	2,882.90	0.00	0.00	0.00	0.000	
5,500.00	90.00	359.99	2,725.00	2,982.84	-322.20	2,982.90	0.00	0.00	0.00	0.000	
5,600.00	90.00	359.99	2,725.00	3,082.84	-322.22	3,082.90	0.00	0.00	0.00	0.000	
5,700.00	90.00	359.99	2,725.00	3,182.84	-322.23	3,182.90	0.00	0.00	0.00	0.000	
5,800.00	90.00	359.99	2,725.00	3,282.84	-322.25	3,282.90	0.00	0.00	0.00	0.000	
5,900.00	90.00	359.99	2,725.00	3,382.84	-322.26	3,382.90	0.00	0.00	0.00	0.000	
6,000.00	90.00	359.99	2,725.00	3,482.84	-322.27	3,482.90	0.00	0.00	0.00	0.000	



Wellbenders

Standard Plan With Toolface

Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well #9H
Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	RKB=20' @ 3495.00usft (Akita 57)
Site:	Osage Boyd 15 Federal Com	MD Reference:	RKB=20' @ 3495.00usft (Akita 57)
Well:	#9H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	WBDS_SQL_2

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)	
6,100.00	90.00	359.99	2,725.00	3,582.84	-322.29	3,582.90	0.00	0.00	0.00	0.000	
6,200.00	90.00	359.99	2,725.00	3,682.84	-322.30	3,682.90	0.00	0.00	0.00	0.000	
6,300.00	90.00	359.99	2,725.00	3,782.84	-322.31	3,782.90	0.00	0.00	0.00	0.000	
6,400.00	90.00	359.99	2,725.00	3,882.84	-322.33	3,882.90	0.00	0.00	0.00	0.000	
6,500.00	90.00	359.99	2,725.00	3,982.84	-322.34	3,982.90	0.00	0.00	0.00	0.000	
6,600.00	90.00	359.99	2,725.00	4,082.84	-322.35	4,082.90	0.00	0.00	0.00	0.000	
6,700.00	90.00	359.99	2,725.00	4,182.84	-322.37	4,182.90	0.00	0.00	0.00	0.000	
6,800.00	90.00	359.99	2,725.00	4,282.84	-322.38	4,282.90	0.00	0.00	0.00	0.000	
6,900.00	90.00	359.99	2,725.00	4,382.84	-322.40	4,382.90	0.00	0.00	0.00	0.000	
7,000.00	90.00	359.99	2,725.00	4,482.84	-322.41	4,482.90	0.00	0.00	0.00	0.000	
7,100.00	90.00	359.99	2,725.00	4,582.84	-322.42	4,582.90	0.00	0.00	0.00	0.000	
7,200.00	90.00	359.99	2,725.00	4,682.84	-322.44	4,682.90	0.00	0.00	0.00	0.000	
7,300.00	90.00	359.99	2,725.00	4,782.84	-322.45	4,782.90	0.00	0.00	0.00	0.000	
7,400.00	90.00	359.99	2,725.00	4,882.84	-322.46	4,882.90	0.00	0.00	0.00	0.000	
7,500.00	90.00	359.99	2,725.00	4,982.84	-322.48	4,982.90	0.00	0.00	0.00	0.000	
7,600.00	90.00	359.99	2,725.00	5,082.84	-322.49	5,082.90	0.00	0.00	0.00	0.000	
7,700.00	90.00	359.99	2,725.00	5,182.84	-322.50	5,182.90	0.00	0.00	0.00	0.000	
7,800.00	90.00	359.99	2,725.00	5,282.84	-322.52	5,282.90	0.00	0.00	0.00	0.000	
7,900.00	90.00	359.99	2,725.00	5,382.84	-322.53	5,382.90	0.00	0.00	0.00	0.000	
8,000.00	90.00	359.99	2,725.00	5,482.84	-322.55	5,482.90	0.00	0.00	0.00	0.000	
8,100.00	90.00	359.99	2,725.00	5,582.84	-322.56	5,582.90	0.00	0.00	0.00	0.000	
8,200.00	90.00	359.99	2,725.00	5,682.84	-322.57	5,682.90	0.00	0.00	0.00	0.000	
8,300.00	90.00	359.99	2,725.00	5,782.84	-322.59	5,782.90	0.00	0.00	0.00	0.000	
8,318.76	90.00	359.99	2,725.00	5,801.60	-322.59	5,801.66	0.00	0.00	0.00	0.000	
8,398.86	90.00	359.99	2,725.00	5,881.70	-322.60	5,881.76	0.00	0.00	0.00	0.000	



Wellbenders
Standard Plan With Toolface

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Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	RKB=20' @ 3495.00usft (Akita 57)
Site:	Osage Boyd 15 Federal Com	MD Reference:	RKB=20' @ 3495.00usft (Akita 57)
Well:	#9H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	WBDS_SQL_2

Checked By: _____	Approved By: _____	Date: _____
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