

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

Form C-101
August 1, 2011

Permit 311720

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024		2. OGRID Number 328947
		3. API Number 30-015-49360
4. Property Code 326714	5. Property Name HALBERD 27 STATE COM	6. Well No. 070H

7. Surface Location

UL - Lot D	Section 26	Township 17S	Range 28E	Lot Idn	Feet From 685	N/S Line N	Feet From 112	E/W Line W	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot D	Section 27	Township 17S	Range 28E	Lot Idn D	Feet From 600	N/S Line N	Feet From 50	E/W Line W	County Eddy
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9. Pool Information

ARTESIA; GLORIETA-YESO (O)	96830
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3591
16. Multiple N	17. Proposed Depth 9366	18. Formation Yates	19. Contractor	20. Spud Date 5/22/2022
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☐ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.625	36	1200	353	0
Prod	8.75	7	32	4500	1478	0
Prod	8.75	5.5	20	9366	1478	0

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5	5000	Shaffer

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.	OIL CONSERVATION DIVISION	
Signature:		
Printed Name: Electronically filed by Sarah Chapman	Approved By: Katherine Pickford	
Title: Regulatory Director	Title: Geoscientist	
Email Address: schapman@spurenergy.com	Approved Date: 3/14/2022	Expiration Date: 3/14/2024
Date: 3/9/2022	Phone: 832-930-8613	Conditions of Approval Attached

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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- 49360	² Pool Code 96830	³ Pool Name ARTESIA; GLORIETA-YESO
⁴ Property Code 326714	⁵ Property Name HALBERD 27 STATE COM	⁶ Well Number 70H
⁷ OGRID 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		600	NORTH	50	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) <u>600' FNL & 100' FEL - SEC 27</u> N: 658874.9 - E: 595913.2 LAT: 32.8111504° N LONG: 104.1556943° W LAST TAKE POINT (LTP) <u>600' FNL & 100' FWL - SEC 27</u> N: 658858.3 - E: 590888.9 LAT: 32.8111266° N LONG: 104.1720479° W BOTTOM HOLE (BH) N: 658858.1 - E: 590839.0 LAT: 32.8111264° N LONG: 104.1722106° W 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 Diagram: A grid showing sections 26 and 27. A dashed red rectangle highlights the well location area. Points C, D, E, F, G are marked along the top edge. Points A, L, K, J, I are marked along the bottom edge. A point M is marked in section 26. A point B is marked in section 27. A point H is marked in section 26. A point S.L. is marked in section 26. A point FTP is marked in section 26. A point LTP is marked in section 27. A point B.H. is marked in section 27. A distance of 600' is marked from the top edge to the FTP. A distance of 100' is marked from the FTP to the LTP. A distance of 50' is marked from the LTP to the B.H. A distance of 685' is marked from the top edge to the S.L. A distance of 112' is marked from the S.L. to the FTP. A distance of 5025.60' is marked from the FTP to the LTP. A distance of 89°48'35" is marked between the FTP and the LTP.	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> 03/01/2022 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> 02/04/2022 Date of Survey Signature and Seal of Professional Surveyor 19680 Certificate Number LS21121314
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form APD Conditions

Permit 311720

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: Spur Energy Partners LLC [328947] 9655 Katy Freeway Houston, TX 77024	API Number: 30-015-49360
	Well: HALBERD 27 STATE COM #070H

OCD Reviewer	Condition
kpickford	Notify OCD 24 hours prior to casing & cement
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

I. Operator: SPUR ENERGY PARTNERS LLC **OGRID:** 328947 **Date:** 03 / 09 / 2022

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
HALBERD 27 STATE COM 2H	30-015-	D-26-17S-28E	665' FNL 112' FWL	264 BBL/D	299 MCF/D	1318 BBL/D
HALBERD 27 STATE COM 20H	30-015-	D-26-17S-28E	705' FNL 112' FWL	339 BBL/D	384 MCF/D	1693 BBL/D
HALBERD 27 STATE COM 70H	30-015-	D-26-17S-28E	685' FNL 112' FWL	283 BBL/D	468 MCF/D	1695 BBL/D

IV. Central Delivery Point Name: HALBERD NORTH STATE COM TANK BATTERY [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
HALBERD 27 STATE COM 2H	30-015-	05/31/2022	06/07/2022	08/13/2022	09/07/2022	09/07/2022
HALBERD 27 STATE COM 20H	30-015-	06/08/2022	06/16/2022	08/13/2022	09/07/2022	09/07/2022
HALBERD 27 STATE COM 70H	30-015-	05/22/2022	05/30/2022	08/13/2022	09/07/2022	09/07/2022

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: <i>Sarah Chapman</i>
Printed Name: SARAH CHAPMAN
Title: REGULATORY DIRECTOR
E-mail Address: SCHAPMAN@SPUREENERGY.COM
Date: 03/09/2022
Phone: 832-930-8613
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:



Spur Energy Partners, LLC

**Eddy County, NM (NAD 83 - NME)
HALBERD 27 STATE COM
70H**

Wellbore #1

Plan: PLAN #2

Standard Planning Report

06 March, 2022





Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well 70H
Company:	Spur Energy Partners, LLC	TVD Reference:	RKB = 20' @ 3611.00usft (AKITA 57)
Project:	Eddy County, NM (NAD 83 - NME)	MD Reference:	RKB = 20' @ 3611.00usft (AKITA 57)
Site:	HALBERD 27 STATE COM	North Reference:	Grid
Well:	70H	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						HALBERD 27 STATE COM											
Site Position:			Northing:			658,818.90 usft			Latitude:			32.8109953					
From:			Map			Easting:			596,124.80 usft			Longitude:			-104.1550059		
Position Uncertainty:			0.00 usft			Slot Radius:			13.200 in			Grid Convergence:			0.097 °		

Well	70H					
Well Position	+N/-S	-19.90 usft	Northing:	658,799.00 usft	Latitude:	32.8109406
	+E/-W	-0.20 usft	Easting:	596,124.60 usft	Longitude:	-104.1550067
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level:	3,591.00 usft

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

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	269.81	

Plan Survey Tool Program	Date	03/06/22			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	9,366.09	PLAN #2 (Wellbore #1)	MWD+IFR1+SAG+FDIR	
				OWSG MWD + IFR1 + Sag	

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	
820.00	0.00	0.00	820.00	0.00	0.00	0.00	0.00	0.00	0.000	
994.99	3.50	65.07	994.88	2.25	4.84	2.00	2.00	0.00	65.072	
3,465.72	3.50	65.07	3,461.00	65.82	141.62	0.00	0.00	0.00	0.000	
4,255.58	60.00	269.81	4,120.95	75.89	-215.49	8.00	7.15	-19.66	-156.042	
4,455.58	60.00	269.81	4,220.95	75.32	-388.69	0.00	0.00	0.00	0.000	
4,758.40	90.28	269.81	4,297.70	74.36	-677.99	10.00	10.00	0.00	0.000	4. PLAN LP 70H: 60'
9,316.19	90.28	269.81	4,275.25	59.27	-5,235.70	0.00	0.00	0.00	0.000	5. LTP 70H: 600' F
9,366.09	90.28	269.81	4,275.00	59.10	-5,285.60	0.00	0.00	0.00	0.000	6. BHL 70H: 600' F



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well 70H
Company:	Spur Energy Partners, LLC	TVD Reference:	RKB = 20' @ 3611.00usft (AKITA 57)
Project:	Eddy County, NM (NAD 83 - NME)	MD Reference:	RKB = 20' @ 3611.00usft (AKITA 57)
Site:	HALBERD 27 STATE COM	North Reference:	Grid
Well:	70H	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
1. SHL 70H: 685' FNL, 112' 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	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
820.00	0.00	0.00	820.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	1.60	65.07	899.99	0.47	1.01	-1.01	2.00	2.00	0.00
994.99	3.50	65.07	994.88	2.25	4.84	-4.85	2.00	2.00	0.00
1,000.00	3.50	65.07	999.88	2.38	5.12	-5.13	0.00	0.00	0.00
1,100.00	3.50	65.07	1,099.70	4.95	10.66	-10.67	0.00	0.00	0.00
1,200.00	3.50	65.07	1,199.51	7.53	16.19	-16.22	0.00	0.00	0.00
1,300.00	3.50	65.07	1,299.32	10.10	21.73	-21.76	0.00	0.00	0.00
1,400.00	3.50	65.07	1,399.14	12.67	27.27	-27.31	0.00	0.00	0.00
1,500.00	3.50	65.07	1,498.95	15.25	32.80	-32.85	0.00	0.00	0.00
1,600.00	3.50	65.07	1,598.76	17.82	38.34	-38.40	0.00	0.00	0.00
1,700.00	3.50	65.07	1,698.58	20.39	43.87	-43.94	0.00	0.00	0.00
1,800.00	3.50	65.07	1,798.39	22.96	49.41	-49.48	0.00	0.00	0.00
1,900.00	3.50	65.07	1,898.20	25.54	54.94	-55.03	0.00	0.00	0.00
2,000.00	3.50	65.07	1,998.02	28.11	60.48	-60.57	0.00	0.00	0.00
2,100.00	3.50	65.07	2,097.83	30.68	66.02	-66.12	0.00	0.00	0.00
2,200.00	3.50	65.07	2,197.64	33.26	71.55	-71.66	0.00	0.00	0.00
2,300.00	3.50	65.07	2,297.46	35.83	77.09	-77.21	0.00	0.00	0.00
2,400.00	3.50	65.07	2,397.27	38.40	82.62	-82.75	0.00	0.00	0.00
2,500.00	3.50	65.07	2,497.08	40.97	88.16	-88.29	0.00	0.00	0.00
2,600.00	3.50	65.07	2,596.90	43.55	93.69	-93.84	0.00	0.00	0.00
2,700.00	3.50	65.07	2,696.71	46.12	99.23	-99.38	0.00	0.00	0.00
2,800.00	3.50	65.07	2,796.52	48.69	104.77	-104.93	0.00	0.00	0.00
2,900.00	3.50	65.07	2,896.34	51.27	110.30	-110.47	0.00	0.00	0.00
3,000.00	3.50	65.07	2,996.15	53.84	115.84	-116.02	0.00	0.00	0.00
3,100.00	3.50	65.07	3,095.97	56.41	121.37	-121.56	0.00	0.00	0.00
3,200.00	3.50	65.07	3,195.78	58.98	126.91	-127.10	0.00	0.00	0.00
3,300.00	3.50	65.07	3,295.59	61.56	132.44	-132.65	0.00	0.00	0.00
3,400.00	3.50	65.07	3,395.41	64.13	137.98	-138.19	0.00	0.00	0.00
3,465.72	3.50	65.07	3,461.00	65.82	141.62	-141.84	0.00	0.00	0.00
2. KOP 70H @ 3465.72' MD									
3,500.00	1.49	16.81	3,495.25	66.69	142.70	-142.92	8.00	-5.86	-140.78
3,550.00	3.82	290.81	3,545.21	67.90	141.33	-141.55	8.00	4.65	-172.00
3,600.00	7.68	279.59	3,594.95	69.05	136.48	-136.71	8.00	7.72	-22.43
3,650.00	11.63	275.91	3,644.23	70.13	128.17	-128.40	8.00	7.91	-7.36
3,700.00	15.61	274.08	3,692.82	71.13	116.44	-116.68	8.00	7.95	-3.65
3,750.00	19.59	272.98	3,740.47	72.04	101.36	-101.59	8.00	7.97	-2.20
3,800.00	23.58	272.25	3,786.95	72.87	82.98	-83.22	8.00	7.98	-1.48
3,850.00	27.58	271.71	3,832.04	73.61	61.41	-61.65	8.00	7.99	-1.07
3,900.00	31.57	271.30	3,875.52	74.25	36.75	-36.99	8.00	7.99	-0.82
3,950.00	35.57	270.98	3,917.17	74.80	9.11	-9.36	8.00	7.99	-0.65
4,000.00	39.56	270.71	3,956.79	75.24	-21.37	21.12	8.00	7.99	-0.53
4,050.00	43.56	270.48	3,994.20	75.59	-54.53	54.28	8.00	7.99	-0.45
4,100.00	47.56	270.29	4,029.20	75.82	-90.22	89.97	8.00	8.00	-0.39



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well 70H
Company:	Spur Energy Partners, LLC	TVD Reference:	RKB = 20' @ 3611.00usft (AKITA 57)
Project:	Eddy County, NM (NAD 83 - NME)	MD Reference:	RKB = 20' @ 3611.00usft (AKITA 57)
Site:	HALBERD 27 STATE COM	North Reference:	Grid
Well:	70H	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)
4,150.00	51.56	270.12	4,061.62	75.96	-128.27	128.01	8.00	8.00	-0.34
4,200.00	55.56	269.96	4,091.32	75.99	-168.48	168.23	8.00	8.00	-0.31
4,250.00	59.55	269.83	4,118.14	75.91	-210.67	210.41	8.00	8.00	-0.28
4,255.58	60.00	269.81	4,120.95	75.89	-215.49	215.23	8.00	8.00	-0.27
4,300.00	60.00	269.81	4,143.16	75.76	-253.96	253.71	0.00	0.00	0.00
4,341.57	60.00	269.81	4,163.94	75.65	-289.95	289.70	0.00	0.00	0.00
3. FTP 70H: 600' FNL, 100' FEL									
4,400.00	60.00	269.81	4,193.16	75.48	-340.56	340.31	0.00	0.00	0.00
4,455.58	60.00	269.81	4,220.95	75.32	-388.69	388.44	0.00	0.00	0.00
4,500.00	64.44	269.81	4,241.64	75.19	-427.98	427.73	10.00	10.00	0.00
4,550.00	69.44	269.81	4,261.22	75.04	-473.97	473.72	10.00	10.00	0.00
4,600.00	74.44	269.81	4,276.71	74.88	-521.50	521.25	10.00	10.00	0.00
4,650.00	79.44	269.81	4,288.01	74.72	-570.19	569.94	10.00	10.00	0.00
4,700.00	84.44	269.81	4,295.01	74.55	-619.68	619.43	10.00	10.00	0.00
4,750.00	89.44	269.81	4,297.68	74.39	-669.59	669.34	10.00	10.00	0.00
4,758.40	90.28	269.81	4,297.70	74.36	-677.99	677.74	10.00	10.00	0.00
4. PLAN LP 70H: 600' FNL, 567' FEL									
4,800.00	90.28	269.81	4,297.50	74.22	-719.59	719.34	0.00	0.00	0.00
4,900.00	90.28	269.81	4,297.00	73.89	-819.59	819.34	0.00	0.00	0.00
5,000.00	90.28	269.81	4,296.51	73.56	-919.59	919.34	0.00	0.00	0.00
5,100.00	90.28	269.81	4,296.02	73.23	-1,019.59	1,019.34	0.00	0.00	0.00
5,200.00	90.28	269.81	4,295.52	72.90	-1,119.58	1,119.34	0.00	0.00	0.00
5,300.00	90.28	269.81	4,295.03	72.57	-1,219.58	1,219.33	0.00	0.00	0.00
5,400.00	90.28	269.81	4,294.54	72.24	-1,319.58	1,319.33	0.00	0.00	0.00
5,500.00	90.28	269.81	4,294.05	71.90	-1,419.58	1,419.33	0.00	0.00	0.00
5,600.00	90.28	269.81	4,293.55	71.57	-1,519.58	1,519.33	0.00	0.00	0.00
5,700.00	90.28	269.81	4,293.06	71.24	-1,619.57	1,619.33	0.00	0.00	0.00
5,800.00	90.28	269.81	4,292.57	70.91	-1,719.57	1,719.33	0.00	0.00	0.00
5,900.00	90.28	269.81	4,292.08	70.58	-1,819.57	1,819.33	0.00	0.00	0.00
6,000.00	90.28	269.81	4,291.58	70.25	-1,919.57	1,919.33	0.00	0.00	0.00
6,100.00	90.28	269.81	4,291.09	69.92	-2,019.57	2,019.32	0.00	0.00	0.00
6,200.00	90.28	269.81	4,290.60	69.59	-2,119.57	2,119.32	0.00	0.00	0.00
6,300.00	90.28	269.81	4,290.11	69.25	-2,219.56	2,219.32	0.00	0.00	0.00
6,400.00	90.28	269.81	4,289.61	68.92	-2,319.56	2,319.32	0.00	0.00	0.00
6,500.00	90.28	269.81	4,289.12	68.59	-2,419.56	2,419.32	0.00	0.00	0.00
6,600.00	90.28	269.81	4,288.63	68.26	-2,519.56	2,519.32	0.00	0.00	0.00
6,700.00	90.28	269.81	4,288.13	67.93	-2,619.56	2,619.32	0.00	0.00	0.00
6,800.00	90.28	269.81	4,287.64	67.60	-2,719.56	2,719.32	0.00	0.00	0.00
6,900.00	90.28	269.81	4,287.15	67.27	-2,819.55	2,819.31	0.00	0.00	0.00
7,000.00	90.28	269.81	4,286.66	66.94	-2,919.55	2,919.31	0.00	0.00	0.00
7,100.00	90.28	269.81	4,286.16	66.60	-3,019.55	3,019.31	0.00	0.00	0.00
7,200.00	90.28	269.81	4,285.67	66.27	-3,119.55	3,119.31	0.00	0.00	0.00
7,300.00	90.28	269.81	4,285.18	65.94	-3,219.55	3,219.31	0.00	0.00	0.00
7,400.00	90.28	269.81	4,284.69	65.61	-3,319.54	3,319.31	0.00	0.00	0.00
7,500.00	90.28	269.81	4,284.19	65.28	-3,419.54	3,419.31	0.00	0.00	0.00
7,600.00	90.28	269.81	4,283.70	64.95	-3,519.54	3,519.31	0.00	0.00	0.00
7,700.00	90.28	269.81	4,283.21	64.62	-3,619.54	3,619.31	0.00	0.00	0.00
7,800.00	90.28	269.81	4,282.72	64.29	-3,719.54	3,719.30	0.00	0.00	0.00
7,900.00	90.28	269.81	4,282.22	63.96	-3,819.54	3,819.30	0.00	0.00	0.00
8,000.00	90.28	269.81	4,281.73	63.62	-3,919.53	3,919.30	0.00	0.00	0.00
8,100.00	90.28	269.81	4,281.24	63.29	-4,019.53	4,019.30	0.00	0.00	0.00
8,200.00	90.28	269.81	4,280.74	62.96	-4,119.53	4,119.30	0.00	0.00	0.00
8,300.00	90.28	269.81	4,280.25	62.63	-4,219.53	4,219.30	0.00	0.00	0.00
8,400.00	90.28	269.81	4,279.76	62.30	-4,319.53	4,319.30	0.00	0.00	0.00



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well 70H
Company:	Spur Energy Partners, LLC	TVD Reference:	RKB = 20' @ 3611.00usft (AKITA 57)
Project:	Eddy County, NM (NAD 83 - NME)	MD Reference:	RKB = 20' @ 3611.00usft (AKITA 57)
Site:	HALBERD 27 STATE COM	North Reference:	Grid
Well:	70H	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)	
8,500.00	90.28	269.81	4,279.27	61.97	-4,419.53	4,419.30	0.00	0.00	0.00	
8,600.00	90.28	269.81	4,278.77	61.64	-4,519.52	4,519.29	0.00	0.00	0.00	
8,700.00	90.28	269.81	4,278.28	61.31	-4,619.52	4,619.29	0.00	0.00	0.00	
8,800.00	90.28	269.81	4,277.79	60.97	-4,719.52	4,719.29	0.00	0.00	0.00	
8,900.00	90.28	269.81	4,277.30	60.64	-4,819.52	4,819.29	0.00	0.00	0.00	
9,000.00	90.28	269.81	4,276.80	60.31	-4,919.52	4,919.29	0.00	0.00	0.00	
9,100.00	90.28	269.81	4,276.31	59.98	-5,019.51	5,019.29	0.00	0.00	0.00	
9,200.00	90.28	269.81	4,275.82	59.65	-5,119.51	5,119.29	0.00	0.00	0.00	
9,300.00	90.28	269.81	4,275.33	59.32	-5,219.51	5,219.29	0.00	0.00	0.00	
9,316.19	90.28	269.81	4,275.25	59.27	-5,235.70	5,235.47	0.00	0.00	0.00	
5. LTP 70H: 600' FNL, 100' FWL										
9,366.09	90.28	269.81	4,275.00	59.10	-5,285.60	5,285.38	0.00	0.00	0.00	
6. BHL 70H: 600' FNL, 50' FWL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
1. SHL 70H: 685' FNL - hit/miss target - Shape - Point	0.00	0.00	0.00	0.00	0.00	658,799.00	596,124.60	32.8109406	-104.1550067	
2. KOP 70H @ 3465.7 - plan hits target center - Point	0.00	0.00	3,461.00	65.82	141.62	658,864.82	596,266.22	32.8111209	-104.1545454	
6. BHL 70H: 600' FNL - plan hits target center - Point	0.00	0.00	4,275.00	59.10	-5,285.60	658,858.10	590,839.00	32.8111264	-104.1722104	
5. LTP 70H: 600' FNL - plan misses target center by 0.03usft at 9316.19usft MD (4275.25 TVD, 59.27 N, -5235.70 E) - Point	0.00	0.00	4,275.25	59.30	-5,235.70	658,858.30	590,888.90	32.8111267	-104.1720480	
4. PLAN LP 70H: 600' - plan hits target center - Point	0.00	0.00	4,297.70	74.36	-677.99	658,873.36	595,446.61	32.8111482	-104.1572131	
3. FTP 70H: 600' FNL - plan misses target center by 157.11usft at 4341.57usft MD (4163.94 TVD, 75.65 N, -289.95 E) - Point	0.00	0.00	4,300.00	75.90	-211.40	658,874.90	595,913.20	32.8111502	-104.1556944	



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 #2 / 16:00, March 06 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

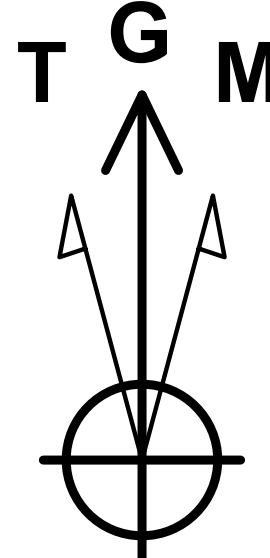
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	820.00	0.00	0.00	820.00	0.00	0.00	0.00	0.00
3	994.99	3.50	65.07	994.88	2.25	4.84	2.00	-4.85
4	3465.72	3.50	65.07	3461.00	65.82	141.62	0.00	-141.84
5	4255.58	60.00	269.81	4120.95	75.89	-215.49	8.00	215.23
6	4455.58	60.00	269.81	4220.95	75.32	-388.69	0.00	388.44
7	4758.40	90.28	269.81	4297.70	74.36	-677.99	10.00	677.74
8	9316.19	90.28	269.81	4275.25	59.27	-5235.70	0.00	5235.47
9	9366.09	90.28	269.81	4275.00	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 @ 3465.72' MD	3461.00	65.82	141.62	658864.82	596266.22	32.8111209	-104.1545454
6. BHL 70H: 600' FNL, 50' FWL	4275.00	59.10	-5285.60	658858.10	590839.00	32.8111264	-104.1722105
5. LTP 70H: 600' FNL, 100' FWL	4275.25	59.30	-5235.70	658858.30	590888.90	32.8111267	-104.1720480
4. PLAN LP 70H: 600' FNL, 567' FEL	4297.70	74.36	-677.99	658873.36	595446.61	32.8111481	-104.1572131
3. FTP 70H: 600' FNL, 100' FEL	4300.00	75.90	-211.40	658874.90	595913.20	32.8111502	-104.1556944

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°

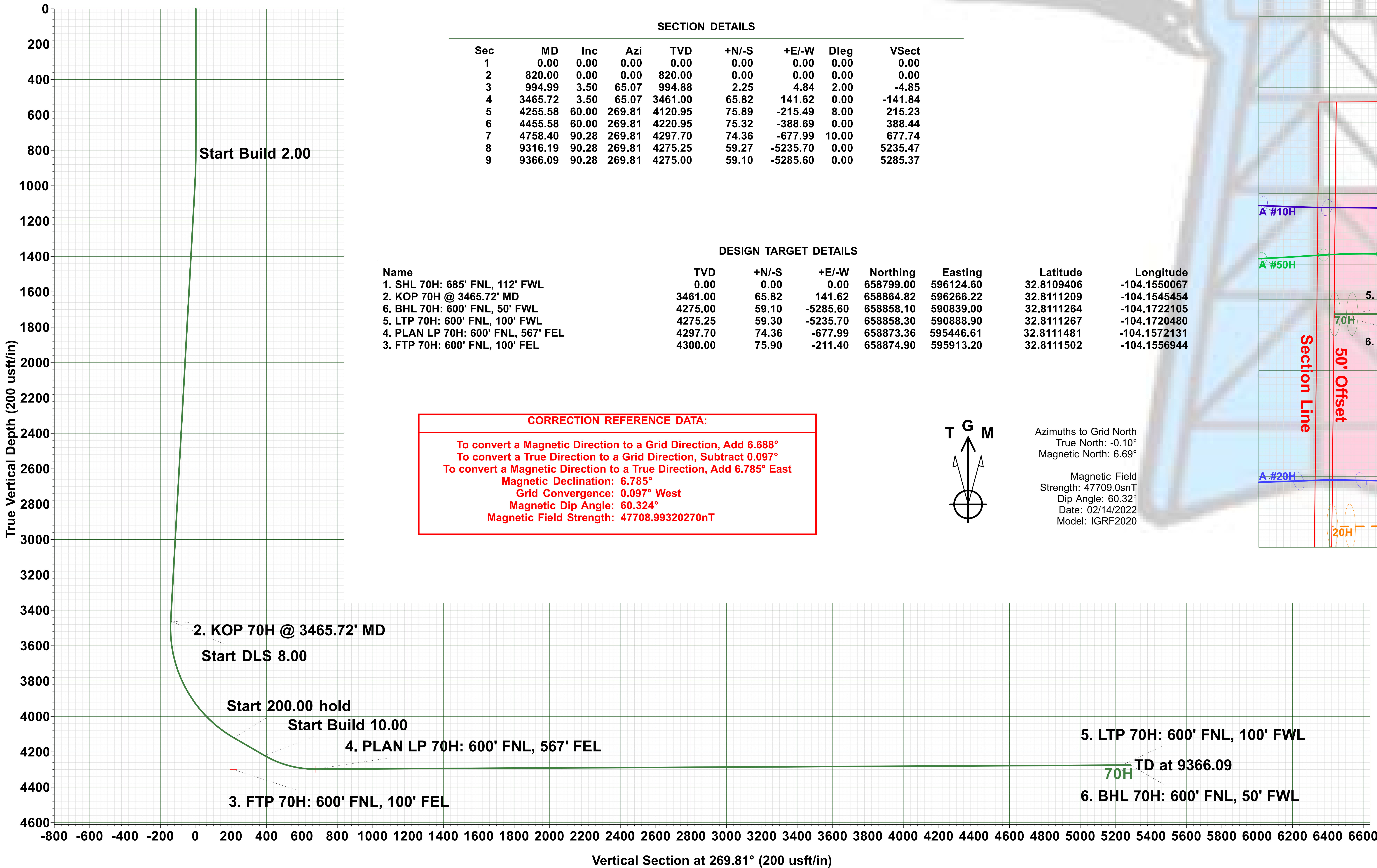
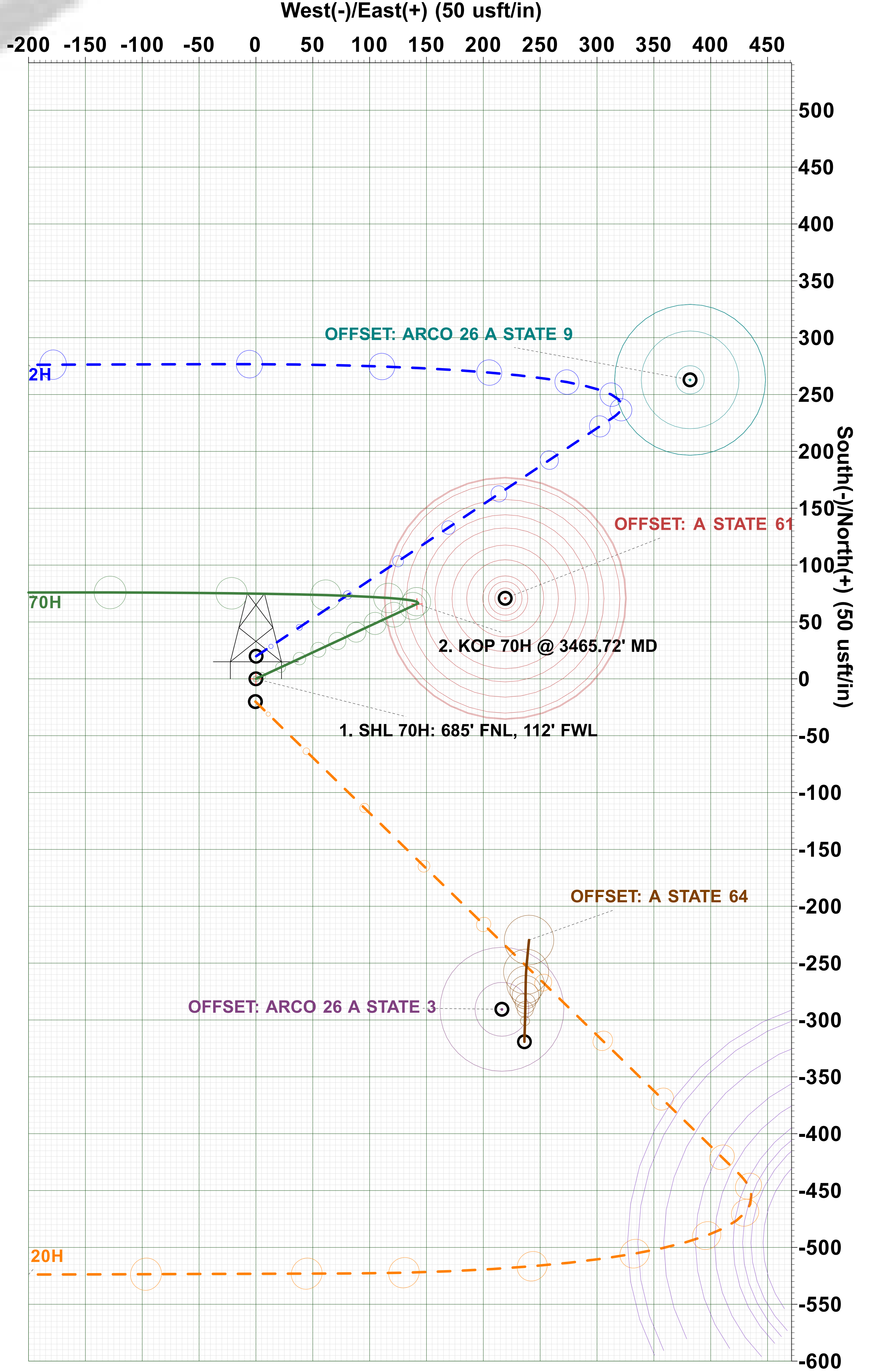
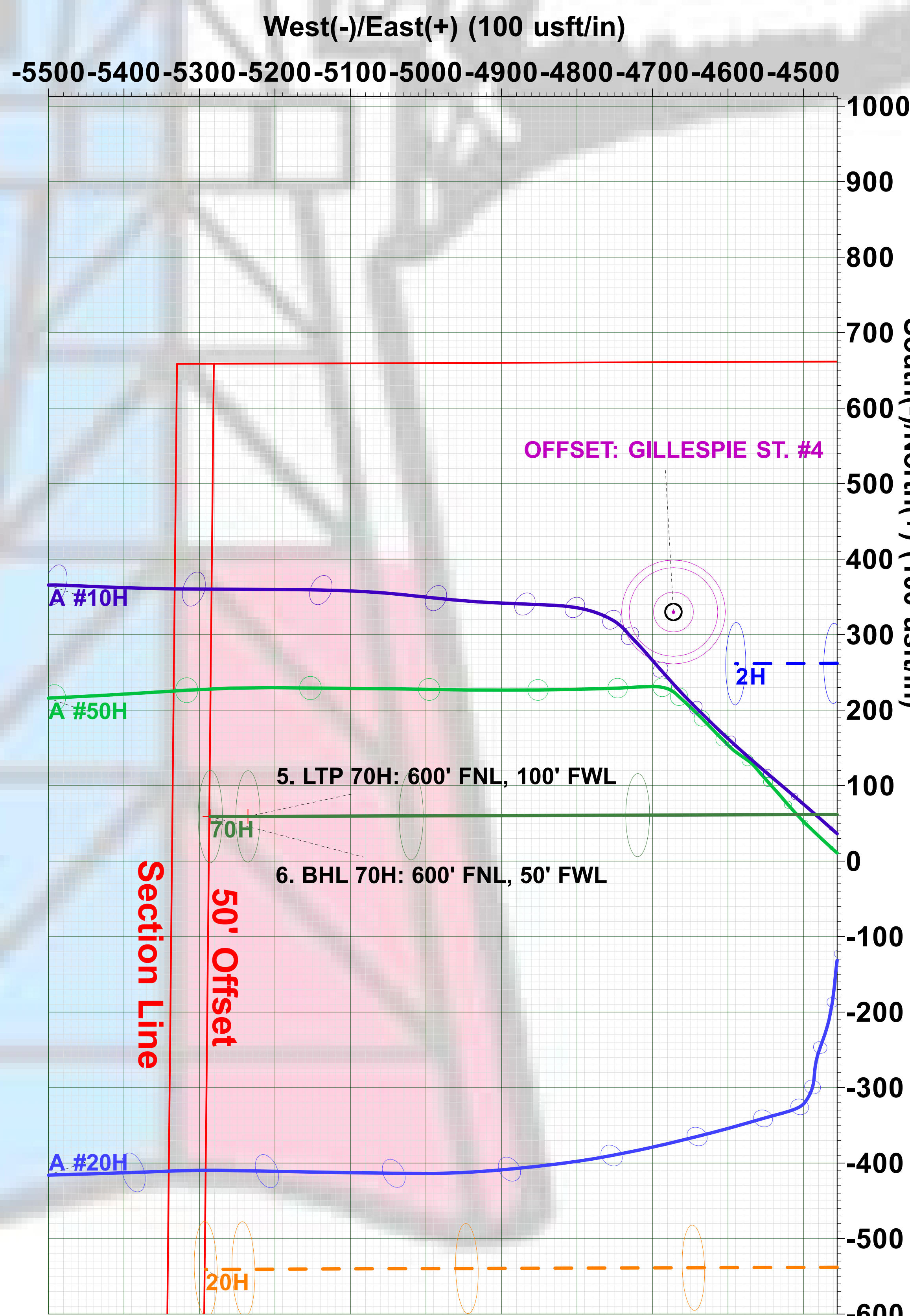
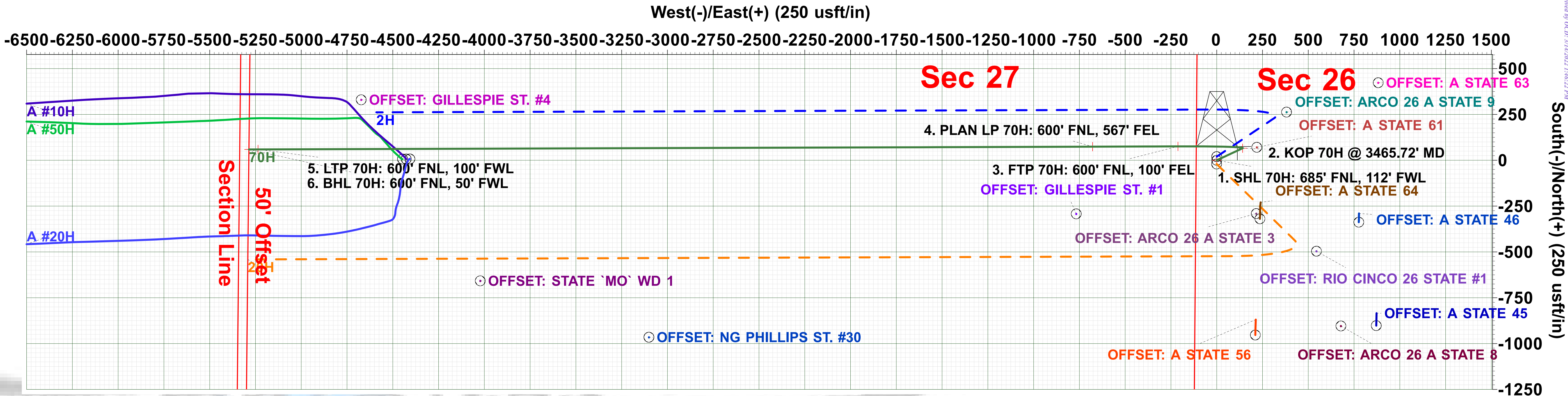
Magnetic Field
Strength: 47709.0snT
Dip Angle: 60.32°
Date: 02/14/2022
Model: IGRF2020

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.



Spur Energy Partners LLC – Halberd 27 State Com 70H

1. Geologic Formations

TVD of Target	4,275'
MD at TD	9,366'

Formation	Depth	Lithology	Expected Fluids
Quaternary	0'	Dolomite, other: Caliche	Useable Water
Tansill	365'	Sandstone, Dolomite	None
Yates	465'	Dolomite, Limestone, Shale, Siltstone	None
Seven Rivers	725'	Dolomite, Limestone	Natural Gas, Oil
Queen	1270'	Sandstone, Dolomite, Anhydrite	Natural Gas, Oil
Grayburg	1680'	Sandstone, Dolomite, Anhydrite	Natural Gas, Oil
San Andres	1956'	Dolomite	Natural Gas, Oil
Glorieta	3365'	Dolomite, Siltstone	Natural Gas, Oil
Yeso	3450'	Dolomite	Natural Gas, Oil

*H₂S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

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	1200	9.625	36	J-55	BTC	1.125	1.2	1.4	1.4
8.75	0	4500	7	32	L-80	BK-HT	1.125	1.2	1.4	1.4
8.75	4500	9366	5.5	20	L-80	BK-HT	1.125	1.2	1.4	1.4
SF Values will meet or Exceed										

Spur Energy Partners LLC – Halberd 27 State Com 70H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing String	Top (ft)	Bottom (ft)	% Excess
Surface (Lead)	0	950	100%
Surface (Tail)	950	1200	100%
Production (Lead)	0	3500	100%
Production (Tail)	3500	9366	25%

Casing String	# Sks	Wt. (lb/gal)	Yld (ft3/sack)	H2O (gal/sk)	500# Comp. Strength (hours)	Slurry Description
Surface (Lead)	259	12	2.4	13.48	8:12	Clas C Premium Plus Cement
Surface (Tail)	94	13.2	1.87	9.92	6:59	Clas C Premium Plus Cement
Production (Lead)	369	11.4	2.42	15.29	N/A	Clas C Premium Plus Cement
Production (Tail)	1109	13.2	1.56	9.81	N/A	Clas C Premium Plus Cement

Spur Energy Partners LLC – Halberd 27 State Com 70H

4. Pressure Control Equipment

Spur Energy Partners LLC variance for flex hose

1. Spur requests a variance to use a flex line from the BOP to the choke manifold. Documentation will be attached in the APD and be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no bends).

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12.25" Hole	13-5/8"	5M	Annular	✓	70% of working pressure
		5M	Blind Ram	✓	250 psi / 3000 psi
			Pipe Ram	✓	
			Double Ram		
			Other*		
8.75" Hole	13-5/8"	5M	Annular	✓	70% of working pressure
		5M	Blind Ram	✓	250 psi / 3000 psi
			Pipe Ram	✓	
			Double Ram		
			Other*		

Spur Energy Partners LLC will be utilizing a 5M BOP

Condition	Specify what type and where?
BH Pressure at deepest TVD	1990 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	115°F

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	Are anchors required by manufacturer?

Spur Energy Partners LLC – Halberd 27 State Com 70H

	A conventional wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. See attached schematics.
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5. BOP Break Testing Request

Spur Energy Partners LLC requests permission to adjust the BOP break testing requirements as follows:

BOP break test under the following conditions:

- After a full BOP test is conducted
- When skidding to drill the production section, where the surface casing point is shallower than the 3 Bone Spring or 10,000 TVD.
- When skidding to drill a production section that does not penetrate the 3rd Bone Spring or deeper.

If the kill line is broken prior to skid, four tests will be performed.

- 1) The void between the wellhead and the spool (this consists of two tests)
- 2) The spool between the kill lines and the choke manifold (this consists of two tests)

If the kill line is not broken prior to skid, two tests will be performed.

- 1) The void between the wellhead and the pipe rams

6. Mud Program

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Spur will use a closed mud system.

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From (ft)	To (ft)				
0	1200	Water-Based Mud	8.6-8.9	32-36	N/C
1200	9366	Water-Based Mud	8.6-8.9	32-36	N/C

What will be used to monitor the loss or gain of fluid?	PVT/PASON/Visual Monitoring
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Spur Energy Partners LLC – Halberd 27 State Com 70H

7. Logging and Testing Procedures

Logging, Coring and Testing.		
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.	
No	Logs are planned based on well control or offset log information.	
No	Drill stem test? If yes, explain	
No	Coring? If yes, explain	
Additional logs planned		Interval
No	Resistivity	
No	Density	
No	CBL	
Yes	Mud log	SCP - TD
No	PEX	

8. Drilling Conditions

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.

Hydrogen Sulfide (H ₂ S) monitors will be installed prior to drilling out the surface shoe. If H ₂ S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H ₂ S is present
Y	H ₂ S Plan attached

Total estimated cuttings volume: 871.5 bbls.

Spur Energy Partners LLC – Halberd 27 State Com 70H**9. Other facets of operation**

	Yes/No
Will more than one drilling rig be used for drilling operations? If yes, describe. Spur Energy Partners LLC. requests the option to contract a Surface Rig to drill, set surface/intermediate casing, and cement for this well. If the timing between rigs is such that Spur Energy Partners LLC. would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig.	Yes

Attachments

- ☒ Directional Plan
☒ H2S Contingency Plan
☒ Akita 57 Attachments
☒ BOP Schematics
☒ Transcend Spudder Rig Attachments

10. Company Personnel

Name	Title	Office Phone	Mobile Phone
Christopher Hollis	Drilling Manager	832-930-8629	713-380-7754
Johnny Nabors	Senior Vice President Operations	832-930-8502	281-904-8811



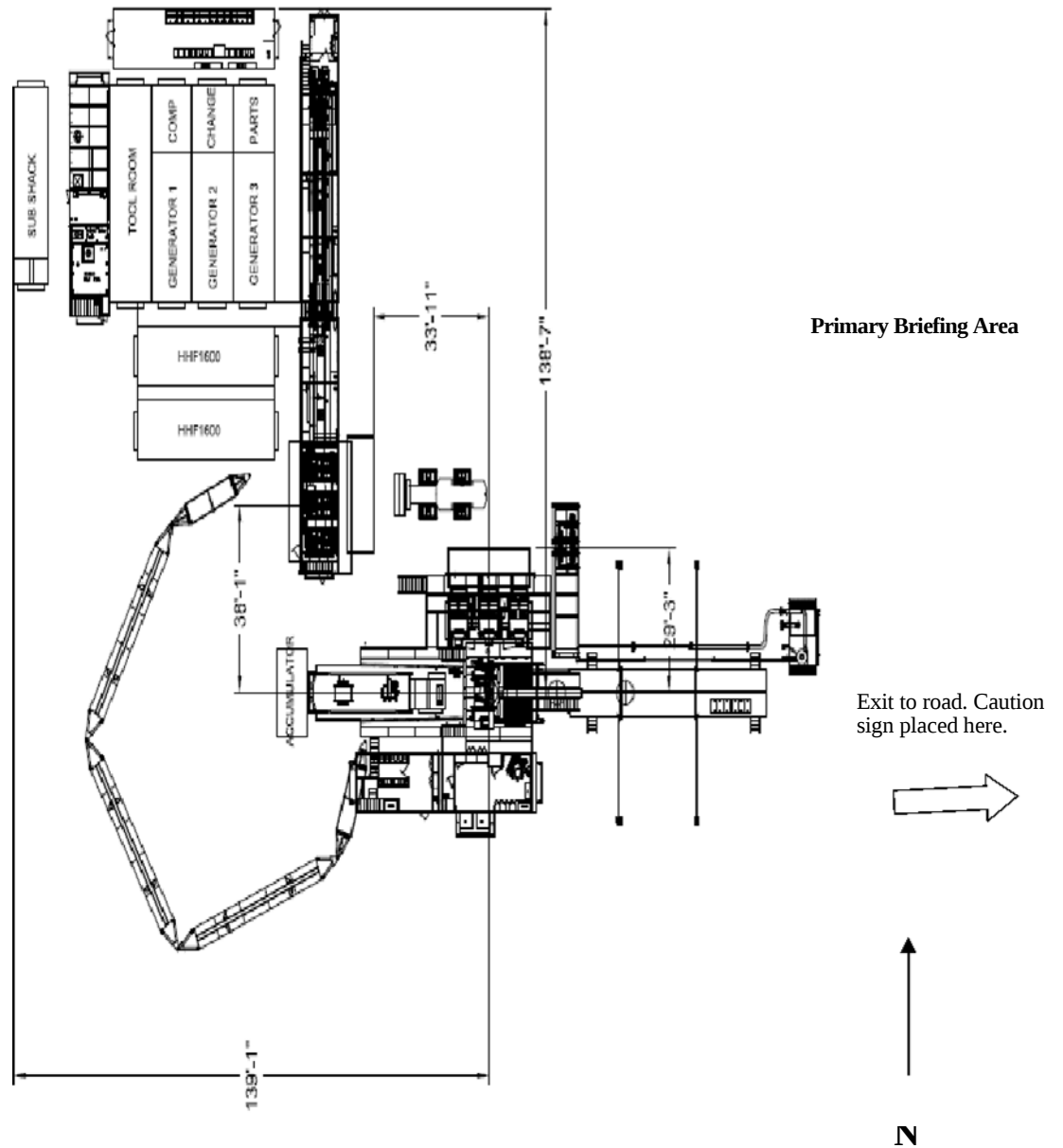
Permian Drilling Hydrogen Sulfide Drilling Operations Plan Halberd 27 State Com 70H

Open drill site. No homes or buildings are near the proposed location.

1. Escape

Personnel shall escape upwind of wellbore in the event of an emergency gas release. Escape can take place through the lease road on the Southeast side of the location. Personnel need to move to a safe distance and block the entrance to location. If the primary route is not an option due to the wind direction, then a secondary egress route should be taken.

Secondary Briefing Area



Secondary Egress

WIND: Prevailing winds are from the Southwest