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 297958

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

1. Operator Name and Address	2. OGRID Number
Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	328947
	3. API Number 30-015-48727

4. Property Code	5. Property Name	6. Well No.
325843	DARNER 9 STATE	010H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
I	8	17S	29E	I	1385	S	608	E	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
P	9	17S	29E	P	1160	S	50	E	Eddy

9. Pool Information

EMPIRE; GLORIETA-YESO, EAST	96610

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3610
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	9748	Yeso		10/19/2021
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	17.5	13.375	54.5	775	604	0
Int1	12.25	9.625	36	1925	573	0
Prod	8.75	7	32	4400	1792	0
Prod	8.75	5.5	20	9748	1792	0

Casing/Cement Program: Additional Comments

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.** Signature:		**OIL CONSERVATION DIVISION**	
Printed Name:	Electronically filed by Sarah Chapman	Approved By:	Kurt Simmons
Title:	Regulatory Director	Title:	Petroleum Specialist - A
Email Address:	schapman@spurepllc.com	Approved Date:	7/16/2021 Expiration Date: 7/16/2023
Date:	7/15/2021 Phone: 832-930-8613	Conditions of Approval Attached	

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District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-015-	96610	EMPIRE; GLORIETA-YESO, EAST

4 Property Code	5 Property Name	6 Well Number
	DARNER 9 STATE	10H

7 OGRID NO.	8 Operator Name	9 Elevation
328947	SPUR ENERGY PARTNERS LLC.	3610'

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
I	8	17S	29E		1385	SOUTH	608	EAST	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
P	9	17S	29E		1160	SOUTH	50	EAST	EDDY

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
320			

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: 671457.7 – E: 615953.7
LAT: 32.8456260° N
LONG: 104.0903706° W

FIRST TAKE POINT (FTP)
1160' FSL & 100' FWL – SEC 9
N: 671234.1 – E: 616662.1
LAT: 32.8450070° N
LONG: 104.0880655° W

LAST TAKE POINT (LTP)
1160' FSL & 100' FEL – SEC 9
N: 671262.1 – E: 621716.6
LAT: 32.8450504° N
LONG: 104.0716073° W

BOTTOM HOLE (BH)
N: 671262.3 – E: 621766.6
LAT: 32.8450508° N
LONG: 104.0714445° W

CORNER DATA
NAD 83 GRID – NM EAST

A: FOUND BRASS CAP "1914"
N: 670067.1 – E: 611279.1

B: FOUND BRASS CAP "1914"
N: 672706.4 – E: 611271.3

C: FOUND BRASS CAP "1914"
N: 675348.3 – E: 611261.3

D: FOUND BRASS CAP "1914"
N: 675350.9 – E: 613907.4

E: FOUND 1/2" REBAR W/RED PLASTIC CAP "HOWETT 19680"
N: 675352.8 – E: 616550.1

F: FOUND BRASS CAP "1914"
N: 675368.3 – E: 619178.2

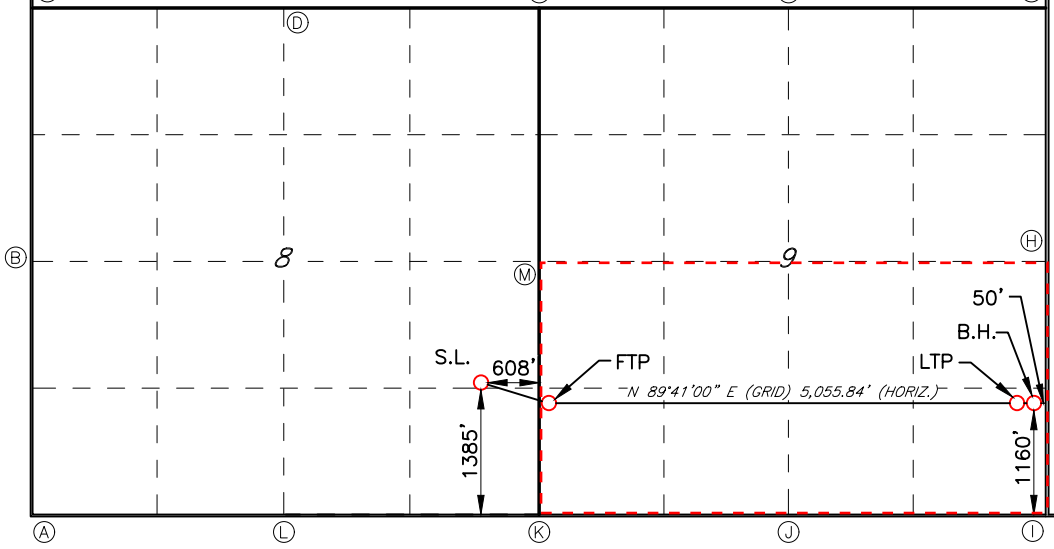
G: FOUND BRASS CAP "1914"
N: 675385.4 – E: 621807.5

H: FOUND BRASS CAP "1914"
N: 672745.1 – E: 621808.9

I: FOUND 1/2" REBAR
N: 670102.9 – E: 621822.7

J: FOUND BRASS CAP "1914"
N: 670088.2 – E: 619192.6

K: FOUND BRASS CAP "1914"
N: 670073.9 – E: 616565.6



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.

Sarah Chapman 07/02/2021
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.

03-30-2021
Date of Survey

Signature and Seal of Professional Surveyor:

ROBERT M. HOWETT NEW MEXICO 19680 PROFESSIONAL SURVEYOR

19680
Certificate Number

LS21030257

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

Form APD Conditions

Permit 297958

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
Spur Energy Partners LLC [328947] 9655 Katy Freeway Houston, TX 77024	30-015-48727
	Well: DARNER 9 STATE #010H

OCD Reviewer	Condition
ksimmons	Notify OCD 24 hours prior to casing & cement
ksimmons	Will require a File As Drilled C-102 and a Directional Survey with the C-104
ksimmons	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

Spur Energy Partners LLC – Darner 9 State 10H

1. Geologic Formations

Formation	Depth
Quaternary	0'
Rustler	205'
Top Salt	285'
Tansill	765'
Yates	875'
Seven Rivers	1150'
Queen	1715'
Penrose	1865'
Grayburg	2130'
San Andres	2430'
Glorieta	3885'
Yeso	3970'
Tubb	5265'

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

2. Casing Program

Primary Plan:

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 Collapse	SF Burst	Body SF Tension	Joint SF Tension
	From (ft)	To (ft)								
17.5	0	775	13.375	54.5	J-55	BTC	1.125	1.2	1.4	1.4
12.25	0	1925	9.625	36	J-55	BTC	1.125	1.2	1.4	1.4
8.75	0	4400	7	32	L-80	BK-HT	1.125	1.2	1.4	1.4
8.75	4400	9748	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 – Darner 9 State 10H

	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 3rd 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 2nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	N/A
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Primary Plan:

Casing String	Top (ft)	Bottom (ft)	% Excess
Surface Tail	0	775	165%
Intermediate (Lead)	0	775	100%
Intermediate (Tail)	775	1925	165%
Production (Lead)	0	3400	0%
Production (Tail)	3400	9748	50%

Casing String	# Sks	Wt. (lb/gal)	Yld (ft3/sack)	H20 (gal/sk)	500# Comp. Strength (hours)	Slurry Description
Surface Tail	604	13.2	2.32	9.92	6:59	Clas C Premium Plus Cement
Intermediate (Lead)	153	12.2	1.84	13.48	8:12	Clas C Premium Plus Cement
Intermediate (Tail)	420	13.2	2.32	9.92	6:59	Clas C Premium Plus Cement
Production (Lead)	543	11.8	2.54	15.29	N/A	Clas C Premium Plus Cement
Production (Tail)	1249	13.2	1.81	9.81	N/A	Clas C Premium Plus Cement

Spur Energy Partners LLC – Darner 9 State 10H

4. Pressure Control Equipment

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 / 5000 psi
			Pipe Ram	✓	
			Double Ram		
			Other*		
8.75" Hole	13-5/8"	5M	Annular	✓	70% of working pressure
		5M	Blind Ram	✓	250 psi / 5000 psi
			Pipe Ram	✓	
			Double Ram		
			Other*		

Spur Energy Partners LLC will be utilizing a 5M BOP Stack

Condition	Specify what type and where?
BH Pressure at deepest TVD	1933 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	114°F

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?
	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.	

5. BOP Break Testing Request

Spur Energy Partners LLC requests permission to adjust the BOP break testing requirements as per the verbal agreement reached over the phone between SPUR/BLM on September 7, 2020. A separate sundry will be sent prior to spud that reflects the pad-based break testing plan.

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	775	Water-Based Mud	8.6-8.9	32-36	N/C
450	1925	Brine	9.0-10.0	32-36	N/C
1925	9748	Brine	9.0-10.0	32-36	N/C

What will be used to monitor the loss or gain of fluid?	PVT/MD PASON/Visual Monitoring

Spur Energy Partners LLC – Darner 9 State 10H

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 (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S 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	H2S is present
Y	H2S Plan attached

Total estimated cuttings volume: 914.5 bbls**.**

Spur Energy Partners LLC – Darner 9 State 10H

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

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

Spur Energy Partners, LLC

Eddy County, NM (NAD 83 - NME)
DARNER 9 STATE
#10H

Wellbore #1

Plan: PLAN #1

Standard Planning Report

01 July, 2021

SPUR ENERGY PARTNERS

Planning Report

WELLBENDERS DIRECTIONAL SERVICES

Database:	WBDS_SQL_2	**Local Co-ordinate Reference:**	Well #10H
Company:	Spur Energy Partners, LLC	**TVD Reference:**	RKB = 20' @ 3630.00usft (AKITA 57)
Project:	Eddy County, NM (NAD 83 - NME)	**MD Reference:**	RKB = 20' @ 3630.00usft (AKITA 57)
Site:	DARNER 9 STATE	**North Reference:**	Grid
Well:	#10H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN #1		

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 DARNER 9 STATE

Site Position:		**Northing:**	671,457.70 usft	**Latitude:**	32.8456260
From:	Map	**Easting:**	615,953.70 usft	**Longitude:**	-104.0903706
Position Uncertainty:	0.00 usft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.132 °

Well #10H

Well Position	**+N/-S**	0.00 usft	**Northing:**	671,457.70 usft	**Latitude:**	32.8456260
	+E/-W	0.00 usft	**Easting:**	615,953.70 usft	**Longitude:**	-104.0903706
Position Uncertainty		0.00 usft	**Wellhead Elevation:**		**Ground Level:**	3,610.00 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	7/1/2021	6.831	60.386	47,801.15892706

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	89.68	

Plan Survey Tool Program **Date** 7/1/2021

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	9,748.25	PLAN #1 (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	
618.53	6.37	230.05	617.87	-11.36	-13.56	2.00	2.00	0.00	230.052	
3,065.56	6.37	230.05	3,049.80	-185.70	-221.72	0.00	0.00	0.00	0.000	
4,148.59	60.00	89.68	3,958.26	-226.11	253.21	6.00	4.95	-12.96	-142.441	
4,348.59	60.00	89.68	4,058.26	-225.16	426.42	0.00	0.00	0.00	0.000	
4,644.10	89.55	89.68	4,135.00	-223.60	708.40	10.00	10.00	0.00	0.000	PLAT #10H FTP: 11
9,698.83	89.55	89.68	4,174.61	-195.68	5,762.90	0.00	0.00	0.00	0.000	PLAT #10H LTP: 11
9,748.84	89.55	89.68	4,175.00	-195.40	5,812.90	0.00	0.00	0.00	0.000	PLAT #10H BHL: 11

SPUR ENERGY PARTNERS

Planning Report

WELLBENDERS DIRECTIONAL SERVICES

Database:	WBDS_SQL_2	**Local Co-ordinate Reference:**	Well #10H
Company:	Spur Energy Partners, LLC	**TVD Reference:**	RKB = 20' @ 3630.00usft (AKITA 57)
Project:	Eddy County, NM (NAD 83 - NME)	**MD Reference:**	RKB = 20' @ 3630.00usft (AKITA 57)
Site:	DARNER 9 STATE	**North Reference:**	Grid
Well:	#10H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN #1		

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
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	230.05	399.98	-1.12	-1.34	-1.34	2.00	2.00	0.00
500.00	4.00	230.05	499.84	-4.48	-5.35	-5.37	2.00	2.00	0.00
600.00	6.00	230.05	599.45	-10.08	-12.03	-12.09	2.00	2.00	0.00
618.53	6.37	230.05	617.87	-11.36	-13.56	-13.62	2.00	2.00	0.00
700.00	6.37	230.05	698.84	-17.16	-20.49	-20.59	0.00	0.00	0.00
800.00	6.37	230.05	798.22	-24.29	-29.00	-29.13	0.00	0.00	0.00
900.00	6.37	230.05	897.61	-31.41	-37.50	-37.68	0.00	0.00	0.00
1,000.00	6.37	230.05	996.99	-38.54	-46.01	-46.23	0.00	0.00	0.00
1,100.00	6.37	230.05	1,096.37	-45.66	-54.52	-54.77	0.00	0.00	0.00
1,200.00	6.37	230.05	1,195.75	-52.79	-63.02	-63.32	0.00	0.00	0.00
1,300.00	6.37	230.05	1,295.14	-59.91	-71.53	-71.86	0.00	0.00	0.00
1,400.00	6.37	230.05	1,394.52	-67.03	-80.04	-80.41	0.00	0.00	0.00
1,500.00	6.37	230.05	1,493.90	-74.16	-88.54	-88.96	0.00	0.00	0.00
1,600.00	6.37	230.05	1,593.28	-81.28	-97.05	-97.50	0.00	0.00	0.00
1,700.00	6.37	230.05	1,692.67	-88.41	-105.56	-106.05	0.00	0.00	0.00
1,800.00	6.37	230.05	1,792.05	-95.53	-114.06	-114.59	0.00	0.00	0.00
1,900.00	6.37	230.05	1,891.43	-102.66	-122.57	-123.14	0.00	0.00	0.00
2,000.00	6.37	230.05	1,990.81	-109.78	-131.07	-131.69	0.00	0.00	0.00
2,100.00	6.37	230.05	2,090.20	-116.91	-139.58	-140.23	0.00	0.00	0.00
2,200.00	6.37	230.05	2,189.58	-124.03	-148.09	-148.78	0.00	0.00	0.00
2,300.00	6.37	230.05	2,288.96	-131.15	-156.59	-157.32	0.00	0.00	0.00
2,400.00	6.37	230.05	2,388.34	-138.28	-165.10	-165.87	0.00	0.00	0.00
2,500.00	6.37	230.05	2,487.73	-145.40	-173.61	-174.42	0.00	0.00	0.00
2,600.00	6.37	230.05	2,587.11	-152.53	-182.11	-182.96	0.00	0.00	0.00
2,700.00	6.37	230.05	2,686.49	-159.65	-190.62	-191.51	0.00	0.00	0.00
2,800.00	6.37	230.05	2,785.87	-166.78	-199.13	-200.05	0.00	0.00	0.00
2,900.00	6.37	230.05	2,885.26	-173.90	-207.63	-208.60	0.00	0.00	0.00
3,000.00	6.37	230.05	2,984.64	-181.03	-216.14	-217.15	0.00	0.00	0.00
3,065.56	6.37	230.05	3,049.80	-185.70	-221.72	-222.75	0.00	0.00	0.00
3,100.00	4.90	215.13	3,084.07	-188.13	-224.03	-225.07	6.00	-4.28	-43.33
3,150.00	3.88	177.32	3,133.93	-191.56	-225.18	-226.24	6.00	-2.04	-75.63
3,200.00	4.91	139.59	3,183.79	-194.88	-223.71	-224.79	6.00	2.06	-75.45
3,250.00	7.15	120.17	3,233.52	-198.07	-219.63	-220.74	6.00	4.48	-38.85
3,300.00	9.80	110.55	3,282.97	-201.13	-212.96	-214.08	6.00	5.31	-19.24
3,350.00	12.61	105.08	3,332.01	-204.04	-203.70	-204.84	6.00	5.62	-10.93
3,400.00	15.49	101.60	3,380.51	-206.81	-191.89	-193.04	6.00	5.76	-6.96
3,450.00	18.41	99.19	3,428.34	-209.41	-177.55	-178.72	6.00	5.83	-4.81
3,500.00	21.35	97.43	3,475.35	-211.85	-160.73	-161.91	6.00	5.88	-3.53
3,550.00	24.30	96.08	3,521.43	-214.12	-141.47	-142.66	6.00	5.91	-2.71
3,600.00	27.26	95.00	3,566.45	-216.20	-119.82	-121.03	6.00	5.93	-2.15
3,650.00	30.23	94.12	3,610.28	-218.11	-95.85	-97.07	6.00	5.94	-1.76
3,700.00	33.21	93.38	3,652.81	-219.82	-69.62	-70.85	6.00	5.95	-1.47
3,750.00	36.19	92.76	3,693.91	-221.34	-41.20	-42.44	6.00	5.96	-1.25
3,800.00	39.17	92.21	3,733.48	-222.66	-10.67	-11.92	6.00	5.96	-1.09
3,850.00	42.15	91.74	3,771.40	-223.78	21.88	20.63	6.00	5.97	-0.96
3,900.00	45.14	91.31	3,807.58	-224.69	56.38	55.12	6.00	5.97	-0.85
3,950.00	48.13	90.92	3,841.91	-225.39	92.72	91.46	6.00	5.97	-0.77
4,000.00	51.11	90.57	3,874.30	-225.89	130.80	129.53	6.00	5.98	-0.70
4,050.00	54.10	90.25	3,904.66	-226.17	170.52	169.25	6.00	5.98	-0.64
4,100.00	57.09	89.95	3,932.90	-226.25	211.77	210.50	6.00	5.98	-0.60

SPUR ENERGY PARTNERS

Planning Report

WELLBENDERS DIRECTIONAL SERVICES

Database:	WBDS_SQL_2	**Local Co-ordinate Reference:**	Well #10H
Company:	Spur Energy Partners, LLC	**TVD Reference:**	RKB = 20' @ 3630.00usft (AKITA 57)
Project:	Eddy County, NM (NAD 83 - NME)	**MD Reference:**	RKB = 20' @ 3630.00usft (AKITA 57)
Site:	DARNER 9 STATE	**North Reference:**	Grid
Well:	#10H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN #1		

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)
4,148.59	60.00	89.68	3,958.26	-226.11	253.21	251.95	6.00	5.98	-0.56
4,200.00	60.00	89.68	3,983.96	-225.87	297.73	296.47	0.00	0.00	0.00
4,300.00	60.00	89.68	4,033.96	-225.39	384.34	383.07	0.00	0.00	0.00
4,348.59	60.00	89.68	4,058.26	-225.16	426.42	425.15	0.00	0.00	0.00
4,350.00	60.14	89.68	4,058.96	-225.15	427.64	426.37	10.00	10.00	0.00
4,400.00	65.14	89.68	4,081.93	-224.91	472.03	470.77	10.00	10.00	0.00
4,450.00	70.14	89.68	4,100.94	-224.65	518.25	516.99	10.00	10.00	0.00
4,500.00	75.14	89.68	4,115.86	-224.39	565.96	564.70	10.00	10.00	0.00
4,550.00	80.14	89.68	4,126.56	-224.12	614.79	613.53	10.00	10.00	0.00
4,600.00	85.14	89.68	4,132.96	-223.84	664.36	663.10	10.00	10.00	0.00
4,644.10	89.55	89.68	4,135.00	-223.60	708.40	707.14	10.00	10.00	0.00
4,700.00	89.55	89.68	4,135.44	-223.29	764.30	763.04	0.00	0.00	0.00
4,800.00	89.55	89.68	4,136.22	-222.74	864.29	863.03	0.00	0.00	0.00
4,900.00	89.55	89.68	4,137.01	-222.19	964.29	963.03	0.00	0.00	0.00
5,000.00	89.55	89.68	4,137.79	-221.63	1,064.28	1,063.03	0.00	0.00	0.00
5,100.00	89.55	89.68	4,138.57	-221.08	1,164.28	1,163.03	0.00	0.00	0.00
5,200.00	89.55	89.68	4,139.36	-220.53	1,264.27	1,263.02	0.00	0.00	0.00
5,300.00	89.55	89.68	4,140.14	-219.98	1,364.27	1,363.02	0.00	0.00	0.00
5,400.00	89.55	89.68	4,140.92	-219.42	1,464.26	1,463.02	0.00	0.00	0.00
5,500.00	89.55	89.68	4,141.71	-218.87	1,564.26	1,563.01	0.00	0.00	0.00
5,600.00	89.55	89.68	4,142.49	-218.32	1,664.26	1,663.01	0.00	0.00	0.00
5,700.00	89.55	89.68	4,143.27	-217.77	1,764.25	1,763.01	0.00	0.00	0.00
5,800.00	89.55	89.68	4,144.06	-217.21	1,864.25	1,863.00	0.00	0.00	0.00
5,900.00	89.55	89.68	4,144.84	-216.66	1,964.24	1,963.00	0.00	0.00	0.00
6,000.00	89.55	89.68	4,145.62	-216.11	2,064.24	2,063.00	0.00	0.00	0.00
6,100.00	89.55	89.68	4,146.41	-215.56	2,164.23	2,162.99	0.00	0.00	0.00
6,200.00	89.55	89.68	4,147.19	-215.00	2,264.23	2,262.99	0.00	0.00	0.00
6,300.00	89.55	89.68	4,147.98	-214.45	2,364.22	2,362.99	0.00	0.00	0.00
6,400.00	89.55	89.68	4,148.76	-213.90	2,464.22	2,462.99	0.00	0.00	0.00
6,500.00	89.55	89.68	4,149.54	-213.35	2,564.21	2,562.98	0.00	0.00	0.00
6,600.00	89.55	89.68	4,150.33	-212.80	2,664.21	2,662.98	0.00	0.00	0.00
6,700.00	89.55	89.68	4,151.11	-212.24	2,764.21	2,762.98	0.00	0.00	0.00
6,800.00	89.55	89.68	4,151.89	-211.69	2,864.20	2,862.97	0.00	0.00	0.00
6,900.00	89.55	89.68	4,152.68	-211.14	2,964.20	2,962.97	0.00	0.00	0.00
7,000.00	89.55	89.68	4,153.46	-210.59	3,064.19	3,062.97	0.00	0.00	0.00
7,100.00	89.55	89.68	4,154.24	-210.03	3,164.19	3,162.96	0.00	0.00	0.00
7,200.00	89.55	89.68	4,155.03	-209.48	3,264.18	3,262.96	0.00	0.00	0.00
7,300.00	89.55	89.68	4,155.81	-208.93	3,364.18	3,362.96	0.00	0.00	0.00
7,400.00	89.55	89.68	4,156.59	-208.38	3,464.17	3,462.96	0.00	0.00	0.00
7,500.00	89.55	89.68	4,157.38	-207.82	3,564.17	3,562.95	0.00	0.00	0.00
7,600.00	89.55	89.68	4,158.16	-207.27	3,664.16	3,662.95	0.00	0.00	0.00
7,700.00	89.55	89.68	4,158.95	-206.72	3,764.16	3,762.95	0.00	0.00	0.00
7,800.00	89.55	89.68	4,159.73	-206.17	3,864.15	3,862.94	0.00	0.00	0.00
7,900.00	89.55	89.68	4,160.51	-205.61	3,964.15	3,962.94	0.00	0.00	0.00
8,000.00	89.55	89.68	4,161.30	-205.06	4,064.15	4,062.94	0.00	0.00	0.00
8,100.00	89.55	89.68	4,162.08	-204.51	4,164.14	4,162.93	0.00	0.00	0.00
8,200.00	89.55	89.68	4,162.86	-203.96	4,264.14	4,262.93	0.00	0.00	0.00
8,300.00	89.55	89.68	4,163.65	-203.40	4,364.13	4,362.93	0.00	0.00	0.00
8,400.00	89.55	89.68	4,164.43	-202.85	4,464.13	4,462.92	0.00	0.00	0.00
8,500.00	89.55	89.68	4,165.21	-202.30	4,564.12	4,562.92	0.00	0.00	0.00
8,600.00	89.55	89.68	4,166.00	-201.75	4,664.12	4,662.92	0.00	0.00	0.00
8,700.00	89.55	89.68	4,166.78	-201.19	4,764.11	4,762.92	0.00	0.00	0.00
8,800.00	89.55	89.68	4,167.57	-200.64	4,864.11	4,862.91	0.00	0.00	0.00
8,900.00	89.55	89.68	4,168.35	-200.09	4,964.10	4,962.91	0.00	0.00	0.00

Planning Report

Database:	WBDS_SQL_2	**Local Co-ordinate Reference:**	Well #10H
Company:	Spur Energy Partners, LLC	**TVD Reference:**	RKB = 20' @ 3630.00usft (AKITA 57)
Project:	Eddy County, NM (NAD 83 - NME)	**MD Reference:**	RKB = 20' @ 3630.00usft (AKITA 57)
Site:	DARNER 9 STATE	**North Reference:**	Grid
Well:	#10H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN #1		

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)
9,000.00	89.55	89.68	4,169.13	-199.54	5,064.10	5,062.91	0.00	0.00	0.00
9,100.00	89.55	89.68	4,169.92	-198.98	5,164.09	5,162.90	0.00	0.00	0.00
9,200.00	89.55	89.68	4,170.70	-198.43	5,264.09	5,262.90	0.00	0.00	0.00
9,300.00	89.55	89.68	4,171.48	-197.88	5,364.09	5,362.90	0.00	0.00	0.00
9,400.00	89.55	89.68	4,172.27	-197.33	5,464.08	5,462.89	0.00	0.00	0.00
9,500.00	89.55	89.68	4,173.05	-196.77	5,564.08	5,562.89	0.00	0.00	0.00
9,600.00	89.55	89.68	4,173.83	-196.22	5,664.07	5,662.89	0.00	0.00	0.00
9,698.83	89.55	89.68	4,174.61	-195.68	5,762.90	5,761.72	0.00	0.00	0.00
9,700.00	89.55	89.68	4,174.62	-195.67	5,764.07	5,762.88	0.00	0.00	0.00
9,748.84	89.55	89.68	4,175.00	-195.40	5,812.90	5,811.72	0.00	0.00	0.00

Design Targets

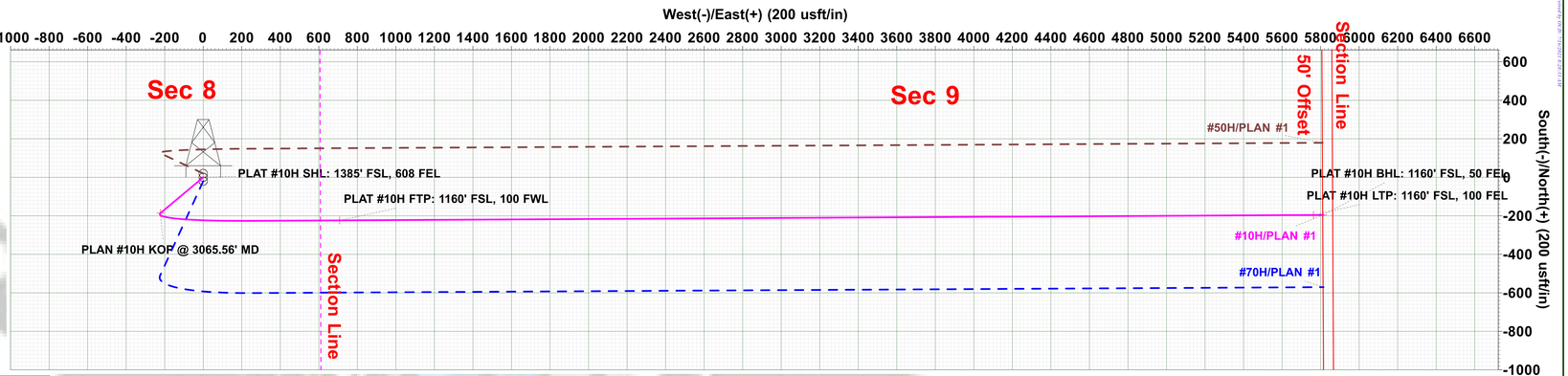
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PLAT #10H SHL: 138 - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	671,457.70	615,953.70	32.8456260	-104.0903706
PLAN #10H KOP @ 3 - plan hits target center - Point	0.00	0.01	3,049.80	-185.70	-221.72	671,272.00	615,731.99	32.8451170	-104.0910940
PLAT #10H FTP: 116(- plan hits target center - Point	0.00	0.00	4,135.00	-223.60	708.40	671,234.10	616,662.10	32.8450069	-104.0880657
PLAT #10H LTP: 116(- plan misses target center by 0.08usft at 9698.83usft MD (4174.61 TVD, -195.68 N, 5762.90 E) - Point	0.00	0.00	4,174.61	-195.60	5,762.90	671,262.10	621,716.60	32.8450506	-104.0716074
PLAT #10H BHL: 116(- plan hits target center - Point	0.00	0.00	4,175.00	-195.40	5,812.90	671,262.30	621,766.60	32.8450508	-104.0714446

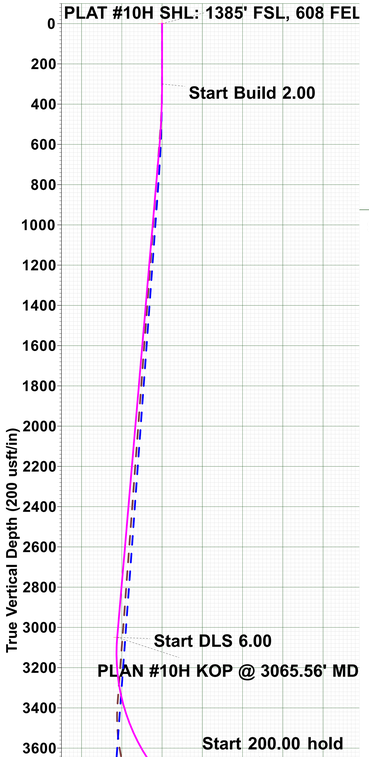
Company: Spur Energy Partners, LLC
Project: Eddy County, NM (NAD 83 - NME)
Site: DARNER 9 STATE
Well: #10H
Wellbore: Wellbore #1
Rig: AKITA 57
Design: PLAN #1 / 9:51, July 01 2021

WELLBENDERS DIRECTIONAL SERVICES LLC

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PLAT #10H SHL: 1385' FSL, 608 FEL	0.00	0.00	0.00	671457.70	615953.70	32.8456260	-104.0903706
PLAN #10H KOP @ 3065.56' MD	3049.80	-185.70	-221.72	671272.00	615731.98	32.8451170	-104.0910940
PLAT #10H FTP: 1160' FSL, 100 FWL	4135.00	-223.60	708.40	671234.10	616662.10	32.8450069	-104.0880657
PLAT #10H LTP: 1160' FSL, 100 FEL	4174.61	-195.60	5762.90	671262.10	621716.60	32.8450505	-104.0716074
PLAT #10H BHL: 1160' FSL, 50 FEL	4175.00	-195.40	5812.90	671262.30	621766.60	32.8450507	-104.0714446





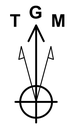
WELL DETAILS: #10H

RKB = 20' @ 3630.00usft (AKITA 57)
3610.00

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.00	0.00	671457.70	615953.70	32.8456260	-104.0903706

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.000	0.00	
3	618.53	6.37	230.05	617.87	-11.36	-13.56	2.00	230.052	-13.62	
4	3065.56	6.37	230.05	3049.80	-185.70	-221.72	0.00	0.000	-222.75	
5	4148.59	60.00	89.68	3958.26	-226.11	253.21	6.00	-142.441	251.95	
6	4348.59	60.00	89.68	4058.26	-225.16	426.42	0.00	0.000	425.15	
7	4644.10	89.55	89.68	4135.00	-223.60	708.40	10.00	0.000	707.14	PLAT #10H FTP: 1160' FSL, 100 FWL
8	9698.83	89.55	89.68	4174.61	-195.68	5762.90	0.00	0.000	5761.72	PLAT #10H LTP: 1160' FSL, 100 FEL
9	9748.84	89.55	89.68	4175.00	-195.40	5812.90	0.00	0.000	5811.72	PLAT #10H BHL: 1160' FSL, 50 FEL



Azimuths to Grid North
True North: -0.13°
Magnetic North: 6.70°

Magnetic Field
Strength: 47801.2snT
Dip Angle: 60.39°
Date: 7/1/2021
Model: IGRF2020

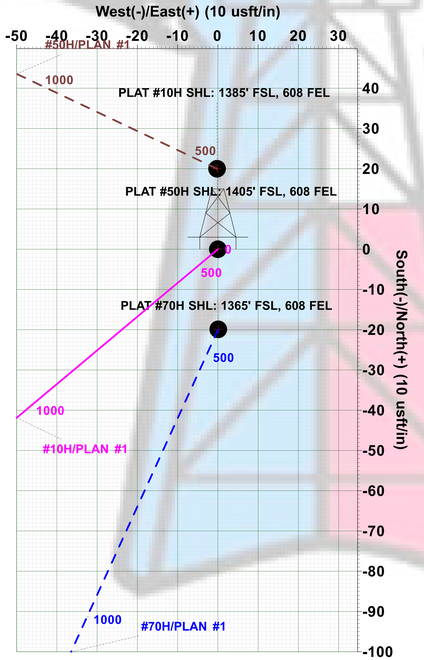
CORRECTION REFERENCE DATA:

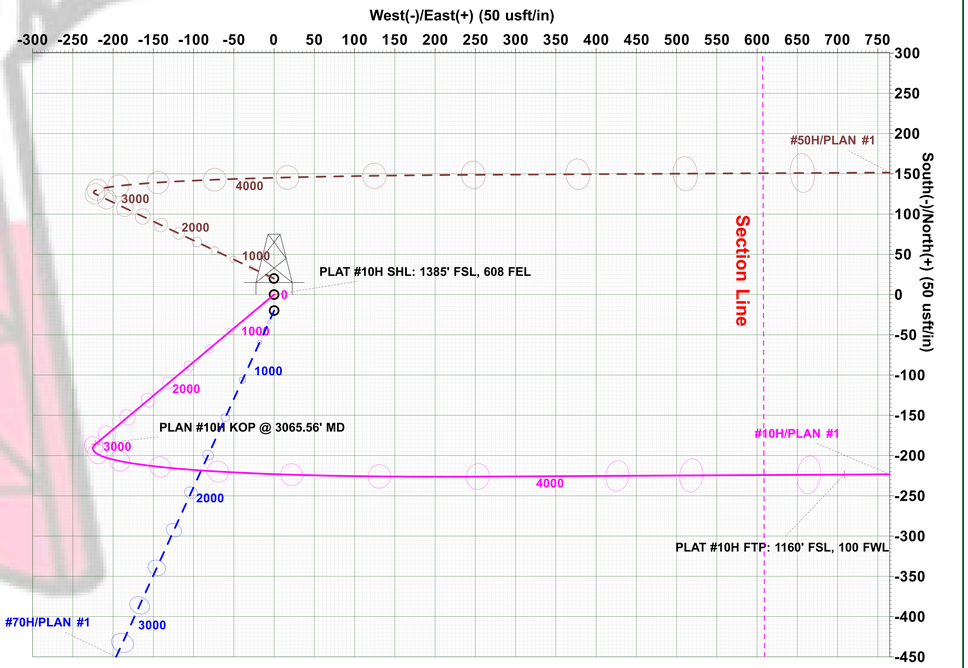
To convert a Magnetic Direction to a Grid Direction, Add 6.699°
To convert a True Direction to a Grid Direction, Subtract 0.132°
To convert a Magnetic Direction to a True Direction, Add 6.831° East
Magnetic Declination: 6.831°
Grid Convergence: 0.132° West
Magnetic Dip Angle: 60.386°
Magnetic Field Strength: 47801.15892706nT

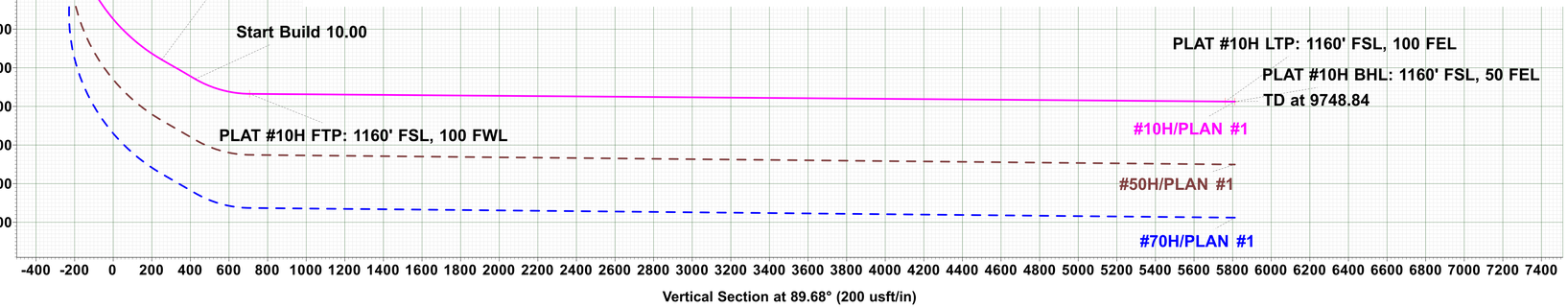
PROJECT DETAILS: Eddy County, NM (NAD 83 - NME)

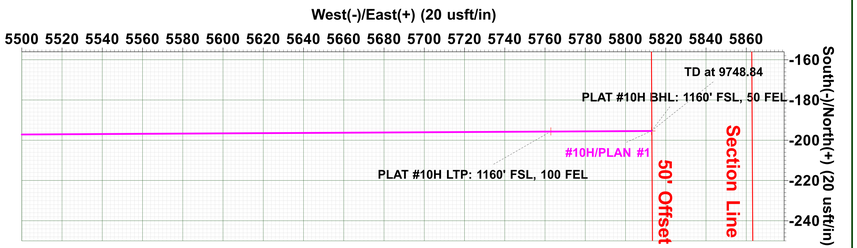
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

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









Plan: PLAN #1 (#10H/Wellbore #1) AKITA 57

Created By: Matthew May Date: 9:51, July 01 2021

Spur Energy Partners, LLC

Eddy County, NM (NAD 83 - NME)
DARNER 9 STATE
#10H

Wellbore #1
PLAN #1

Anticollision Report

01 July, 2021

SPUR ENERGY PARTNERS

Anticollision Report

WELLBENDERS DIRECTIONAL SERVICES

Company:	Spur Energy Partners, LLC	**Local Co-ordinate Reference:**	Well #10H
Project:	Eddy County, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3630.00usft (AKITA 57)
Reference Site:	DARNER 9 STATE	**MD Reference:**	RKB = 20' @ 3630.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	#10H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	WBDS_SQL_2
Reference Design:	PLAN #1	**Offset TVD Reference:**	Reference Datum

Reference PLAN #1

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum separation factor of 20.00	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 7/1/2021

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	9,748.25	PLAN #1 (Wellbore #1)	MWD+IGRF	OWSG MWD + IGRF or WMM

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
DARNER 9 STATE						
#50H - Wellbore #1 - PLAN #1	300.00	299.00	20.00	18.28	11.648	CC, ES
#50H - Wellbore #1 - PLAN #1	9,748.84	10,051.64	496.81	256.21	2.065	SF
#70H - Wellbore #1 - PLAN #1	300.00	299.00	19.90	18.18	11.590	CC
#70H - Wellbore #1 - PLAN #1	400.00	398.37	20.34	17.93	8.454	ES
#70H - Wellbore #1 - PLAN #1	9,748.84	10,367.84	708.32	527.92	3.926	SF

Offset Design DARNER 9 STATE - #50H - Wellbore #1 - PLAN #1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IGRF — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
200.00	200.00	201.00	200.00	0.50	0.51	-0.573	20.00	-0.20	20.00	18.99	1.01	19.856	
300.00	300.00	299.00	300.00	0.86	0.86	-0.573	20.00	-0.20	20.00	18.28	1.72	11.648	CC, ES
400.00	399.98	398.66	399.65	1.21	1.21	128.864	20.73	-1.74	21.85	19.44	2.42	9.037	
500.00	499.84	498.12	498.96	1.55	1.57	127.606	22.93	-6.39	27.44	24.32	3.12	8.786	
600.00	599.45	602.48	598.05	1.92	1.95	127.189	26.33	-13.57	36.46	32.59	3.87	9.423	
700.00	698.84	703.05	697.14	2.30	2.33	128.988	29.84	-20.99	47.03	42.42	4.62	10.186	
800.00	798.22	803.62	796.23	2.70	2.71	130.192	33.35	-28.41	57.67	52.30	5.37	10.737	
900.00	897.61	904.19	895.31	3.10	3.10	131.020	36.86	-35.82	68.33	62.20	6.13	11.144	
1,000.00	996.99	1,004.77	994.40	3.50	3.48	131.625	40.37	-43.24	78.99	72.10	6.90	11.456	
1,100.00	1,096.37	1,105.34	1,093.49	3.91	3.87	132.086	43.88	-50.66	89.67	82.00	7.66	11.702	
1,200.00	1,195.75	1,205.91	1,192.58	4.31	4.26	132.449	47.39	-58.08	100.34	91.91	8.43	11.901	
1,300.00	1,295.14	1,306.49	1,291.66	4.72	4.65	132.742	50.90	-65.49	111.03	101.82	9.20	12.065	
1,400.00	1,394.52	1,407.06	1,390.75	5.13	5.04	132.984	54.41	-72.91	121.71	111.73	9.97	12.202	
1,500.00	1,493.90	1,507.63	1,489.84	5.55	5.43	133.187	57.92	-80.33	132.39	121.65	10.75	12.319	
1,600.00	1,593.28	1,608.21	1,588.92	5.96	5.82	133.359	61.43	-87.75	143.08	131.56	11.52	12.420	
1,700.00	1,692.67	1,708.78	1,688.01	6.37	6.21	133.507	64.94	-95.16	153.77	141.47	12.29	12.507	
1,800.00	1,792.05	1,809.35	1,787.10	6.78	6.60	133.636	68.45	-102.58	164.45	151.39	13.07	12.584	
1,900.00	1,891.43	1,909.93	1,886.19	7.20	6.99	133.750	71.96	-110.00	175.14	161.30	13.84	12.652	
2,000.00	1,990.81	1,989.50	1,985.27	7.61	7.29	133.850	75.47	-117.42	185.83	171.30	14.54	12.783	
2,100.00	2,090.20	2,088.93	2,084.36	8.02	7.68	133.940	78.98	-124.83	196.52	181.21	15.31	12.837	
2,200.00	2,189.58	2,188.35	2,183.45	8.44	8.07	134.020	82.49	-132.25	207.21	191.13	16.08	12.886	
2,300.00	2,288.96	2,287.78	2,282.54	8.85	8.45	134.092	86.00	-139.67	217.90	201.05	16.85	12.931	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

SPUR ENERGY PARTNERS

Anticollision Report

WELLBENDERS DIRECTIONAL SERVICES

Company:	Spur Energy Partners, LLC	**Local Co-ordinate Reference:**	Well #10H
Project:	Eddy County, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3630.00usft (AKITA 57)
Reference Site:	DARNER 9 STATE	**MD Reference:**	RKB = 20' @ 3630.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	#10H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	WBDS_SQL_2
Reference Design:	PLAN #1	**Offset TVD Reference:**	Reference Datum

Offset Design DARNER 9 STATE - #50H - Wellbore #1 - PLAN #1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IGRF — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,400.00	2,388.34	2,387.21	2,381.62	9.27	8.84	134.158	89.51	-147.09	228.59	210.97	17.62	12.971	
2,500.00	2,487.73	2,486.63	2,480.71	9.68	9.23	134.217	93.02	-154.50	239.29	220.89	18.40	13.008	
2,600.00	2,587.11	2,586.06	2,579.80	10.10	9.61	134.272	96.53	-161.92	249.98	230.81	19.17	13.042	
2,700.00	2,686.49	2,685.49	2,678.89	10.51	10.00	134.322	100.04	-169.34	260.67	240.73	19.94	13.073	
2,800.00	2,785.87	2,784.91	2,777.97	10.93	10.38	134.368	103.55	-176.76	271.36	250.65	20.71	13.102	
2,900.00	2,885.26	2,884.34	2,877.06	11.34	10.77	134.411	107.06	-184.17	282.05	260.57	21.48	13.129	
3,000.00	2,984.64	2,983.77	2,976.15	11.76	11.16	134.450	110.56	-191.59	292.75	270.49	22.26	13.153	
3,100.00	3,084.07	3,083.19	3,075.24	12.17	11.54	149.437	114.07	-199.01	303.36	280.34	23.03	13.175	
3,200.00	3,183.79	3,182.32	3,174.02	12.51	11.93	-136.211	117.57	-206.40	313.09	289.33	23.76	13.180	
3,300.00	3,282.97	3,280.13	3,271.50	12.79	12.31	-110.074	121.03	-213.70	322.36	297.93	24.43	13.196	
3,400.00	3,380.51	3,375.57	3,366.62	13.01	12.68	-105.402	124.40	-220.82	332.75	307.71	25.05	13.285	
3,500.00	3,475.35	3,474.04	3,464.94	13.20	13.03	-106.218	127.82	-224.04	345.68	320.06	25.62	13.493	
3,600.00	3,566.45	3,576.90	3,567.42	13.36	13.33	-108.514	131.23	-216.63	360.67	334.56	26.11	13.813	
3,700.00	3,652.81	3,684.26	3,672.89	13.51	13.58	-111.307	134.58	-197.19	377.19	350.65	26.54	14.212	
3,800.00	3,733.48	3,796.58	3,780.18	13.66	13.81	-114.214	137.79	-164.31	394.60	367.68	26.92	14.656	
3,900.00	3,807.58	3,914.31	3,887.67	13.95	14.04	-117.058	140.80	-116.59	412.21	384.92	27.29	15.103	
4,000.00	3,874.30	4,037.78	3,993.22	14.69	14.34	-119.753	143.52	-52.73	429.28	401.58	27.70	15.496	
4,100.00	3,932.90	4,167.20	4,094.04	15.67	14.86	-122.249	145.82	28.22	445.07	416.82	28.25	15.754	
4,200.00	3,983.96	4,302.87	4,186.99	16.90	15.75	-124.800	147.60	126.88	458.14	429.03	29.11	15.740	
4,300.00	4,033.96	4,444.54	4,268.12	18.30	17.11	-126.012	148.73	242.85	463.48	432.86	30.63	15.133	
4,400.00	4,081.93	4,548.13	4,319.98	19.85	18.41	-126.139	149.23	332.52	464.87	432.07	32.81	14.170	
4,500.00	4,115.86	4,646.44	4,369.14	21.64	19.77	-126.981	149.70	417.66	475.48	440.69	34.79	13.666	
4,600.00	4,132.96	4,844.14	4,440.01	23.61	23.10	-129.689	150.71	601.18	488.43	450.97	37.46	13.038	
4,700.00	4,135.44	5,002.81	4,451.51	25.69	26.24	-130.135	151.59	759.13	490.37	449.15	41.22	11.897	
4,800.00	4,136.22	5,102.81	4,452.49	27.86	28.35	-130.152	152.14	859.12	490.49	445.93	44.56	11.007	
4,900.00	4,137.01	5,202.81	4,453.47	30.10	30.54	-130.170	152.69	959.12	490.62	442.59	48.03	10.215	
5,000.00	4,137.79	5,302.81	4,454.45	32.40	32.80	-130.187	153.24	1,059.11	490.75	439.15	51.60	9.511	
5,100.00	4,138.57	5,402.81	4,455.43	34.75	35.11	-130.205	153.80	1,159.10	490.87	435.63	55.24	8.886	
5,200.00	4,139.36	5,502.81	4,456.41	37.14	37.47	-130.222	154.35	1,259.10	491.00	432.05	58.95	8.329	
5,300.00	4,140.14	5,602.81	4,457.38	39.56	39.85	-130.240	154.90	1,359.09	491.13	428.42	62.71	7.832	
5,400.00	4,140.92	5,702.81	4,458.36	42.01	42.27	-130.257	155.45	1,459.08	491.25	424.74	66.51	7.386	
5,500.00	4,141.71	5,802.81	4,459.34	44.48	44.72	-130.274	156.01	1,559.08	491.38	421.03	70.35	6.985	
5,600.00	4,142.49	5,902.81	4,460.32	46.96	47.18	-130.292	156.56	1,659.07	491.51	417.28	74.22	6.622	
5,700.00	4,143.27	6,002.81	4,461.30	49.47	49.66	-130.309	157.11	1,759.06	491.63	413.52	78.12	6.294	
5,800.00	4,144.06	6,102.81	4,462.28	51.98	52.16	-130.327	157.66	1,859.06	491.76	409.73	82.03	5.995	
5,900.00	4,144.84	6,202.81	4,463.26	54.51	54.67	-130.344	158.22	1,959.05	491.89	405.92	85.96	5.722	
6,000.00	4,145.62	6,302.81	4,464.24	57.05	57.20	-130.362	158.77	2,059.04	492.01	402.10	89.91	5.472	
6,100.00	4,146.41	6,402.81	4,465.22	59.59	59.73	-130.379	159.32	2,159.04	492.14	398.26	93.88	5.242	
6,200.00	4,147.19	6,502.81	4,466.20	62.14	62.27	-130.396	159.87	2,259.03	492.27	394.42	97.85	5.031	
6,300.00	4,147.98	6,602.81	4,467.18	64.71	64.82	-130.414	160.43	2,359.02	492.40	390.56	101.83	4.835	
6,400.00	4,148.76	6,702.81	4,468.16	67.27	67.38	-130.431	160.98	2,459.02	492.52	386.70	105.83	4.654	
6,500.00	4,149.54	6,802.81	4,469.14	69.84	69.94	-130.448	161.53	2,559.01	492.65	382.82	109.83	4.486	
6,600.00	4,150.33	6,902.81	4,470.12	72.42	72.50	-130.466	162.08	2,659.01	492.78	378.95	113.83	4.329	
6,700.00	4,151.11	7,002.81	4,471.10	75.00	75.08	-130.483	162.64	2,759.00	492.90	375.06	117.84	4.183	
6,800.00	4,151.89	7,102.81	4,472.08	77.59	77.65	-130.500	163.19	2,858.99	493.03	371.17	121.86	4.046	
6,900.00	4,152.68	7,202.81	4,473.06	80.17	80.24	-130.518	163.74	2,958.99	493.16	367.28	125.88	3.918	
7,000.00	4,153.46	7,302.81	4,474.04	82.77	82.82	-130.535	164.29	3,058.98	493.29	363.38	129.90	3.797	
7,100.00	4,154.24	7,402.81	4,475.02	85.36	85.41	-130.552	164.85	3,158.97	493.41	359.48	133.93	3.684	
7,200.00	4,155.03	7,502.81	4,476.00	87.96	88.00	-130.570	165.40	3,258.97	493.54	355.58	137.96	3.577	
7,300.00	4,155.81	7,602.81	4,476.98	90.56	90.59	-130.587	165.95	3,358.96	493.67	351.67	142.00	3.477	
7,400.00	4,156.59	7,702.81	4,477.96	93.16	93.19	-130.604	166.50	3,458.95	493.80	347.77	146.03	3.381	
7,500.00	4,157.38	7,802.81	4,478.94	95.76	95.79	-130.621	167.06	3,558.95	493.92	343.86	150.07	3.291	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

SPUR ENERGY PARTNERS

Anticollision Report

WELLBENDERS DIRECTIONAL SERVICES

Company:	Spur Energy Partners, LLC	**Local Co-ordinate Reference:**	Well #10H
Project:	Eddy County, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3630.00usft (AKITA 57)
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Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	WBDS_SQL_2
Reference Design:	PLAN #1	**Offset TVD Reference:**	Reference Datum

Offset Design DARNER 9 STATE - #50H - Wellbore #1 - PLAN #1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IGRF — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,600.00	4,158.16	7,902.81	4,479.92	98.37	98.39	-130.639	167.61	3,658.94	494.05	339.95	154.10	3.206	
7,700.00	4,158.95	8,002.81	4,480.90	100.97	100.99	-130.656	168.16	3,758.93	494.18	336.04	158.14	3.125	
7,800.00	4,159.73	8,102.81	4,481.88	103.58	103.59	-130.673	168.71	3,858.93	494.31	332.13	162.18	3.048	
7,900.00	4,160.51	8,202.81	4,482.86	106.19	106.20	-130.690	169.27	3,958.92	494.44	328.21	166.22	2.975	
8,000.00	4,161.30	8,302.81	4,483.83	108.80	108.81	-130.708	169.82	4,058.91	494.56	324.30	170.26	2.905	
8,100.00	4,162.08	8,402.81	4,484.81	111.42	111.42	-130.725	170.37	4,158.91	494.69	320.39	174.30	2.838	
8,200.00	4,162.86	8,502.81	4,485.79	114.03	114.03	-130.742	170.92	4,258.90	494.82	316.47	178.34	2.775	
8,300.00	4,163.65	8,602.81	4,486.77	116.65	116.64	-130.759	171.48	4,358.89	494.95	312.56	182.39	2.714	
8,400.00	4,164.43	8,702.81	4,487.75	119.26	119.25	-130.776	172.03	4,458.89	495.08	308.65	186.43	2.656	
8,500.00	4,165.21	8,802.81	4,488.73	121.88	121.87	-130.793	172.58	4,558.88	495.20	304.74	190.47	2.600	
8,600.00	4,166.00	8,902.81	4,489.71	124.50	124.48	-130.811	173.13	4,658.87	495.33	300.82	194.51	2.547	
8,700.00	4,166.78	9,002.81	4,490.69	127.12	127.10	-130.828	173.69	4,758.87	495.46	296.91	198.55	2.495	
8,800.00	4,167.57	9,102.81	4,491.67	129.74	129.71	-130.845	174.24	4,858.86	495.59	293.00	202.59	2.446	
8,900.00	4,168.35	9,202.81	4,492.65	132.36	132.33	-130.862	174.79	4,958.86	495.72	289.09	206.63	2.399	
9,000.00	4,169.13	9,302.80	4,493.63	134.98	134.95	-130.879	175.34	5,058.85	495.85	285.18	210.67	2.354	
9,100.00	4,169.92	9,402.80	4,494.61	137.60	137.57	-130.896	175.90	5,158.84	495.97	281.27	214.71	2.310	
9,200.00	4,170.70	9,502.80	4,495.59	140.22	140.19	-130.913	176.45	5,258.84	496.10	277.36	218.75	2.268	
9,300.00	4,171.48	9,602.80	4,496.57	142.84	142.81	-130.931	177.00	5,358.83	496.23	273.45	222.78	2.227	
9,400.00	4,172.27	9,702.80	4,497.55	145.47	145.43	-130.948	177.55	5,458.82	496.36	269.54	226.82	2.188	
9,500.00	4,173.05	9,802.80	4,498.53	148.09	148.05	-130.965	178.11	5,558.82	496.49	265.63	230.85	2.151	
9,600.00	4,173.83	9,902.80	4,499.51	150.72	150.68	-130.982	178.66	5,658.81	496.62	261.73	234.89	2.114	
9,700.00	4,174.62	10,007.20	4,500.49	153.34	153.42	-130.999	179.21	5,758.80	496.75	257.73	239.01	2.078	
9,748.84	4,175.00	10,051.64	4,500.97	154.26	154.58	-131.007	179.48	5,807.64	496.81	256.21	240.60	2.065 SF	

SPUR ENERGY PARTNERS

Anticollision Report

WELLBENDERS DIRECTIONAL SERVICES

Company:	Spur Energy Partners, LLC	**Local Co-ordinate Reference:**	Well #10H
Project:	Eddy County, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3630.00usft (AKITA 57)
Reference Site:	DARNER 9 STATE	**MD Reference:**	RKB = 20' @ 3630.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	#10H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	WBDS_SQL_2
Reference Design:	PLAN #1	**Offset TVD Reference:**	Reference Datum

Offset Design DARNER 9 STATE - #70H - Wellbore #1 - PLAN #1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IGRF — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
200.00	200.00	201.00	200.00	0.50	0.51	179.712	-19.90	0.10	19.90	18.89	1.01	19.756	
300.00	300.00	299.00	300.00	0.86	0.86	179.712	-19.90	0.10	19.90	18.18	1.72	11.590	CC
400.00	399.98	398.37	399.36	1.21	1.20	-52.098	-21.44	-0.60	20.34	17.93	2.41	8.454	ES
500.00	499.84	497.71	498.55	1.55	1.54	-56.824	-26.10	-2.73	21.82	18.73	3.09	7.064	
600.00	599.45	596.98	597.45	1.92	1.90	-63.305	-33.89	-6.28	24.58	20.78	3.80	6.469	
700.00	698.84	696.14	695.88	2.30	2.28	-68.072	-44.78	-11.25	29.27	24.73	4.54	6.441	
800.00	798.22	795.07	793.61	2.70	2.69	-67.721	-58.72	-17.61	36.56	31.25	5.31	6.889	
900.00	897.61	905.30	891.77	3.10	3.18	-66.098	-74.21	-24.68	45.06	38.93	6.13	7.350	
1,000.00	996.99	1,005.67	989.94	3.50	3.63	-64.991	-89.70	-31.75	53.58	46.66	6.92	7.741	
1,100.00	1,096.37	1,093.96	1,088.11	3.91	4.04	-64.188	-105.20	-38.82	62.12	54.45	7.67	8.100	
1,200.00	1,195.75	1,206.40	1,186.27	4.31	4.56	-63.579	-120.69	-45.89	70.67	62.15	8.52	8.295	
1,300.00	1,295.14	1,293.23	1,284.44	4.72	4.97	-63.101	-136.18	-52.96	79.22	69.96	9.27	8.548	
1,400.00	1,394.52	1,407.14	1,382.60	5.13	5.50	-62.717	-151.67	-60.03	87.78	77.65	10.13	8.667	
1,500.00	1,493.90	1,507.51	1,480.77	5.55	5.98	-62.401	-167.17	-67.10	96.35	85.41	10.94	8.810	
1,600.00	1,593.28	1,607.88	1,578.93	5.96	6.45	-62.136	-182.66	-74.17	104.91	93.17	11.74	8.933	
1,700.00	1,692.67	1,708.25	1,677.10	6.37	6.93	-61.912	-198.15	-81.24	113.48	100.92	12.55	9.039	
1,800.00	1,792.05	1,808.62	1,775.26	6.78	7.41	-61.719	-213.64	-88.31	122.05	108.68	13.36	9.132	
1,900.00	1,891.43	1,891.02	1,873.43	7.20	7.80	-61.551	-229.14	-95.38	130.62	116.51	14.10	9.263	
2,000.00	1,990.81	2,009.35	1,971.59	7.61	8.37	-61.404	-244.63	-102.45	139.19	124.20	14.99	9.287	
2,100.00	2,090.20	2,109.72	2,069.76	8.02	8.85	-61.274	-260.12	-109.52	147.76	131.96	15.80	9.352	
2,200.00	2,189.58	2,189.91	2,167.92	8.44	9.23	-61.159	-275.61	-116.59	156.33	139.80	16.53	9.459	
2,300.00	2,288.96	2,289.54	2,266.09	8.85	9.71	-61.055	-291.11	-123.66	164.90	147.56	17.34	9.511	
2,400.00	2,388.34	2,389.17	2,364.25	9.27	10.19	-60.961	-306.60	-130.73	173.47	155.33	18.15	9.559	
2,500.00	2,487.73	2,488.80	2,462.42	9.68	10.67	-60.877	-322.09	-137.80	182.05	163.09	18.96	9.603	
2,600.00	2,587.11	2,588.44	2,560.59	10.10	11.15	-60.800	-337.58	-144.87	190.62	170.85	19.77	9.643	
2,700.00	2,686.49	2,688.07	2,658.75	10.51	11.62	-60.729	-353.08	-151.94	199.19	178.62	20.58	9.680	
2,800.00	2,785.87	2,787.70	2,756.92	10.93	12.10	-60.665	-368.57	-159.01	207.77	186.38	21.39	9.714	
2,900.00	2,885.26	2,887.33	2,855.08	11.34	12.58	-60.605	-384.06	-166.08	216.34	194.14	22.20	9.745	
3,000.00	2,984.64	2,986.96	2,953.25	11.76	13.06	-60.550	-399.55	-173.15	224.92	201.91	23.01	9.774	
3,100.00	3,084.07	3,086.59	3,051.41	12.17	13.54	-45.668	-415.05	-180.22	233.41	209.60	23.81	9.803	
3,200.00	3,183.79	3,185.88	3,149.24	12.51	14.02	31.337	-430.48	-187.26	240.90	216.48	24.42	9.864	
3,300.00	3,282.97	3,283.80	3,245.72	12.79	14.49	64.057	-445.71	-194.21	248.11	223.30	24.81	9.999	
3,400.00	3,380.51	3,379.30	3,339.81	13.01	14.95	78.389	-460.56	-200.99	257.16	232.11	25.05	10.266	
3,500.00	3,475.35	3,471.32	3,430.47	13.20	15.39	88.969	-474.87	-207.52	270.89	245.65	25.25	10.730	
3,600.00	3,566.45	3,558.85	3,516.72	13.36	15.82	98.002	-488.48	-213.73	292.28	266.71	25.57	11.429	
3,700.00	3,652.81	3,640.94	3,597.60	13.51	16.21	105.631	-501.25	-219.55	323.62	297.46	26.16	12.373	
3,800.00	3,733.48	3,722.82	3,678.30	13.66	16.60	112.255	-513.95	-225.05	365.86	338.83	27.03	13.535	
3,900.00	3,807.58	3,826.92	3,781.18	13.95	17.05	119.251	-529.42	-224.15	415.04	386.90	28.14	14.751	
4,000.00	3,874.30	3,943.52	3,895.72	14.69	17.47	125.279	-545.40	-209.77	467.47	438.35	29.12	16.051	
4,100.00	3,932.90	4,077.07	4,023.85	15.67	17.84	130.607	-561.65	-176.23	520.87	491.06	29.81	17.476	
4,200.00	3,983.96	4,235.25	4,168.10	16.90	18.20	136.336	-577.66	-113.80	571.86	541.87	30.00	19.065	
5,000.00	4,137.79	5,619.01	4,729.44	32.40	33.88	147.641	-596.56	1,060.56	700.45	662.92	37.53	18.662	
5,100.00	4,138.57	5,719.01	4,730.42	34.75	36.13	147.649	-596.01	1,160.55	700.62	660.34	40.28	17.393	
5,200.00	4,139.36	5,819.01	4,731.40	37.14	38.42	147.658	-595.46	1,260.55	700.78	657.70	43.08	16.267	
5,300.00	4,140.14	5,919.01	4,732.38	39.56	40.76	147.666	-594.90	1,360.54	700.95	655.03	45.92	15.265	
5,400.00	4,140.92	6,019.01	4,733.36	42.01	43.13	147.675	-594.35	1,460.53	701.11	652.32	48.79	14.370	
5,500.00	4,141.71	6,119.01	4,734.33	44.48	45.53	147.683	-593.80	1,560.53	701.28	649.59	51.69	13.567	
5,600.00	4,142.49	6,219.01	4,735.31	46.96	47.95	147.692	-593.25	1,660.52	701.44	646.83	54.61	12.844	
5,700.00	4,143.27	6,319.01	4,736.29	49.47	50.40	147.700	-592.69	1,760.51	701.61	644.06	57.55	12.191	
5,800.00	4,144.06	6,419.01	4,737.27	51.98	52.86	147.709	-592.14	1,860.51	701.78	641.26	60.51	11.597	
5,900.00	4,144.84	6,519.01	4,738.25	54.51	55.34	147.718	-591.59	1,960.50	701.94	638.46	63.48	11.057	
6,000.00	4,145.62	6,619.01	4,739.23	57.05	57.83	147.726	-591.04	2,060.49	702.11	635.64	66.47	10.563	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

SPUR ENERGY PARTNERS

Anticollision Report

WELLBENDERS DIRECTIONAL SERVICES

Company:	Spur Energy Partners, LLC	**Local Co-ordinate Reference:**	Well #10H
Project:	Eddy County, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3630.00usft (AKITA 57)
Reference Site:	DARNER 9 STATE	**MD Reference:**	RKB = 20' @ 3630.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	#10H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	WBDS_SQL_2
Reference Design:	PLAN #1	**Offset TVD Reference:**	Reference Datum

Offset Design DARNER 9 STATE - #70H - Wellbore #1 - PLAN #1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IGRF — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
6,100.00	4,146.41	6,719.01	4,740.21	59.59	60.34	147.735	-590.49	2,160.49	702.27	632.81	69.46	10.111	
6,200.00	4,147.19	6,819.01	4,741.19	62.14	62.86	147.743	-589.93	2,260.48	702.44	629.98	72.46	9.694	
6,300.00	4,147.98	6,919.01	4,742.17	64.71	65.38	147.752	-589.38	2,360.48	702.60	627.13	75.47	9.310	
6,400.00	4,148.76	7,019.01	4,743.15	67.27	67.92	147.760	-588.83	2,460.47	702.77	624.28	78.49	8.954	
6,500.00	4,149.54	7,119.01	4,744.13	69.84	70.46	147.769	-588.28	2,560.46	702.93	621.43	81.51	8.624	
6,600.00	4,150.33	7,219.01	4,745.11	72.42	73.01	147.777	-587.72	2,660.46	703.10	618.56	84.54	8.317	
6,700.00	4,151.11	7,319.01	4,746.09	75.00	75.56	147.786	-587.17	2,760.45	703.27	615.70	87.57	8.031	
6,800.00	4,151.89	7,419.01	4,747.07	77.59	78.12	147.794	-586.62	2,860.44	703.43	612.83	90.60	7.764	
6,900.00	4,152.68	7,519.01	4,748.04	80.17	80.69	147.803	-586.07	2,960.44	703.60	609.96	93.64	7.514	
7,000.00	4,153.46	7,619.01	4,749.02	82.77	83.26	147.811	-585.51	3,060.43	703.76	607.08	96.68	7.279	
7,100.00	4,154.24	7,719.01	4,750.00	85.36	85.83	147.820	-584.96	3,160.42	703.93	604.20	99.73	7.059	
7,200.00	4,155.03	7,819.01	4,750.98	87.96	88.41	147.828	-584.41	3,260.42	704.09	601.32	102.77	6.851	
7,300.00	4,155.81	7,919.01	4,751.96	90.56	90.99	147.837	-583.86	3,360.41	704.26	598.44	105.82	6.655	
7,400.00	4,156.59	8,019.01	4,752.94	93.16	93.58	147.845	-583.31	3,460.40	704.43	595.56	108.87	6.470	
7,500.00	4,157.38	8,119.01	4,753.92	95.76	96.17	147.853	-582.75	3,560.40	704.59	592.67	111.92	6.295	
7,600.00	4,158.16	8,219.01	4,754.90	98.37	98.76	147.862	-582.20	3,660.39	704.76	589.78	114.97	6.130	
7,700.00	4,158.95	8,319.01	4,755.88	100.97	101.35	147.870	-581.65	3,760.38	704.92	586.90	118.03	5.973	
7,800.00	4,159.73	8,419.01	4,756.86	103.58	103.94	147.879	-581.10	3,860.38	705.09	584.01	121.08	5.823	
7,900.00	4,160.51	8,519.01	4,757.84	106.19	106.54	147.887	-580.54	3,960.37	705.25	581.12	124.14	5.681	
8,000.00	4,161.30	8,619.01	4,758.82	108.80	109.14	147.896	-579.99	4,060.36	705.42	578.23	127.19	5.546	
8,100.00	4,162.08	8,719.01	4,759.80	111.42	111.74	147.904	-579.44	4,160.36	705.59	575.34	130.25	5.417	
8,200.00	4,162.86	8,819.01	4,760.78	114.03	114.34	147.913	-578.89	4,260.35	705.75	572.45	133.30	5.294	
8,300.00	4,163.65	8,919.01	4,761.75	116.65	116.95	147.921	-578.33	4,360.34	705.92	569.56	136.36	5.177	
8,400.00	4,164.43	9,019.01	4,762.73	119.26	119.55	147.929	-577.78	4,460.34	706.08	566.66	139.42	5.064	
8,500.00	4,165.21	9,119.01	4,763.71	121.88	122.16	147.938	-577.23	4,560.33	706.25	563.77	142.48	4.957	
8,600.00	4,166.00	9,219.01	4,764.69	124.50	124.77	147.946	-576.68	4,660.33	706.42	560.88	145.53	4.854	
8,700.00	4,166.78	9,319.00	4,765.67	127.12	127.38	147.955	-576.13	4,760.32	706.58	557.99	148.59	4.755	
8,800.00	4,167.57	9,419.00	4,766.65	129.74	129.99	147.963	-575.57	4,860.31	706.75	555.10	151.65	4.660	
8,900.00	4,168.35	9,519.00	4,767.63	132.36	132.60	147.972	-575.02	4,960.31	706.91	552.21	154.71	4.569	
9,000.00	4,169.13	9,619.00	4,768.61	134.98	135.21	147.980	-574.47	5,060.30	707.08	549.32	157.76	4.482	
9,100.00	4,169.92	9,719.00	4,769.59	137.60	137.83	147.988	-573.92	5,160.29	707.25	546.43	160.82	4.398	
9,200.00	4,170.70	9,819.00	4,770.57	140.22	140.44	147.997	-573.36	5,260.29	707.41	543.54	163.88	4.317	
9,300.00	4,171.48	9,919.00	4,771.55	142.84	143.06	148.005	-572.81	5,360.28	707.58	540.65	166.93	4.239	
9,400.00	4,172.27	10,019.00	4,772.53	145.47	145.67	148.013	-572.26	5,460.27	707.74	537.76	169.99	4.164	
9,500.00	4,173.05	10,119.00	4,773.51	148.09	148.29	148.022	-571.71	5,560.27	707.91	534.87	173.04	4.091	
9,600.00	4,173.83	10,219.00	4,774.49	150.72	150.91	148.030	-571.15	5,660.26	708.08	531.98	176.10	4.021	
9,700.00	4,174.62	10,328.30	4,775.46	153.34	153.77	148.039	-570.60	5,760.25	708.24	528.95	179.29	3.950	
9,748.84	4,175.00	10,367.84	4,775.94	154.26	154.81	148.043	-570.33	5,809.09	708.32	527.92	180.40	3.926 SF	

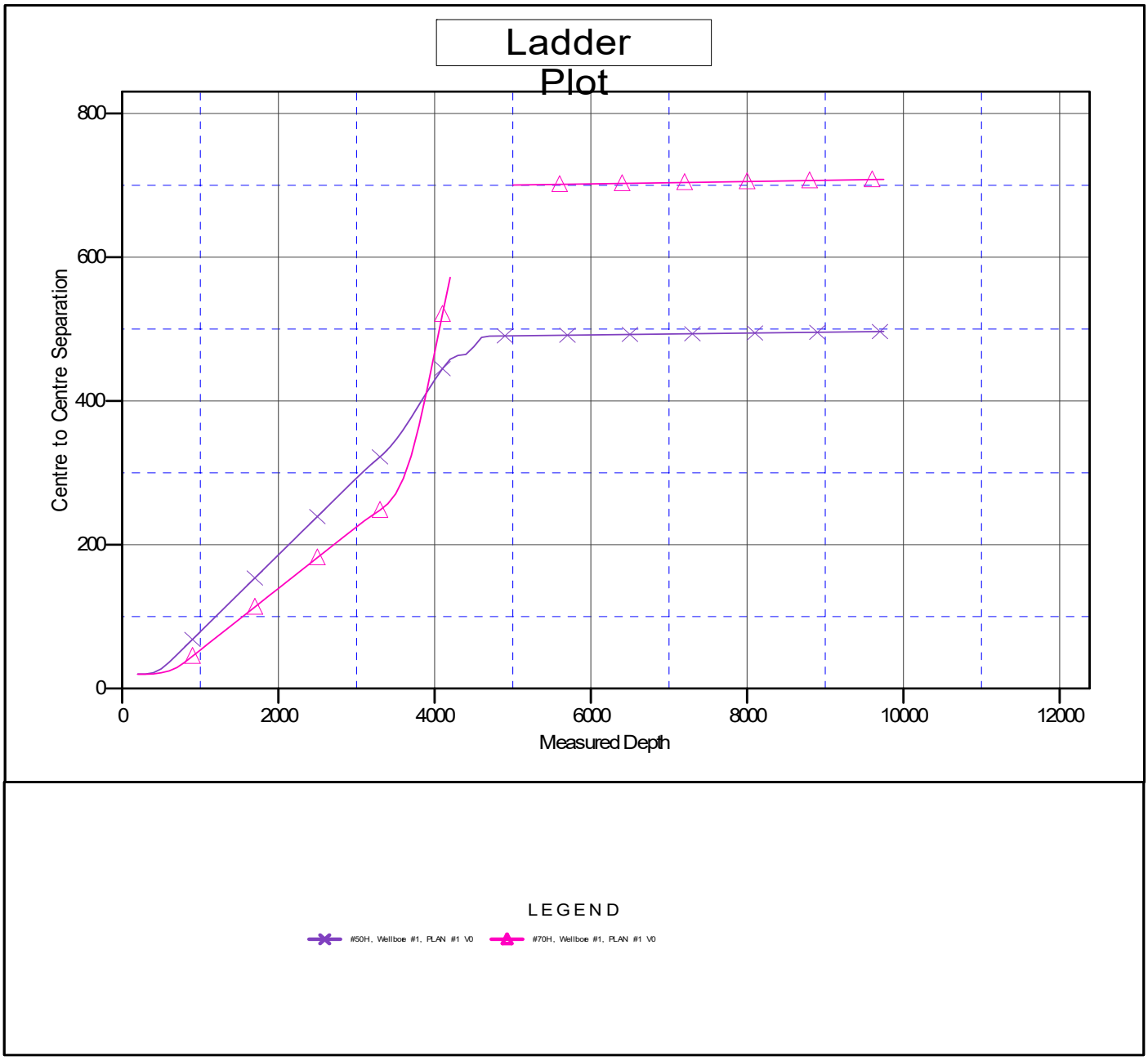
SPUR ENERGY PARTNERS

Anticollision Report

WELLBENDERS DIRECTIONAL SERVICES

Company:	Spur Energy Partners, LLC	**Local Co-ordinate Reference:**	Well #10H
Project:	Eddy County, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3630.00usft (AKITA 57)
Reference Site:	DARNER 9 STATE	**MD Reference:**	RKB = 20' @ 3630.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	#10H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	WBDS_SQL_2
Reference Design:	PLAN #1	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to RKB = 20' @ 3630.00usft (AKITA 57) Coordinates are relative to: #10H
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Central Meridian is -104.3333333 Grid Convergence at Surface is: 0.132°



SPUR ENERGY PARTNERS

Anticollision Report

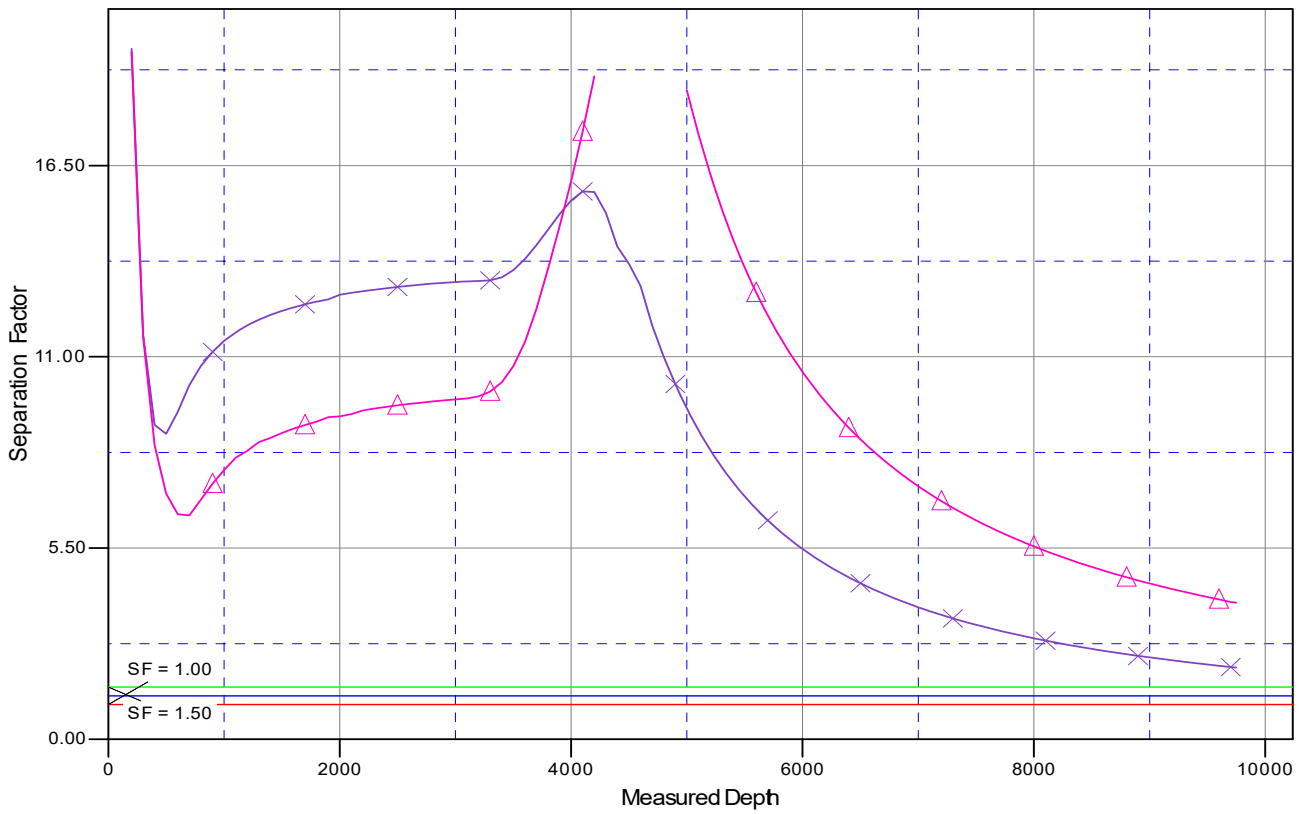
WELLBENDERS DIRECTIONAL SERVICES

Company:	Spur Energy Partners, LLC	**Local Co-ordinate Reference:**	Well #10H
Project:	Eddy County, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3630.00usft (AKITA 57)
Reference Site:	DARNER 9 STATE	**MD Reference:**	RKB = 20' @ 3630.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	#10H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	WBDS_SQL_2
Reference Design:	PLAN #1	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to RKB = 20' @ 3630.00usft (AKITA 57)
Offset Depths are relative to Offset Datum
Central Meridian is -104.3333333

Coordinates are relative to: #10H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.132°

Separation Factor Plot



LEGEND

#50H, Wellbore #1, PLAN #1 V0 — #70H, Wellbore #1, PLAN #1 V0

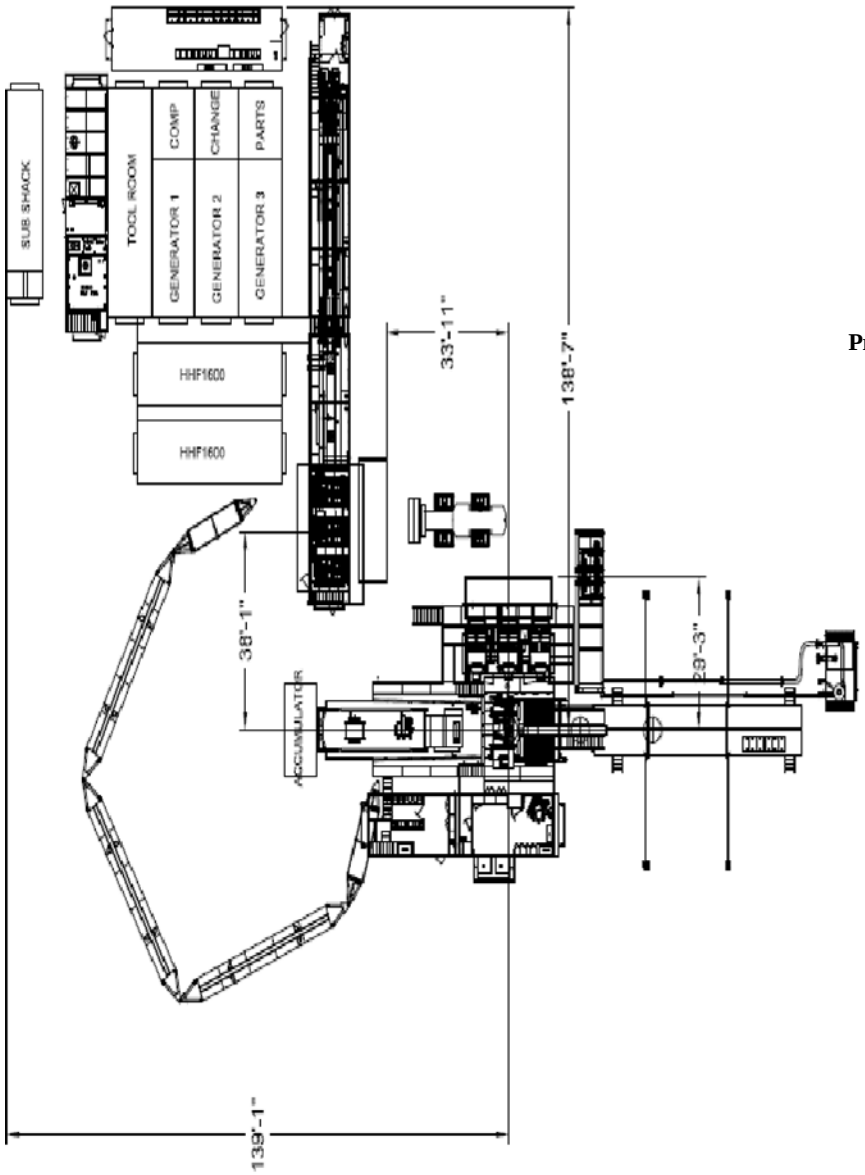
Permian Drilling
Hydrogen Sulfide Drilling Operations Plan
DARNER 9 STATE 10H

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



Primary Briefing Area

Exit to road. Caution sign placed here.

N

Secondary Egress

WIND: Prevailing winds are from the Southwest

Intent ☐ As Drilled ☐

API #

Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County

Latitude	Longitude	NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County

Latitude	Longitude	NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County

Latitude	Longitude	NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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:** 07 / 01 / 2021

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
DARNER 9 STATE 10H	30-015-	I-8-17S-29E	1385' FSL 608' FEL	317 BBL/D	346 MCF/D	1428 BBL/D
DARNER 9 STATE 50H	30-015-	I-8-17S-29E	1405' FSL 608' FEL	346 BBL/D	374 MCF/D	1038 BBL/D
DARNER 9 STATE 70H	30-015-	I-8-17S-29E	1365' FSL 608' FEL	346 BBL/D	374 MCF/D	1038 BBL/D

IV. Central Delivery Point Name: DARNER 9 STATE 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
DARNER 9 STATE 10H	30-015-	10/19/2021	10/28/2021	11/24/2021	12/05/2021	12/05/2021
DARNER 9 STATE 50H	30-015-	10/29/2021	11/06/2021	11/24/2021	12/05/2021	12/05/2021
DARNER 9 STATE 70H	30-015-	11/07/2021	11/15/2021	11/24/2021	12/05/2021	12/05/2021

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:	Sarah Chapman
Printed Name:	SARAH CHAPMAN
Title:	REGULATORY DIRECTOR
E-mail Address:	SCHAPMAN@SPUREPLLC.COM
Date:	07/01/2021
Phone:	832-930-8613

OIL CONSERVATION DIVISION

(Only applicable when submitted as a standalone form)

Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

Natural Gas Management Plan – Attachment

VI. Separation equipment will be sized by construction engineering staff based on anticipated daily production to ensure adequate capacity.

VII. Spur Energy Partners LLC ("Spur") will take the following actions to comply with the regulations listed in 19.15.27.8:

A. Spur will maximize the recovery of natural gas by minimizing waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. Spur will ensure that our wells will be connected to a natural gas gathering system with sufficient capacity to transport natural gas.

B. All drilling operations will be equipped with a rig flare at least 100 feet from the nearest surface hole location. Rig flare will be utilized to combust any natural gas that is brought to surface during normal operations. In the case of emergency, flaring volumes will be reported appropriately.

C. During completion operations any natural gas brought to surface will be flared. Immediately following completion operations, wells will flow to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. If natural gas does not meet gathering pipeline specifications, Spur will flare for 60 days or until natural gas meets the pipeline specifications. Spur will ensure flare is properly sized and is equipped with an automatic igniter or continuous pilot. Gas samples will be taken twice per week and natural gas will be routed into a gathering system as soon as the pipeline specifications are met.

D. Natural gas will not be flared with the exception of 19.15.27.8(D)(1-4). If there is no adequate takeaway for the separator gas, wells will be shut-in until that natural gas gathering system is available with exception of emergency or malfunction situations. Volumes will be reported appropriately.

E. Spur will comply with performance standards pursuant to 19.15.27.8(E)(1-8). All equipment will be designed and sized to handle maximum pressures to minimize waste. Storage tanks constructed after May 25, 2021 will be equipped with an automatic gauging system that reduces venting of natural gas. Flare stacks installed or replaced after May 25, 2021 will be equipped with an automatic ignitor or continuous pilot. Spur will conduct AVO inspections as described in 19.15.27.8(E)(5)(a) with frequencies specified in 19.15.27.8(E)(5)(b) and (c). All emergencies or malfunctions will be resolved as quickly and safely as possible to minimize waste.

F. The volume of natural gas that is vented or flared as the result of an emergency or malfunction during drilling and/or completion operations will be estimated and reported accordingly. The volume of natural gas that is vented, flared or beneficially used during production operations, will be measured and reported accordingly. Spur will install equipment to measure the volume of natural gas flared from existing piping or a flowline piped from equipment such as high-pressure separators, heater treaters, or VRUs associated with a well or facility associated with a well authorized by an APD after May 25, 2021 that has an average daily production of less than 60,000 cubic feet of natural gas. If metering is not practicable due to circumstances such as low flow rate or low pressure venting or flaring, Spur will estimate the volume of flared or vented natural gas. Measuring equipment will conform to industry standards and will not be equipped with a manifold

that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing equipment.

VIII. For maintenance activities involving production equipment and compression, venting be limited to the depressurization of the subject equipment to ensure safe working conditions. For maintenance of production equipment, the associated producing wells will be shut-in to eliminate venting. For maintenance of VRUs, all natural gas normally routed to the VRU will be routed to flare.