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 346977

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: 30-015-54076

4. Property Code	5. Property Name	6. Well No.
334602	AID NORTH 14 13 STATE COM	060H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
B	14	17S	28E		1208	N	2382	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
A	13	17S	28E	A	810	N	50	E	Eddy

9. Pool Information

EMPIRE; GLORIETA-YESO	96210

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3600
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	11380	Blinebry		10/30/2023
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	1275	378	0
Prod	8.75	7	32	4500	1882	0
Prod	8.75	5.5	20	11380	1882	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:	Ward Rikala	
Title:	Regulatory Director		Title:		
Email Address:	schapman@spurenergy.com		Approved Date:	8/17/2023	Expiration Date: 8/17/2025
Date:	8/8/2023	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	2 Pool Code	3 Pool Name
30-015- 54076	96210	EMPIRE; GLORIETA-YESO

4 Property Code	5 Property Name	6 Well Number
334602	AID NORTH 14-13 STATE COM	60H

7 OGRID NO.	8 Operator Name	9 Elevation
328947	SPUR ENERGY PARTNERS LLC.	3600'

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
B	14	17S	28E		1208	NORTH	2382	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
A	13	17S	28E		810	NORTH	50	EAST	EDDY

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
480			

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: 669090.0 – E: 598767.7
LAT: 32.8392144° N
LONG: 104.1463445° W

FIRST TAKE POINT (FTP)
804' FNL & 1405' FEL – SEC 14
N: 669586.6 – E: 599730.1
LAT: 32.8405745° N
LONG: 104.1432081° W

LAST TAKE POINT (LTP)
812' FNL & 100' FEL – SEC 13
N: 669729.5 – E: 606337.7
LAT: 32.8409328° N
LONG: 104.1216929° W

BOTTOM HOLE (BH)
N: 669731.3 – E: 606387.7
LAT: 32.8409373° N
LONG: 104.1215302° W

CORNER DATA
NAD 83 GRID – NM EAST

A: FOUND BRASS CAP "1941"
N: 664715.7 – E: 596062.5

B: FOUND BRASS CAP "1941"
N: 667371.0 – E: 595986.7

C: FOUND BRASS CAP "1941"
N: 670028.0 – E: 595911.3

D: FOUND BRASS CAP "1941"
N: 670275.9 – E: 598509.8

E: FOUND BRASS CAP "1941"
N: 670523.4 – E: 601110.0

F: FOUND 1/2" REBAR
N: 670530.5 – E: 603773.2

G: FOUND BRASS CAP "1941"
N: 670541.3 – E: 606438.4

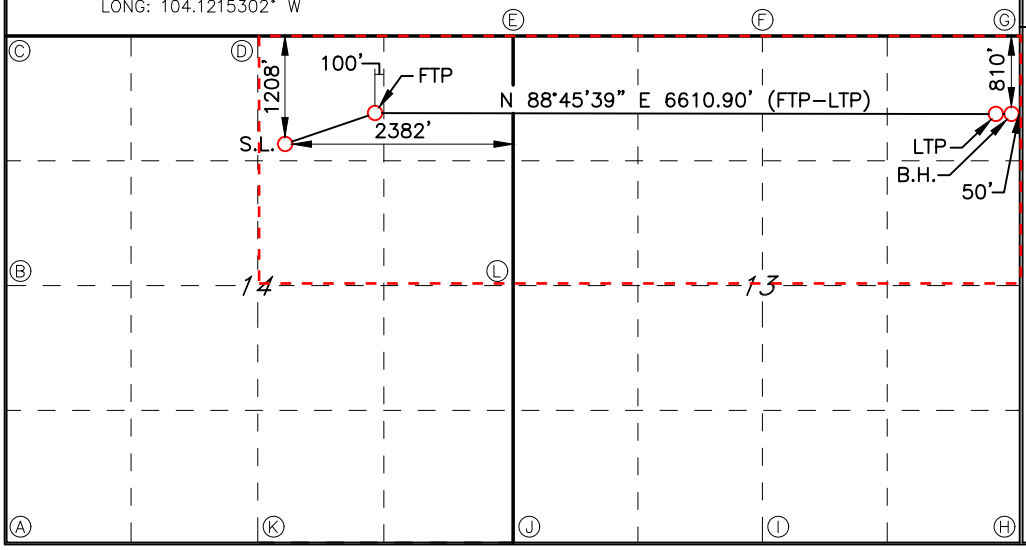
H: FOUND BRASS CAP "1941"
N: 665238.8 – E: 606433.6

I: FOUND BRASS CAP "1941"
N: 665220.7 – E: 603835.2

J: FOUND BRASS CAP "1941"
N: 665202.5 – E: 601236.8

K: FOUND BRASS CAP "1941"
N: 664959.0 – E: 598649.4

L: FOUND BRASS CAP "1941"
N: 667862.4 – E: 601172.4



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 08/07/2023
Signature Date

SARAH CHAPMAN
Printed Name

SCHAPMAN@SPURENERGY.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.

06/14/2023
Date of Survey

Signature and Seal of Professional Surveyor:

DALE E. BELL
NEW MEXICO
14400
PROFESSIONAL SURVEYOR

14400 07/03/2023
Certificate Number

Job No: LS23060537

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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 346977

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
Spur Energy Partners LLC [328947] 9655 Katy Freeway Houston, TX 77024	30-015-54076
	Well: AID NORTH 14 13 STATE COM #060H

OCD Reviewer	Condition
ward.rikala	Notify OCD 24 hours prior to casing & cement
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104
ward.rikala	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
ward.rikala	Cement is required to circulate on both surface and production strings of casing
ward.rikala	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
ward.rikala	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

SPUR ENERGY PARTNERS, LLC

EDDY COUNTY, NM (NAD 83 - NME)
AID NORTH 14-13 STATE COM
60H

Wellbore #1
PERMIT

Anticollision Report

01 August, 2023

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Reference PERMIT

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 50.00usft	**Error Model:**	ISCWSA
Depth Range:	0.00 to 11,380.28usft	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum separation factor of 55.00	**Error Surface:**	Elliptical Conic
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 08/01/23

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	11,380.28	PERMIT (Wellbore #1)	MWD+IFR1+SAG+FDIR	OWSG MWD + IFR1 + Sag + FDIR Correction

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
AID NORTH 14-13 STATE COM						
10H - Wellbore #1 - PERMIT	300.00	300.00	20.00	18.28	11.624	CC
10H - Wellbore #1 - PERMIT	350.00	350.24	20.14	18.06	9.663	ES
10H - Wellbore #1 - PERMIT	11,380.28	10,909.80	594.55	461.82	4.480	SF
20H - Wellbore #1 - PERMIT	542.98	541.29	19.99	16.48	5.698	CC
20H - Wellbore #1 - PERMIT	750.00	746.88	20.23	15.21	4.033	ES
20H - Wellbore #1 - PERMIT	800.00	796.51	21.22	15.86	3.956	SF
21H - Wellbore #1 - PERMIT	300.00	300.00	59.90	58.18	34.814	CC, ES
21H - Wellbore #1 - PERMIT	11,380.28	11,124.98	1,383.42	1,216.80	8.303	SF
61H - Wellbore #1 - PERMIT	300.00	300.00	39.90	38.18	23.190	CC, ES
61H - Wellbore #1 - PERMIT	11,380.28	11,345.67	904.80	733.74	5.289	SF
OFFSET: AID STATE #10 - Wellbore #1 - Wellbore #1	9,102.94	4,395.46	795.42	648.18	5.402	CC, ES
OFFSET: AID STATE #10 - Wellbore #1 - Wellbore #1	9,150.00	4,396.35	796.81	649.03	5.392	SF
OFFSET: AID STATE #6 - Wellbore #1 - Wellbore #1	11,068.23	4,414.25	1,493.09	1,329.43	9.123	CC
OFFSET: AID STATE #6 - Wellbore #1 - Wellbore #1	11,100.00	4,414.84	1,493.43	1,329.41	9.105	ES
OFFSET: AID STATE #6 - Wellbore #1 - Wellbore #1	11,200.00	4,416.72	1,498.89	1,333.73	9.075	SF
OFFSET: AID STATE #8 - Wellbore #1 - Wellbore #1	11,098.64	4,427.92	173.12	-0.62	0.996	Level 1, CC
OFFSET: AID STATE #8 - Wellbore #1 - Wellbore #1	11,100.00	4,427.95	173.13	-0.63	0.996	Level 1, ES, SF
OFFSET: AID STATE #9 - Wellbore #1 - Wellbore #1	9,133.33	4,383.94	524.50	386.35	3.797	CC, ES
OFFSET: AID STATE #9 - Wellbore #1 - Wellbore #1	9,150.00	4,384.25	524.76	386.43	3.793	SF
OFFSET: PUMA #1 - Wellbore #1 - Wellbore #1	4,081.30	3,928.14	105.16	12.63	1.137	Level 2, CC, ES, SF

Offset Design AID NORTH 14-13 STATE COM - 10H - Wellbore #1 - PERMIT — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR — **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
150.00	150.00	150.00	150.00	0.32	0.32	179.427	-20.00	0.20	20.00	19.36	0.65	30.997	
200.00	200.00	200.00	200.00	0.50	0.50	179.427	-20.00	0.20	20.00	19.00	1.00	19.927	
250.00	250.00	250.00	250.00	0.68	0.68	179.427	-20.00	0.20	20.00	18.64	1.36	14.683	
300.00	300.00	300.00	300.00	0.86	0.86	179.427	-20.00	0.20	20.00	18.28	1.72	11.624	CC
350.00	350.00	350.24	350.23	1.04	1.04	173.647	-19.70	0.52	20.14	18.06	2.08	9.663	ES
400.00	399.98	400.37	400.35	1.22	1.22	171.486	-18.84	1.42	20.62	18.17	2.45	8.418	
450.00	449.93	450.34	450.31	1.40	1.40	169.540	-17.89	2.43	21.90	19.08	2.82	7.768	
500.00	499.84	500.29	500.24	1.58	1.57	168.244	-16.94	3.44	24.06	20.87	3.19	7.544	

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

SPUR ENERGY PARTNERS

Anticollision Report

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Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - 10H - Wellbore #1 - PERMIT — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR — **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
550.00	549.68	550.20	550.12	1.77	1.75	167.567	-15.99	4.44	27.08	23.52	3.56	7.606	
600.00	599.45	600.05	599.95	1.95	1.93	167.382	-15.03	5.45	30.94	27.02	3.93	7.877	
650.00	649.13	649.83	649.71	2.13	2.11	167.542	-14.08	6.45	35.66	31.36	4.30	8.300	
700.00	698.70	699.51	699.38	2.31	2.28	167.916	-13.14	7.46	41.23	36.56	4.66	8.844	
719.90	718.40	719.27	719.13	2.39	2.36	168.102	-12.76	7.85	43.68	38.87	4.81	9.087	
750.00	748.18	749.12	748.97	2.49	2.46	168.386	-12.19	8.46	47.49	42.47	5.02	9.469	
800.00	797.64	798.72	798.54	2.67	2.64	168.770	-11.24	9.46	53.82	48.46	5.36	10.039	
850.00	847.10	848.31	848.12	2.85	2.82	169.072	-10.30	10.46	60.15	54.44	5.71	10.530	
900.00	896.57	897.91	897.70	3.02	2.99	169.317	-9.35	11.46	66.49	60.43	6.06	10.975	
950.00	946.03	947.50	947.28	3.20	3.17	169.519	-8.41	12.46	72.82	66.42	6.41	11.366	
1,000.00	995.49	997.10	996.85	3.38	3.35	169.689	-7.46	13.46	79.16	72.40	6.76	11.712	
1,050.00	1,044.96	1,046.70	1,046.43	3.56	3.53	169.834	-6.51	14.46	85.50	78.39	7.11	12.025	
1,100.00	1,094.42	1,096.29	1,096.01	3.74	3.71	169.958	-5.57	15.46	91.83	84.37	7.46	12.307	
1,150.00	1,143.89	1,145.89	1,145.58	3.93	3.88	170.067	-4.62	16.46	98.17	90.36	7.81	12.563	
1,200.00	1,193.35	1,195.49	1,195.16	4.11	4.06	170.162	-3.67	17.46	104.51	96.34	8.17	12.797	
1,250.00	1,242.81	1,245.08	1,244.74	4.29	4.24	170.247	-2.73	18.46	110.85	102.33	8.52	13.010	
1,300.00	1,292.28	1,294.68	1,294.32	4.47	4.42	170.322	-1.78	19.46	117.19	108.31	8.87	13.206	
1,350.00	1,341.74	1,344.28	1,343.89	4.66	4.59	170.390	-0.84	20.46	123.52	114.30	9.23	13.387	
1,400.00	1,391.21	1,393.87	1,393.47	4.84	4.77	170.451	0.11	21.46	129.86	120.28	9.58	13.554	
1,450.00	1,440.67	1,443.47	1,443.05	5.02	4.95	170.506	1.06	22.46	136.20	126.27	9.94	13.709	
1,500.00	1,490.13	1,493.06	1,492.63	5.20	5.13	170.557	2.00	23.46	142.54	132.25	10.29	13.852	
1,550.00	1,539.60	1,542.66	1,542.20	5.39	5.30	170.603	2.95	24.46	148.88	138.24	10.64	13.986	
1,600.00	1,589.06	1,592.26	1,591.78	5.57	5.48	170.645	3.90	25.46	155.22	144.22	11.00	14.111	
1,650.00	1,638.52	1,641.85	1,641.36	5.75	5.66	170.684	4.84	26.46	161.56	150.20	11.35	14.229	
1,700.00	1,687.99	1,691.45	1,690.93	5.94	5.84	170.720	5.79	27.46	167.90	156.19	11.71	14.338	
1,750.00	1,737.45	1,741.05	1,740.51	6.12	6.02	170.754	6.73	28.46	174.24	162.17	12.06	14.442	
1,800.00	1,786.92	1,790.64	1,790.09	6.30	6.19	170.785	7.68	29.46	180.58	168.16	12.42	14.539	
1,850.00	1,836.38	1,840.24	1,839.67	6.49	6.37	170.814	8.63	30.46	186.92	174.14	12.78	14.631	
1,900.00	1,885.84	1,889.84	1,889.24	6.67	6.55	170.841	9.57	31.46	193.26	180.13	13.13	14.717	
1,950.00	1,935.31	1,939.43	1,938.82	6.85	6.73	170.867	10.52	32.46	199.60	186.11	13.49	14.799	
2,000.00	1,984.77	1,989.03	1,988.40	7.04	6.90	170.890	11.46	33.46	205.94	192.09	13.84	14.877	
2,050.00	2,034.24	2,038.63	2,037.98	7.22	7.08	170.913	12.41	34.46	212.28	198.08	14.20	14.951	
2,100.00	2,083.70	2,088.22	2,087.55	7.40	7.26	170.934	13.36	35.46	218.62	204.06	14.55	15.021	
2,150.00	2,133.16	2,137.82	2,137.13	7.59	7.44	170.954	14.30	36.46	224.96	210.05	14.91	15.087	
2,200.00	2,182.63	2,187.41	2,186.71	7.77	7.62	170.973	15.25	37.46	231.30	216.03	15.27	15.151	
2,250.00	2,232.09	2,237.01	2,236.28	7.95	7.79	170.990	16.20	38.46	237.64	222.01	15.62	15.211	
2,300.00	2,281.56	2,286.61	2,285.86	8.14	7.97	171.007	17.14	39.47	243.98	228.00	15.98	15.269	
2,350.00	2,331.02	2,336.20	2,335.44	8.32	8.15	171.023	18.09	40.47	250.32	233.98	16.33	15.324	
2,400.00	2,380.48	2,385.80	2,385.02	8.50	8.33	171.039	19.03	41.47	256.66	239.96	16.69	15.377	
2,450.00	2,429.95	2,435.40	2,434.59	8.69	8.51	171.053	19.98	42.47	263.00	245.95	17.05	15.427	
2,500.00	2,479.41	2,484.99	2,484.17	8.87	8.68	171.067	20.93	43.47	269.34	251.93	17.40	15.476	
2,550.00	2,528.87	2,534.59	2,533.75	9.05	8.86	171.080	21.87	44.47	275.68	257.92	17.76	15.522	
2,600.00	2,578.34	2,584.19	2,583.33	9.24	9.04	171.093	22.82	45.47	282.02	263.90	18.12	15.567	
2,650.00	2,627.80	2,633.78	2,632.90	9.42	9.22	171.105	23.77	46.47	288.36	269.88	18.47	15.610	
2,700.00	2,677.27	2,683.38	2,682.48	9.60	9.39	171.116	24.71	47.47	294.70	275.87	18.83	15.651	
2,750.00	2,726.73	2,732.97	2,732.06	9.79	9.57	171.127	25.66	48.47	301.04	281.85	19.19	15.691	
2,800.00	2,776.19	2,782.57	2,781.63	9.97	9.75	171.138	26.60	49.47	307.38	287.83	19.54	15.729	
2,850.00	2,825.66	2,831.43	2,830.44	10.15	9.93	170.998	27.54	51.27	313.76	293.87	19.90	15.770	
2,900.00	2,875.12	2,879.88	2,878.70	10.34	10.10	170.429	28.50	55.47	320.31	300.06	20.25	15.819	
2,950.00	2,924.59	2,927.86	2,926.21	10.52	10.27	169.462	29.47	62.04	327.09	306.49	20.60	15.879	
3,000.00	2,974.05	2,975.13	2,972.64	10.70	10.44	168.144	30.44	70.83	334.23	313.28	20.95	15.955	
3,050.00	3,023.51	3,021.48	3,017.69	10.89	10.61	166.526	31.41	81.68	341.87	320.57	21.29	16.054	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - 10H - Wellbore #1 - PERMIT — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR — **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
3,100.00	3,072.98	3,066.72	3,061.10	11.07	10.77	164.664	32.36	94.36	350.19	328.55	21.64	16.185	
3,150.00	3,122.44	3,110.71	3,102.69	11.25	10.92	162.614	33.30	108.65	359.38	337.40	21.98	16.354	
3,200.00	3,171.90	3,153.31	3,142.29	11.44	11.08	160.431	34.22	124.30	369.63	347.32	22.31	16.568	
3,239.93	3,211.41	3,186.27	3,172.44	11.58	11.20	158.626	34.93	137.61	378.69	356.12	22.57	16.777	
3,250.00	3,221.37	3,194.44	3,179.84	11.62	11.23	153.955	35.11	141.08	381.09	358.45	22.64	16.830	
3,300.00	3,270.79	3,234.72	3,215.87	11.81	11.37	132.342	35.99	159.05	393.27	370.28	23.00	17.101	
3,350.00	3,320.03	3,274.48	3,250.66	11.99	11.52	115.140	36.85	178.27	405.78	382.44	23.34	17.385	
3,400.00	3,368.97	3,313.76	3,284.22	12.17	11.66	102.343	37.70	198.67	418.47	394.80	23.67	17.681	
3,450.00	3,417.47	3,350.00	3,314.41	12.35	11.80	92.897	38.49	218.70	431.25	407.29	23.96	17.998	
3,500.00	3,465.40	3,391.03	3,347.65	12.53	11.96	85.460	39.38	242.73	443.99	419.74	24.24	18.314	
3,550.00	3,512.62	3,429.09	3,377.52	12.70	12.11	79.637	40.20	266.29	456.61	432.13	24.48	18.651	
3,600.00	3,559.01	3,466.79	3,406.18	12.87	12.26	74.881	41.00	290.78	469.03	444.35	24.68	19.004	
3,650.00	3,604.43	3,500.00	3,430.60	13.04	12.39	71.021	41.71	313.27	481.20	456.38	24.83	19.383	
3,700.00	3,648.77	3,541.25	3,459.81	13.20	12.56	67.521	42.58	342.37	492.99	468.03	24.95	19.755	
3,750.00	3,691.90	3,578.05	3,484.80	13.37	12.72	64.599	43.34	369.37	504.40	479.37	25.03	20.153	
3,800.00	3,733.71	3,614.59	3,508.56	13.54	12.88	62.049	44.09	397.12	515.36	490.30	25.06	20.566	
3,850.00	3,774.07	3,650.00	3,530.55	13.71	13.04	59.823	44.81	424.86	525.82	500.77	25.05	20.995	
3,900.00	3,812.89	3,686.97	3,552.41	13.88	13.21	57.818	45.54	454.67	535.74	510.74	25.00	21.431	
3,950.00	3,850.04	3,722.84	3,572.49	14.06	13.39	56.050	46.24	484.38	545.09	520.18	24.91	21.879	
4,000.00	3,885.44	3,758.53	3,591.35	14.25	13.56	54.471	46.93	514.67	553.83	529.04	24.80	22.336	
4,050.00	3,918.98	3,802.25	3,613.30	14.45	13.79	52.973	47.75	552.47	561.72	537.05	24.67	22.766	
4,100.00	3,950.58	3,851.58	3,637.96	14.65	14.06	51.725	48.68	595.18	567.84	543.26	24.57	23.107	
4,150.00	3,980.13	3,901.27	3,662.81	14.87	14.33	50.799	49.61	638.20	572.03	547.53	24.49	23.353	
4,200.00	4,007.58	3,951.18	3,687.76	15.09	14.62	50.180	50.55	681.41	574.25	549.79	24.46	23.476	
4,230.69	4,023.34	3,978.16	3,701.23	15.23	14.78	49.943	51.06	704.79	574.65	550.21	24.45	23.506	
4,250.00	4,032.99	3,989.89	3,706.89	15.33	14.85	49.925	51.29	715.06	574.90	550.32	24.58	23.385	
4,300.00	4,057.99	4,020.17	3,720.51	15.57	15.04	49.794	51.87	742.10	576.74	551.82	24.92	23.142	
4,350.00	4,082.99	4,050.00	3,732.51	15.84	15.22	49.548	52.47	769.39	580.29	555.05	25.25	22.985	
4,400.00	4,107.99	4,079.78	3,743.07	16.10	15.41	49.189	53.07	797.24	585.57	560.03	25.55	22.923	
4,430.69	4,123.34	4,100.00	3,749.40	16.27	15.54	48.883	53.49	816.43	589.68	563.96	25.72	22.925	
4,450.00	4,132.71	4,100.00	3,749.40	16.38	15.54	48.669	53.49	816.43	592.49	566.97	25.52	23.215	
4,500.00	4,154.28	4,137.74	3,759.39	16.66	15.78	47.689	54.28	852.81	598.62	573.54	25.07	23.876	
4,550.00	4,171.84	4,166.56	3,765.39	16.96	15.96	47.013	54.89	880.99	603.68	579.03	24.65	24.490	
4,600.00	4,185.26	4,200.00	3,770.57	17.26	16.18	46.478	55.61	914.01	607.55	583.24	24.32	24.987	
4,650.00	4,194.43	4,224.07	3,773.11	17.55	16.33	46.175	56.13	937.94	610.11	586.05	24.06	25.355	
4,700.00	4,199.28	4,252.79	3,774.81	17.85	16.51	46.007	56.75	966.59	611.42	587.46	23.96	25.518	
4,719.94	4,200.00	4,267.75	3,775.19	17.97	16.61	45.988	57.08	981.54	611.57	587.58	23.98	25.502	
4,750.00	4,200.56	4,297.81	3,775.86	18.15	16.80	45.996	57.73	1,011.59	611.49	587.20	24.28	25.180	
4,800.00	4,201.50	4,347.81	3,776.99	18.46	17.14	46.008	58.82	1,061.57	611.35	586.55	24.80	24.649	
4,850.00	4,202.44	4,397.81	3,778.12	18.78	17.48	46.021	59.91	1,111.54	611.22	585.88	25.34	24.120	
4,900.00	4,203.38	4,447.81	3,779.25	19.11	17.84	46.034	60.99	1,161.52	611.09	585.20	25.89	23.599	
4,950.00	4,204.32	4,497.81	3,780.38	19.46	18.20	46.047	62.08	1,211.49	610.96	584.49	26.47	23.083	
5,000.00	4,205.26	4,547.81	3,781.50	19.80	18.58	46.060	63.17	1,261.47	610.83	583.77	27.05	22.578	
5,050.00	4,206.19	4,597.81	3,782.63	20.17	18.96	46.072	64.25	1,311.44	610.69	583.04	27.66	22.081	
5,100.00	4,207.13	4,647.81	3,783.76	20.54	19.36	46.085	65.34	1,361.42	610.56	582.29	28.27	21.595	
5,150.00	4,208.07	4,697.81	3,784.89	20.92	19.76	46.098	66.42	1,411.39	610.43	581.53	28.90	21.120	
5,200.00	4,209.01	4,747.81	3,786.02	21.30	20.17	46.111	67.51	1,461.37	610.30	580.76	29.54	20.657	
5,250.00	4,209.95	4,797.81	3,787.14	21.70	20.58	46.124	68.60	1,511.34	610.17	579.97	30.20	20.205	
5,300.00	4,210.89	4,847.81	3,788.27	22.10	21.01	46.136	69.68	1,561.32	610.04	579.17	30.86	19.767	
5,350.00	4,211.83	4,897.81	3,789.40	22.51	21.44	46.149	70.77	1,611.29	609.90	578.37	31.54	19.340	
5,400.00	4,212.76	4,947.80	3,790.53	22.92	21.88	46.162	71.86	1,661.27	609.77	577.55	32.22	18.925	
5,450.00	4,213.70	4,997.80	3,791.65	23.35	22.32	46.175	72.94	1,711.24	609.64	576.73	32.91	18.523	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - 10H - Wellbore #1 - PERMIT — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR — **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
5,500.00	4,214.64	5,047.80	3,792.78	23.77	22.76	46.188	74.03	1,761.22	609.51	575.90	33.61	18.133	
5,550.00	4,215.58	5,097.80	3,793.91	24.21	23.21	46.200	75.12	1,811.19	609.38	575.06	34.32	17.754	
5,600.00	4,216.52	5,147.80	3,795.04	24.64	23.67	46.213	76.20	1,861.17	609.25	574.21	35.04	17.388	
5,650.00	4,217.46	5,197.80	3,796.17	25.09	24.13	46.226	77.29	1,911.14	609.12	573.35	35.76	17.032	
5,700.00	4,218.39	5,247.80	3,797.29	25.53	24.60	46.239	78.38	1,961.12	608.98	572.49	36.49	16.688	
5,750.00	4,219.33	5,297.80	3,798.42	25.99	25.07	46.252	79.46	2,011.09	608.85	571.62	37.23	16.354	
5,800.00	4,220.27	5,347.80	3,799.55	26.44	25.54	46.265	80.55	2,061.07	608.72	570.75	37.97	16.031	
5,850.00	4,221.21	5,397.80	3,800.68	26.91	26.02	46.278	81.64	2,111.04	608.59	569.87	38.72	15.718	
5,900.00	4,222.15	5,447.80	3,801.81	27.37	26.50	46.290	82.72	2,161.02	608.46	568.99	39.47	15.415	
5,950.00	4,223.09	5,497.80	3,802.93	27.84	26.98	46.303	83.81	2,211.00	608.33	568.10	40.23	15.121	
6,000.00	4,224.02	5,547.80	3,804.06	28.31	27.47	46.316	84.90	2,260.97	608.20	567.20	40.99	14.837	
6,050.00	4,224.96	5,597.80	3,805.19	28.78	27.96	46.329	85.98	2,310.95	608.07	566.31	41.76	14.561	
6,100.00	4,225.90	5,647.80	3,806.32	29.26	28.45	46.342	87.07	2,360.92	607.93	565.40	42.53	14.293	
6,150.00	4,226.84	5,697.80	3,807.45	29.74	28.95	46.355	88.16	2,410.90	607.80	564.50	43.31	14.034	
6,200.00	4,227.78	5,747.80	3,808.57	30.23	29.45	46.368	89.24	2,460.87	607.67	563.59	44.09	13.783	
6,250.00	4,228.72	5,797.80	3,809.70	30.71	29.94	46.381	90.33	2,510.85	607.54	562.67	44.87	13.540	
6,300.00	4,229.65	5,847.80	3,810.83	31.20	30.45	46.394	91.41	2,560.82	607.41	561.75	45.66	13.303	
6,350.00	4,230.59	5,897.80	3,811.96	31.69	30.95	46.407	92.50	2,610.80	607.28	560.83	46.45	13.074	
6,400.00	4,231.53	5,947.80	3,813.08	32.19	31.46	46.420	93.59	2,660.77	607.15	559.91	47.24	12.852	
6,450.00	4,232.47	5,997.80	3,814.21	32.68	31.96	46.432	94.67	2,710.75	607.02	558.98	48.04	12.636	
6,500.00	4,233.41	6,047.80	3,815.34	33.18	32.47	46.445	95.76	2,760.72	606.89	558.05	48.84	12.427	
6,550.00	4,234.35	6,097.80	3,816.47	33.68	32.98	46.458	96.85	2,810.70	606.76	557.12	49.64	12.223	
6,600.00	4,235.28	6,147.80	3,817.60	34.18	33.50	46.471	97.93	2,860.67	606.63	556.18	50.44	12.026	
6,650.00	4,236.22	6,197.80	3,818.72	34.69	34.01	46.484	99.02	2,910.65	606.49	555.24	51.25	11.834	
6,700.00	4,237.16	6,247.80	3,819.85	35.19	34.53	46.497	100.11	2,960.62	606.36	554.30	52.06	11.647	
6,750.00	4,238.10	6,297.80	3,820.98	35.70	35.05	46.510	101.19	3,010.60	606.23	553.36	52.87	11.466	
6,800.00	4,239.04	6,347.79	3,822.11	36.21	35.57	46.523	102.28	3,060.57	606.10	552.41	53.69	11.289	
6,850.00	4,239.98	6,397.79	3,823.24	36.72	36.09	46.536	103.37	3,110.55	605.97	551.47	54.51	11.118	
6,900.00	4,240.92	6,447.79	3,824.36	37.23	36.61	46.549	104.45	3,160.52	605.84	550.52	55.32	10.951	
6,950.00	4,241.85	6,497.79	3,825.49	37.75	37.13	46.562	105.54	3,210.50	605.71	549.57	56.14	10.788	
7,000.00	4,242.79	6,547.79	3,826.62	38.26	37.65	46.575	106.63	3,260.47	605.58	548.61	56.97	10.630	
7,050.00	4,243.73	6,597.79	3,827.75	38.78	38.18	46.588	107.71	3,310.45	605.45	547.66	57.79	10.476	
7,100.00	4,244.67	6,647.79	3,828.87	39.29	38.70	46.601	108.80	3,360.42	605.32	546.70	58.62	10.326	
7,150.00	4,245.61	6,697.79	3,830.00	39.81	39.23	46.614	109.89	3,410.40	605.19	545.74	59.45	10.180	
7,200.00	4,246.55	6,747.79	3,831.13	40.33	39.76	46.627	110.97	3,460.37	605.06	544.78	60.28	10.038	
7,250.00	4,247.48	6,797.79	3,832.26	40.85	40.29	46.640	112.06	3,510.35	604.93	543.82	61.11	9.899	
7,300.00	4,248.42	6,847.79	3,833.39	41.38	40.82	46.653	113.15	3,560.32	604.80	542.86	61.94	9.764	
7,350.00	4,249.36	6,897.79	3,834.51	41.90	41.35	46.666	114.23	3,610.30	604.67	541.89	62.78	9.632	
7,400.00	4,250.30	6,947.79	3,835.64	42.42	41.88	46.679	115.32	3,660.27	604.54	540.93	63.61	9.504	
7,450.00	4,251.24	6,997.79	3,836.77	42.95	42.41	46.692	116.41	3,710.25	604.41	539.96	64.45	9.378	
7,500.00	4,252.18	7,047.79	3,837.90	43.48	42.95	46.705	117.49	3,760.22	604.28	538.99	65.29	9.256	
7,550.00	4,253.11	7,097.79	3,839.03	44.00	43.48	46.719	118.58	3,810.20	604.15	538.02	66.13	9.136	
7,600.00	4,254.05	7,147.79	3,840.15	44.53	44.02	46.732	119.66	3,860.17	604.02	537.05	66.97	9.019	
7,650.00	4,254.99	7,197.79	3,841.28	45.06	44.55	46.745	120.75	3,910.15	603.89	536.07	67.81	8.905	
7,700.00	4,255.93	7,247.79	3,842.41	45.59	45.09	46.758	121.84	3,960.12	603.76	535.10	68.66	8.794	
7,750.00	4,256.87	7,297.79	3,843.54	46.12	45.62	46.771	122.92	4,010.10	603.63	534.12	69.50	8.685	
7,800.00	4,257.81	7,347.79	3,844.67	46.65	46.16	46.784	124.01	4,060.07	603.50	533.15	70.35	8.579	
7,850.00	4,258.74	7,397.79	3,845.79	47.18	46.70	46.797	125.10	4,110.05	603.37	532.17	71.20	8.475	
7,900.00	4,259.68	7,447.79	3,846.92	47.72	47.24	46.810	126.18	4,160.02	603.24	531.19	72.04	8.373	
7,950.00	4,260.62	7,497.79	3,848.05	48.25	47.78	46.823	127.27	4,210.00	603.11	530.21	72.89	8.274	
8,000.00	4,261.56	7,547.79	3,849.18	48.78	48.32	46.836	128.36	4,259.97	602.98	529.23	73.74	8.177	
8,050.00	4,262.50	7,597.79	3,850.30	49.32	48.86	46.849	129.44	4,309.95	602.85	528.25	74.60	8.081	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - 10H - Wellbore #1 - PERMIT — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR — **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
8,100.00	4,263.44	7,647.79	3,851.43	49.85	49.40	46.863	130.53	4,359.92	602.72	527.27	75.45	7.988	
8,150.00	4,264.37	7,697.79	3,852.56	50.39	49.94	46.876	131.62	4,409.90	602.59	526.28	76.30	7.897	
8,200.00	4,265.31	7,747.78	3,853.69	50.92	50.48	46.889	132.70	4,459.88	602.46	525.30	77.16	7.808	
8,250.00	4,266.25	7,797.78	3,854.82	51.46	51.02	46.902	133.79	4,509.85	602.33	524.31	78.01	7.721	
8,300.00	4,267.19	7,847.78	3,855.94	52.00	51.56	46.915	134.88	4,559.83	602.20	523.33	78.87	7.635	
8,350.00	4,268.13	7,897.78	3,857.07	52.54	52.11	46.928	135.96	4,609.80	602.07	522.34	79.73	7.552	
8,400.00	4,269.07	7,947.78	3,858.20	53.08	52.65	46.941	137.05	4,659.78	601.94	521.35	80.59	7.470	
8,450.00	4,270.01	7,997.78	3,859.33	53.62	53.19	46.955	138.14	4,709.75	601.81	520.36	81.44	7.389	
8,500.00	4,270.94	8,047.78	3,860.46	54.16	53.74	46.968	139.22	4,759.73	601.68	519.37	82.30	7.310	
8,550.00	4,271.88	8,097.78	3,861.58	54.70	54.28	46.981	140.31	4,809.70	601.55	518.38	83.16	7.233	
8,600.00	4,272.82	8,147.78	3,862.71	55.24	54.83	46.994	141.40	4,859.68	601.42	517.39	84.03	7.157	
8,650.00	4,273.76	8,197.78	3,863.84	55.78	55.37	47.007	142.48	4,909.65	601.29	516.40	84.89	7.083	
8,700.00	4,274.70	8,247.78	3,864.97	56.32	55.92	47.021	143.57	4,959.63	601.16	515.41	85.75	7.010	
8,750.00	4,275.64	8,297.78	3,866.10	56.86	56.46	47.034	144.65	5,009.60	601.03	514.41	86.62	6.939	
8,800.00	4,276.57	8,347.78	3,867.22	57.40	57.01	47.047	145.74	5,059.58	600.90	513.42	87.48	6.869	
8,850.00	4,277.51	8,397.78	3,868.35	57.95	57.56	47.060	146.83	5,109.55	600.77	512.43	88.35	6.800	
8,900.00	4,278.45	8,447.78	3,869.48	58.49	58.10	47.073	147.91	5,159.53	600.64	511.43	89.21	6.733	
8,950.00	4,279.39	8,497.78	3,870.61	59.03	58.65	47.087	149.00	5,209.50	600.51	510.43	90.08	6.667	
9,000.00	4,280.33	8,547.78	3,871.73	59.58	59.20	47.100	150.09	5,259.48	600.38	509.44	90.95	6.602	
9,050.00	4,281.27	8,597.78	3,872.86	60.12	59.75	47.113	151.17	5,309.45	600.25	508.44	91.81	6.538	
9,100.00	4,282.20	8,647.78	3,873.99	60.66	60.30	47.126	152.26	5,359.43	600.13	507.44	92.68	6.475	
9,150.00	4,283.14	8,697.78	3,875.12	61.21	60.84	47.139	153.35	5,409.40	600.00	506.44	93.55	6.413	
9,200.00	4,284.08	8,747.78	3,876.25	61.75	61.39	47.153	154.43	5,459.38	599.87	505.44	94.42	6.353	
9,250.00	4,285.02	8,797.78	3,877.37	62.30	61.94	47.166	155.52	5,509.35	599.74	504.44	95.29	6.294	
9,300.00	4,285.96	8,847.78	3,878.50	62.84	62.49	47.179	156.61	5,559.33	599.61	503.44	96.16	6.235	
9,350.00	4,286.90	8,897.78	3,879.63	63.39	63.04	47.193	157.69	5,609.30	599.48	502.44	97.04	6.178	
9,400.00	4,287.83	8,947.78	3,880.76	63.94	63.59	47.206	158.78	5,659.28	599.35	501.44	97.91	6.121	
9,450.00	4,288.77	8,997.78	3,881.89	64.48	64.14	47.219	159.87	5,709.25	599.22	500.44	98.78	6.066	
9,500.00	4,289.71	9,047.78	3,883.01	65.03	64.69	47.232	160.95	5,759.23	599.09	499.44	99.66	6.012	
9,550.00	4,290.65	9,097.78	3,884.14	65.58	65.24	47.246	162.04	5,809.20	598.96	498.43	100.53	5.958	
9,600.00	4,291.59	9,147.77	3,885.27	66.13	65.79	47.259	163.13	5,859.18	598.83	497.43	101.41	5.905	
9,650.00	4,292.53	9,197.77	3,886.40	66.67	66.34	47.272	164.21	5,909.15	598.71	496.42	102.28	5.853	
9,700.00	4,293.46	9,247.77	3,887.52	67.22	66.89	47.286	165.30	5,959.13	598.58	495.42	103.16	5.803	
9,750.00	4,294.40	9,297.77	3,888.65	67.77	67.44	47.299	166.39	6,009.10	598.45	494.41	104.03	5.752	
9,800.00	4,295.34	9,347.77	3,889.78	68.32	67.99	47.312	167.47	6,059.08	598.32	493.41	104.91	5.703	
9,850.00	4,296.28	9,397.77	3,890.91	68.87	68.55	47.325	168.56	6,109.05	598.19	492.40	105.79	5.655	
9,900.00	4,297.22	9,447.77	3,892.04	69.42	69.10	47.339	169.65	6,159.03	598.06	491.39	106.67	5.607	
9,950.00	4,298.16	9,497.77	3,893.16	69.96	69.65	47.352	170.73	6,209.00	597.93	490.39	107.55	5.560	
10,000.00	4,299.10	9,547.77	3,894.29	70.51	70.20	47.365	171.82	6,258.98	597.80	489.38	108.43	5.513	
10,050.00	4,300.03	9,597.77	3,895.42	71.06	70.75	47.379	172.90	6,308.95	597.68	488.37	109.31	5.468	
10,100.00	4,300.97	9,647.77	3,896.55	71.61	71.31	47.392	173.99	6,358.93	597.55	487.36	110.19	5.423	
10,150.00	4,301.91	9,697.77	3,897.68	72.16	71.86	47.406	175.08	6,408.90	597.42	486.35	111.07	5.379	
10,200.00	4,302.85	9,747.77	3,898.80	72.71	72.41	47.419	176.16	6,458.88	597.29	485.34	111.95	5.335	
10,250.00	4,303.79	9,797.77	3,899.93	73.26	72.96	47.432	177.25	6,508.85	597.16	484.33	112.83	5.293	
10,300.00	4,304.73	9,847.77	3,901.06	73.81	73.52	47.446	178.34	6,558.83	597.03	483.32	113.71	5.250	
10,350.00	4,305.66	9,897.77	3,902.19	74.36	74.07	47.459	179.42	6,608.80	596.90	482.31	114.60	5.209	
10,400.00	4,306.60	9,947.77	3,903.32	74.92	74.62	47.472	180.51	6,658.78	596.78	481.30	115.48	5.168	
10,450.00	4,307.54	9,997.77	3,904.44	75.47	75.18	47.486	181.60	6,708.75	596.65	480.28	116.36	5.127	
10,500.00	4,308.48	10,047.77	3,905.57	76.02	75.73	47.499	182.68	6,758.73	596.52	479.27	117.25	5.088	
10,550.00	4,309.42	10,097.77	3,906.70	76.57	76.28	47.513	183.77	6,808.71	596.39	478.26	118.13	5.048	
10,600.00	4,310.36	10,147.77	3,907.83	77.12	76.84	47.526	184.86	6,858.68	596.26	477.24	119.02	5.010	
10,650.00	4,311.29	10,197.77	3,908.95	77.67	77.39	47.539	185.94	6,908.66	596.13	476.23	119.90	4.972	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - 10H - Wellbore #1 - PERMIT — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR — **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
10,700.00	4,312.23	10,247.77	3,910.08	78.22	77.95	47.553	187.03	6,958.63	596.01	475.22	120.79	4.934	
10,750.00	4,313.17	10,297.77	3,911.21	78.78	78.50	47.566	188.12	7,008.61	595.88	474.20	121.68	4.897	
10,800.00	4,314.11	10,347.77	3,912.34	79.33	79.06	47.580	189.20	7,058.58	595.75	473.19	122.57	4.861	
10,850.00	4,315.05	10,397.77	3,913.47	79.88	79.61	47.593	190.29	7,108.56	595.62	472.17	123.45	4.825	
10,900.00	4,315.99	10,447.77	3,914.59	80.43	80.16	47.607	191.38	7,158.53	595.49	471.15	124.34	4.789	
10,950.00	4,316.92	10,497.77	3,915.72	80.99	80.72	47.620	192.46	7,208.51	595.37	470.14	125.23	4.754	
11,000.00	4,317.86	10,547.76	3,916.85	81.54	81.27	47.633	193.55	7,258.48	595.24	469.12	126.12	4.720	
11,050.00	4,318.80	10,597.76	3,917.98	82.09	81.83	47.647	194.64	7,308.46	595.11	468.10	127.01	4.686	
11,100.00	4,319.74	10,647.76	3,919.11	82.65	82.38	47.660	195.72	7,358.43	594.98	467.08	127.90	4.652	
11,150.00	4,320.68	10,697.76	3,920.23	83.20	82.94	47.674	196.81	7,408.41	594.85	466.07	128.79	4.619	
11,200.00	4,321.62	10,747.76	3,921.36	83.75	83.49	47.687	197.89	7,458.38	594.73	465.05	129.68	4.586	
11,250.00	4,322.56	10,797.76	3,922.49	84.31	84.05	47.701	198.98	7,508.36	594.60	464.03	130.57	4.554	
11,300.00	4,323.49	10,847.76	3,923.62	84.86	84.61	47.714	200.07	7,558.33	594.47	463.01	131.46	4.522	
11,330.25	4,324.06	10,878.01	3,924.30	85.19	84.94	47.722	200.73	7,588.56	594.39	462.39	132.00	4.503	
11,350.00	4,324.43	10,897.76	3,924.75	85.41	85.16	47.728	201.15	7,608.31	594.34	461.99	132.35	4.491	
11,363.54	4,324.69	10,909.80	3,925.02	85.56	85.29	47.731	201.42	7,620.33	594.31	461.73	132.58	4.483	
11,380.28	4,325.00	10,909.80	3,925.02	85.75	85.29	47.731	201.42	7,620.33	594.55	461.82	132.72	4.480	SF

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - 20H - Wellbore #1 - PERMIT — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR — **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
150.00	150.00	150.00	150.00	0.32	0.32	-0.286	20.00	-0.10	20.00	19.36	0.65	30.996	
200.00	200.00	200.00	200.00	0.50	0.50	-0.286	20.00	-0.10	20.00	19.00	1.00	19.926	
250.00	250.00	250.00	250.00	0.68	0.68	-0.286	20.00	-0.10	20.00	18.64	1.36	14.682	
300.00	300.00	300.00	300.00	0.86	0.86	-0.286	20.00	-0.10	20.00	18.28	1.72	11.624	
350.00	350.00	349.65	349.65	1.04	1.04	-5.361	20.43	-0.09	20.00	17.92	2.08	9.599	
400.00	399.98	399.31	399.29	1.22	1.22	-5.639	21.72	-0.08	20.00	17.55	2.45	8.163	
450.00	449.93	448.96	448.89	1.40	1.40	-6.103	23.87	-0.05	19.99	17.17	2.82	7.088	
500.00	499.84	498.61	498.45	1.58	1.58	-6.752	26.88	-0.02	19.99	16.80	3.19	6.267	
542.98	542.68	541.29	541.01	1.74	1.73	-7.458	30.15	0.02	19.99	16.48	3.51	5.698	CC
550.00	549.68	548.27	547.96	1.77	1.76	-7.587	30.75	0.03	19.99	16.43	3.56	5.615	
600.00	599.45	597.92	597.38	1.95	1.94	-8.606	35.48	0.09	19.99	16.06	3.93	5.090	
650.00	649.13	647.57	646.72	2.13	2.12	-9.809	41.06	0.16	20.00	15.71	4.29	4.657	
700.00	698.70	697.23	695.95	2.31	2.30	-11.194	47.49	0.24	20.03	15.37	4.66	4.298	
719.90	718.40	716.99	715.52	2.39	2.37	-11.795	50.29	0.27	20.04	15.24	4.80	4.171	
750.00	748.18	746.88	745.07	2.49	2.48	-12.658	54.78	0.33	20.23	15.21	5.02	4.033	ES
800.00	797.64	796.51	794.03	2.67	2.66	-13.740	62.92	0.43	21.22	15.86	5.36	3.956	SF
850.00	847.10	846.10	842.80	2.85	2.84	-14.335	71.89	0.54	23.08	17.36	5.72	4.034	
900.00	896.57	895.61	891.33	3.02	3.02	-14.490	81.69	0.66	25.79	19.72	6.07	4.249	
950.00	946.03	945.02	939.58	3.20	3.19	-14.314	92.30	0.79	29.34	22.92	6.42	4.569	
1,000.00	995.49	994.29	987.51	3.38	3.37	-13.926	103.71	0.93	33.75	26.97	6.78	4.979	
1,050.00	1,044.96	1,043.40	1,035.08	3.56	3.55	-13.423	115.91	1.08	38.99	31.86	7.13	5.467	
1,100.00	1,094.42	1,092.31	1,082.25	3.74	3.73	-12.875	128.86	1.23	45.08	37.59	7.49	6.021	
1,150.00	1,143.89	1,141.01	1,128.99	3.93	3.92	-12.326	142.55	1.40	52.01	44.17	7.84	6.633	
1,200.00	1,193.35	1,189.47	1,175.25	4.11	4.10	-11.799	156.97	1.58	59.77	51.58	8.19	7.294	
1,250.00	1,242.81	1,237.65	1,221.00	4.29	4.28	-11.307	172.07	1.76	68.36	59.82	8.55	7.998	
1,300.00	1,292.28	1,286.25	1,266.92	4.47	4.47	-10.859	187.96	1.96	77.66	68.76	8.90	8.724	
1,350.00	1,341.74	1,335.35	1,313.30	4.66	4.66	-10.496	204.11	2.16	87.04	77.79	9.25	9.405	
1,400.00	1,391.21	1,384.46	1,359.68	4.84	4.85	-10.204	220.25	2.36	96.43	86.82	9.61	10.037	
1,450.00	1,440.67	1,433.57	1,406.06	5.02	5.04	-9.964	236.39	2.55	105.82	95.86	9.96	10.623	
1,500.00	1,490.13	1,482.68	1,452.44	5.20	5.24	-9.763	252.53	2.75	115.21	104.89	10.32	11.169	
1,550.00	1,539.60	1,531.79	1,498.82	5.39	5.43	-9.592	268.67	2.95	124.60	113.93	10.67	11.678	
1,600.00	1,589.06	1,580.90	1,545.20	5.57	5.62	-9.446	284.81	3.15	133.99	122.97	11.02	12.154	
1,650.00	1,638.52	1,630.01	1,591.58	5.75	5.82	-9.318	300.95	3.34	143.38	132.00	11.38	12.600	
1,700.00	1,687.99	1,679.12	1,637.96	5.94	6.01	-9.206	317.09	3.54	152.78	141.04	11.74	13.019	
1,750.00	1,737.45	1,728.23	1,684.34	6.12	6.21	-9.107	333.24	3.74	162.17	150.08	12.09	13.413	
1,800.00	1,786.92	1,777.34	1,730.72	6.30	6.41	-9.019	349.38	3.94	171.56	159.12	12.45	13.784	
1,850.00	1,836.38	1,826.44	1,777.10	6.49	6.60	-8.940	365.52	4.14	180.96	168.15	12.80	14.134	
1,900.00	1,885.84	1,875.55	1,823.48	6.67	6.80	-8.869	381.66	4.33	190.35	177.19	13.16	14.465	
1,950.00	1,935.31	1,924.66	1,869.86	6.85	7.00	-8.805	397.80	4.53	199.75	186.23	13.52	14.778	
2,000.00	1,984.77	1,973.77	1,916.24	7.04	7.19	-8.746	413.94	4.73	209.14	195.27	13.87	15.075	
2,050.00	2,034.24	2,022.88	1,962.62	7.22	7.39	-8.692	430.08	4.93	218.54	204.31	14.23	15.357	
2,100.00	2,083.70	2,071.99	2,009.00	7.40	7.59	-8.643	446.22	5.13	227.93	213.35	14.59	15.625	
2,150.00	2,133.16	2,121.10	2,055.38	7.59	7.79	-8.598	462.36	5.32	237.33	222.38	14.95	15.880	
2,200.00	2,182.63	2,170.21	2,101.76	7.77	7.98	-8.556	478.51	5.52	246.72	231.42	15.30	16.123	
2,250.00	2,232.09	2,219.32	2,148.14	7.95	8.18	-8.517	494.65	5.72	256.12	240.46	15.66	16.354	
2,300.00	2,281.56	2,268.42	2,194.52	8.14	8.38	-8.481	510.79	5.92	265.52	249.50	16.02	16.575	
2,350.00	2,331.02	2,317.53	2,240.90	8.32	8.58	-8.447	526.93	6.11	274.91	258.54	16.38	16.787	
2,400.00	2,380.48	2,366.64	2,287.28	8.50	8.78	-8.416	543.07	6.31	284.31	267.57	16.73	16.989	
2,450.00	2,429.95	2,415.75	2,333.66	8.69	8.98	-8.387	559.21	6.51	293.71	276.61	17.09	17.183	
2,500.00	2,479.41	2,464.86	2,380.04	8.87	9.17	-8.359	575.35	6.71	303.10	285.65	17.45	17.368	
2,550.00	2,528.87	2,513.97	2,426.42	9.05	9.37	-8.333	591.49	6.91	312.50	294.69	17.81	17.547	
2,600.00	2,578.34	2,563.08	2,472.80	9.24	9.57	-8.309	607.64	7.10	321.89	303.73	18.17	17.718	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - 20H - Wellbore #1 - PERMIT — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR — **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
2,650.00	2,627.80	2,612.19	2,519.18	9.42	9.77	-8.286	623.78	7.30	331.29	312.76	18.53	17.882	
2,700.00	2,677.27	2,661.30	2,565.56	9.60	9.97	-8.264	639.92	7.50	340.69	321.80	18.89	18.040	
2,750.00	2,726.73	2,710.41	2,611.94	9.79	10.17	-8.244	656.06	7.70	350.08	330.84	19.24	18.192	
2,800.00	2,776.19	2,759.51	2,658.32	9.97	10.37	-8.224	672.20	7.90	359.48	339.88	19.60	18.338	
2,850.00	2,825.66	2,808.62	2,704.70	10.15	10.57	-8.206	688.34	8.09	368.88	348.92	19.96	18.479	
2,900.00	2,875.12	2,857.73	2,751.08	10.34	10.77	-8.188	704.48	8.29	378.27	357.95	20.32	18.615	
2,950.00	2,924.59	2,906.84	2,797.46	10.52	10.97	-8.171	720.62	8.49	387.67	366.99	20.68	18.746	
3,000.00	2,974.05	2,955.95	2,843.84	10.70	11.17	-8.156	736.77	8.69	397.07	376.03	21.04	18.873	
3,050.00	3,023.51	3,005.90	2,891.02	10.89	11.37	-8.134	753.17	8.93	406.46	385.06	21.40	18.993	
3,100.00	3,072.98	3,060.22	2,942.39	11.07	11.59	-7.839	770.69	11.16	415.44	393.67	21.78	19.076	
3,150.00	3,122.44	3,114.40	2,993.58	11.25	11.81	-7.148	787.60	16.42	423.85	401.70	22.15	19.132	
3,200.00	3,171.90	3,168.07	3,044.10	11.44	12.02	-6.096	803.75	24.59	431.76	409.24	22.53	19.167	
3,239.93	3,211.41	3,210.35	3,083.66	11.58	12.19	-5.023	816.03	33.08	437.82	415.00	22.82	19.184	
3,250.00	3,221.37	3,220.93	3,093.50	11.62	12.23	-8.716	819.03	35.49	439.32	416.43	22.90	19.188	
3,300.00	3,270.79	3,273.13	3,141.82	11.81	12.43	-25.620	833.45	49.01	446.76	423.50	23.26	19.207	
3,350.00	3,320.03	3,324.86	3,189.06	11.99	12.62	-38.362	847.04	65.06	454.10	430.47	23.62	19.221	
3,400.00	3,368.97	3,376.10	3,235.13	12.17	12.80	-46.940	859.79	83.52	461.32	437.34	23.99	19.231	
3,450.00	3,417.47	3,426.89	3,279.92	12.35	12.98	-52.505	871.68	104.28	468.40	444.05	24.35	19.235	
3,500.00	3,465.40	3,477.22	3,323.34	12.53	13.15	-56.082	882.71	127.21	475.30	450.59	24.71	19.236	
3,550.00	3,512.62	3,527.11	3,365.30	12.70	13.32	-58.362	892.85	152.20	482.00	456.94	25.06	19.232	
3,600.00	3,559.01	3,576.56	3,405.73	12.87	13.48	-59.782	902.12	179.13	488.46	463.05	25.41	19.224	
3,650.00	3,604.43	3,625.60	3,444.57	13.04	13.64	-60.617	910.50	207.86	494.67	468.92	25.75	19.213	
3,700.00	3,648.77	3,674.23	3,481.74	13.20	13.79	-61.046	918.00	238.29	500.59	474.51	26.07	19.199	
3,750.00	3,691.90	3,722.45	3,517.20	13.37	13.94	-61.190	924.61	270.29	506.20	479.80	26.39	19.181	
3,800.00	3,733.71	3,770.29	3,550.90	13.54	14.08	-61.130	930.36	303.74	511.47	484.78	26.70	19.159	
3,850.00	3,774.07	3,817.74	3,582.79	13.71	14.23	-60.923	935.23	338.53	516.40	489.41	26.99	19.132	
3,900.00	3,812.89	3,864.82	3,612.84	13.88	14.38	-60.610	939.24	374.54	520.95	493.68	27.27	19.100	
3,950.00	3,850.04	3,911.54	3,641.03	14.06	14.53	-60.222	942.40	411.66	525.12	497.57	27.55	19.062	
4,000.00	3,885.44	3,957.90	3,667.33	14.25	14.69	-59.781	944.73	449.77	528.87	501.06	27.81	19.015	
4,050.00	3,918.98	4,003.92	3,691.71	14.45	14.86	-59.304	946.22	488.76	532.20	504.13	28.07	18.960	
4,100.00	3,950.58	4,052.29	3,715.97	14.65	15.05	-58.826	947.17	530.60	535.00	506.66	28.34	18.878	
4,150.00	3,980.13	4,101.98	3,740.81	14.87	15.25	-58.565	948.10	573.62	536.98	508.34	28.64	18.751	
4,200.00	4,007.58	4,151.89	3,765.77	15.09	15.48	-58.561	949.04	616.84	538.05	509.06	28.99	18.562	
4,230.69	4,023.34	4,182.57	3,781.11	15.23	15.63	-58.690	949.62	643.40	538.23	509.01	29.22	18.419	
4,250.00	4,032.99	4,201.88	3,790.77	15.33	15.72	-58.690	949.98	660.12	538.23	508.83	29.40	18.308	
4,255.19	4,035.59	4,207.08	3,793.36	15.35	15.75	-58.690	950.08	664.62	538.23	508.78	29.45	18.278	
4,300.00	4,057.99	4,240.41	3,809.61	15.57	15.92	-58.646	950.71	693.72	538.60	508.79	29.80	18.071	
4,350.00	4,082.99	4,273.84	3,824.25	15.84	16.10	-58.434	951.36	723.75	540.43	510.25	30.18	17.905	
4,400.00	4,107.99	4,300.00	3,834.48	16.10	16.25	-58.146	951.89	747.83	543.88	513.37	30.51	17.825	
4,430.69	4,123.34	4,326.88	3,843.82	16.27	16.40	-57.743	952.43	773.02	546.68	515.93	30.74	17.781	
4,450.00	4,132.71	4,339.37	3,847.76	16.38	16.48	-57.374	952.69	784.87	548.61	517.81	30.80	17.809	
4,500.00	4,154.28	4,371.62	3,856.73	16.66	16.67	-56.532	953.36	815.83	553.12	522.15	30.97	17.862	
4,550.00	4,171.84	4,400.00	3,863.17	16.96	16.84	-55.891	953.96	843.47	556.86	525.72	31.14	17.883	
4,600.00	4,185.26	4,435.77	3,869.32	17.26	17.05	-55.339	954.73	878.69	559.73	528.36	31.37	17.841	
4,650.00	4,194.43	4,467.74	3,872.95	17.55	17.24	-54.983	955.42	910.44	561.75	530.10	31.65	17.749	
4,700.00	4,199.28	4,500.00	3,874.81	17.85	17.44	-54.786	956.12	942.63	562.88	530.88	31.99	17.593	
4,719.94	4,200.00	4,514.65	3,875.09	17.97	17.53	-54.753	956.44	957.28	563.06	530.90	32.16	17.507	
4,750.00	4,200.56	4,544.72	3,875.54	18.15	17.72	-54.744	957.09	987.33	563.13	530.64	32.48	17.336	
4,800.00	4,201.50	4,594.72	3,876.29	18.46	18.04	-54.728	958.18	1,037.32	563.24	530.22	33.02	17.059	
4,850.00	4,202.44	4,644.72	3,877.04	18.78	18.37	-54.713	959.26	1,087.30	563.35	529.76	33.59	16.774	
4,900.00	4,203.38	4,694.72	3,877.79	19.11	18.71	-54.697	960.35	1,137.28	563.45	529.30	34.15	16.497	
4,950.00	4,204.32	4,744.72	3,878.54	19.46	19.07	-54.681	961.43	1,187.26	563.56	528.81	34.76	16.215	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - 20H - Wellbore #1 - PERMIT — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR — **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
5,000.00	4,205.26	4,794.72	3,879.29	19.80	19.42	-54.665	962.52	1,237.25	563.67	528.31	35.36	15.941	
5,050.00	4,206.19	4,844.72	3,880.04	20.17	19.80	-54.650	963.60	1,287.23	563.78	527.79	35.99	15.665	
5,100.00	4,207.13	4,894.71	3,880.79	20.54	20.18	-54.634	964.69	1,337.21	563.89	527.27	36.62	15.397	
5,150.00	4,208.07	4,944.71	3,881.54	20.92	20.57	-54.618	965.78	1,387.19	564.00	526.72	37.28	15.128	
5,200.00	4,209.01	4,994.71	3,882.29	21.30	20.96	-54.603	966.86	1,437.17	564.11	526.17	37.94	14.868	
5,250.00	4,209.95	5,044.71	3,883.04	21.70	21.37	-54.587	967.95	1,487.16	564.22	525.59	38.62	14.608	
5,300.00	4,210.89	5,094.71	3,883.79	22.10	21.78	-54.571	969.03	1,537.14	564.33	525.02	39.31	14.357	
5,350.00	4,211.83	5,144.71	3,884.54	22.51	22.20	-54.556	970.12	1,587.12	564.44	524.42	40.01	14.107	
5,400.00	4,212.76	5,194.71	3,885.29	22.92	22.62	-54.540	971.21	1,637.10	564.55	523.83	40.72	13.865	
5,450.00	4,213.70	5,244.71	3,886.04	23.35	23.05	-54.524	972.29	1,687.09	564.65	523.21	41.44	13.626	
5,500.00	4,214.64	5,294.71	3,886.79	23.77	23.49	-54.509	973.38	1,737.07	564.76	522.60	42.17	13.394	
5,550.00	4,215.58	5,344.71	3,887.54	24.21	23.93	-54.493	974.46	1,787.05	564.87	521.97	42.91	13.165	
5,600.00	4,216.52	5,394.71	3,888.29	24.64	24.38	-54.478	975.55	1,837.03	564.98	521.33	43.65	12.944	
5,650.00	4,217.46	5,444.71	3,889.03	25.09	24.83	-54.462	976.64	1,887.01	565.09	520.69	44.41	12.726	
5,700.00	4,218.39	5,494.71	3,889.78	25.53	25.28	-54.446	977.72	1,937.00	565.20	520.04	45.16	12.515	
5,750.00	4,219.33	5,544.71	3,890.53	25.99	25.74	-54.431	978.81	1,986.98	565.31	519.38	45.93	12.307	
5,800.00	4,220.27	5,594.71	3,891.28	26.44	26.21	-54.415	979.89	2,036.96	565.42	518.72	46.71	12.106	
5,850.00	4,221.21	5,644.71	3,892.03	26.91	26.67	-54.400	980.98	2,086.94	565.53	518.04	47.49	11.909	
5,900.00	4,222.15	5,694.71	3,892.78	27.37	27.14	-54.384	982.07	2,136.93	565.64	517.37	48.27	11.717	
5,950.00	4,223.09	5,744.71	3,893.53	27.84	27.62	-54.368	983.15	2,186.91	565.75	516.68	49.07	11.530	
6,000.00	4,224.02	5,794.71	3,894.28	28.31	28.10	-54.353	984.24	2,236.89	565.86	516.00	49.86	11.348	
6,050.00	4,224.96	5,844.71	3,895.03	28.78	28.58	-54.337	985.32	2,286.87	565.97	515.30	50.67	11.170	
6,100.00	4,225.90	5,894.71	3,895.78	29.26	29.06	-54.322	986.41	2,336.85	566.08	514.60	51.47	10.997	
6,150.00	4,226.84	5,944.71	3,896.53	29.74	29.55	-54.306	987.50	2,386.84	566.19	513.90	52.29	10.828	
6,200.00	4,227.78	5,994.71	3,897.28	30.23	30.04	-54.291	988.58	2,436.82	566.30	513.20	53.10	10.664	
6,250.00	4,228.72	6,044.71	3,898.03	30.71	30.53	-54.275	989.67	2,486.80	566.41	512.48	53.93	10.503	
6,300.00	4,229.65	6,094.71	3,898.78	31.20	31.02	-54.259	990.75	2,536.78	566.52	511.77	54.75	10.347	
6,350.00	4,230.59	6,144.71	3,899.53	31.69	31.52	-54.244	991.84	2,586.77	566.63	511.05	55.58	10.195	
6,400.00	4,231.53	6,194.71	3,900.28	32.19	32.02	-54.228	992.92	2,636.75	566.74	510.33	56.41	10.047	
6,450.00	4,232.47	6,244.71	3,901.03	32.68	32.52	-54.213	994.01	2,686.73	566.85	509.60	57.25	9.902	
6,500.00	4,233.41	6,294.70	3,901.77	33.18	33.02	-54.197	995.10	2,736.71	566.96	508.87	58.09	9.761	
6,550.00	4,234.35	6,344.70	3,902.52	33.68	33.53	-54.182	996.18	2,786.69	567.07	508.14	58.93	9.623	
6,600.00	4,235.28	6,394.70	3,903.27	34.18	34.03	-54.166	997.27	2,836.68	567.18	507.41	59.77	9.489	
6,650.00	4,236.22	6,444.70	3,904.02	34.69	34.54	-54.151	998.35	2,886.66	567.29	506.67	60.62	9.358	
6,700.00	4,237.16	6,494.70	3,904.77	35.19	35.05	-54.135	999.44	2,936.64	567.40	505.93	61.47	9.230	
6,750.00	4,238.10	6,544.70	3,905.52	35.70	35.56	-54.120	1,000.53	2,986.62	567.51	505.18	62.33	9.105	
6,800.00	4,239.04	6,594.70	3,906.27	36.21	36.08	-54.104	1,001.61	3,036.61	567.62	504.44	63.18	8.984	
6,850.00	4,239.98	6,644.70	3,907.02	36.72	36.59	-54.089	1,002.70	3,086.59	567.73	503.69	64.04	8.865	
6,900.00	4,240.92	6,694.70	3,907.77	37.23	37.11	-54.073	1,003.78	3,136.57	567.84	502.94	64.90	8.749	
6,950.00	4,241.85	6,744.70	3,908.52	37.75	37.63	-54.058	1,004.87	3,186.55	567.95	502.19	65.76	8.636	
7,000.00	4,242.79	6,794.70	3,909.27	38.26	38.14	-54.042	1,005.96	3,236.53	568.06	501.44	66.63	8.526	
7,050.00	4,243.73	6,844.70	3,910.02	38.78	38.66	-54.027	1,007.04	3,286.52	568.17	500.68	67.49	8.418	
7,100.00	4,244.67	6,894.70	3,910.77	39.29	39.18	-54.012	1,008.13	3,336.50	568.29	499.92	68.36	8.313	
7,150.00	4,245.61	6,944.70	3,911.52	39.81	39.71	-53.996	1,009.21	3,386.48	568.40	499.16	69.23	8.210	
7,200.00	4,246.55	6,994.70	3,912.27	40.33	40.23	-53.981	1,010.30	3,436.46	568.51	498.40	70.10	8.109	
7,250.00	4,247.48	7,044.70	3,913.02	40.85	40.76	-53.965	1,011.39	3,486.45	568.62	497.64	70.98	8.011	
7,300.00	4,248.42	7,094.70	3,913.77	41.38	41.28	-53.950	1,012.47	3,536.43	568.73	496.88	71.85	7.915	
7,350.00	4,249.36	7,144.70	3,914.52	41.90	41.81	-53.934	1,013.56	3,586.41	568.84	496.11	72.73	7.821	
7,400.00	4,250.30	7,194.70	3,915.26	42.42	42.33	-53.919	1,014.64	3,636.39	568.95	495.34	73.61	7.729	
7,450.00	4,251.24	7,244.70	3,916.01	42.95	42.86	-53.904	1,015.73	3,686.38	569.06	494.57	74.49	7.640	
7,500.00	4,252.18	7,294.70	3,916.76	43.48	43.39	-53.888	1,016.81	3,736.36	569.17	493.80	75.37	7.552	
7,550.00	4,253.11	7,344.70	3,917.51	44.00	43.92	-53.873	1,017.90	3,786.34	569.28	493.03	76.25	7.466	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - 20H - Wellbore #1 - PERMIT — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR — **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	4,254.05	7,394.70	3,918.26	44.53	44.45	-53.857	1,018.99	3,836.32	569.39	492.26	77.13	7.382	
7,650.00	4,254.99	7,444.70	3,919.01	45.06	44.98	-53.842	1,020.07	3,886.30	569.51	491.49	78.02	7.300	
7,700.00	4,255.93	7,494.70	3,919.76	45.59	45.52	-53.827	1,021.16	3,936.29	569.62	490.71	78.90	7.219	
7,750.00	4,256.87	7,544.70	3,920.51	46.12	46.05	-53.811	1,022.24	3,986.27	569.73	489.94	79.79	7.140	
7,800.00	4,257.81	7,594.70	3,921.26	46.65	46.58	-53.796	1,023.33	4,036.25	569.84	489.16	80.68	7.063	
7,850.00	4,258.74	7,644.70	3,922.01	47.18	47.12	-53.781	1,024.42	4,086.23	569.95	488.38	81.57	6.988	
7,900.00	4,259.68	7,694.69	3,922.76	47.72	47.65	-53.765	1,025.50	4,136.22	570.06	487.61	82.46	6.914	
7,950.00	4,260.62	7,744.69	3,923.51	48.25	48.19	-53.750	1,026.59	4,186.20	570.17	486.83	83.35	6.841	
8,000.00	4,261.56	7,794.69	3,924.26	48.78	48.72	-53.735	1,027.67	4,236.18	570.28	486.05	84.24	6.770	
8,050.00	4,262.50	7,844.69	3,925.01	49.32	49.26	-53.719	1,028.76	4,286.16	570.40	485.27	85.13	6.700	
8,100.00	4,263.44	7,894.69	3,925.76	49.85	49.80	-53.704	1,029.85	4,336.14	570.51	484.49	86.02	6.632	
8,150.00	4,264.37	7,944.69	3,926.51	50.39	50.34	-53.689	1,030.93	4,386.13	570.62	483.70	86.92	6.565	
8,200.00	4,265.31	7,994.69	3,927.26	50.92	50.87	-53.673	1,032.02	4,436.11	570.73	482.92	87.81	6.500	
8,250.00	4,266.25	8,044.69	3,928.00	51.46	51.41	-53.658	1,033.10	4,486.09	570.84	482.14	88.71	6.435	
8,300.00	4,267.19	8,094.69	3,928.75	52.00	51.95	-53.643	1,034.19	4,536.07	570.95	481.35	89.60	6.372	
8,350.00	4,268.13	8,144.69	3,929.50	52.54	52.49	-53.627	1,035.28	4,586.06	571.07	480.57	90.50	6.310	
8,400.00	4,269.07	8,194.69	3,930.25	53.08	53.03	-53.612	1,036.36	4,636.04	571.18	479.78	91.39	6.250	
8,450.00	4,270.01	8,244.69	3,931.00	53.62	53.58	-53.597	1,037.45	4,686.02	571.29	479.00	92.29	6.190	
8,500.00	4,270.94	8,294.69	3,931.75	54.16	54.12	-53.582	1,038.53	4,736.00	571.40	478.21	93.19	6.132	
8,550.00	4,271.88	8,344.69	3,932.50	54.70	54.66	-53.566	1,039.62	4,785.98	571.51	477.43	94.09	6.074	
8,600.00	4,272.82	8,394.69	3,933.25	55.24	55.20	-53.551	1,040.71	4,835.97	571.63	476.64	94.99	6.018	
8,650.00	4,273.76	8,444.69	3,934.00	55.78	55.74	-53.536	1,041.79	4,885.95	571.74	475.85	95.89	5.963	
8,700.00	4,274.70	8,494.69	3,934.75	56.32	56.29	-53.521	1,042.88	4,935.93	571.85	475.06	96.79	5.908	
8,750.00	4,275.64	8,544.69	3,935.50	56.86	56.83	-53.505	1,043.96	4,985.91	571.96	474.27	97.69	5.855	
8,800.00	4,276.57	8,594.69	3,936.25	57.40	57.37	-53.490	1,045.05	5,035.90	572.07	473.49	98.59	5.803	
8,850.00	4,277.51	8,644.69	3,937.00	57.95	57.92	-53.475	1,046.13	5,085.88	572.19	472.70	99.49	5.751	
8,900.00	4,278.45	8,694.69	3,937.75	58.49	58.46	-53.460	1,047.22	5,135.86	572.30	471.91	100.39	5.701	
8,950.00	4,279.39	8,744.69	3,938.50	59.03	59.01	-53.444	1,048.31	5,185.84	572.41	471.12	101.29	5.651	
9,000.00	4,280.33	8,794.69	3,939.25	59.58	59.55	-53.429	1,049.39	5,235.82	572.52	470.33	102.19	5.602	
9,050.00	4,281.27	8,844.69	3,940.00	60.12	60.10	-53.414	1,050.48	5,285.81	572.63	469.54	103.10	5.554	
9,100.00	4,282.20	8,894.69	3,940.74	60.66	60.64	-53.399	1,051.56	5,335.79	572.75	468.75	104.00	5.507	
9,150.00	4,283.14	8,944.69	3,941.49	61.21	61.19	-53.384	1,052.65	5,385.77	572.86	467.96	104.90	5.461	
9,200.00	4,284.08	8,994.69	3,942.24	61.75	61.74	-53.368	1,053.74	5,435.75	572.97	467.17	105.81	5.415	
9,250.00	4,285.02	9,044.69	3,942.99	62.30	62.28	-53.353	1,054.82	5,485.74	573.08	466.37	106.71	5.370	
9,300.00	4,285.96	9,094.68	3,943.74	62.84	62.83	-53.338	1,055.91	5,535.72	573.20	465.58	107.61	5.326	
9,350.00	4,286.90	9,144.68	3,944.49	63.39	63.38	-53.323	1,056.99	5,585.70	573.31	464.79	108.52	5.283	
9,400.00	4,287.83	9,194.68	3,945.24	63.94	63.93	-53.308	1,058.08	5,635.68	573.42	464.00	109.42	5.240	
9,450.00	4,288.77	9,244.68	3,945.99	64.48	64.47	-53.292	1,059.17	5,685.66	573.53	463.21	110.33	5.198	
9,500.00	4,289.71	9,294.68	3,946.74	65.03	65.02	-53.277	1,060.25	5,735.65	573.65	462.41	111.23	5.157	
9,550.00	4,290.65	9,344.68	3,947.49	65.58	65.57	-53.262	1,061.34	5,785.63	573.76	461.62	112.14	5.117	
9,600.00	4,291.59	9,394.68	3,948.24	66.13	66.12	-53.247	1,062.42	5,835.61	573.87	460.83	113.04	5.077	
9,650.00	4,292.53	9,444.68	3,948.99	66.67	66.67	-53.232	1,063.51	5,885.59	573.98	460.04	113.95	5.037	
9,700.00	4,293.46	9,494.68	3,949.74	67.22	67.22	-53.217	1,064.60	5,935.58	574.10	459.24	114.85	4.999	
9,750.00	4,294.40	9,544.68	3,950.49	67.77	67.77	-53.202	1,065.68	5,985.56	574.21	458.45	115.76	4.960	
9,800.00	4,295.34	9,594.68	3,951.24	68.32	68.32	-53.186	1,066.77	6,035.54	574.32	457.66	116.67	4.923	
9,850.00	4,296.28	9,644.68	3,951.99	68.87	68.87	-53.171	1,067.85	6,085.52	574.44	456.86	117.57	4.886	
9,900.00	4,297.22	9,694.68	3,952.74	69.42	69.42	-53.156	1,068.94	6,135.50	574.55	456.07	118.48	4.849	
9,950.00	4,298.16	9,744.68	3,953.49	69.96	69.97	-53.141	1,070.02	6,185.49	574.66	455.28	119.38	4.814	
10,000.00	4,299.10	9,794.68	3,954.23	70.51	70.52	-53.126	1,071.11	6,235.47	574.78	454.49	120.29	4.778	
10,050.00	4,300.03	9,844.68	3,954.98	71.06	71.07	-53.111	1,072.20	6,285.45	574.89	453.69	121.20	4.743	
10,100.00	4,300.97	9,894.68	3,955.73	71.61	71.62	-53.096	1,073.28	6,335.43	575.00	452.90	122.10	4.709	
10,150.00	4,301.91	9,944.68	3,956.48	72.16	72.17	-53.081	1,074.37	6,385.42	575.11	452.11	123.01	4.675	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - 20H - Wellbore #1 - PERMIT — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR — **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
10,200.00	4,302.85	9,994.68	3,957.23	72.71	72.72	-53.066	1,075.45	6,435.40	575.23	451.31	123.92	4.642	
10,250.00	4,303.79	10,044.68	3,957.98	73.26	73.27	-53.051	1,076.54	6,485.38	575.34	450.52	124.82	4.609	
10,300.00	4,304.73	10,094.68	3,958.73	73.81	73.82	-53.036	1,077.63	6,535.36	575.45	449.73	125.73	4.577	
10,350.00	4,305.66	10,144.68	3,959.48	74.36	74.38	-53.020	1,078.71	6,585.34	575.57	448.93	126.64	4.545	
10,400.00	4,306.60	10,194.68	3,960.23	74.92	74.93	-53.005	1,079.80	6,635.33	575.68	448.14	127.54	4.514	
10,450.00	4,307.54	10,244.68	3,960.98	75.47	75.48	-52.990	1,080.88	6,685.31	575.79	447.34	128.45	4.483	
10,500.00	4,308.48	10,294.68	3,961.73	76.02	76.03	-52.975	1,081.97	6,735.29	575.91	446.55	129.36	4.452	
10,550.00	4,309.42	10,344.68	3,962.48	76.57	76.58	-52.960	1,083.06	6,785.27	576.02	445.76	130.26	4.422	
10,600.00	4,310.36	10,394.68	3,963.23	77.12	77.14	-52.945	1,084.14	6,835.26	576.13	444.96	131.17	4.392	
10,650.00	4,311.29	10,444.68	3,963.98	77.67	77.69	-52.930	1,085.23	6,885.24	576.25	444.17	132.08	4.363	
10,700.00	4,312.23	10,494.67	3,964.73	78.22	78.24	-52.915	1,086.31	6,935.22	576.36	443.38	132.98	4.334	
10,750.00	4,313.17	10,544.67	3,965.48	78.78	78.79	-52.900	1,087.40	6,985.20	576.48	442.58	133.89	4.306	
10,800.00	4,314.11	10,594.67	3,966.23	79.33	79.35	-52.885	1,088.49	7,035.18	576.59	441.79	134.80	4.277	
10,850.00	4,315.05	10,644.67	3,966.97	79.88	79.90	-52.870	1,089.57	7,085.17	576.70	441.00	135.70	4.250	
10,900.00	4,315.99	10,694.67	3,967.72	80.43	80.45	-52.855	1,090.66	7,135.15	576.82	440.21	136.61	4.222	
10,950.00	4,316.92	10,744.67	3,968.47	80.99	81.01	-52.840	1,091.74	7,185.13	576.93	439.41	137.52	4.195	
11,000.00	4,317.86	10,794.67	3,969.22	81.54	81.56	-52.825	1,092.83	7,235.11	577.04	438.62	138.43	4.169	
11,050.00	4,318.80	10,844.67	3,969.97	82.09	82.12	-52.810	1,093.92	7,285.10	577.16	437.83	139.33	4.142	
11,100.00	4,319.74	10,894.67	3,970.72	82.65	82.67	-52.795	1,095.00	7,335.08	577.27	437.03	140.24	4.116	
11,150.00	4,320.68	10,944.67	3,971.47	83.20	83.22	-52.780	1,096.09	7,385.06	577.39	436.24	141.15	4.091	
11,200.00	4,321.62	10,994.67	3,972.22	83.75	83.78	-52.765	1,097.17	7,435.04	577.50	435.45	142.05	4.065	
11,250.00	4,322.56	11,044.67	3,972.97	84.31	84.33	-52.750	1,098.26	7,485.02	577.61	434.66	142.96	4.040	
11,300.00	4,323.49	11,094.67	3,973.72	84.86	84.89	-52.736	1,099.34	7,535.01	577.73	433.86	143.86	4.016	
11,330.25	4,324.06	11,124.92	3,974.17	85.19	85.22	-52.727	1,100.00	7,565.24	577.80	433.38	144.41	4.001	
11,350.00	4,324.43	11,144.67	3,974.47	85.41	85.44	-52.721	1,100.43	7,584.99	577.84	433.07	144.77	3.991	
11,380.28	4,325.00	11,174.95	3,974.92	85.75	85.78	-52.712	1,101.09	7,615.26	577.91	432.59	145.32	3.977	

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - 21H - Wellbore #1 - PERMIT — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR — **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
250.00	250.00	250.00	250.00	0.68	0.68	179.426	-59.90	0.60	59.90	58.54	1.36	43.975	
300.00	300.00	300.00	300.00	0.86	0.86	179.426	-59.90	0.60	59.90	58.18	1.72	34.814	CC, ES
350.00	350.00	348.96	348.96	1.04	1.03	174.455	-60.32	0.63	60.76	58.69	2.07	29.300	
400.00	399.98	397.84	397.82	1.22	1.20	174.486	-61.57	0.73	63.34	60.91	2.43	26.032	
450.00	449.93	446.55	446.48	1.40	1.36	174.532	-63.64	0.89	67.64	64.84	2.80	24.188	
500.00	499.84	494.99	494.84	1.58	1.53	174.586	-66.51	1.11	73.64	70.48	3.16	23.308	
550.00	549.68	543.10	542.81	1.77	1.70	174.642	-70.18	1.39	81.33	77.81	3.52	23.077	
600.00	599.45	590.78	590.29	1.95	1.86	174.696	-74.60	1.74	90.70	86.81	3.89	23.338	
650.00	649.13	637.97	637.19	2.13	2.03	174.745	-79.75	2.13	101.73	97.48	4.25	23.959	
700.00	698.70	684.59	683.43	2.31	2.20	174.787	-85.60	2.59	114.40	109.80	4.60	24.865	
719.90	718.40	702.97	701.64	2.39	2.26	174.802	-88.11	2.78	119.89	115.15	4.74	25.290	
750.00	748.18	730.60	728.98	2.49	2.36	174.832	-92.11	3.09	128.53	123.59	4.94	26.027	
800.00	797.64	776.16	773.97	2.67	2.52	174.855	-99.26	3.64	143.49	138.22	5.27	27.251	
850.00	847.10	821.25	818.38	2.85	2.69	174.853	-107.05	4.24	159.19	153.60	5.60	28.449	
900.00	896.57	865.87	862.20	3.02	2.85	174.833	-115.44	4.89	175.64	169.72	5.92	29.682	
950.00	946.03	910.00	905.40	3.20	3.02	174.800	-124.41	5.58	192.82	186.58	6.24	30.900	
1,000.00	995.49	953.62	947.97	3.38	3.18	174.758	-133.92	6.32	210.71	204.14	6.56	32.098	
1,050.00	1,044.96	1,000.00	993.06	3.56	3.36	174.705	-144.74	7.16	229.33	222.43	6.90	33.252	
1,100.00	1,094.42	1,039.33	1,031.15	3.74	3.51	174.656	-154.49	7.91	248.58	241.38	7.21	34.499	
1,150.00	1,143.89	1,081.38	1,071.73	3.93	3.68	174.600	-165.49	8.76	268.55	261.02	7.52	35.700	
1,200.00	1,193.35	1,122.90	1,111.63	4.11	3.84	174.543	-176.93	9.64	289.17	281.33	7.84	36.871	
1,250.00	1,242.81	1,167.84	1,154.71	4.29	4.02	174.483	-189.68	10.63	310.19	302.03	8.16	37.993	
1,300.00	1,292.28	1,213.21	1,198.20	4.47	4.20	174.430	-202.56	11.62	331.21	322.73	8.49	39.033	
1,350.00	1,341.74	1,258.57	1,241.69	4.66	4.38	174.384	-215.44	12.62	352.23	343.43	8.81	39.996	
1,400.00	1,391.21	1,303.94	1,285.18	4.84	4.56	174.342	-228.32	13.61	373.26	364.13	9.13	40.891	
1,450.00	1,440.67	1,349.30	1,328.67	5.02	4.75	174.305	-241.19	14.61	394.28	384.83	9.45	41.717	
1,500.00	1,490.13	1,394.67	1,372.15	5.20	4.93	174.272	-254.07	15.60	415.30	405.53	9.77	42.489	
1,550.00	1,539.60	1,440.04	1,415.64	5.39	5.12	174.242	-266.95	16.60	436.32	426.22	10.10	43.206	
1,600.00	1,589.06	1,485.40	1,459.13	5.57	5.31	174.215	-279.83	17.59	457.34	446.92	10.42	43.877	
1,650.00	1,638.52	1,530.77	1,502.62	5.75	5.49	174.190	-292.71	18.59	478.37	467.62	10.75	44.505	
1,700.00	1,687.99	1,576.13	1,546.10	5.94	5.68	174.168	-305.58	19.58	499.39	488.32	11.07	45.094	
1,750.00	1,737.45	1,621.50	1,589.59	6.12	5.87	174.147	-318.46	20.58	520.41	509.01	11.40	45.648	
1,800.00	1,786.92	1,666.86	1,633.08	6.30	6.05	174.127	-331.34	21.57	541.43	529.71	11.73	46.169	
1,850.00	1,836.38	1,712.23	1,676.57	6.49	6.24	174.110	-344.22	22.57	562.46	550.40	12.05	46.660	
1,900.00	1,885.84	1,757.59	1,720.06	6.67	6.43	174.093	-357.10	23.56	583.48	571.10	12.38	47.124	
1,950.00	1,935.31	1,802.96	1,763.54	6.85	6.62	174.078	-369.97	24.56	604.50	591.79	12.71	47.563	
2,000.00	1,984.77	1,848.32	1,807.03	7.04	6.81	174.063	-382.85	25.55	625.53	612.49	13.04	47.978	
2,050.00	2,034.24	1,893.69	1,850.52	7.22	6.99	174.050	-395.73	26.55	646.55	633.18	13.37	48.373	
2,100.00	2,083.70	1,939.06	1,894.01	7.40	7.18	174.037	-408.61	27.54	667.57	653.88	13.69	48.747	
2,150.00	2,133.16	1,984.42	1,937.50	7.59	7.37	174.025	-421.48	28.54	688.59	674.57	14.02	49.103	
2,200.00	2,182.63	2,029.79	1,980.98	7.77	7.56	174.014	-434.36	29.53	709.62	695.26	14.35	49.442	
2,250.00	2,232.09	2,075.15	2,024.47	7.95	7.75	174.004	-447.24	30.53	730.64	715.96	14.68	49.764	
2,300.00	2,281.56	2,120.52	2,067.96	8.14	7.94	173.994	-460.12	31.52	751.66	736.65	15.01	50.073	
2,350.00	2,331.02	2,165.88	2,111.45	8.32	8.13	173.985	-473.00	32.52	772.69	757.34	15.34	50.367	
2,400.00	2,380.48	2,211.25	2,154.93	8.50	8.32	173.976	-485.87	33.51	793.71	778.04	15.67	50.648	
2,450.00	2,429.95	2,256.61	2,198.42	8.69	8.51	173.967	-498.75	34.51	814.73	798.73	16.00	50.917	
2,500.00	2,479.41	2,301.98	2,241.91	8.87	8.70	173.959	-511.63	35.50	835.75	819.42	16.33	51.175	
2,550.00	2,528.87	2,347.34	2,285.40	9.05	8.89	173.952	-524.51	36.50	856.78	840.12	16.66	51.422	
2,600.00	2,578.34	2,392.71	2,328.89	9.24	9.08	173.945	-537.39	37.49	877.80	860.81	16.99	51.659	
2,650.00	2,627.80	2,438.08	2,372.37	9.42	9.27	173.938	-550.26	38.49	898.82	881.50	17.32	51.886	
2,700.00	2,677.27	2,483.44	2,415.86	9.60	9.46	173.931	-563.14	39.48	919.85	902.19	17.65	52.105	
2,750.00	2,726.73	2,528.81	2,459.35	9.79	9.65	173.925	-576.02	40.48	940.87	922.89	17.98	52.315	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - 21H - Wellbore #1 - PERMIT — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR — **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
2,800.00	2,776.19	2,574.17	2,502.84	9.97	9.84	173.919	-588.90	41.47	961.89	943.58	18.32	52.517	
2,850.00	2,825.66	2,619.54	2,546.33	10.15	10.03	173.913	-601.77	42.47	982.92	964.27	18.65	52.712	
2,900.00	2,875.12	2,664.90	2,589.81	10.34	10.23	173.908	-614.65	43.46	1,003.94	984.96	18.98	52.900	
2,950.00	2,924.59	2,710.27	2,633.30	10.52	10.42	173.902	-627.53	44.46	1,024.96	1,005.65	19.31	53.081	
3,000.00	2,974.05	2,755.63	2,676.79	10.70	10.61	173.897	-640.41	45.45	1,045.99	1,026.34	19.64	53.256	
3,050.00	3,023.51	2,801.00	2,720.28	10.89	10.80	173.893	-653.29	46.45	1,067.01	1,047.04	19.97	53.425	
3,100.00	3,072.98	2,846.36	2,763.76	11.07	10.99	173.888	-666.16	47.44	1,088.03	1,067.73	20.30	53.587	
3,150.00	3,122.44	2,891.73	2,807.25	11.25	11.18	173.883	-679.04	48.44	1,109.05	1,088.42	20.64	53.745	
3,200.00	3,171.90	2,937.09	2,850.74	11.44	11.37	173.879	-691.92	49.43	1,130.08	1,109.11	20.97	53.897	
3,239.93	3,211.41	2,973.32	2,885.47	11.58	11.52	173.876	-702.20	50.23	1,146.87	1,125.64	21.23	54.015	
3,250.00	3,221.37	2,982.46	2,894.23	11.62	11.56	169.522	-704.80	50.43	1,151.10	1,129.79	21.30	54.036	
3,300.00	3,270.79	3,035.16	2,944.76	11.81	11.78	149.460	-719.64	52.20	1,171.88	1,150.20	21.68	54.050	
3,350.00	3,320.03	3,093.33	3,000.51	11.99	12.03	133.687	-735.41	57.28	1,191.96	1,169.88	22.09	53.966	
3,400.00	3,368.97	3,152.30	3,056.81	12.17	12.27	122.187	-750.63	65.96	1,211.25	1,188.74	22.50	53.829	
3,450.00	3,417.47	3,212.08	3,113.42	12.35	12.51	113.812	-765.23	78.35	1,229.66	1,206.74	22.92	53.647	
3,500.00	3,465.40	3,272.63	3,170.09	12.53	12.75	107.535	-779.10	94.55	1,247.14	1,223.80	23.34	53.427	
3,550.00	3,512.62	3,333.93	3,226.52	12.70	12.98	102.664	-792.15	114.60	1,263.63	1,239.87	23.76	53.172	
3,600.00	3,559.01	3,395.92	3,282.38	12.87	13.21	98.762	-804.26	138.54	1,279.08	1,254.89	24.19	52.887	
3,650.00	3,604.43	3,458.52	3,337.35	13.04	13.43	95.550	-815.35	166.35	1,293.42	1,268.82	24.60	52.572	
3,700.00	3,648.77	3,521.65	3,391.05	13.20	13.65	92.849	-825.31	197.99	1,306.61	1,281.59	25.02	52.227	
3,750.00	3,691.90	3,585.21	3,443.14	13.37	13.86	90.535	-834.07	233.32	1,318.61	1,293.17	25.43	51.850	
3,800.00	3,733.71	3,649.08	3,493.24	13.54	14.06	88.525	-841.53	272.20	1,329.36	1,303.52	25.84	51.438	
3,850.00	3,774.07	3,713.12	3,541.01	13.71	14.26	86.761	-847.64	314.41	1,338.85	1,312.59	26.26	50.986	
3,900.00	3,812.89	3,777.21	3,586.10	13.88	14.45	85.198	-852.36	359.68	1,347.05	1,320.37	26.68	50.492	
3,950.00	3,850.04	3,841.19	3,628.24	14.06	14.65	83.805	-855.64	407.71	1,353.92	1,326.82	27.10	49.952	
4,000.00	3,885.44	3,904.92	3,667.14	14.25	14.84	82.559	-857.48	458.14	1,359.47	1,331.93	27.54	49.363	
4,050.00	3,918.98	3,968.26	3,702.60	14.45	15.03	81.442	-857.89	510.60	1,363.67	1,335.68	27.99	48.721	
4,100.00	3,950.58	4,026.29	3,732.29	14.65	15.22	80.475	-857.08	560.44	1,366.57	1,338.14	28.43	48.061	
4,150.00	3,980.13	4,075.97	3,757.14	14.87	15.39	79.753	-856.14	603.46	1,368.50	1,339.63	28.86	47.413	
4,200.00	4,007.58	4,125.88	3,782.09	15.09	15.58	79.237	-855.20	646.67	1,369.52	1,340.20	29.32	46.713	
4,230.69	4,023.34	4,156.57	3,797.43	15.23	15.70	79.020	-854.62	673.24	1,369.69	1,340.08	29.61	46.257	
4,250.00	4,032.99	4,175.88	3,807.09	15.33	15.78	79.020	-854.26	689.96	1,369.69	1,339.89	29.81	45.952	
4,279.76	4,047.88	4,205.64	3,821.97	15.47	15.91	79.020	-853.70	715.73	1,369.69	1,339.58	30.11	45.490	
4,300.00	4,057.99	4,220.38	3,829.23	15.57	15.98	79.015	-853.42	728.55	1,369.73	1,339.44	30.29	45.221	
4,350.00	4,082.99	4,250.00	3,842.82	15.84	16.12	78.958	-852.85	754.86	1,370.22	1,339.51	30.72	44.611	
4,400.00	4,107.99	4,288.57	3,858.44	16.10	16.30	78.790	-852.08	790.11	1,371.28	1,340.09	31.19	43.966	
4,430.69	4,123.34	4,309.13	3,865.79	16.27	16.41	78.657	-851.66	809.31	1,372.24	1,340.77	31.47	43.607	
4,450.00	4,132.71	4,321.98	3,870.04	16.38	16.47	78.504	-851.40	821.43	1,372.90	1,341.26	31.64	43.397	
4,500.00	4,154.28	4,350.00	3,878.33	16.66	16.62	78.179	-850.81	848.18	1,374.44	1,342.39	32.05	42.888	
4,550.00	4,171.84	4,388.19	3,887.52	16.96	16.83	77.866	-850.01	885.23	1,375.68	1,343.15	32.53	42.292	
4,600.00	4,185.26	4,421.13	3,893.45	17.26	17.01	77.651	-849.30	917.63	1,376.64	1,343.65	32.99	41.727	
4,650.00	4,194.43	4,450.00	3,897.10	17.55	17.17	77.512	-848.68	946.25	1,377.31	1,343.86	33.44	41.184	
4,700.00	4,199.28	4,486.83	3,899.66	17.85	17.37	77.431	-847.88	982.98	1,377.63	1,343.68	33.95	40.578	
4,719.94	4,200.00	4,500.05	3,900.01	17.97	17.45	77.421	-847.59	996.20	1,377.68	1,343.53	34.15	40.347	
4,750.00	4,200.56	4,530.12	3,900.46	18.15	17.63	77.417	-846.94	1,026.25	1,377.70	1,343.18	34.52	39.916	
4,800.00	4,201.50	4,580.12	3,901.21	18.46	17.93	77.409	-845.85	1,076.23	1,377.74	1,342.61	35.13	39.219	
4,850.00	4,202.44	4,630.12	3,901.97	18.78	18.24	77.402	-844.76	1,126.21	1,377.77	1,342.00	35.78	38.508	
4,900.00	4,203.38	4,680.12	3,902.72	19.11	18.57	77.395	-843.67	1,176.20	1,377.81	1,341.38	36.44	37.814	
4,950.00	4,204.32	4,730.12	3,903.48	19.46	18.91	77.387	-842.58	1,226.18	1,377.85	1,340.72	37.13	37.111	
5,000.00	4,205.26	4,780.12	3,904.23	19.80	19.26	77.380	-841.50	1,276.16	1,377.89	1,340.06	37.83	36.426	
5,050.00	4,206.19	4,830.12	3,904.99	20.17	19.62	77.372	-840.41	1,326.14	1,377.93	1,339.37	38.56	35.739	
5,100.00	4,207.13	4,880.12	3,905.74	20.54	19.99	77.365	-839.32	1,376.12	1,377.97	1,338.67	39.29	35.070	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - 21H - Wellbore #1 - PERMIT — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR — **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
5,150.00	4,208.07	4,930.11	3,906.50	20.92	20.37	77.357	-838.23	1,426.11	1,378.00	1,337.95	40.05	34.404	
5,200.00	4,209.01	4,980.11	3,907.25	21.30	20.76	77.350	-837.14	1,476.09	1,378.04	1,337.22	40.82	33.758	
5,250.00	4,209.95	5,030.11	3,908.01	21.70	21.16	77.342	-836.05	1,526.07	1,378.08	1,336.47	41.61	33.116	
5,300.00	4,210.89	5,080.11	3,908.76	22.10	21.56	77.335	-834.97	1,576.05	1,378.12	1,335.71	42.41	32.494	
5,350.00	4,211.83	5,130.11	3,909.52	22.51	21.98	77.327	-833.88	1,626.03	1,378.16	1,334.93	43.23	31.880	
5,400.00	4,212.76	5,180.11	3,910.27	22.92	22.40	77.320	-832.79	1,676.02	1,378.20	1,334.14	44.05	31.285	
5,450.00	4,213.70	5,230.11	3,911.03	23.35	22.82	77.312	-831.70	1,726.00	1,378.23	1,333.34	44.89	30.699	
5,500.00	4,214.64	5,280.11	3,911.78	23.77	23.26	77.305	-830.61	1,775.98	1,378.27	1,332.53	45.74	30.132	
5,550.00	4,215.58	5,330.11	3,912.53	24.21	23.69	77.297	-829.53	1,825.96	1,378.31	1,331.71	46.60	29.575	
5,600.00	4,216.52	5,380.11	3,913.29	24.64	24.14	77.290	-828.44	1,875.95	1,378.35	1,330.88	47.47	29.036	
5,650.00	4,217.46	5,430.11	3,914.04	25.09	24.59	77.282	-827.35	1,925.93	1,378.39	1,330.04	48.35	28.507	
5,700.00	4,218.39	5,480.11	3,914.80	25.53	25.04	77.275	-826.26	1,975.91	1,378.43	1,329.19	49.24	27.995	
5,750.00	4,219.33	5,530.11	3,915.55	25.99	25.50	77.268	-825.17	2,025.89	1,378.47	1,328.33	50.14	27.494	
5,800.00	4,220.27	5,580.11	3,916.31	26.44	25.96	77.260	-824.08	2,075.87	1,378.50	1,327.47	51.04	27.009	
5,850.00	4,221.21	5,630.11	3,917.06	26.91	26.42	77.253	-823.00	2,125.86	1,378.54	1,326.59	51.95	26.534	
5,900.00	4,222.15	5,680.11	3,917.82	27.37	26.89	77.245	-821.91	2,175.84	1,378.58	1,325.71	52.87	26.075	
5,950.00	4,223.09	5,730.11	3,918.57	27.84	27.37	77.238	-820.82	2,225.82	1,378.62	1,324.82	53.80	25.626	
6,000.00	4,224.02	5,780.11	3,919.33	28.31	27.84	77.230	-819.73	2,275.80	1,378.66	1,323.93	54.73	25.191	
6,050.00	4,224.96	5,830.11	3,920.08	28.78	28.33	77.223	-818.64	2,325.78	1,378.70	1,323.03	55.67	24.767	
6,100.00	4,225.90	5,880.11	3,920.84	29.26	28.81	77.215	-817.55	2,375.77	1,378.74	1,322.13	56.61	24.355	
6,150.00	4,226.84	5,930.11	3,921.59	29.74	29.29	77.208	-816.47	2,425.75	1,378.78	1,321.22	57.56	23.954	
6,200.00	4,227.78	5,980.11	3,922.35	30.23	29.78	77.200	-815.38	2,475.73	1,378.82	1,320.30	58.51	23.564	
6,250.00	4,228.72	6,030.11	3,923.10	30.71	30.28	77.193	-814.29	2,525.71	1,378.85	1,319.38	59.47	23.184	
6,300.00	4,229.65	6,080.11	3,923.85	31.20	30.77	77.185	-813.20	2,575.70	1,378.89	1,318.46	60.44	22.815	
6,350.00	4,230.59	6,130.11	3,924.61	31.69	31.27	77.178	-812.11	2,625.68	1,378.93	1,317.52	61.41	22.456	
6,400.00	4,231.53	6,180.11	3,925.36	32.19	31.76	77.171	-811.03	2,675.66	1,378.97	1,316.59	62.38	22.107	
6,450.00	4,232.47	6,230.11	3,926.12	32.68	32.27	77.163	-809.94	2,725.64	1,379.01	1,315.65	63.36	21.766	
6,500.00	4,233.41	6,280.11	3,926.87	33.18	32.77	77.156	-808.85	2,775.62	1,379.05	1,314.71	64.34	21.435	
6,550.00	4,234.35	6,330.11	3,927.63	33.68	33.27	77.148	-807.76	2,825.61	1,379.09	1,313.77	65.32	21.112	
6,600.00	4,235.28	6,380.10	3,928.38	34.18	33.78	77.141	-806.67	2,875.59	1,379.13	1,312.82	66.31	20.799	
6,650.00	4,236.22	6,430.10	3,929.14	34.69	34.29	77.133	-805.58	2,925.57	1,379.17	1,311.86	67.30	20.492	
6,700.00	4,237.16	6,480.10	3,929.89	35.19	34.80	77.126	-804.50	2,975.55	1,379.20	1,310.91	68.29	20.195	
6,750.00	4,238.10	6,530.10	3,930.65	35.70	35.31	77.118	-803.41	3,025.53	1,379.24	1,309.95	69.29	19.904	
6,800.00	4,239.04	6,580.10	3,931.40	36.21	35.82	77.111	-802.32	3,075.52	1,379.28	1,308.99	70.29	19.622	
6,850.00	4,239.98	6,630.10	3,932.16	36.72	36.34	77.103	-801.23	3,125.50	1,379.32	1,308.02	71.30	19.346	
6,900.00	4,240.92	6,680.10	3,932.91	37.23	36.85	77.096	-800.14	3,175.48	1,379.36	1,307.06	72.30	19.078	
6,950.00	4,241.85	6,730.10	3,933.67	37.75	37.37	77.088	-799.05	3,225.46	1,379.40	1,306.09	73.31	18.815	
7,000.00	4,242.79	6,780.10	3,934.42	38.26	37.89	77.081	-797.97	3,275.44	1,379.44	1,305.12	74.32	18.560	
7,050.00	4,243.73	6,830.10	3,935.17	38.78	38.41	77.074	-796.88	3,325.43	1,379.48	1,304.14	75.34	18.311	
7,100.00	4,244.67	6,880.10	3,935.93	39.29	38.93	77.066	-795.79	3,375.41	1,379.52	1,303.17	76.35	18.068	
7,150.00	4,245.61	6,930.10	3,936.68	39.81	39.46	77.059	-794.70	3,425.39	1,379.56	1,302.19	77.37	17.830	
7,200.00	4,246.55	6,980.10	3,937.44	40.33	39.98	77.051	-793.61	3,475.37	1,379.60	1,301.21	78.39	17.599	
7,250.00	4,247.48	7,030.10	3,938.19	40.85	40.50	77.044	-792.52	3,525.36	1,379.64	1,300.22	79.41	17.373	
7,300.00	4,248.42	7,080.10	3,938.95	41.38	41.03	77.036	-791.44	3,575.34	1,379.68	1,299.24	80.44	17.152	
7,350.00	4,249.36	7,130.10	3,939.70	41.90	41.56	77.029	-790.35	3,625.32	1,379.71	1,298.25	81.46	16.936	
7,400.00	4,250.30	7,180.10	3,940.46	42.42	42.08	77.021	-789.26	3,675.30	1,379.75	1,297.26	82.49	16.726	
7,450.00	4,251.24	7,230.10	3,941.21	42.95	42.61	77.014	-788.17	3,725.28	1,379.79	1,296.27	83.52	16.520	
7,500.00	4,252.18	7,280.10	3,941.97	43.48	43.14	77.006	-787.08	3,775.27	1,379.83	1,295.28	84.55	16.319	
7,550.00	4,253.11	7,330.10	3,942.72	44.00	43.67	76.999	-786.00	3,825.25	1,379.87	1,294.29	85.59	16.123	
7,600.00	4,254.05	7,380.10	3,943.48	44.53	44.20	76.992	-784.91	3,875.23	1,379.91	1,293.29	86.62	15.931	
7,650.00	4,254.99	7,430.10	3,944.23	45.06	44.74	76.984	-783.82	3,925.21	1,379.95	1,292.30	87.66	15.743	
7,700.00	4,255.93	7,480.10	3,944.99	45.59	45.27	76.977	-782.73	3,975.19	1,379.99	1,291.30	88.69	15.559	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - 21H - Wellbore #1 - PERMIT — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR — **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
7,750.00	4,256.87	7,530.10	3,945.74	46.12	45.80	76.969	-781.64	4,025.18	1,380.03	1,290.30	89.73	15.380	
7,800.00	4,257.81	7,580.10	3,946.50	46.65	46.34	76.962	-780.55	4,075.16	1,380.07	1,289.30	90.77	15.204	
7,850.00	4,258.74	7,630.10	3,947.25	47.18	46.87	76.954	-779.47	4,125.14	1,380.11	1,288.30	91.81	15.032	
7,900.00	4,259.68	7,680.10	3,948.00	47.72	47.41	76.947	-778.38	4,175.12	1,380.15	1,287.29	92.85	14.864	
7,950.00	4,260.62	7,730.10	3,948.76	48.25	47.94	76.939	-777.29	4,225.11	1,380.19	1,286.29	93.90	14.699	
8,000.00	4,261.56	7,780.10	3,949.51	48.78	48.48	76.932	-776.20	4,275.09	1,380.23	1,285.29	94.94	14.537	
8,050.00	4,262.50	7,830.10	3,950.27	49.32	49.02	76.925	-775.11	4,325.07	1,380.27	1,284.28	95.99	14.379	
8,100.00	4,263.44	7,880.09	3,951.02	49.85	49.55	76.917	-774.02	4,375.05	1,380.31	1,283.27	97.04	14.225	
8,150.00	4,264.37	7,930.09	3,951.78	50.39	50.09	76.910	-772.94	4,425.03	1,380.35	1,282.26	98.08	14.073	
8,200.00	4,265.31	7,980.09	3,952.53	50.92	50.63	76.902	-771.85	4,475.02	1,380.39	1,281.25	99.13	13.925	
8,250.00	4,266.25	8,030.09	3,953.29	51.46	51.17	76.895	-770.76	4,525.00	1,380.43	1,280.24	100.18	13.779	
8,300.00	4,267.19	8,080.09	3,954.04	52.00	51.71	76.887	-769.67	4,574.98	1,380.47	1,279.23	101.23	13.636	
8,350.00	4,268.13	8,130.09	3,954.80	52.54	52.25	76.880	-768.58	4,624.96	1,380.51	1,278.22	102.29	13.497	
8,400.00	4,269.07	8,180.09	3,955.55	53.08	52.79	76.872	-767.50	4,674.94	1,380.55	1,277.21	103.34	13.359	
8,450.00	4,270.01	8,230.09	3,956.31	53.62	53.33	76.865	-766.41	4,724.93	1,380.59	1,276.19	104.39	13.225	
8,500.00	4,270.94	8,280.09	3,957.06	54.16	53.88	76.858	-765.32	4,774.91	1,380.63	1,275.18	105.45	13.093	
8,550.00	4,271.88	8,330.09	3,957.82	54.70	54.42	76.850	-764.23	4,824.89	1,380.67	1,274.17	106.50	12.964	
8,600.00	4,272.82	8,380.09	3,958.57	55.24	54.96	76.843	-763.14	4,874.87	1,380.71	1,273.15	107.56	12.837	
8,650.00	4,273.76	8,430.09	3,959.32	55.78	55.50	76.835	-762.05	4,924.85	1,380.75	1,272.13	108.61	12.712	
8,700.00	4,274.70	8,480.09	3,960.08	56.32	56.05	76.828	-760.97	4,974.84	1,380.79	1,271.12	109.67	12.590	
8,750.00	4,275.64	8,530.09	3,960.83	56.86	56.59	76.820	-759.88	5,024.82	1,380.83	1,270.10	110.73	12.470	
8,800.00	4,276.57	8,580.09	3,961.59	57.40	57.14	76.813	-758.79	5,074.80	1,380.87	1,269.08	111.79	12.353	
8,850.00	4,277.51	8,630.09	3,962.34	57.95	57.68	76.805	-757.70	5,124.78	1,380.91	1,268.06	112.85	12.237	
8,900.00	4,278.45	8,680.09	3,963.10	58.49	58.22	76.798	-756.61	5,174.77	1,380.95	1,267.04	113.91	12.123	
8,950.00	4,279.39	8,730.09	3,963.85	59.03	58.77	76.791	-755.52	5,224.75	1,380.99	1,266.02	114.97	12.012	
9,000.00	4,280.33	8,780.09	3,964.61	59.58	59.32	76.783	-754.44	5,274.73	1,381.03	1,265.00	116.03	11.902	
9,050.00	4,281.27	8,830.09	3,965.36	60.12	59.86	76.776	-753.35	5,324.71	1,381.07	1,263.98	117.09	11.795	
9,100.00	4,282.20	8,880.09	3,966.12	60.66	60.41	76.768	-752.26	5,374.69	1,381.11	1,262.95	118.15	11.689	
9,150.00	4,283.14	8,930.09	3,966.87	61.21	60.95	76.761	-751.17	5,424.68	1,381.15	1,261.93	119.22	11.585	
9,200.00	4,284.08	8,980.09	3,967.63	61.75	61.50	76.753	-750.08	5,474.66	1,381.19	1,260.91	120.28	11.483	
9,250.00	4,285.02	9,030.09	3,968.38	62.30	62.05	76.746	-749.00	5,524.64	1,381.23	1,259.88	121.34	11.383	
9,300.00	4,285.96	9,080.09	3,969.14	62.84	62.60	76.738	-747.91	5,574.62	1,381.27	1,258.86	122.41	11.284	
9,350.00	4,286.90	9,130.09	3,969.89	63.39	63.14	76.731	-746.82	5,624.60	1,381.31	1,257.84	123.47	11.187	
9,400.00	4,287.83	9,180.09	3,970.64	63.94	63.69	76.724	-745.73	5,674.59	1,381.35	1,256.81	124.54	11.092	
9,450.00	4,288.77	9,230.09	3,971.40	64.48	64.24	76.716	-744.64	5,724.57	1,381.39	1,255.78	125.60	10.998	
9,500.00	4,289.71	9,280.09	3,972.15	65.03	64.79	76.709	-743.55	5,774.55	1,381.43	1,254.76	126.67	10.906	
9,550.00	4,290.65	9,330.09	3,972.91	65.58	65.34	76.701	-742.47	5,824.53	1,381.47	1,253.73	127.74	10.815	
9,600.00	4,291.59	9,380.08	3,973.66	66.13	65.89	76.694	-741.38	5,874.52	1,381.51	1,252.71	128.80	10.726	
9,650.00	4,292.53	9,430.08	3,974.42	66.67	66.44	76.686	-740.29	5,924.50	1,381.55	1,251.68	129.87	10.638	
9,700.00	4,293.46	9,480.08	3,975.17	67.22	66.99	76.679	-739.20	5,974.48	1,381.59	1,250.65	130.94	10.551	
9,750.00	4,294.40	9,530.08	3,975.93	67.77	67.53	76.672	-738.11	6,024.46	1,381.63	1,249.62	132.01	10.466	
9,800.00	4,295.34	9,580.08	3,976.68	68.32	68.08	76.664	-737.02	6,074.44	1,381.67	1,248.60	133.08	10.382	
9,850.00	4,296.28	9,630.08	3,977.44	68.87	68.63	76.657	-735.94	6,124.43	1,381.71	1,247.57	134.15	10.300	
9,900.00	4,297.22	9,680.08	3,978.19	69.42	69.19	76.649	-734.85	6,174.41	1,381.75	1,246.54	135.22	10.219	
9,950.00	4,298.16	9,730.08	3,978.95	69.96	69.74	76.642	-733.76	6,224.39	1,381.79	1,245.51	136.29	10.139	
10,000.00	4,299.10	9,780.08	3,979.70	70.51	70.29	76.634	-732.67	6,274.37	1,381.84	1,244.48	137.36	10.060	
10,050.00	4,300.03	9,830.08	3,980.46	71.06	70.84	76.627	-731.58	6,324.35	1,381.88	1,243.45	138.43	9.983	
10,100.00	4,300.97	9,880.08	3,981.21	71.61	71.39	76.620	-730.50	6,374.34	1,381.92	1,242.42	139.50	9.906	
10,150.00	4,301.91	9,930.08	3,981.96	72.16	71.94	76.612	-729.41	6,424.32	1,381.96	1,241.39	140.57	9.831	
10,200.00	4,302.85	9,980.08	3,982.72	72.71	72.49	76.605	-728.32	6,474.30	1,382.00	1,240.36	141.64	9.757	
10,250.00	4,303.79	10,030.08	3,983.47	73.26	73.04	76.597	-727.23	6,524.28	1,382.04	1,239.33	142.71	9.684	
10,300.00	4,304.73	10,080.08	3,984.23	73.81	73.59	76.590	-726.14	6,574.27	1,382.08	1,238.30	143.78	9.612	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - 21H - Wellbore #1 - PERMIT — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR — **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
10,350.00	4,305.66	10,130.08	3,984.98	74.36	74.15	76.582	-725.05	6,624.25	1,382.12	1,237.26	144.86	9.541	
10,400.00	4,306.60	10,180.08	3,985.74	74.92	74.70	76.575	-723.97	6,674.23	1,382.16	1,236.23	145.93	9.472	
10,450.00	4,307.54	10,230.08	3,986.49	75.47	75.25	76.568	-722.88	6,724.21	1,382.20	1,235.20	147.00	9.403	
10,500.00	4,308.48	10,280.08	3,987.25	76.02	75.80	76.560	-721.79	6,774.19	1,382.24	1,234.17	148.07	9.335	
10,550.00	4,309.42	10,330.08	3,988.00	76.57	76.36	76.553	-720.70	6,824.18	1,382.28	1,233.14	149.15	9.268	
10,600.00	4,310.36	10,380.08	3,988.76	77.12	76.91	76.545	-719.61	6,874.16	1,382.32	1,232.10	150.22	9.202	
10,650.00	4,311.29	10,430.08	3,989.51	77.67	77.46	76.538	-718.52	6,924.14	1,382.37	1,231.07	151.29	9.137	
10,700.00	4,312.23	10,480.08	3,990.27	78.22	78.01	76.530	-717.44	6,974.12	1,382.41	1,230.04	152.37	9.073	
10,750.00	4,313.17	10,530.08	3,991.02	78.78	78.57	76.523	-716.35	7,024.10	1,382.45	1,229.01	153.44	9.010	
10,800.00	4,314.11	10,580.08	3,991.78	79.33	79.12	76.516	-715.26	7,074.09	1,382.49	1,227.97	154.52	8.947	
10,850.00	4,315.05	10,630.08	3,992.53	79.88	79.67	76.508	-714.17	7,124.07	1,382.53	1,226.94	155.59	8.886	
10,900.00	4,315.99	10,680.08	3,993.28	80.43	80.23	76.501	-713.08	7,174.05	1,382.57	1,225.90	156.67	8.825	
10,950.00	4,316.92	10,730.08	3,994.04	80.99	80.78	76.493	-712.00	7,224.03	1,382.61	1,224.87	157.74	8.765	
11,000.00	4,317.86	10,780.08	3,994.79	81.54	81.34	76.486	-710.91	7,274.01	1,382.65	1,223.84	158.82	8.706	
11,050.00	4,318.80	10,830.08	3,995.55	82.09	81.89	76.478	-709.82	7,324.00	1,382.69	1,222.80	159.89	8.648	
11,100.00	4,319.74	10,880.07	3,996.30	82.65	82.44	76.471	-708.73	7,373.98	1,382.73	1,221.77	160.97	8.590	
11,150.00	4,320.68	10,930.07	3,997.06	83.20	83.00	76.464	-707.64	7,423.96	1,382.78	1,220.73	162.04	8.533	
11,200.00	4,321.62	10,980.07	3,997.81	83.75	83.55	76.456	-706.55	7,473.94	1,382.82	1,219.70	163.12	8.477	
11,250.00	4,322.56	11,030.07	3,998.57	84.31	84.11	76.449	-705.47	7,523.93	1,382.86	1,218.66	164.19	8.422	
11,300.00	4,323.49	11,080.07	3,999.32	84.86	84.66	76.441	-704.38	7,573.91	1,382.90	1,217.63	165.27	8.368	
11,330.25	4,324.06	11,110.32	3,999.78	85.19	85.00	76.437	-703.72	7,604.14	1,382.92	1,217.00	165.92	8.335	
11,350.00	4,324.43	11,124.98	4,000.00	85.41	85.16	76.435	-703.40	7,618.80	1,382.95	1,216.66	166.29	8.316	
11,380.28	4,325.00	11,124.98	4,000.00	85.75	85.16	76.435	-703.40	7,618.80	1,383.42	1,216.80	166.62	8.303	SF

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - 61H - Wellbore #1 - PERMIT — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR — **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	200.00	200.00	0.50	0.50	179.426	-39.90	0.40	39.90	38.90	1.00	39.754	
250.00	250.00	250.00	250.00	0.68	0.68	179.426	-39.90	0.40	39.90	38.54	1.36	29.292	
300.00	300.00	300.00	300.00	0.86	0.86	179.426	-39.90	0.40	39.90	38.18	1.72	23.190	CC, ES
350.00	350.00	349.31	349.30	1.04	1.03	174.407	-40.32	0.47	40.76	38.69	2.08	19.643	
400.00	399.98	398.53	398.51	1.22	1.20	174.306	-41.57	0.68	43.34	40.90	2.44	17.793	
450.00	449.93	447.57	447.51	1.40	1.37	174.160	-43.65	1.03	47.62	44.83	2.80	17.010	
500.00	499.84	496.36	496.21	1.58	1.53	173.994	-46.53	1.52	53.62	50.45	3.16	16.946	
550.00	549.68	544.81	544.51	1.77	1.70	173.827	-50.21	2.14	61.30	57.77	3.53	17.365	
600.00	599.45	592.83	592.32	1.95	1.87	173.669	-54.64	2.89	70.66	66.76	3.89	18.149	
650.00	649.13	640.35	639.55	2.13	2.04	173.525	-59.81	3.77	81.67	77.41	4.26	19.175	
700.00	698.70	688.77	687.62	2.31	2.21	173.428	-65.50	4.73	93.95	89.34	4.61	20.361	
719.90	718.40	708.00	706.72	2.39	2.28	173.411	-67.75	5.11	99.08	94.32	4.75	20.840	
750.00	748.18	737.06	735.57	2.49	2.38	173.410	-71.17	5.69	106.93	101.97	4.95	21.593	
800.00	797.64	785.33	783.50	2.67	2.55	173.408	-76.83	6.65	119.96	114.68	5.28	22.713	
850.00	847.10	833.60	831.42	2.85	2.73	173.407	-82.50	7.61	133.00	127.39	5.62	23.683	
900.00	896.57	881.87	879.35	3.02	2.90	173.406	-88.17	8.57	146.04	140.09	5.95	24.548	
950.00	946.03	930.14	927.28	3.20	3.08	173.405	-93.84	9.52	159.08	152.79	6.28	25.315	
1,000.00	995.49	978.41	975.20	3.38	3.25	173.405	-99.51	10.48	172.12	165.49	6.62	25.991	
1,050.00	1,044.96	1,026.68	1,023.13	3.56	3.43	173.404	-105.18	11.44	185.16	178.19	6.96	26.602	
1,100.00	1,094.42	1,074.95	1,071.05	3.74	3.61	173.404	-110.84	12.40	198.19	190.89	7.30	27.150	
1,150.00	1,143.89	1,123.22	1,118.98	3.93	3.78	173.403	-116.51	13.36	211.23	203.59	7.64	27.648	
1,200.00	1,193.35	1,171.49	1,166.91	4.11	3.96	173.403	-122.18	14.32	224.27	216.29	7.98	28.100	
1,250.00	1,242.81	1,219.76	1,214.83	4.29	4.14	173.402	-127.85	15.28	237.31	228.98	8.32	28.513	
1,300.00	1,292.28	1,268.03	1,262.76	4.47	4.32	173.402	-133.52	16.24	250.35	241.68	8.67	28.891	
1,350.00	1,341.74	1,316.30	1,310.69	4.66	4.49	173.402	-139.18	17.20	263.38	254.38	9.01	29.239	
1,400.00	1,391.21	1,364.57	1,358.61	4.84	4.67	173.402	-144.85	18.15	276.42	267.07	9.35	29.559	
1,450.00	1,440.67	1,412.84	1,406.54	5.02	4.85	173.401	-150.52	19.11	289.46	279.77	9.70	29.856	
1,500.00	1,490.13	1,461.11	1,454.47	5.20	5.03	173.401	-156.19	20.07	302.50	292.46	10.04	30.131	
1,550.00	1,539.60	1,509.38	1,502.39	5.39	5.21	173.401	-161.86	21.03	315.54	305.15	10.38	30.388	
1,600.00	1,589.06	1,557.65	1,550.32	5.57	5.39	173.401	-167.53	21.99	328.57	317.85	10.73	30.626	
1,650.00	1,638.52	1,605.92	1,598.25	5.75	5.56	173.401	-173.19	22.95	341.61	330.54	11.07	30.850	
1,700.00	1,687.99	1,654.19	1,646.17	5.94	5.74	173.401	-178.86	23.91	354.65	343.23	11.42	31.058	
1,750.00	1,737.45	1,702.46	1,694.10	6.12	5.92	173.400	-184.53	24.87	367.69	355.92	11.76	31.255	
1,800.00	1,786.92	1,750.73	1,742.03	6.30	6.10	173.400	-190.20	25.82	380.73	368.62	12.11	31.439	
1,850.00	1,836.38	1,799.00	1,789.95	6.49	6.28	173.400	-195.87	26.78	393.77	381.31	12.46	31.613	
1,900.00	1,885.84	1,847.27	1,837.88	6.67	6.46	173.400	-201.53	27.74	406.80	394.00	12.80	31.776	
1,950.00	1,935.31	1,895.54	1,885.81	6.85	6.64	173.400	-207.20	28.70	419.84	406.69	13.15	31.931	
2,000.00	1,984.77	1,943.81	1,933.73	7.04	6.82	173.400	-212.87	29.66	432.88	419.38	13.49	32.078	
2,050.00	2,034.24	1,992.08	1,981.66	7.22	6.99	173.400	-218.54	30.62	445.92	432.08	13.84	32.217	
2,100.00	2,083.70	2,040.35	2,029.59	7.40	7.17	173.400	-224.21	31.58	458.96	444.77	14.19	32.348	
2,150.00	2,133.16	2,088.62	2,077.51	7.59	7.35	173.400	-229.88	32.54	471.99	457.46	14.53	32.473	
2,200.00	2,182.63	2,136.89	2,125.44	7.77	7.53	173.400	-235.54	33.50	485.03	470.15	14.88	32.593	
2,250.00	2,232.09	2,185.16	2,173.37	7.95	7.71	173.399	-241.21	34.45	498.07	482.84	15.23	32.706	
2,300.00	2,281.56	2,233.43	2,221.29	8.14	7.89	173.399	-246.88	35.41	511.11	495.53	15.58	32.814	
2,350.00	2,331.02	2,281.70	2,269.22	8.32	8.07	173.399	-252.55	36.37	524.15	508.22	15.92	32.918	
2,400.00	2,380.48	2,329.97	2,317.15	8.50	8.25	173.399	-258.22	37.33	537.18	520.91	16.27	33.016	
2,450.00	2,429.95	2,378.24	2,365.07	8.69	8.43	173.399	-263.89	38.29	550.22	533.60	16.62	33.111	
2,500.00	2,479.41	2,426.51	2,413.00	8.87	8.61	173.399	-269.55	39.25	563.26	546.30	16.97	33.201	
2,550.00	2,528.87	2,474.78	2,460.93	9.05	8.79	173.399	-275.22	40.21	576.30	558.99	17.31	33.288	
2,600.00	2,578.34	2,523.05	2,508.85	9.24	8.96	173.399	-280.89	41.17	589.34	571.68	17.66	33.371	
2,650.00	2,627.80	2,571.32	2,556.78	9.42	9.14	173.399	-286.56	42.13	602.38	584.37	18.01	33.451	
2,700.00	2,677.27	2,619.59	2,604.71	9.60	9.32	173.399	-292.23	43.08	615.41	597.06	18.36	33.527	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - 61H - Wellbore #1 - PERMIT — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR — **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
2,750.00	2,726.73	2,667.86	2,652.63	9.79	9.50	173.399	-297.89	44.04	628.45	609.75	18.70	33.601	
2,800.00	2,776.19	2,716.13	2,700.56	9.97	9.68	173.399	-303.56	45.00	641.49	622.44	19.05	33.672	
2,850.00	2,825.66	2,764.40	2,748.49	10.15	9.86	173.399	-309.23	45.96	654.53	635.13	19.40	33.740	
2,900.00	2,875.12	2,812.67	2,796.41	10.34	10.04	173.399	-314.90	46.92	667.57	647.82	19.75	33.806	
2,950.00	2,924.59	2,860.94	2,844.34	10.52	10.22	173.399	-320.57	47.88	680.60	660.51	20.09	33.870	
3,000.00	2,974.05	2,909.21	2,892.27	10.70	10.40	173.399	-326.24	48.84	693.64	673.20	20.44	33.931	
3,050.00	3,023.51	2,957.48	2,940.19	10.89	10.58	173.399	-331.90	49.80	706.68	685.89	20.79	33.990	
3,100.00	3,072.98	3,005.75	2,988.12	11.07	10.76	173.399	-337.57	50.75	719.72	698.58	21.14	34.047	
3,150.00	3,122.44	3,054.02	3,036.05	11.25	10.94	173.399	-343.24	51.71	732.76	711.27	21.49	34.102	
3,200.00	3,171.90	3,102.29	3,083.97	11.44	11.12	173.399	-348.91	52.67	745.79	723.96	21.84	34.156	
3,239.93	3,211.41	3,140.84	3,122.25	11.58	11.26	173.399	-353.43	53.44	756.21	734.09	22.11	34.197	
3,250.00	3,221.37	3,150.57	3,131.90	11.62	11.30	169.163	-354.58	53.63	758.83	736.64	22.19	34.203	
3,300.00	3,270.79	3,198.84	3,179.83	11.81	11.48	149.731	-360.25	54.59	771.69	749.14	22.55	34.222	
3,350.00	3,320.03	3,247.98	3,228.62	11.99	11.66	134.726	-366.00	55.70	784.30	761.38	22.92	34.221	
3,400.00	3,368.97	3,299.48	3,279.68	12.17	11.85	124.023	-371.84	58.96	796.50	773.20	23.29	34.192	
3,450.00	3,417.47	3,351.45	3,330.98	12.35	12.04	116.417	-377.44	65.04	808.21	784.54	23.67	34.143	
3,500.00	3,465.40	3,403.89	3,382.37	12.53	12.23	110.880	-382.80	74.00	819.40	795.35	24.05	34.076	
3,550.00	3,512.62	3,456.81	3,433.68	12.70	12.42	106.722	-387.88	85.89	830.04	805.62	24.42	33.989	
3,600.00	3,559.01	3,510.21	3,484.73	12.87	12.61	103.507	-392.66	100.75	840.08	815.29	24.79	33.882	
3,650.00	3,604.43	3,564.08	3,535.35	13.04	12.79	100.959	-397.11	118.61	849.51	824.34	25.17	33.754	
3,700.00	3,648.77	3,618.41	3,585.34	13.20	12.98	98.897	-401.21	139.49	858.29	832.74	25.54	33.604	
3,750.00	3,691.90	3,673.19	3,634.49	13.37	13.16	97.202	-404.93	163.37	866.38	840.46	25.92	33.430	
3,800.00	3,733.71	3,728.40	3,682.59	13.54	13.34	95.790	-408.26	190.25	873.76	847.46	26.29	33.231	
3,850.00	3,774.07	3,784.01	3,729.42	13.71	13.51	94.603	-411.17	220.07	880.40	853.73	26.68	33.004	
3,900.00	3,812.89	3,839.98	3,774.76	13.88	13.69	93.599	-413.63	252.79	886.29	859.22	27.06	32.748	
3,950.00	3,850.04	3,896.30	3,818.40	14.06	13.87	92.747	-415.64	288.31	891.39	863.93	27.46	32.460	
4,000.00	3,885.44	3,952.91	3,860.12	14.25	14.05	92.022	-417.16	326.54	895.69	867.82	27.87	32.137	
4,050.00	3,918.98	4,009.77	3,899.70	14.45	14.24	91.407	-418.20	367.34	899.18	870.89	28.29	31.779	
4,100.00	3,950.58	4,066.83	3,936.94	14.65	14.44	90.888	-418.73	410.56	901.84	873.10	28.73	31.385	
4,150.00	3,980.13	4,124.05	3,971.66	14.87	14.65	90.453	-418.76	456.03	903.65	874.46	29.19	30.954	
4,200.00	4,007.58	4,181.37	4,003.67	15.09	14.88	90.094	-418.27	503.56	904.62	874.95	29.67	30.487	
4,230.69	4,023.34	4,216.58	4,021.92	15.23	15.03	89.909	-417.72	533.66	904.79	874.82	29.97	30.185	
4,250.00	4,032.99	4,236.25	4,031.76	15.33	15.12	89.909	-417.35	550.70	904.79	874.62	30.17	29.995	
4,300.00	4,057.99	4,286.25	4,056.76	15.57	15.35	89.909	-416.41	593.99	904.79	874.13	30.65	29.515	
4,350.00	4,082.99	4,336.25	4,081.76	15.84	15.59	89.909	-415.47	637.28	904.79	873.61	31.18	29.018	
4,400.00	4,107.99	4,386.25	4,106.76	16.10	15.85	89.909	-414.52	680.57	904.79	873.08	31.71	28.533	
4,430.69	4,123.34	4,416.94	4,122.11	16.27	16.01	89.909	-413.95	707.14	904.79	872.74	32.05	28.234	
4,450.00	4,132.71	4,436.21	4,131.53	16.38	16.11	89.914	-413.58	723.94	904.78	872.52	32.26	28.045	
4,500.00	4,154.28	4,486.10	4,153.25	16.66	16.39	89.928	-412.60	768.83	904.78	871.95	32.83	27.557	
4,550.00	4,171.84	4,536.01	4,171.00	16.96	16.67	89.943	-411.59	815.45	904.78	871.36	33.42	27.075	
4,600.00	4,185.26	4,585.95	4,184.63	17.26	16.96	89.958	-410.54	863.46	904.78	870.77	34.01	26.602	
4,650.00	4,194.43	4,635.90	4,194.03	17.55	17.26	89.974	-409.48	912.49	904.78	870.17	34.61	26.142	
4,700.00	4,199.28	4,685.87	4,199.12	17.85	17.55	89.990	-408.39	962.18	904.78	869.57	35.20	25.700	
4,719.94	4,200.00	4,705.81	4,199.94	17.97	17.67	89.996	-407.96	982.09	904.78	869.34	35.44	25.530	
4,750.00	4,200.56	4,735.87	4,200.51	18.15	17.85	89.997	-407.31	1,012.14	904.77	868.97	35.81	25.268	
4,800.00	4,201.50	4,785.87	4,201.46	18.46	18.16	89.997	-406.22	1,062.12	904.77	868.35	36.42	24.842	
4,850.00	4,202.44	4,835.87	4,202.40	18.78	18.48	89.997	-405.13	1,112.10	904.77	867.70	37.07	24.405	
4,900.00	4,203.38	4,885.87	4,203.34	19.11	18.81	89.997	-404.04	1,162.08	904.77	867.04	37.73	23.980	
4,950.00	4,204.32	4,935.87	4,204.28	19.46	19.15	89.998	-402.96	1,212.06	904.77	866.34	38.43	23.546	
5,000.00	4,205.26	4,985.87	4,205.22	19.80	19.50	89.998	-401.87	1,262.04	904.77	865.64	39.13	23.124	
5,050.00	4,206.19	5,035.87	4,206.16	20.17	19.87	89.998	-400.78	1,312.02	904.77	864.91	39.86	22.698	
5,100.00	4,207.13	5,085.87	4,207.11	20.54	20.24	89.998	-399.69	1,362.00	904.76	864.16	40.60	22.285	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - 61H - Wellbore #1 - PERMIT — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR — **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
5,150.00	4,208.07	5,135.87	4,208.05	20.92	20.62	89.998	-398.60	1,411.98	904.76	863.39	41.37	21.871	
5,200.00	4,209.01	5,185.87	4,208.99	21.30	21.00	89.999	-397.52	1,461.95	904.76	862.62	42.14	21.470	
5,250.00	4,209.95	5,235.87	4,209.93	21.70	21.40	89.999	-396.43	1,511.93	904.76	861.82	42.94	21.070	
5,300.00	4,210.89	5,285.87	4,210.87	22.10	21.80	89.999	-395.34	1,561.91	904.76	861.01	43.74	20.683	
5,350.00	4,211.83	5,335.87	4,211.81	22.51	22.22	89.999	-394.25	1,611.89	904.76	860.18	44.57	20.299	
5,400.00	4,212.76	5,385.87	4,212.76	22.92	22.63	89.999	-393.17	1,661.87	904.75	859.35	45.40	19.927	
5,450.00	4,213.70	5,435.87	4,213.70	23.35	23.06	90.000	-392.08	1,711.85	904.75	858.50	46.25	19.560	
5,500.00	4,214.64	5,485.87	4,214.64	23.77	23.49	90.000	-390.99	1,761.83	904.75	857.64	47.11	19.205	
5,550.00	4,215.58	5,535.87	4,215.58	24.21	23.92	90.000	-389.90	1,811.81	904.75	856.77	47.98	18.855	
5,600.00	4,216.52	5,585.87	4,216.52	24.64	24.36	90.000	-388.81	1,861.79	904.75	855.89	48.86	18.517	
5,650.00	4,217.46	5,635.87	4,217.46	25.09	24.81	90.000	-387.73	1,911.77	904.75	854.99	49.76	18.184	
5,700.00	4,218.39	5,685.87	4,218.41	25.53	25.26	90.001	-386.64	1,961.75	904.74	854.09	50.65	17.862	
5,750.00	4,219.33	5,735.87	4,219.35	25.99	25.71	90.001	-385.55	2,011.73	904.74	853.18	51.57	17.546	
5,800.00	4,220.27	5,785.87	4,220.29	26.44	26.17	90.001	-384.46	2,061.71	904.74	852.26	52.48	17.240	
5,850.00	4,221.21	5,835.87	4,221.23	26.91	26.63	90.001	-383.37	2,111.69	904.74	851.33	53.41	16.940	
5,900.00	4,222.15	5,885.87	4,222.17	27.37	27.10	90.002	-382.29	2,161.66	904.74	850.40	54.34	16.650	
5,950.00	4,223.09	5,935.87	4,223.11	27.84	27.57	90.002	-381.20	2,211.64	904.74	849.46	55.28	16.366	
6,000.00	4,224.02	5,985.87	4,224.06	28.31	28.04	90.002	-380.11	2,261.62	904.74	848.51	56.23	16.091	
6,050.00	4,224.96	6,035.87	4,225.00	28.78	28.52	90.002	-379.02	2,311.60	904.73	847.55	57.18	15.822	
6,100.00	4,225.90	6,085.87	4,225.94	29.26	29.00	90.002	-377.94	2,361.58	904.73	846.59	58.14	15.561	
6,150.00	4,226.84	6,135.87	4,226.88	29.74	29.48	90.003	-376.85	2,411.56	904.73	845.62	59.11	15.307	
6,200.00	4,227.78	6,185.87	4,227.82	30.23	29.97	90.003	-375.76	2,461.54	904.73	844.65	60.08	15.060	
6,250.00	4,228.72	6,235.87	4,228.76	30.71	30.45	90.003	-374.67	2,511.52	904.73	843.67	61.05	14.818	
6,300.00	4,229.65	6,285.87	4,229.71	31.20	30.94	90.003	-373.58	2,561.50	904.73	842.69	62.03	14.584	
6,350.00	4,230.59	6,335.87	4,230.65	31.69	31.44	90.003	-372.50	2,611.48	904.72	841.70	63.02	14.356	
6,400.00	4,231.53	6,385.87	4,231.59	32.19	31.93	90.004	-371.41	2,661.46	904.72	840.71	64.01	14.134	
6,450.00	4,232.47	6,435.87	4,232.53	32.68	32.43	90.004	-370.32	2,711.44	904.72	839.71	65.01	13.917	
6,500.00	4,233.41	6,485.87	4,233.47	33.18	32.93	90.004	-369.23	2,761.42	904.72	838.71	66.01	13.706	
6,550.00	4,234.35	6,535.87	4,234.41	33.68	33.43	90.004	-368.15	2,811.40	904.72	837.71	67.01	13.501	
6,600.00	4,235.28	6,585.87	4,235.36	34.18	33.94	90.004	-367.06	2,861.37	904.72	836.70	68.02	13.301	
6,650.00	4,236.22	6,635.87	4,236.30	34.69	34.44	90.005	-365.97	2,911.35	904.72	835.69	69.03	13.106	
6,700.00	4,237.16	6,685.87	4,237.24	35.19	34.95	90.005	-364.88	2,961.33	904.71	834.67	70.04	12.916	
6,750.00	4,238.10	6,735.87	4,238.18	35.70	35.46	90.005	-363.79	3,011.31	904.71	833.65	71.06	12.731	
6,800.00	4,239.04	6,785.87	4,239.12	36.21	35.97	90.005	-362.71	3,061.29	904.71	832.63	72.08	12.551	
6,850.00	4,239.98	6,835.87	4,240.06	36.72	36.48	90.005	-361.62	3,111.27	904.71	831.60	73.11	12.375	
6,900.00	4,240.92	6,885.87	4,241.01	37.23	37.00	90.006	-360.53	3,161.25	904.71	830.57	74.13	12.204	
6,950.00	4,241.85	6,935.87	4,241.95	37.75	37.51	90.006	-359.44	3,211.23	904.71	829.54	75.17	12.036	
7,000.00	4,242.79	6,985.87	4,242.89	38.26	38.03	90.006	-358.35	3,261.21	904.70	828.51	76.20	11.873	
7,050.00	4,243.73	7,035.87	4,243.83	38.78	38.54	90.006	-357.27	3,311.19	904.70	827.47	77.23	11.714	
7,100.00	4,244.67	7,085.87	4,244.77	39.29	39.06	90.007	-356.18	3,361.17	904.70	826.43	78.27	11.559	
7,150.00	4,245.61	7,135.87	4,245.71	39.81	39.58	90.007	-355.09	3,411.15	904.70	825.39	79.31	11.407	
7,200.00	4,246.55	7,185.87	4,246.66	40.33	40.11	90.007	-354.00	3,461.13	904.70	824.35	80.35	11.259	
7,250.00	4,247.48	7,235.87	4,247.60	40.85	40.63	90.007	-352.92	3,511.11	904.70	823.30	81.40	11.114	
7,300.00	4,248.42	7,285.87	4,248.54	41.38	41.15	90.007	-351.83	3,561.09	904.70	822.25	82.44	10.973	
7,350.00	4,249.36	7,335.87	4,249.48	41.90	41.68	90.008	-350.74	3,611.06	904.69	821.20	83.49	10.835	
7,400.00	4,250.30	7,385.87	4,250.42	42.42	42.20	90.008	-349.65	3,661.04	904.69	820.15	84.54	10.701	
7,450.00	4,251.24	7,435.87	4,251.36	42.95	42.73	90.008	-348.56	3,711.02	904.69	819.09	85.60	10.569	
7,500.00	4,252.18	7,485.87	4,252.31	43.48	43.26	90.008	-347.48	3,761.00	904.69	818.04	86.65	10.440	
7,550.00	4,253.11	7,535.87	4,253.25	44.00	43.78	90.008	-346.39	3,810.98	904.69	816.98	87.71	10.315	
7,600.00	4,254.05	7,585.87	4,254.19	44.53	44.31	90.009	-345.30	3,860.96	904.69	815.92	88.77	10.192	
7,650.00	4,254.99	7,635.87	4,255.13	45.06	44.84	90.009	-344.21	3,910.94	904.68	814.86	89.83	10.071	
7,700.00	4,255.93	7,685.87	4,256.07	45.59	45.37	90.009	-343.12	3,960.92	904.68	813.79	90.89	9.954	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - 61H - Wellbore #1 - PERMIT — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR — **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
7,750.00	4,256.87	7,735.87	4,257.01	46.12	45.91	90.009	-342.04	4,010.90	904.68	812.73	91.95	9.839	
7,800.00	4,257.81	7,785.87	4,257.96	46.65	46.44	90.009	-340.95	4,060.88	904.68	811.66	93.02	9.726	
7,850.00	4,258.74	7,835.87	4,258.90	47.18	46.97	90.010	-339.86	4,110.86	904.68	810.60	94.08	9.616	
7,900.00	4,259.68	7,885.87	4,259.84	47.72	47.50	90.010	-338.77	4,160.84	904.68	809.53	95.15	9.508	
7,950.00	4,260.62	7,935.87	4,260.78	48.25	48.04	90.010	-337.69	4,210.82	904.68	808.46	96.22	9.402	
8,000.00	4,261.56	7,985.87	4,261.72	48.78	48.57	90.010	-336.60	4,260.80	904.67	807.39	97.29	9.299	
8,050.00	4,262.50	8,035.87	4,262.66	49.32	49.11	90.011	-335.51	4,310.77	904.67	806.31	98.36	9.198	
8,100.00	4,263.44	8,085.87	4,263.61	49.85	49.65	90.011	-334.42	4,360.75	904.67	805.24	99.43	9.099	
8,150.00	4,264.37	8,135.87	4,264.55	50.39	50.18	90.011	-333.33	4,410.73	904.67	804.16	100.50	9.001	
8,200.00	4,265.31	8,185.87	4,265.49	50.92	50.72	90.011	-332.25	4,460.71	904.67	803.09	101.58	8.906	
8,250.00	4,266.25	8,235.87	4,266.43	51.46	51.26	90.011	-331.16	4,510.69	904.67	802.01	102.65	8.813	
8,300.00	4,267.19	8,285.87	4,267.37	52.00	51.80	90.012	-330.07	4,560.67	904.66	800.93	103.73	8.721	
8,350.00	4,268.13	8,335.87	4,268.31	52.54	52.34	90.012	-328.98	4,610.65	904.66	799.85	104.81	8.632	
8,400.00	4,269.07	8,385.87	4,269.26	53.08	52.87	90.012	-327.90	4,660.63	904.66	798.77	105.89	8.544	
8,450.00	4,270.01	8,435.87	4,270.20	53.62	53.41	90.012	-326.81	4,710.61	904.66	797.69	106.97	8.457	
8,500.00	4,270.94	8,485.87	4,271.14	54.16	53.96	90.012	-325.72	4,760.59	904.66	796.61	108.05	8.373	
8,550.00	4,271.88	8,535.87	4,272.08	54.70	54.50	90.013	-324.63	4,810.57	904.66	795.53	109.13	8.290	
8,600.00	4,272.82	8,585.87	4,273.02	55.24	55.04	90.013	-323.54	4,860.55	904.65	794.44	110.21	8.208	
8,650.00	4,273.76	8,635.87	4,273.96	55.78	55.58	90.013	-322.46	4,910.53	904.65	793.36	111.30	8.128	
8,700.00	4,274.70	8,685.87	4,274.91	56.32	56.12	90.013	-321.37	4,960.51	904.65	792.27	112.38	8.050	
8,750.00	4,275.64	8,735.87	4,275.85	56.86	56.66	90.013	-320.28	5,010.48	904.65	791.18	113.47	7.973	
8,800.00	4,276.57	8,785.87	4,276.79	57.40	57.21	90.014	-319.19	5,060.46	904.65	790.10	114.55	7.897	
8,850.00	4,277.51	8,835.87	4,277.73	57.95	57.75	90.014	-318.10	5,110.44	904.65	789.01	115.64	7.823	
8,900.00	4,278.45	8,885.87	4,278.67	58.49	58.29	90.014	-317.02	5,160.42	904.65	787.92	116.73	7.750	
8,950.00	4,279.39	8,935.87	4,279.61	59.03	58.84	90.014	-315.93	5,210.40	904.64	786.83	117.81	7.679	
9,000.00	4,280.33	8,985.87	4,280.56	59.58	59.38	90.014	-314.84	5,260.38	904.64	785.74	118.90	7.608	
9,050.00	4,281.27	9,035.87	4,281.50	60.12	59.93	90.015	-313.75	5,310.36	904.64	784.65	119.99	7.539	
9,100.00	4,282.20	9,085.87	4,282.44	60.66	60.47	90.015	-312.67	5,360.34	904.64	783.56	121.08	7.471	
9,150.00	4,283.14	9,135.87	4,283.38	61.21	61.02	90.015	-311.58	5,410.32	904.64	782.47	122.17	7.405	
9,200.00	4,284.08	9,185.87	4,284.32	61.75	61.56	90.015	-310.49	5,460.30	904.64	781.37	123.26	7.339	
9,250.00	4,285.02	9,235.87	4,285.26	62.30	62.11	90.016	-309.40	5,510.28	904.63	780.28	124.36	7.275	
9,300.00	4,285.96	9,285.87	4,286.21	62.84	62.66	90.016	-308.31	5,560.26	904.63	779.18	125.45	7.211	
9,350.00	4,286.90	9,335.87	4,287.15	63.39	63.20	90.016	-307.23	5,610.24	904.63	778.09	126.54	7.149	
9,400.00	4,287.83	9,385.87	4,288.09	63.94	63.75	90.016	-306.14	5,660.22	904.63	776.99	127.64	7.088	
9,450.00	4,288.77	9,435.87	4,289.03	64.48	64.30	90.016	-305.05	5,710.19	904.63	775.90	128.73	7.027	
9,500.00	4,289.71	9,485.87	4,289.97	65.03	64.84	90.017	-303.96	5,760.17	904.63	774.80	129.82	6.968	
9,550.00	4,290.65	9,535.87	4,290.91	65.58	65.39	90.017	-302.88	5,810.15	904.63	773.71	130.92	6.910	
9,600.00	4,291.59	9,585.87	4,291.86	66.13	65.94	90.017	-301.79	5,860.13	904.62	772.61	132.02	6.852	
9,650.00	4,292.53	9,635.87	4,292.80	66.67	66.49	90.017	-300.70	5,910.11	904.62	771.51	133.11	6.796	
9,700.00	4,293.46	9,685.87	4,293.74	67.22	67.04	90.017	-299.61	5,960.09	904.62	770.41	134.21	6.740	
9,750.00	4,294.40	9,735.87	4,294.68	67.77	67.59	90.018	-298.52	6,010.07	904.62	769.31	135.31	6.686	
9,800.00	4,295.34	9,785.87	4,295.62	68.32	68.14	90.018	-297.44	6,060.05	904.62	768.21	136.40	6.632	
9,850.00	4,296.28	9,835.87	4,296.57	68.87	68.68	90.018	-296.35	6,110.03	904.62	767.11	137.50	6.579	
9,900.00	4,297.22	9,885.87	4,297.51	69.42	69.23	90.018	-295.26	6,160.01	904.61	766.01	138.60	6.527	
9,950.00	4,298.16	9,935.87	4,298.45	69.96	69.78	90.018	-294.17	6,209.99	904.61	764.91	139.70	6.475	
10,000.00	4,299.10	9,985.87	4,299.39	70.51	70.33	90.019	-293.08	6,259.97	904.61	763.81	140.80	6.425	
10,050.00	4,300.03	10,035.87	4,300.33	71.06	70.88	90.019	-292.00	6,309.95	904.61	762.71	141.90	6.375	
10,100.00	4,300.97	10,085.87	4,301.27	71.61	71.43	90.019	-290.91	6,359.93	904.61	761.61	143.00	6.326	
10,150.00	4,301.91	10,135.87	4,302.22	72.16	71.98	90.019	-289.82	6,409.90	904.61	760.51	144.10	6.278	
10,200.00	4,302.85	10,185.87	4,303.16	72.71	72.53	90.019	-288.73	6,459.88	904.61	759.40	145.20	6.230	
10,250.00	4,303.79	10,235.87	4,304.10	73.26	73.09	90.020	-287.65	6,509.86	904.60	758.30	146.30	6.183	
10,300.00	4,304.73	10,285.87	4,305.04	73.81	73.64	90.020	-286.56	6,559.84	904.60	757.20	147.41	6.137	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - 61H - Wellbore #1 - PERMIT — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR — **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
10,350.00	4,305.66	10,335.87	4,305.98	74.36	74.19	90.020	-285.47	6,609.82	904.60	756.09	148.51	6.091	
10,400.00	4,306.60	10,385.87	4,306.92	74.92	74.74	90.020	-284.38	6,659.80	904.60	754.99	149.61	6.046	
10,450.00	4,307.54	10,435.87	4,307.87	75.47	75.29	90.021	-283.29	6,709.78	904.60	753.88	150.71	6.002	
10,500.00	4,308.48	10,485.87	4,308.81	76.02	75.84	90.021	-282.21	6,759.76	904.60	752.78	151.82	5.958	
10,550.00	4,309.42	10,535.87	4,309.75	76.57	76.39	90.021	-281.12	6,809.74	904.59	751.67	152.92	5.915	
10,600.00	4,310.36	10,585.87	4,310.69	77.12	76.95	90.021	-280.03	6,859.72	904.59	750.57	154.02	5.873	
10,650.00	4,311.29	10,635.87	4,311.63	77.67	77.50	90.021	-278.94	6,909.70	904.59	749.46	155.13	5.831	
10,700.00	4,312.23	10,685.87	4,312.57	78.22	78.05	90.022	-277.85	6,959.68	904.59	748.36	156.23	5.790	
10,750.00	4,313.17	10,735.87	4,313.52	78.78	78.60	90.022	-276.77	7,009.66	904.59	747.25	157.34	5.749	
10,800.00	4,314.11	10,785.87	4,314.46	79.33	79.16	90.022	-275.68	7,059.64	904.59	746.14	158.44	5.709	
10,850.00	4,315.05	10,835.87	4,315.40	79.88	79.71	90.022	-274.59	7,109.62	904.58	745.04	159.55	5.670	
10,900.00	4,315.99	10,885.87	4,316.34	80.43	80.26	90.022	-273.50	7,159.59	904.58	743.93	160.66	5.631	
10,950.00	4,316.92	10,935.87	4,317.28	80.99	80.82	90.023	-272.42	7,209.57	904.58	742.82	161.76	5.592	
11,000.00	4,317.86	10,985.87	4,318.22	81.54	81.37	90.023	-271.33	7,259.55	904.58	741.71	162.87	5.554	
11,050.00	4,318.80	11,035.87	4,319.17	82.09	81.92	90.023	-270.24	7,309.53	904.58	740.60	163.97	5.517	
11,100.00	4,319.74	11,085.87	4,320.11	82.65	82.48	90.023	-269.15	7,359.51	904.58	739.50	165.08	5.480	
11,150.00	4,320.68	11,135.87	4,321.05	83.20	83.03	90.023	-268.06	7,409.49	904.58	738.39	166.19	5.443	
11,200.00	4,321.62	11,185.87	4,321.99	83.75	83.58	90.024	-266.98	7,459.47	904.57	737.28	167.30	5.407	
11,250.00	4,322.56	11,235.87	4,322.93	84.31	84.14	90.024	-265.89	7,509.45	904.57	736.17	168.40	5.371	
11,300.00	4,323.49	11,285.87	4,323.87	84.86	84.69	90.024	-264.80	7,559.43	904.57	735.06	169.51	5.336	
11,330.25	4,324.06	11,316.11	4,324.44	85.19	85.03	90.024	-264.14	7,589.66	904.57	734.39	170.18	5.315	
11,350.00	4,324.43	11,335.87	4,324.82	85.41	85.24	90.024	-263.71	7,609.41	904.57	733.95	170.62	5.302	
11,355.81	4,324.54	11,341.68	4,324.92	85.48	85.31	90.024	-263.59	7,615.21	904.57	733.82	170.75	5.298	
11,380.28	4,325.00	11,345.67	4,325.00	85.75	85.35	90.024	-263.50	7,619.20	904.80	733.74	171.06	5.289	SF

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - OFFSET: AID STATE #10 - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.00 usft

Survey Program: 304-INC-ONLY — **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
4,700.00	4,199.28	4,312.48	4,199.28	17.85	85.01	73.495	-203.41	5,360.88	4,473.44	4,375.35	98.09	45.606	
4,719.94	4,200.00	4,313.20	4,200.00	17.97	85.03	84.097	-203.41	5,360.88	4,453.83	4,351.65	102.18	43.588	
4,750.00	4,200.56	4,313.77	4,200.56	18.15	85.04	84.137	-203.41	5,360.88	4,424.26	4,321.88	102.38	43.214	
4,800.00	4,201.50	4,314.71	4,201.50	18.46	85.05	84.204	-203.41	5,360.88	4,375.09	4,272.38	102.72	42.594	
4,850.00	4,202.44	4,315.64	4,202.44	18.78	85.07	84.271	-203.41	5,360.88	4,325.95	4,222.87	103.07	41.970	
4,900.00	4,203.38	4,316.58	4,203.38	19.11	85.09	84.338	-203.41	5,360.88	4,276.82	4,173.39	103.43	41.350	
4,950.00	4,204.32	4,317.52	4,204.32	19.46	85.11	84.405	-203.41	5,360.88	4,227.71	4,123.90	103.81	40.726	
5,000.00	4,205.26	4,318.46	4,205.26	19.80	85.13	84.472	-203.41	5,360.88	4,178.62	4,074.43	104.19	40.107	
5,050.00	4,206.19	4,319.40	4,206.19	20.17	85.14	84.538	-203.41	5,360.88	4,129.55	4,024.97	104.58	39.485	
5,100.00	4,207.13	4,320.34	4,207.13	20.54	85.16	84.605	-203.41	5,360.88	4,080.51	3,975.53	104.98	38.869	
5,150.00	4,208.07	4,321.27	4,208.07	20.92	85.18	84.672	-203.41	5,360.88	4,031.49	3,926.09	105.40	38.251	
5,200.00	4,209.01	4,322.21	4,209.01	21.30	85.20	84.739	-203.41	5,360.88	3,982.49	3,876.68	105.81	37.638	
5,250.00	4,209.95	4,323.15	4,209.95	21.70	85.21	84.806	-203.41	5,360.88	3,933.52	3,827.28	106.24	37.025	
5,300.00	4,210.89	4,324.09	4,210.89	22.10	85.23	84.874	-203.41	5,360.88	3,884.58	3,777.91	106.67	36.417	
5,350.00	4,211.83	4,325.03	4,211.83	22.51	85.25	84.941	-203.41	5,360.88	3,835.66	3,728.55	107.11	35.809	
5,400.00	4,212.76	4,325.97	4,212.76	22.92	85.27	85.008	-203.41	5,360.88	3,786.77	3,679.21	107.56	35.207	
5,450.00	4,213.70	4,326.90	4,213.70	23.35	85.29	85.075	-203.41	5,360.88	3,737.91	3,629.90	108.01	34.607	
5,500.00	4,214.64	4,327.84	4,214.64	23.77	85.30	85.142	-203.41	5,360.88	3,689.08	3,580.61	108.47	34.011	
5,550.00	4,215.58	4,328.78	4,215.58	24.21	85.32	85.209	-203.41	5,360.88	3,640.28	3,531.34	108.93	33.418	
5,600.00	4,216.52	4,329.72	4,216.52	24.64	85.34	85.276	-203.41	5,360.88	3,591.51	3,482.11	109.40	32.830	
5,650.00	4,217.46	4,330.66	4,217.46	25.09	85.36	85.343	-203.41	5,360.88	3,542.78	3,432.90	109.87	32.244	
5,700.00	4,218.39	4,331.60	4,218.39	25.53	85.37	85.410	-203.41	5,360.88	3,494.08	3,383.73	110.35	31.663	
5,750.00	4,219.33	4,332.53	4,219.33	25.99	85.39	85.477	-203.41	5,360.88	3,445.42	3,334.59	110.84	31.086	
5,800.00	4,220.27	4,333.47	4,220.27	26.44	85.41	85.545	-203.41	5,360.88	3,396.80	3,285.48	111.32	30.514	
5,850.00	4,221.21	4,334.41	4,221.21	26.91	85.43	85.612	-203.41	5,360.88	3,348.22	3,236.41	111.81	29.945	
5,900.00	4,222.15	4,335.35	4,222.15	27.37	85.44	85.679	-203.41	5,360.88	3,299.68	3,187.38	112.30	29.382	
5,950.00	4,223.09	4,336.29	4,223.09	27.84	85.46	85.746	-203.41	5,360.88	3,251.19	3,138.38	112.80	28.822	
6,000.00	4,224.02	4,337.23	4,224.02	28.31	85.48	85.813	-203.41	5,360.88	3,202.74	3,089.44	113.30	28.267	
6,050.00	4,224.96	4,338.16	4,224.96	28.78	85.50	85.881	-203.41	5,360.88	3,154.34	3,040.53	113.81	27.716	
6,100.00	4,225.90	4,339.10	4,225.90	29.26	85.52	85.948	-203.41	5,360.88	3,105.99	2,991.67	114.31	27.171	
6,150.00	4,226.84	4,340.04	4,226.84	29.74	85.53	86.015	-203.41	5,360.88	3,057.69	2,942.86	114.83	26.629	
6,200.00	4,227.78	4,340.98	4,227.78	30.23	85.55	86.082	-203.41	5,360.88	3,009.45	2,894.11	115.34	26.093	
6,250.00	4,228.72	4,341.92	4,228.72	30.71	85.57	86.150	-203.41	5,360.88	2,961.26	2,845.41	115.85	25.560	
6,300.00	4,229.65	4,342.86	4,229.65	31.20	85.59	86.217	-203.41	5,360.88	2,913.14	2,796.77	116.37	25.034	
6,350.00	4,230.59	4,343.80	4,230.59	31.69	85.60	86.284	-203.41	5,360.88	2,865.08	2,748.19	116.89	24.511	
6,400.00	4,231.53	4,344.73	4,231.53	32.19	85.62	86.352	-203.41	5,360.88	2,817.09	2,699.68	117.41	23.993	
6,450.00	4,232.47	4,345.67	4,232.47	32.68	85.64	86.419	-203.41	5,360.88	2,769.17	2,651.23	117.94	23.480	
6,500.00	4,233.41	4,346.61	4,233.41	33.18	85.66	86.486	-203.41	5,360.88	2,721.32	2,602.86	118.46	22.972	
6,550.00	4,234.35	4,347.55	4,234.35	33.68	85.67	86.553	-203.41	5,360.88	2,673.55	2,554.56	118.99	22.468	
6,600.00	4,235.28	4,348.49	4,235.28	34.18	85.69	86.621	-203.41	5,360.88	2,625.87	2,506.35	119.52	21.970	
6,650.00	4,236.22	4,349.43	4,236.22	34.69	85.71	86.688	-203.41	5,360.88	2,578.27	2,458.22	120.05	21.476	
6,700.00	4,237.16	4,350.36	4,237.16	35.19	85.73	86.756	-203.41	5,360.88	2,530.77	2,410.18	120.59	20.987	
6,750.00	4,238.10	4,351.30	4,238.10	35.70	85.75	86.823	-203.41	5,360.88	2,483.36	2,362.24	121.12	20.503	
6,800.00	4,239.04	4,352.24	4,239.04	36.21	85.76	86.890	-203.41	5,360.88	2,436.05	2,314.40	121.66	20.024	
6,850.00	4,239.98	4,353.18	4,239.98	36.72	85.78	86.958	-203.41	5,360.88	2,388.86	2,266.66	122.20	19.549	
6,900.00	4,240.92	4,354.12	4,240.92	37.23	85.80	87.025	-203.41	5,360.88	2,341.78	2,219.04	122.73	19.080	
6,950.00	4,241.85	4,355.06	4,241.85	37.75	85.82	87.092	-203.41	5,360.88	2,294.82	2,171.55	123.28	18.615	
7,000.00	4,242.79	4,355.99	4,242.79	38.26	85.83	87.160	-203.41	5,360.88	2,248.00	2,124.18	123.82	18.156	
7,050.00	4,243.73	4,356.93	4,243.73	38.78	85.85	87.227	-203.41	5,360.88	2,201.31	2,076.95	124.36	17.701	
7,100.00	4,244.67	4,357.87	4,244.67	39.29	85.87	87.295	-203.41	5,360.88	2,154.77	2,029.87	124.90	17.251	
7,150.00	4,245.61	4,358.81	4,245.61	39.81	85.89	87.362	-203.41	5,360.88	2,108.39	1,982.94	125.45	16.807	
7,200.00	4,246.55	4,359.75	4,246.55	40.33	85.91	87.430	-203.41	5,360.88	2,062.18	1,936.19	126.00	16.367	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - OFFSET: AID STATE #10 - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.00 usft

Survey Program: 304-INC-ONLY — **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
7,250.00	4,247.48	4,360.69	4,247.48	40.85	85.92	87.497	-203.41	5,360.88	2,016.15	1,889.61	126.54	15.932	
7,300.00	4,248.42	4,361.62	4,248.42	41.38	85.94	87.565	-203.41	5,360.88	1,970.31	1,843.22	127.09	15.503	
7,350.00	4,249.36	4,362.56	4,249.36	41.90	85.96	87.632	-203.41	5,360.88	1,924.68	1,797.04	127.64	15.079	
7,400.00	4,250.30	4,363.50	4,250.30	42.42	85.98	87.699	-203.41	5,360.88	1,879.27	1,751.08	128.19	14.660	
7,450.00	4,251.24	4,364.44	4,251.24	42.95	85.99	87.767	-203.41	5,360.88	1,834.10	1,705.36	128.74	14.246	
7,500.00	4,252.18	4,365.38	4,252.18	43.48	86.01	87.834	-203.41	5,360.88	1,789.19	1,659.90	129.29	13.838	
7,550.00	4,253.11	4,366.32	4,253.11	44.00	86.03	87.902	-203.41	5,360.88	1,744.55	1,614.71	129.85	13.436	
7,600.00	4,254.05	4,367.26	4,254.05	44.53	86.05	87.969	-203.41	5,360.88	1,700.21	1,569.81	130.40	13.039	
7,650.00	4,254.99	4,368.19	4,254.99	45.06	86.06	88.037	-203.41	5,360.88	1,656.20	1,525.24	130.95	12.647	
7,700.00	4,255.93	4,369.13	4,255.93	45.59	86.08	88.104	-203.41	5,360.88	1,612.53	1,481.02	131.51	12.262	
7,750.00	4,256.87	4,370.07	4,256.87	46.12	86.10	88.172	-203.41	5,360.88	1,569.23	1,437.17	132.06	11.882	
7,800.00	4,257.81	4,371.01	4,257.81	46.65	86.12	88.239	-203.41	5,360.88	1,526.35	1,393.73	132.62	11.509	
7,850.00	4,258.74	4,371.95	4,258.74	47.18	86.14	88.307	-203.41	5,360.88	1,483.91	1,350.74	133.17	11.143	
7,900.00	4,259.68	4,372.89	4,259.68	47.72	86.15	88.374	-203.41	5,360.88	1,441.96	1,308.23	133.73	10.782	
7,950.00	4,260.62	4,373.82	4,260.62	48.25	86.17	88.442	-203.41	5,360.88	1,400.53	1,266.24	134.29	10.429	
8,000.00	4,261.56	4,374.76	4,261.56	48.78	86.19	88.510	-203.41	5,360.88	1,359.68	1,224.84	134.85	10.083	
8,050.00	4,262.50	4,375.70	4,262.50	49.32	86.21	88.577	-203.41	5,360.88	1,319.46	1,184.06	135.41	9.745	
8,100.00	4,263.44	4,376.64	4,263.44	49.85	86.22	88.645	-203.41	5,360.88	1,279.93	1,143.97	135.96	9.414	
8,150.00	4,264.37	4,377.58	4,264.37	50.39	86.24	88.712	-203.41	5,360.88	1,241.16	1,104.63	136.52	9.091	
8,200.00	4,265.31	4,378.52	4,265.31	50.92	86.26	88.780	-203.41	5,360.88	1,203.21	1,066.12	137.08	8.777	
8,250.00	4,266.25	4,379.45	4,266.25	51.46	86.28	88.847	-203.41	5,360.88	1,166.17	1,028.52	137.64	8.472	
8,300.00	4,267.19	4,380.39	4,267.19	52.00	86.30	88.915	-203.41	5,360.88	1,130.12	991.92	138.20	8.177	
8,350.00	4,268.13	4,381.33	4,268.13	52.54	86.31	88.982	-203.41	5,360.88	1,095.18	956.41	138.77	7.892	
8,400.00	4,269.07	4,382.27	4,269.07	53.08	86.33	89.050	-203.41	5,360.88	1,061.43	922.11	139.33	7.618	
8,450.00	4,270.01	4,383.21	4,270.01	53.62	86.35	89.118	-203.41	5,360.88	1,029.02	889.13	139.89	7.356	
8,500.00	4,270.94	4,384.15	4,270.94	54.16	86.37	89.185	-203.41	5,360.88	998.05	857.60	140.45	7.106	
8,550.00	4,271.88	4,385.08	4,271.88	54.70	86.38	89.253	-203.41	5,360.88	968.67	827.66	141.01	6.869	
8,600.00	4,272.82	4,386.02	4,272.82	55.24	86.40	89.320	-203.41	5,360.88	941.04	799.46	141.57	6.647	
8,650.00	4,273.76	4,386.96	4,273.76	55.78	86.42	89.388	-203.41	5,360.88	915.30	773.16	142.14	6.440	
8,700.00	4,274.70	4,387.90	4,274.70	56.32	86.44	89.455	-203.41	5,360.88	891.63	748.93	142.70	6.248	
8,750.00	4,275.64	4,388.84	4,275.64	56.86	86.45	89.523	-203.41	5,360.88	870.18	726.92	143.26	6.074	
8,800.00	4,276.57	4,389.78	4,276.57	57.40	86.47	89.591	-203.41	5,360.88	851.14	707.31	143.83	5.918	
8,850.00	4,277.51	4,390.71	4,277.51	57.95	86.49	89.658	-203.41	5,360.88	834.66	690.26	144.39	5.781	
8,900.00	4,278.45	4,391.65	4,278.45	58.49	86.51	89.726	-203.41	5,360.88	820.89	675.94	144.95	5.663	
8,950.00	4,279.39	4,392.59	4,279.39	59.03	86.53	89.793	-203.41	5,360.88	809.99	664.47	145.52	5.566	
9,000.00	4,280.33	4,393.53	4,280.33	59.58	86.54	89.861	-203.41	5,360.88	802.05	655.97	146.08	5.490	
9,050.00	4,281.27	4,394.47	4,281.27	60.12	86.56	89.928	-203.41	5,360.88	797.18	650.53	146.65	5.436	
9,100.00	4,282.20	4,395.41	4,282.20	60.66	86.58	89.996	-203.41	5,360.88	795.43	648.21	147.21	5.403	
9,102.94	4,282.26	4,395.46	4,282.26	60.70	86.58	90.000	-203.41	5,360.88	795.42	648.18	147.25	5.402	CC, ES
9,150.00	4,283.14	4,396.35	4,283.14	61.21	86.60	90.064	-203.41	5,360.88	796.81	649.03	147.78	5.392	SF
9,200.00	4,284.08	4,397.28	4,284.08	61.75	86.61	90.131	-203.41	5,360.88	801.32	652.98	148.34	5.402	
9,250.00	4,285.02	4,398.22	4,285.02	62.30	86.63	90.199	-203.41	5,360.88	808.90	659.99	148.91	5.432	
9,300.00	4,285.96	4,399.16	4,285.96	62.84	86.65	90.266	-203.41	5,360.88	819.46	669.99	149.47	5.482	
9,350.00	4,286.90	4,400.10	4,286.90	63.39	86.67	90.334	-203.41	5,360.88	832.89	682.86	150.04	5.551	
9,400.00	4,287.83	4,401.04	4,287.83	63.94	86.68	90.402	-203.41	5,360.88	849.06	698.46	150.60	5.638	
9,450.00	4,288.77	4,401.98	4,288.77	64.48	86.70	90.469	-203.41	5,360.88	867.82	716.65	151.17	5.741	
9,500.00	4,289.71	4,402.91	4,289.71	65.03	86.72	90.537	-203.41	5,360.88	888.99	737.25	151.73	5.859	
9,550.00	4,290.65	4,403.85	4,290.65	65.58	86.74	90.604	-203.41	5,360.88	912.41	760.11	152.30	5.991	
9,600.00	4,291.59	4,404.79	4,291.59	66.13	86.76	90.672	-203.41	5,360.88	937.91	785.05	152.86	6.136	
9,650.00	4,292.53	4,405.73	4,292.53	66.67	86.77	90.739	-203.41	5,360.88	965.33	811.90	153.43	6.292	
9,700.00	4,293.46	4,406.67	4,293.46	67.22	86.79	90.807	-203.41	5,360.88	994.51	840.52	154.00	6.458	
9,750.00	4,294.40	4,407.61	4,294.40	67.77	86.81	90.875	-203.41	5,360.88	1,025.30	870.74	154.56	6.634	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - OFFSET: AID STATE #10 - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.00 usft

Survey Program: 304-INC-ONLY — **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
9,800.00	4,295.34	4,408.54	4,295.34	68.32	86.83	90.942	-203.41	5,360.88	1,057.55	902.43	155.13	6.817	
9,850.00	4,296.28	4,409.48	4,296.28	68.87	86.84	91.010	-203.41	5,360.88	1,091.15	935.45	155.69	7.008	
9,900.00	4,297.22	4,410.42	4,297.22	69.42	86.86	91.077	-203.41	5,360.88	1,125.96	969.70	156.26	7.206	
9,950.00	4,298.16	4,411.36	4,298.16	69.96	86.88	91.145	-203.41	5,360.88	1,161.88	1,005.05	156.82	7.409	
10,000.00	4,299.10	4,412.30	4,299.10	70.51	86.90	91.212	-203.41	5,360.88	1,198.80	1,041.41	157.39	7.617	
10,050.00	4,300.03	4,413.24	4,300.03	71.06	86.92	91.280	-203.41	5,360.88	1,236.65	1,078.69	157.96	7.829	
10,100.00	4,300.97	4,414.17	4,300.97	71.61	86.93	91.347	-203.41	5,360.88	1,275.33	1,116.81	158.52	8.045	
10,150.00	4,301.91	4,415.11	4,301.91	72.16	86.95	91.415	-203.41	5,360.88	1,314.78	1,155.69	159.09	8.265	
10,200.00	4,302.85	4,416.05	4,302.85	72.71	86.97	91.483	-203.41	5,360.88	1,354.92	1,195.27	159.65	8.487	
10,250.00	4,303.79	4,416.99	4,303.79	73.26	86.99	91.550	-203.41	5,360.88	1,395.70	1,235.48	160.22	8.711	
10,300.00	4,304.73	4,417.93	4,304.73	73.81	87.00	91.618	-203.41	5,360.88	1,437.06	1,276.28	160.78	8.938	
10,350.00	4,305.66	4,418.87	4,305.66	74.36	87.02	91.685	-203.41	5,360.88	1,478.96	1,317.61	161.35	9.166	
10,400.00	4,306.60	4,419.80	4,306.60	74.92	87.04	91.753	-203.41	5,360.88	1,521.34	1,359.42	161.91	9.396	
10,450.00	4,307.54	4,420.74	4,307.54	75.47	87.06	91.820	-203.41	5,360.88	1,564.17	1,401.69	162.48	9.627	
10,500.00	4,308.48	4,421.68	4,308.48	76.02	87.07	91.888	-203.41	5,360.88	1,607.42	1,444.37	163.05	9.859	
10,550.00	4,309.42	4,422.62	4,309.42	76.57	87.09	91.955	-203.41	5,360.88	1,651.04	1,487.43	163.61	10.091	
10,600.00	4,310.36	4,423.56	4,310.36	77.12	87.11	92.023	-203.41	5,360.88	1,695.02	1,530.85	164.18	10.324	
10,650.00	4,311.29	4,424.50	4,311.29	77.67	87.13	92.090	-203.41	5,360.88	1,739.32	1,574.58	164.74	10.558	
10,700.00	4,312.23	4,425.44	4,312.23	78.22	87.15	92.158	-203.41	5,360.88	1,783.93	1,618.62	165.31	10.792	
10,750.00	4,313.17	4,426.37	4,313.17	78.78	87.16	92.225	-203.41	5,360.88	1,828.81	1,662.94	165.87	11.025	
10,800.00	4,314.11	4,427.31	4,314.11	79.33	87.18	92.293	-203.41	5,360.88	1,873.95	1,707.52	166.44	11.259	
10,850.00	4,315.05	4,428.25	4,315.05	79.88	87.20	92.360	-203.41	5,360.88	1,919.33	1,752.33	167.00	11.493	
10,900.00	4,315.99	4,429.19	4,315.99	80.43	87.22	92.428	-203.41	5,360.88	1,964.94	1,797.37	167.57	11.726	
10,950.00	4,316.92	4,430.13	4,316.92	80.99	87.23	92.495	-203.41	5,360.88	2,010.75	1,842.62	168.13	11.960	
11,000.00	4,317.86	4,431.07	4,317.86	81.54	87.25	92.562	-203.41	5,360.88	2,056.76	1,888.07	168.69	12.192	
11,050.00	4,318.80	4,432.00	4,318.80	82.09	87.27	92.630	-203.41	5,360.88	2,102.95	1,933.69	169.26	12.424	
11,100.00	4,319.74	4,432.94	4,319.74	82.65	87.29	92.697	-203.41	5,360.88	2,149.31	1,979.49	169.82	12.656	
11,150.00	4,320.68	4,433.88	4,320.68	83.20	87.30	92.765	-203.41	5,360.88	2,195.83	2,025.45	170.39	12.887	
11,200.00	4,321.62	4,434.82	4,321.62	83.75	87.32	92.832	-203.41	5,360.88	2,242.50	2,071.55	170.95	13.118	
11,250.00	4,322.56	4,435.76	4,322.56	84.31	87.34	92.900	-203.41	5,360.88	2,289.31	2,117.80	171.51	13.348	
11,300.00	4,323.49	4,436.70	4,323.49	84.86	87.36	92.967	-203.41	5,360.88	2,336.25	2,164.17	172.08	13.577	
11,330.25	4,324.06	4,437.26	4,324.06	85.19	87.37	93.008	-203.41	5,360.88	2,364.71	2,192.29	172.42	13.715	
11,350.00	4,324.43	4,437.63	4,324.43	85.41	87.38	93.034	-203.41	5,360.88	2,383.32	2,210.68	172.64	13.805	
11,380.28	4,325.00	4,438.20	4,325.00	85.75	87.39	93.075	-203.41	5,360.88	2,411.88	2,238.90	172.98	13.943	

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - OFFSET: AID STATE #6 - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.00 usft

Survey Program: 166-INC-ONLY — **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
5,600.00	4,216.52	4,311.62	4,216.52	24.64	79.47	86.069	-858.22	7,340.52	5,667.48	5,563.79	103.69	54.660	
5,650.00	4,217.46	4,312.56	4,217.46	25.09	79.49	86.105	-858.22	7,340.52	5,619.27	5,515.12	104.15	53.951	
5,700.00	4,218.39	4,313.49	4,218.39	25.53	79.51	86.140	-858.22	7,340.52	5,571.09	5,466.47	104.62	53.249	
5,750.00	4,219.33	4,314.43	4,219.33	25.99	79.53	86.176	-858.22	7,340.52	5,522.95	5,417.84	105.10	52.549	
5,800.00	4,220.27	4,315.37	4,220.27	26.44	79.54	86.212	-858.22	7,340.52	5,474.83	5,369.25	105.58	51.855	
5,850.00	4,221.21	4,316.31	4,221.21	26.91	79.56	86.248	-858.22	7,340.52	5,426.75	5,320.69	106.06	51.165	
5,900.00	4,222.15	4,317.25	4,222.15	27.37	79.58	86.284	-858.22	7,340.52	5,378.71	5,272.16	106.55	50.481	
5,950.00	4,223.09	4,318.19	4,223.09	27.84	79.60	86.320	-858.22	7,340.52	5,330.70	5,223.66	107.04	49.800	
6,000.00	4,224.02	4,319.12	4,224.02	28.31	79.61	86.355	-858.22	7,340.52	5,282.73	5,175.19	107.54	49.125	
6,050.00	4,224.96	4,320.06	4,224.96	28.78	79.63	86.391	-858.22	7,340.52	5,234.79	5,126.76	108.03	48.455	
6,100.00	4,225.90	4,321.00	4,225.90	29.26	79.65	86.427	-858.22	7,340.52	5,186.90	5,078.37	108.53	47.790	
6,150.00	4,226.84	4,321.94	4,226.84	29.74	79.67	86.463	-858.22	7,340.52	5,139.04	5,030.01	109.04	47.130	
6,200.00	4,227.78	4,322.88	4,227.78	30.23	79.68	86.499	-858.22	7,340.52	5,091.23	4,981.69	109.54	46.476	
6,250.00	4,228.72	4,323.82	4,228.72	30.71	79.70	86.535	-858.22	7,340.52	5,043.46	4,933.40	110.05	45.827	
6,300.00	4,229.65	4,324.75	4,229.65	31.20	79.72	86.571	-858.22	7,340.52	4,995.73	4,885.17	110.57	45.184	
6,350.00	4,230.59	4,325.69	4,230.59	31.69	79.73	86.607	-858.22	7,340.52	4,948.05	4,836.97	111.08	44.545	
6,400.00	4,231.53	4,326.63	4,231.53	32.19	79.75	86.642	-858.22	7,340.52	4,900.41	4,788.81	111.60	43.912	
6,450.00	4,232.47	4,327.57	4,232.47	32.68	79.77	86.678	-858.22	7,340.52	4,852.82	4,740.70	112.12	43.284	
6,500.00	4,233.41	4,328.51	4,233.41	33.18	79.79	86.714	-858.22	7,340.52	4,805.28	4,692.64	112.64	42.662	
6,550.00	4,234.35	4,329.45	4,234.35	33.68	79.80	86.750	-858.22	7,340.52	4,757.79	4,644.63	113.16	42.045	
6,600.00	4,235.28	4,330.38	4,235.28	34.18	79.82	86.786	-858.22	7,340.52	4,710.35	4,596.66	113.68	41.434	
6,650.00	4,236.22	4,331.32	4,236.22	34.69	79.84	86.822	-858.22	7,340.52	4,662.96	4,548.75	114.21	40.828	
6,700.00	4,237.16	4,332.26	4,237.16	35.19	79.86	86.858	-858.22	7,340.52	4,615.63	4,500.89	114.74	40.228	
6,750.00	4,238.10	4,333.20	4,238.10	35.70	79.87	86.894	-858.22	7,340.52	4,568.35	4,453.09	115.27	39.633	
6,800.00	4,239.04	4,334.14	4,239.04	36.21	79.89	86.930	-858.22	7,340.52	4,521.14	4,405.34	115.80	39.043	
6,850.00	4,239.98	4,335.08	4,239.98	36.72	79.91	86.965	-858.22	7,340.52	4,473.98	4,357.65	116.33	38.459	
6,900.00	4,240.92	4,336.02	4,240.92	37.23	79.93	87.001	-858.22	7,340.52	4,426.89	4,310.02	116.87	37.880	
6,950.00	4,241.85	4,336.95	4,241.85	37.75	79.94	87.037	-858.22	7,340.52	4,379.86	4,262.46	117.40	37.307	
7,000.00	4,242.79	4,337.89	4,242.79	38.26	79.96	87.073	-858.22	7,340.52	4,332.90	4,214.96	117.94	36.739	
7,050.00	4,243.73	4,338.83	4,243.73	38.78	79.98	87.109	-858.22	7,340.52	4,286.00	4,167.52	118.48	36.176	
7,100.00	4,244.67	4,339.77	4,244.67	39.29	79.99	87.145	-858.22	7,340.52	4,239.18	4,120.16	119.02	35.618	
7,150.00	4,245.61	4,340.71	4,245.61	39.81	80.01	87.181	-858.22	7,340.52	4,192.43	4,072.87	119.56	35.066	
7,200.00	4,246.55	4,341.65	4,246.55	40.33	80.03	87.217	-858.22	7,340.52	4,145.75	4,025.65	120.10	34.519	
7,250.00	4,247.48	4,342.58	4,247.48	40.85	80.05	87.253	-858.22	7,340.52	4,099.15	3,978.51	120.64	33.978	
7,300.00	4,248.42	4,343.52	4,248.42	41.38	80.06	87.289	-858.22	7,340.52	4,052.64	3,931.45	121.19	33.441	
7,350.00	4,249.36	4,344.46	4,249.36	41.90	80.08	87.325	-858.22	7,340.52	4,006.21	3,884.47	121.73	32.910	
7,400.00	4,250.30	4,345.40	4,250.30	42.42	80.10	87.360	-858.22	7,340.52	3,959.86	3,837.58	122.28	32.384	
7,450.00	4,251.24	4,346.34	4,251.24	42.95	80.12	87.396	-858.22	7,340.52	3,913.60	3,790.78	122.83	31.863	
7,500.00	4,252.18	4,347.28	4,252.18	43.48	80.13	87.432	-858.22	7,340.52	3,867.44	3,744.07	123.37	31.348	
7,550.00	4,253.11	4,348.21	4,253.11	44.00	80.15	87.468	-858.22	7,340.52	3,821.37	3,697.45	123.92	30.837	
7,600.00	4,254.05	4,349.15	4,254.05	44.53	80.17	87.504	-858.22	7,340.52	3,775.41	3,650.94	124.47	30.331	
7,650.00	4,254.99	4,350.09	4,254.99	45.06	80.19	87.540	-858.22	7,340.52	3,729.54	3,604.52	125.02	29.831	
7,700.00	4,255.93	4,351.03	4,255.93	45.59	80.20	87.576	-858.22	7,340.52	3,683.79	3,558.21	125.57	29.336	
7,750.00	4,256.87	4,351.97	4,256.87	46.12	80.22	87.612	-858.22	7,340.52	3,638.14	3,512.02	126.13	28.845	
7,800.00	4,257.81	4,352.91	4,257.81	46.65	80.24	87.648	-858.22	7,340.52	3,592.62	3,465.94	126.68	28.360	
7,850.00	4,258.74	4,353.84	4,258.74	47.18	80.25	87.684	-858.22	7,340.52	3,547.21	3,419.97	127.23	27.880	
7,900.00	4,259.68	4,354.78	4,259.68	47.72	80.27	87.720	-858.22	7,340.52	3,501.92	3,374.14	127.79	27.405	
7,950.00	4,260.62	4,355.72	4,260.62	48.25	80.29	87.756	-858.22	7,340.52	3,456.77	3,328.43	128.34	26.934	
8,000.00	4,261.56	4,356.66	4,261.56	48.78	80.31	87.792	-858.22	7,340.52	3,411.75	3,282.85	128.90	26.469	
8,050.00	4,262.50	4,357.60	4,262.50	49.32	80.32	87.828	-858.22	7,340.52	3,366.87	3,237.42	129.45	26.009	
8,100.00	4,263.44	4,358.54	4,263.44	49.85	80.34	87.864	-858.22	7,340.52	3,322.14	3,192.13	130.01	25.553	
8,150.00	4,264.37	4,359.47	4,264.37	50.39	80.36	87.900	-858.22	7,340.52	3,277.56	3,146.99	130.57	25.103	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - OFFSET: AID STATE #6 - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.00 usft

Survey Program: 166-INC-ONLY — **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
8,200.00	4,265.31	4,360.41	4,265.31	50.92	80.38	87.936	-858.22	7,340.52	3,233.14	3,102.01	131.12	24.657	
8,250.00	4,266.25	4,361.35	4,266.25	51.46	80.39	87.972	-858.22	7,340.52	3,188.88	3,057.20	131.68	24.216	
8,300.00	4,267.19	4,362.29	4,267.19	52.00	80.41	88.007	-858.22	7,340.52	3,144.79	3,012.55	132.24	23.781	
8,350.00	4,268.13	4,363.23	4,268.13	52.54	80.43	88.043	-858.22	7,340.52	3,100.89	2,968.09	132.80	23.350	
8,400.00	4,269.07	4,382.00	4,286.90	53.08	80.77	88.763	-858.22	7,340.52	3,057.22	2,923.47	133.75	22.858	
8,450.00	4,270.01	4,382.00	4,286.90	53.62	80.77	88.763	-858.22	7,340.52	3,013.69	2,879.40	134.29	22.442	
8,500.00	4,270.94	4,382.00	4,286.90	54.16	80.77	88.763	-858.22	7,340.52	2,970.36	2,835.53	134.83	22.030	
8,550.00	4,271.88	4,382.00	4,286.90	54.70	80.77	88.763	-858.22	7,340.52	2,927.25	2,791.88	135.37	21.624	
8,600.00	4,272.82	4,382.00	4,286.90	55.24	80.77	88.763	-858.22	7,340.52	2,884.36	2,748.45	135.91	21.222	
8,650.00	4,273.76	4,382.00	4,286.90	55.78	80.77	88.763	-858.22	7,340.52	2,841.70	2,705.25	136.45	20.826	
8,700.00	4,274.70	4,382.00	4,286.90	56.32	80.77	88.763	-858.22	7,340.52	2,799.29	2,662.29	136.99	20.434	
8,750.00	4,275.64	4,382.00	4,286.90	56.86	80.77	88.763	-858.22	7,340.52	2,757.13	2,619.59	137.54	20.047	
8,800.00	4,276.57	4,382.00	4,286.90	57.40	80.77	88.763	-858.22	7,340.52	2,715.23	2,577.15	138.08	19.665	
8,850.00	4,277.51	4,382.00	4,286.90	57.95	80.77	88.763	-858.22	7,340.52	2,673.62	2,534.99	138.62	19.287	
8,900.00	4,278.45	4,382.00	4,286.90	58.49	80.77	88.763	-858.22	7,340.52	2,632.29	2,493.13	139.16	18.915	
8,950.00	4,279.39	4,382.00	4,286.90	59.03	80.77	88.763	-858.22	7,340.52	2,591.27	2,451.57	139.71	18.548	
9,000.00	4,280.33	4,382.00	4,286.90	59.58	80.77	88.763	-858.22	7,340.52	2,550.58	2,410.32	140.25	18.186	
9,050.00	4,281.27	4,382.00	4,286.90	60.12	80.77	88.763	-858.22	7,340.52	2,510.21	2,369.42	140.80	17.829	
9,100.00	4,282.20	4,382.00	4,286.90	60.66	80.77	88.763	-858.22	7,340.52	2,470.20	2,328.86	141.34	17.477	
9,150.00	4,283.14	4,382.00	4,286.90	61.21	80.77	88.763	-858.22	7,340.52	2,430.57	2,288.68	141.89	17.131	
9,200.00	4,284.08	4,382.00	4,286.90	61.75	80.77	88.763	-858.22	7,340.52	2,391.31	2,248.88	142.43	16.789	
9,250.00	4,285.02	4,382.00	4,286.90	62.30	80.77	88.763	-858.22	7,340.52	2,352.47	2,209.50	142.98	16.454	
9,300.00	4,285.96	4,382.00	4,286.90	62.84	80.77	88.763	-858.22	7,340.52	2,314.06	2,170.54	143.52	16.123	
9,350.00	4,286.90	4,382.00	4,286.90	63.39	80.77	88.763	-858.22	7,340.52	2,276.09	2,132.02	144.07	15.799	
9,400.00	4,287.83	4,382.94	4,287.83	63.94	80.79	88.799	-858.22	7,340.52	2,238.60	2,093.97	144.63	15.478	
9,450.00	4,288.77	4,383.87	4,288.77	64.48	80.81	88.835	-858.22	7,340.52	2,201.61	2,056.40	145.20	15.162	
9,500.00	4,289.71	4,384.81	4,289.71	65.03	80.83	88.871	-858.22	7,340.52	2,165.13	2,019.36	145.77	14.853	
9,550.00	4,290.65	4,385.75	4,290.65	65.58	80.85	88.907	-858.22	7,340.52	2,129.21	1,982.87	146.34	14.550	
9,600.00	4,291.59	4,386.69	4,291.59	66.13	80.86	88.943	-858.22	7,340.52	2,093.86	1,946.96	146.91	14.253	
9,650.00	4,292.53	4,387.63	4,292.53	66.67	80.88	88.979	-858.22	7,340.52	2,059.12	1,911.65	147.47	13.963	
9,700.00	4,293.46	4,388.57	4,293.46	67.22	80.90	89.015	-858.22	7,340.52	2,025.02	1,876.98	148.04	13.679	
9,750.00	4,294.40	4,389.50	4,294.40	67.77	80.92	89.051	-858.22	7,340.52	1,991.59	1,842.98	148.61	13.401	
9,800.00	4,295.34	4,390.44	4,295.34	68.32	80.93	89.087	-858.22	7,340.52	1,958.87	1,809.69	149.18	13.131	
9,850.00	4,296.28	4,391.38	4,296.28	68.87	80.95	89.123	-858.22	7,340.52	1,926.88	1,777.14	149.75	12.867	
9,900.00	4,297.22	4,392.32	4,297.22	69.42	80.97	89.159	-858.22	7,340.52	1,895.68	1,745.36	150.32	12.611	
9,950.00	4,298.16	4,393.26	4,298.16	69.96	80.99	89.195	-858.22	7,340.52	1,865.29	1,714.41	150.89	12.362	
10,000.00	4,299.10	4,394.20	4,299.10	70.51	81.01	89.231	-858.22	7,340.52	1,835.77	1,684.31	151.46	12.121	
10,050.00	4,300.03	4,395.14	4,300.03	71.06	81.02	89.267	-858.22	7,340.52	1,807.14	1,655.11	152.03	11.887	
10,100.00	4,300.97	4,396.07	4,300.97	71.61	81.04	89.303	-858.22	7,340.52	1,779.46	1,626.86	152.60	11.661	
10,150.00	4,301.91	4,397.01	4,301.91	72.16	81.06	89.339	-858.22	7,340.52	1,752.76	1,599.59	153.17	11.443	
10,200.00	4,302.85	4,397.95	4,302.85	72.71	81.08	89.375	-858.22	7,340.52	1,727.10	1,573.36	153.74	11.234	
10,250.00	4,303.79	4,398.89	4,303.79	73.26	81.10	89.411	-858.22	7,340.52	1,702.52	1,548.22	154.31	11.033	
10,300.00	4,304.73	4,399.83	4,304.73	73.81	81.11	89.447	-858.22	7,340.52	1,679.08	1,524.20	154.88	10.841	
10,350.00	4,305.66	4,400.77	4,305.66	74.36	81.13	89.483	-858.22	7,340.52	1,656.80	1,501.35	155.45	10.658	
10,400.00	4,306.60	4,401.70	4,306.60	74.92	81.15	89.519	-858.22	7,340.52	1,635.76	1,479.74	156.02	10.484	
10,450.00	4,307.54	4,402.64	4,307.54	75.47	81.17	89.555	-858.22	7,340.52	1,615.98	1,459.39	156.59	10.320	
10,500.00	4,308.48	4,403.58	4,308.48	76.02	81.18	89.591	-858.22	7,340.52	1,597.53	1,440.37	157.16	10.165	
10,550.00	4,309.42	4,404.52	4,309.42	76.57	81.20	89.627	-858.22	7,340.52	1,580.44	1,422.71	157.73	10.020	
10,600.00	4,310.36	4,405.46	4,310.36	77.12	81.22	89.663	-858.22	7,340.52	1,564.76	1,406.46	158.30	9.884	
10,650.00	4,311.29	4,406.40	4,311.29	77.67	81.24	89.699	-858.22	7,340.52	1,550.54	1,391.67	158.88	9.759	
10,700.00	4,312.23	4,407.33	4,312.23	78.22	81.26	89.735	-858.22	7,340.52	1,537.81	1,378.37	159.45	9.645	
10,750.00	4,313.17	4,408.27	4,313.17	78.78	81.27	89.771	-858.22	7,340.52	1,526.62	1,366.60	160.02	9.540	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - OFFSET: AID STATE #6 - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.00 usft

Survey Program: 166-INC-ONLY — **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
10,800.00	4,314.11	4,409.21	4,314.11	79.33	81.29	89.807	-858.22	7,340.52	1,516.99	1,356.40	160.59	9.446	
10,850.00	4,315.05	4,410.15	4,315.05	79.88	81.31	89.843	-858.22	7,340.52	1,508.95	1,347.79	161.16	9.363	
10,900.00	4,315.99	4,411.09	4,315.99	80.43	81.33	89.879	-858.22	7,340.52	1,502.54	1,340.80	161.73	9.290	
10,950.00	4,316.92	4,412.03	4,316.92	80.99	81.35	89.915	-858.22	7,340.52	1,497.76	1,335.46	162.31	9.228	
11,000.00	4,317.86	4,412.96	4,317.86	81.54	81.36	89.951	-858.22	7,340.52	1,494.65	1,331.77	162.88	9.176	
11,050.00	4,318.80	4,413.90	4,318.80	82.09	81.38	89.987	-858.22	7,340.52	1,493.20	1,329.75	163.45	9.135	
11,068.23	4,319.14	4,414.25	4,319.14	82.29	81.39	90.000	-858.22	7,340.52	1,493.09	1,329.43	163.66	9.123	CC
11,100.00	4,319.74	4,414.84	4,319.74	82.65	81.40	90.023	-858.22	7,340.52	1,493.43	1,329.41	164.02	9.105	ES
11,150.00	4,320.68	4,415.78	4,320.68	83.20	81.42	90.059	-858.22	7,340.52	1,495.33	1,330.73	164.60	9.085	
11,200.00	4,321.62	4,416.72	4,321.62	83.75	81.43	90.095	-858.22	7,340.52	1,498.89	1,333.73	165.17	9.075	SF
11,250.00	4,322.56	4,417.66	4,322.56	84.31	81.45	90.131	-858.22	7,340.52	1,504.11	1,338.37	165.74	9.075	
11,300.00	4,323.49	4,418.60	4,323.49	84.86	81.47	90.167	-858.22	7,340.52	1,510.97	1,344.66	166.31	9.085	
11,330.25	4,324.06	4,419.16	4,324.06	85.19	81.48	90.189	-858.22	7,340.52	1,515.90	1,349.24	166.66	9.096	
11,350.00	4,324.43	4,419.53	4,324.43	85.41	81.49	90.203	-858.22	7,340.52	1,519.44	1,352.55	166.89	9.105	
11,380.28	4,325.00	4,420.10	4,325.00	85.75	81.50	90.225	-858.22	7,340.52	1,525.34	1,358.11	167.23	9.121	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - OFFSET: AID STATE #8 - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.00 usft

Survey Program: 335-INC-ONLY — **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
5,750.00	4,219.33	4,327.52	4,219.33	25.99	88.75	59.898	462.10	7,342.24	5,350.50	5,251.75	98.76	54.178	
5,800.00	4,220.27	4,328.46	4,220.27	26.44	88.77	60.131	462.10	7,342.24	5,300.54	5,201.12	99.42	53.315	
5,850.00	4,221.21	4,329.39	4,221.21	26.91	88.79	60.365	462.10	7,342.24	5,250.57	5,150.49	100.09	52.460	
5,900.00	4,222.15	4,330.33	4,222.15	27.37	88.81	60.600	462.10	7,342.24	5,200.61	5,099.85	100.76	51.615	
5,950.00	4,223.09	4,331.27	4,223.09	27.84	88.83	60.836	462.10	7,342.24	5,150.65	5,049.21	101.44	50.778	
6,000.00	4,224.02	4,332.21	4,224.02	28.31	88.85	61.073	462.10	7,342.24	5,100.68	4,998.57	102.11	49.951	
6,050.00	4,224.96	4,333.15	4,224.96	28.78	88.87	61.312	462.10	7,342.24	5,050.72	4,947.92	102.80	49.133	
6,100.00	4,225.90	4,334.09	4,225.90	29.26	88.89	61.551	462.10	7,342.24	5,000.76	4,897.28	103.48	48.324	
6,150.00	4,226.84	4,335.03	4,226.84	29.74	88.91	61.792	462.10	7,342.24	4,950.80	4,846.63	104.17	47.524	
6,200.00	4,227.78	4,335.96	4,227.78	30.23	88.94	62.034	462.10	7,342.24	4,900.84	4,795.97	104.87	46.734	
6,250.00	4,228.72	4,336.90	4,228.72	30.71	88.96	62.276	462.10	7,342.24	4,850.88	4,745.32	105.56	45.952	
6,300.00	4,229.65	4,339.00	4,230.79	31.20	89.00	62.817	462.10	7,342.24	4,800.92	4,694.35	106.57	45.050	
6,350.00	4,230.59	4,339.00	4,230.79	31.69	89.00	62.817	462.10	7,342.24	4,750.96	4,643.94	107.02	44.393	
6,400.00	4,231.53	4,339.74	4,231.53	32.19	89.02	63.011	462.10	7,342.24	4,701.00	4,593.33	107.67	43.660	
6,450.00	4,232.47	4,340.68	4,232.47	32.68	89.04	63.258	462.10	7,342.24	4,651.05	4,542.67	108.38	42.913	
6,500.00	4,233.41	4,341.62	4,233.41	33.18	89.07	63.506	462.10	7,342.24	4,601.09	4,492.00	109.09	42.176	
6,550.00	4,234.35	4,342.56	4,234.35	33.68	89.09	63.756	462.10	7,342.24	4,551.14	4,441.33	109.81	41.446	
6,600.00	4,235.28	4,343.49	4,235.28	34.18	89.11	64.006	462.10	7,342.24	4,501.18	4,390.66	110.52	40.726	
6,650.00	4,236.22	4,344.43	4,236.22	34.69	89.13	64.257	462.10	7,342.24	4,451.23	4,339.99	111.24	40.014	
6,700.00	4,237.16	4,345.37	4,237.16	35.19	89.16	64.510	462.10	7,342.24	4,401.27	4,289.31	111.96	39.310	
6,750.00	4,238.10	4,346.31	4,238.10	35.70	89.18	64.763	462.10	7,342.24	4,351.32	4,238.64	112.69	38.615	
6,800.00	4,239.04	4,347.25	4,239.04	36.21	89.20	65.018	462.10	7,342.24	4,301.37	4,187.96	113.41	37.928	
6,850.00	4,239.98	4,348.19	4,239.98	36.72	89.22	65.274	462.10	7,342.24	4,251.42	4,137.28	114.14	37.248	
6,900.00	4,240.92	4,349.12	4,240.92	37.23	89.25	65.530	462.10	7,342.24	4,201.47	4,086.61	114.86	36.578	
6,950.00	4,241.85	4,350.06	4,241.85	37.75	89.27	65.788	462.10	7,342.24	4,151.52	4,035.93	115.59	35.915	
7,000.00	4,242.79	4,351.00	4,242.79	38.26	89.29	66.047	462.10	7,342.24	4,101.58	3,985.25	116.32	35.260	
7,050.00	4,243.73	4,351.94	4,243.73	38.78	89.31	66.307	462.10	7,342.24	4,051.63	3,934.57	117.06	34.612	
7,100.00	4,244.67	4,352.88	4,244.67	39.29	89.34	66.568	462.10	7,342.24	4,001.69	3,883.89	117.79	33.973	
7,150.00	4,245.61	4,353.82	4,245.61	39.81	89.36	66.830	462.10	7,342.24	3,951.74	3,833.22	118.53	33.341	
7,200.00	4,246.55	4,354.75	4,246.55	40.33	89.38	67.093	462.10	7,342.24	3,901.80	3,782.54	119.26	32.716	
7,250.00	4,247.48	4,355.69	4,247.48	40.85	89.40	67.357	462.10	7,342.24	3,851.86	3,731.86	120.00	32.099	
7,300.00	4,248.42	4,356.63	4,248.42	41.38	89.43	67.622	462.10	7,342.24	3,801.92	3,681.18	120.74	31.489	
7,350.00	4,249.36	4,357.57	4,249.36	41.90	89.45	67.888	462.10	7,342.24	3,751.98	3,630.50	121.48	30.886	
7,400.00	4,250.30	4,358.51	4,250.30	42.42	89.47	68.155	462.10	7,342.24	3,702.04	3,579.82	122.22	30.291	
7,450.00	4,251.24	4,359.45	4,251.24	42.95	89.49	68.423	462.10	7,342.24	3,652.11	3,529.15	122.96	29.702	
7,500.00	4,252.18	4,360.38	4,252.18	43.48	89.51	68.692	462.10	7,342.24	3,602.17	3,478.47	123.70	29.120	
7,550.00	4,253.11	4,361.32	4,253.11	44.00	89.54	68.962	462.10	7,342.24	3,552.24	3,427.80	124.44	28.545	
7,600.00	4,254.05	4,362.26	4,254.05	44.53	89.56	69.233	462.10	7,342.24	3,502.31	3,377.12	125.18	27.977	
7,650.00	4,254.99	4,363.20	4,254.99	45.06	89.58	69.505	462.10	7,342.24	3,452.38	3,326.45	125.93	27.416	
7,700.00	4,255.93	4,364.14	4,255.93	45.59	89.60	69.777	462.10	7,342.24	3,402.45	3,275.78	126.67	26.861	
7,750.00	4,256.87	4,365.08	4,256.87	46.12	89.63	70.051	462.10	7,342.24	3,352.53	3,225.11	127.41	26.312	
7,800.00	4,257.81	4,366.02	4,257.81	46.65	89.65	70.326	462.10	7,342.24	3,302.60	3,174.45	128.16	25.770	
7,850.00	4,258.74	4,366.95	4,258.74	47.18	89.67	70.602	462.10	7,342.24	3,252.68	3,123.78	128.90	25.234	
7,900.00	4,259.68	4,367.89	4,259.68	47.72	89.69	70.879	462.10	7,342.24	3,202.76	3,073.12	129.65	24.704	
7,950.00	4,260.62	4,368.83	4,260.62	48.25	89.72	71.156	462.10	7,342.24	3,152.85	3,022.46	130.39	24.180	
8,000.00	4,261.56	4,369.77	4,261.56	48.78	89.74	71.435	462.10	7,342.24	3,102.93	2,971.80	131.13	23.662	
8,050.00	4,262.50	4,370.71	4,262.50	49.32	89.76	71.714	462.10	7,342.24	3,053.02	2,921.14	131.88	23.151	
8,100.00	4,263.44	4,371.65	4,263.44	49.85	89.78	71.995	462.10	7,342.24	3,003.11	2,870.49	132.62	22.645	
8,150.00	4,264.37	4,372.58	4,264.37	50.39	89.81	72.276	462.10	7,342.24	2,953.20	2,819.84	133.36	22.144	
8,200.00	4,265.31	4,373.52	4,265.31	50.92	89.83	72.558	462.10	7,342.24	2,903.30	2,769.19	134.10	21.650	
8,250.00	4,266.25	4,374.46	4,266.25	51.46	89.85	72.841	462.10	7,342.24	2,853.40	2,718.55	134.85	21.160	
8,300.00	4,267.19	4,375.40	4,267.19	52.00	89.87	73.125	462.10	7,342.24	2,803.50	2,667.91	135.59	20.677	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - OFFSET: AID STATE #8 - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.00 usft

Survey Program: 335-INC-ONLY — **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
8,350.00	4,268.13	4,376.34	4,268.13	52.54	89.90	73.410	462.10	7,342.24	2,753.61	2,617.28	136.33	20.198	
8,400.00	4,269.07	4,377.28	4,269.07	53.08	89.92	73.696	462.10	7,342.24	2,703.72	2,566.65	137.07	19.725	
8,450.00	4,270.01	4,378.21	4,270.01	53.62	89.94	73.982	462.10	7,342.24	2,653.83	2,516.02	137.81	19.258	
8,500.00	4,270.94	4,379.15	4,270.94	54.16	89.96	74.269	462.10	7,342.24	2,603.95	2,465.40	138.54	18.795	
8,550.00	4,271.88	4,380.09	4,271.88	54.70	89.99	74.557	462.10	7,342.24	2,554.07	2,414.79	139.28	18.337	
8,600.00	4,272.82	4,381.03	4,272.82	55.24	90.01	74.846	462.10	7,342.24	2,504.19	2,364.18	140.02	17.885	
8,650.00	4,273.76	4,381.97	4,273.76	55.78	90.03	75.136	462.10	7,342.24	2,454.33	2,313.57	140.75	17.437	
8,700.00	4,274.70	4,382.91	4,274.70	56.32	90.05	75.427	462.10	7,342.24	2,404.46	2,262.98	141.49	16.994	
8,750.00	4,275.64	4,383.84	4,275.64	56.86	90.08	75.718	462.10	7,342.24	2,354.60	2,212.39	142.22	16.556	
8,800.00	4,276.57	4,384.78	4,276.57	57.40	90.10	76.010	462.10	7,342.24	2,304.75	2,161.80	142.95	16.123	
8,850.00	4,277.51	4,385.72	4,277.51	57.95	90.12	76.302	462.10	7,342.24	2,254.90	2,111.23	143.68	15.694	
8,900.00	4,278.45	4,386.66	4,278.45	58.49	90.14	76.596	462.10	7,342.24	2,205.06	2,060.66	144.41	15.270	
8,950.00	4,279.39	4,387.60	4,279.39	59.03	90.17	76.890	462.10	7,342.24	2,155.23	2,010.10	145.13	14.850	
9,000.00	4,280.33	4,388.54	4,280.33	59.58	90.19	77.185	462.10	7,342.24	2,105.40	1,959.55	145.86	14.435	
9,050.00	4,281.27	4,389.48	4,281.27	60.12	90.21	77.481	462.10	7,342.24	2,055.59	1,909.01	146.58	14.024	
9,100.00	4,282.20	4,390.41	4,282.20	60.66	90.23	77.777	462.10	7,342.24	2,005.78	1,858.48	147.30	13.617	
9,150.00	4,283.14	4,391.35	4,283.14	61.21	90.26	78.074	462.10	7,342.24	1,955.98	1,807.96	148.02	13.214	
9,200.00	4,284.08	4,392.29	4,284.08	61.75	90.28	78.371	462.10	7,342.24	1,906.19	1,757.45	148.73	12.816	
9,250.00	4,285.02	4,393.23	4,285.02	62.30	90.30	78.670	462.10	7,342.24	1,856.41	1,706.96	149.45	12.422	
9,300.00	4,285.96	4,394.17	4,285.96	62.84	90.32	78.968	462.10	7,342.24	1,806.64	1,656.48	150.16	12.031	
9,350.00	4,286.90	4,395.11	4,286.90	63.39	90.35	79.268	462.10	7,342.24	1,756.89	1,606.01	150.87	11.645	
9,400.00	4,287.83	4,396.04	4,287.83	63.94	90.37	79.568	462.10	7,342.24	1,707.15	1,555.57	151.58	11.262	
9,450.00	4,288.77	4,396.98	4,288.77	64.48	90.39	79.868	462.10	7,342.24	1,657.42	1,505.13	152.28	10.884	
9,500.00	4,289.71	4,397.92	4,289.71	65.03	90.41	80.170	462.10	7,342.24	1,607.71	1,454.72	152.99	10.509	
9,550.00	4,290.65	4,398.86	4,290.65	65.58	90.44	80.471	462.10	7,342.24	1,558.02	1,404.33	153.69	10.138	
9,600.00	4,291.59	4,399.80	4,291.59	66.13	90.46	80.774	462.10	7,342.24	1,508.35	1,353.96	154.39	9.770	
9,650.00	4,292.53	4,400.74	4,292.53	66.67	90.48	81.076	462.10	7,342.24	1,458.70	1,303.62	155.08	9.406	
9,700.00	4,293.46	4,401.67	4,293.46	67.22	90.50	81.380	462.10	7,342.24	1,409.07	1,253.30	155.77	9.046	
9,750.00	4,294.40	4,402.61	4,294.40	67.77	90.53	81.684	462.10	7,342.24	1,359.47	1,203.01	156.46	8.689	
9,800.00	4,295.34	4,403.55	4,295.34	68.32	90.55	81.988	462.10	7,342.24	1,309.91	1,152.76	157.15	8.335	
9,850.00	4,296.28	4,404.49	4,296.28	68.87	90.57	82.292	462.10	7,342.24	1,260.37	1,102.54	157.83	7.985	
9,900.00	4,297.22	4,405.43	4,297.22	69.42	90.59	82.598	462.10	7,342.24	1,210.87	1,052.36	158.51	7.639	
9,950.00	4,298.16	4,406.37	4,298.16	69.96	90.62	82.903	462.10	7,342.24	1,161.42	1,002.23	159.19	7.296	
10,000.00	4,299.10	4,407.30	4,299.10	70.51	90.64	83.209	462.10	7,342.24	1,112.01	952.14	159.87	6.956	
10,050.00	4,300.03	4,408.24	4,300.03	71.06	90.66	83.516	462.10	7,342.24	1,062.66	902.12	160.54	6.619	
10,100.00	4,300.97	4,409.18	4,300.97	71.61	90.68	83.822	462.10	7,342.24	1,013.37	852.16	161.20	6.286	
10,150.00	4,301.91	4,410.12	4,301.91	72.16	90.71	84.129	462.10	7,342.24	964.15	802.28	161.87	5.956	
10,200.00	4,302.85	4,411.06	4,302.85	72.71	90.73	84.437	462.10	7,342.24	915.01	752.48	162.53	5.630	
10,250.00	4,303.79	4,412.00	4,303.79	73.26	90.75	84.745	462.10	7,342.24	865.98	702.79	163.19	5.307	
10,300.00	4,304.73	4,412.93	4,304.73	73.81	90.77	85.053	462.10	7,342.24	817.05	653.22	163.84	4.987	
10,350.00	4,305.66	4,413.87	4,305.66	74.36	90.80	85.361	462.10	7,342.24	768.27	603.78	164.49	4.671	
10,400.00	4,306.60	4,414.81	4,306.60	74.92	90.82	85.670	462.10	7,342.24	719.65	554.52	165.14	4.358	
10,450.00	4,307.54	4,415.75	4,307.54	75.47	90.84	85.978	462.10	7,342.24	671.24	505.46	165.78	4.049	
10,500.00	4,308.48	4,416.69	4,308.48	76.02	90.86	86.287	462.10	7,342.24	623.07	456.66	166.42	3.744	
10,550.00	4,309.42	4,417.63	4,309.42	76.57	90.89	86.597	462.10	7,342.24	575.22	408.17	167.05	3.443	
10,600.00	4,310.36	4,418.57	4,310.36	77.12	90.91	86.906	462.10	7,342.24	527.76	360.08	167.68	3.147	
10,650.00	4,311.29	4,419.50	4,311.29	77.67	90.93	87.216	462.10	7,342.24	480.81	312.51	168.31	2.857	
10,700.00	4,312.23	4,420.44	4,312.23	78.22	90.95	87.526	462.10	7,342.24	434.55	265.62	168.93	2.572	
10,750.00	4,313.17	4,421.38	4,313.17	78.78	90.98	87.836	462.10	7,342.24	389.21	219.66	169.55	2.296	
10,800.00	4,314.11	4,422.32	4,314.11	79.33	91.00	88.146	462.10	7,342.24	345.15	174.99	170.16	2.028	
10,850.00	4,315.05	4,423.26	4,315.05	79.88	91.02	88.456	462.10	7,342.24	302.94	132.17	170.77	1.774	
10,900.00	4,315.99	4,424.20	4,315.99	80.43	91.04	88.767	462.10	7,342.24	263.47	92.09	171.38	1.537	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - OFFSET: AID STATE #8 - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.00 usft

Survey Program: 335-INC-ONLY — **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
10,950.00	4,316.92	4,425.13	4,316.92	80.99	91.07	89.077	462.10	7,342.24	228.16	56.18	171.98	1.327	Level 3
11,000.00	4,317.86	4,426.07	4,317.86	81.54	91.09	89.387	462.10	7,342.24	199.24	26.67	172.58	1.155	Level 2
11,050.00	4,318.80	4,427.01	4,318.80	82.09	91.11	89.698	462.10	7,342.24	179.82	6.66	173.17	1.038	Level 2
11,098.64	4,319.71	4,427.92	4,319.71	82.63	91.13	90.000	462.10	7,342.24	173.12	-0.62	173.74	0.996	Level 1, CC
11,100.00	4,319.74	4,427.95	4,319.74	82.65	91.13	90.008	462.10	7,342.24	173.13	-0.63	173.76	0.996	Level 1, ES, SF
11,150.00	4,320.68	4,428.89	4,320.68	83.20	91.16	90.319	462.10	7,342.24	180.58	6.24	174.34	1.036	Level 2
11,200.00	4,321.62	4,429.83	4,321.62	83.75	91.18	90.629	462.10	7,342.24	200.60	25.68	174.92	1.147	Level 2
11,250.00	4,322.56	4,430.76	4,322.56	84.31	91.20	90.940	462.10	7,342.24	229.94	54.45	175.49	1.310	Level 3
11,300.00	4,323.49	4,431.70	4,323.49	84.86	91.22	91.250	462.10	7,342.24	265.52	89.46	176.06	1.508	
11,330.25	4,324.06	4,432.27	4,324.06	85.19	91.24	91.438	462.10	7,342.24	289.12	112.72	176.40	1.639	
11,350.00	4,324.43	4,432.64	4,324.43	85.41	91.25	91.561	462.10	7,342.24	305.17	128.54	176.63	1.728	
11,380.28	4,325.00	4,433.21	4,325.00	85.75	91.26	91.748	462.10	7,342.24	330.55	153.58	176.97	1.868	

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - OFFSET: AID STATE #9 - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.00 usft

Survey Program: 821-INC-ONLY — **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
4,700.00	4,199.28	4,300.39	4,199.28	17.85	75.56	-65.656	1,116.86	5,362.58	4,463.47	4,377.54	85.93	51.943	
4,719.94	4,200.00	4,301.11	4,200.00	17.97	75.57	-81.027	1,116.86	5,362.58	4,443.68	4,351.06	92.63	47.975	
4,750.00	4,200.56	4,301.67	4,200.56	18.15	75.58	-81.088	1,116.86	5,362.58	4,413.83	4,321.00	92.83	47.547	
4,800.00	4,201.50	4,302.61	4,201.50	18.46	75.60	-81.188	1,116.86	5,362.58	4,364.20	4,271.03	93.17	46.841	
4,850.00	4,202.44	4,303.55	4,202.44	18.78	75.62	-81.288	1,116.86	5,362.58	4,314.58	4,221.04	93.53	46.129	
4,900.00	4,203.38	4,304.49	4,203.38	19.11	75.64	-81.388	1,116.86	5,362.58	4,264.96	4,171.07	93.90	45.423	
4,950.00	4,204.32	4,305.42	4,204.32	19.46	75.66	-81.488	1,116.86	5,362.58	4,215.35	4,121.08	94.28	44.712	
5,000.00	4,205.26	4,306.36	4,205.26	19.80	75.67	-81.588	1,116.86	5,362.58	4,165.76	4,071.09	94.66	44.007	
5,050.00	4,206.19	4,307.30	4,206.19	20.17	75.69	-81.689	1,116.86	5,362.58	4,116.17	4,021.10	95.06	43.300	
5,100.00	4,207.13	4,308.24	4,207.13	20.54	75.71	-81.789	1,116.86	5,362.58	4,066.59	3,971.12	95.46	42.598	
5,150.00	4,208.07	4,309.18	4,208.07	20.92	75.73	-81.890	1,116.86	5,362.58	4,017.02	3,921.14	95.88	41.895	
5,200.00	4,209.01	4,310.12	4,209.01	21.30	75.75	-81.990	1,116.86	5,362.58	3,967.46	3,871.16	96.30	41.199	
5,250.00	4,209.95	4,311.05	4,209.95	21.70	75.76	-82.091	1,116.86	5,362.58	3,917.92	3,821.18	96.73	40.502	
5,300.00	4,210.89	4,311.99	4,210.89	22.10	75.78	-82.191	1,116.86	5,362.58	3,868.38	3,771.21	97.17	39.812	
5,350.00	4,211.83	4,312.93	4,211.83	22.51	75.80	-82.292	1,116.86	5,362.58	3,818.86	3,721.24	97.61	39.122	
5,400.00	4,212.76	4,313.87	4,212.76	22.92	75.82	-82.392	1,116.86	5,362.58	3,769.34	3,671.28	98.06	38.439	
5,450.00	4,213.70	4,314.81	4,213.70	23.35	75.83	-82.493	1,116.86	5,362.58	3,719.85	3,621.33	98.52	37.758	
5,500.00	4,214.64	4,315.75	4,214.64	23.77	75.85	-82.594	1,116.86	5,362.58	3,670.36	3,571.38	98.98	37.083	
5,550.00	4,215.58	4,316.68	4,215.58	24.21	75.87	-82.695	1,116.86	5,362.58	3,620.89	3,521.44	99.45	36.410	
5,600.00	4,216.52	4,317.62	4,216.52	24.64	75.89	-82.796	1,116.86	5,362.58	3,571.43	3,471.52	99.92	35.744	
5,650.00	4,217.46	4,318.56	4,217.46	25.09	75.91	-82.896	1,116.86	5,362.58	3,521.99	3,421.60	100.40	35.081	
5,700.00	4,218.39	4,319.50	4,218.39	25.53	75.92	-82.997	1,116.86	5,362.58	3,472.57	3,371.69	100.87	34.425	
5,750.00	4,219.33	4,320.44	4,219.33	25.99	75.94	-83.098	1,116.86	5,362.58	3,423.16	3,321.80	101.36	33.772	
5,800.00	4,220.27	4,321.38	4,220.27	26.44	75.96	-83.199	1,116.86	5,362.58	3,373.77	3,271.92	101.85	33.125	
5,850.00	4,221.21	4,322.32	4,221.21	26.91	75.98	-83.300	1,116.86	5,362.58	3,324.39	3,222.05	102.35	32.482	
5,900.00	4,222.15	4,323.25	4,222.15	27.37	76.00	-83.402	1,116.86	5,362.58	3,275.04	3,172.19	102.84	31.846	
5,950.00	4,223.09	4,324.19	4,223.09	27.84	76.01	-83.503	1,116.86	5,362.58	3,225.70	3,122.36	103.34	31.213	
6,000.00	4,224.02	4,325.13	4,224.02	28.31	76.03	-83.604	1,116.86	5,362.58	3,176.38	3,072.54	103.85	30.588	
6,050.00	4,224.96	4,326.07	4,224.96	28.78	76.05	-83.705	1,116.86	5,362.58	3,127.09	3,022.74	104.35	29.966	
6,100.00	4,225.90	4,327.01	4,225.90	29.26	76.07	-83.806	1,116.86	5,362.58	3,077.82	2,972.96	104.86	29.351	
6,150.00	4,226.84	4,327.95	4,226.84	29.74	76.08	-83.908	1,116.86	5,362.58	3,028.57	2,923.19	105.38	28.740	
6,200.00	4,227.78	4,328.88	4,227.78	30.23	76.10	-84.009	1,116.86	5,362.58	2,979.35	2,873.46	105.89	28.136	
6,250.00	4,228.72	4,329.82	4,228.72	30.71	76.12	-84.111	1,116.86	5,362.58	2,930.15	2,823.74	106.41	27.536	
6,300.00	4,229.65	4,330.76	4,229.65	31.20	76.14	-84.212	1,116.86	5,362.58	2,880.98	2,774.05	106.93	26.943	
6,350.00	4,230.59	4,331.70	4,230.59	31.69	76.16	-84.313	1,116.86	5,362.58	2,831.84	2,724.38	107.45	26.354	
6,400.00	4,231.53	4,332.64	4,231.53	32.19	76.17	-84.415	1,116.86	5,362.58	2,782.73	2,674.75	107.98	25.771	
6,450.00	4,232.47	4,333.58	4,232.47	32.68	76.19	-84.516	1,116.86	5,362.58	2,733.65	2,625.14	108.51	25.193	
6,500.00	4,233.41	4,334.51	4,233.41	33.18	76.21	-84.618	1,116.86	5,362.58	2,684.60	2,575.57	109.03	24.622	
6,550.00	4,234.35	4,335.45	4,234.35	33.68	76.23	-84.720	1,116.86	5,362.58	2,635.59	2,526.03	109.57	24.055	
6,600.00	4,235.28	4,336.39	4,235.28	34.18	76.25	-84.821	1,116.86	5,362.58	2,586.62	2,476.52	110.10	23.494	
6,650.00	4,236.22	4,337.33	4,236.22	34.69	76.26	-84.923	1,116.86	5,362.58	2,537.69	2,427.06	110.63	22.938	
6,700.00	4,237.16	4,338.27	4,237.16	35.19	76.28	-85.025	1,116.86	5,362.58	2,488.80	2,377.63	111.17	22.388	
6,750.00	4,238.10	4,339.21	4,238.10	35.70	76.30	-85.126	1,116.86	5,362.58	2,439.95	2,328.25	111.71	21.842	
6,800.00	4,239.04	4,340.14	4,239.04	36.21	76.32	-85.228	1,116.86	5,362.58	2,391.16	2,278.91	112.24	21.303	
6,850.00	4,239.98	4,341.08	4,239.98	36.72	76.33	-85.330	1,116.86	5,362.58	2,342.41	2,229.62	112.79	20.769	
6,900.00	4,240.92	4,342.02	4,240.92	37.23	76.35	-85.432	1,116.86	5,362.58	2,293.71	2,180.39	113.33	20.240	
6,950.00	4,241.85	4,342.96	4,241.85	37.75	76.37	-85.534	1,116.86	5,362.58	2,245.07	2,131.20	113.87	19.716	
7,000.00	4,242.79	4,343.90	4,242.79	38.26	76.39	-85.636	1,116.86	5,362.58	2,196.50	2,082.08	114.41	19.198	
7,050.00	4,243.73	4,344.84	4,243.73	38.78	76.41	-85.737	1,116.86	5,362.58	2,147.99	2,033.03	114.96	18.685	
7,100.00	4,244.67	4,345.77	4,244.67	39.29	76.42	-85.839	1,116.86	5,362.58	2,099.54	1,984.04	115.50	18.177	
7,150.00	4,245.61	4,346.71	4,245.61	39.81	76.44	-85.941	1,116.86	5,362.58	2,051.18	1,935.12	116.05	17.675	
7,200.00	4,246.55	4,347.65	4,246.55	40.33	76.46	-86.043	1,116.86	5,362.58	2,002.89	1,886.29	116.60	17.177	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - OFFSET: AID STATE #9 - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.00 usft

Survey Program: 821-INC-ONLY — **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
7,250.00	4,247.48	4,348.59	4,247.48	40.85	76.48	-86.145	1,116.86	5,362.58	1,954.68	1,837.54	117.15	16.685	
7,300.00	4,248.42	4,349.53	4,248.42	41.38	76.50	-86.247	1,116.86	5,362.58	1,906.57	1,788.88	117.70	16.199	
7,350.00	4,249.36	4,350.47	4,249.36	41.90	76.51	-86.349	1,116.86	5,362.58	1,858.56	1,740.31	118.25	15.717	
7,400.00	4,250.30	4,351.41	4,250.30	42.42	76.53	-86.452	1,116.86	5,362.58	1,810.66	1,691.86	118.80	15.241	
7,450.00	4,251.24	4,352.34	4,251.24	42.95	76.55	-86.554	1,116.86	5,362.58	1,762.87	1,643.52	119.35	14.770	
7,500.00	4,252.18	4,353.28	4,252.18	43.48	76.57	-86.656	1,116.86	5,362.58	1,715.21	1,595.30	119.91	14.305	
7,550.00	4,253.11	4,354.22	4,253.11	44.00	76.58	-86.758	1,116.86	5,362.58	1,667.68	1,547.22	120.46	13.844	
7,600.00	4,254.05	4,355.16	4,254.05	44.53	76.60	-86.860	1,116.86	5,362.58	1,620.30	1,499.29	121.01	13.390	
7,650.00	4,254.99	4,356.10	4,254.99	45.06	76.62	-86.962	1,116.86	5,362.58	1,573.09	1,451.52	121.57	12.940	
7,700.00	4,255.93	4,357.04	4,255.93	45.59	76.64	-87.065	1,116.86	5,362.58	1,526.05	1,403.92	122.12	12.496	
7,750.00	4,256.87	4,357.97	4,256.87	46.12	76.66	-87.167	1,116.86	5,362.58	1,479.20	1,356.52	122.68	12.058	
7,800.00	4,257.81	4,358.91	4,257.81	46.65	76.67	-87.269	1,116.86	5,362.58	1,432.57	1,309.33	123.23	11.625	
7,850.00	4,258.74	4,359.85	4,258.74	47.18	76.69	-87.371	1,116.86	5,362.58	1,386.17	1,262.38	123.79	11.198	
7,900.00	4,259.68	4,360.79	4,259.68	47.72	76.71	-87.474	1,116.86	5,362.58	1,340.03	1,215.68	124.35	10.776	
7,950.00	4,260.62	4,361.73	4,260.62	48.25	76.73	-87.576	1,116.86	5,362.58	1,294.17	1,169.27	124.90	10.361	
8,000.00	4,261.56	4,362.67	4,261.56	48.78	76.75	-87.678	1,116.86	5,362.58	1,248.64	1,123.17	125.46	9.952	
8,050.00	4,262.50	4,363.60	4,262.50	49.32	76.76	-87.780	1,116.86	5,362.58	1,203.45	1,077.43	126.02	9.550	
8,100.00	4,263.44	4,364.54	4,263.44	49.85	76.78	-87.883	1,116.86	5,362.58	1,158.66	1,032.08	126.58	9.154	
8,150.00	4,264.37	4,365.48	4,264.37	50.39	76.80	-87.985	1,116.86	5,362.58	1,114.32	987.18	127.14	8.765	
8,200.00	4,265.31	4,366.42	4,265.31	50.92	76.82	-88.088	1,116.86	5,362.58	1,070.47	942.77	127.70	8.383	
8,250.00	4,266.25	4,367.36	4,266.25	51.46	76.83	-88.190	1,116.86	5,362.58	1,027.18	898.93	128.25	8.009	
8,300.00	4,267.19	4,368.30	4,267.19	52.00	76.85	-88.292	1,116.86	5,362.58	984.53	855.72	128.81	7.643	
8,350.00	4,268.13	4,369.23	4,268.13	52.54	76.87	-88.395	1,116.86	5,362.58	942.60	813.23	129.37	7.286	
8,400.00	4,269.07	4,370.17	4,269.07	53.08	76.89	-88.497	1,116.86	5,362.58	901.49	771.56	129.93	6.938	
8,450.00	4,270.01	4,371.11	4,270.01	53.62	76.91	-88.600	1,116.86	5,362.58	861.32	730.83	130.49	6.601	
8,500.00	4,270.94	4,372.05	4,270.94	54.16	76.92	-88.702	1,116.86	5,362.58	822.23	691.18	131.05	6.274	
8,550.00	4,271.88	4,372.99	4,271.88	54.70	76.94	-88.804	1,116.86	5,362.58	784.38	652.77	131.61	5.960	
8,600.00	4,272.82	4,373.93	4,272.82	55.24	76.96	-88.907	1,116.86	5,362.58	747.96	615.79	132.17	5.659	
8,650.00	4,273.76	4,374.87	4,273.76	55.78	76.98	-89.009	1,116.86	5,362.58	713.18	580.45	132.73	5.373	
8,700.00	4,274.70	4,375.80	4,274.70	56.32	77.00	-89.112	1,116.86	5,362.58	680.30	547.01	133.29	5.104	
8,750.00	4,275.64	4,376.74	4,275.64	56.86	77.01	-89.214	1,116.86	5,362.58	649.61	515.76	133.85	4.853	
8,800.00	4,276.57	4,377.68	4,276.57	57.40	77.03	-89.317	1,116.86	5,362.58	621.43	487.01	134.41	4.623	
8,850.00	4,277.51	4,378.62	4,277.51	57.95	77.05	-89.419	1,116.86	5,362.58	596.11	461.14	134.97	4.417	
8,900.00	4,278.45	4,379.56	4,278.45	58.49	77.07	-89.522	1,116.86	5,362.58	574.04	438.51	135.53	4.235	
8,950.00	4,279.39	4,380.50	4,279.39	59.03	77.08	-89.624	1,116.86	5,362.58	555.61	419.51	136.09	4.083	
9,000.00	4,280.33	4,381.43	4,280.33	59.58	77.10	-89.727	1,116.86	5,362.58	541.18	404.52	136.65	3.960	
9,050.00	4,281.27	4,382.37	4,281.27	60.12	77.12	-89.829	1,116.86	5,362.58	531.08	393.86	137.21	3.870	
9,100.00	4,282.20	4,383.31	4,282.20	60.66	77.14	-89.932	1,116.86	5,362.58	525.56	387.78	137.77	3.815	
9,133.33	4,282.83	4,383.94	4,282.83	61.03	77.15	-90.000	1,116.86	5,362.58	524.50	386.35	138.15	3.797	CC, ES
9,150.00	4,283.14	4,384.25	4,283.14	61.21	77.16	-90.034	1,116.86	5,362.58	524.76	386.43	138.33	3.793	SF
9,200.00	4,284.08	4,385.19	4,284.08	61.75	77.17	-90.137	1,116.86	5,362.58	528.72	389.83	138.89	3.807	
9,250.00	4,285.02	4,386.13	4,285.02	62.30	77.19	-90.239	1,116.86	5,362.58	537.31	397.86	139.45	3.853	
9,300.00	4,285.96	4,387.06	4,285.96	62.84	77.21	-90.342	1,116.86	5,362.58	550.34	410.32	140.01	3.931	
9,350.00	4,286.90	4,388.00	4,286.90	63.39	77.23	-90.444	1,116.86	5,362.58	567.48	426.90	140.57	4.037	
9,400.00	4,287.83	4,388.94	4,287.83	63.94	77.24	-90.547	1,116.86	5,362.58	588.38	447.25	141.13	4.169	
9,450.00	4,288.77	4,389.88	4,288.77	64.48	77.26	-90.649	1,116.86	5,362.58	612.65	470.96	141.69	4.324	
9,500.00	4,289.71	4,390.82	4,289.71	65.03	77.28	-90.752	1,116.86	5,362.58	639.92	497.67	142.25	4.499	
9,550.00	4,290.65	4,391.76	4,290.65	65.58	77.30	-90.854	1,116.86	5,362.58	669.81	527.01	142.81	4.690	
9,600.00	4,291.59	4,392.69	4,291.59	66.13	77.32	-90.956	1,116.86	5,362.58	702.00	558.63	143.37	4.897	
9,650.00	4,292.53	4,393.63	4,292.53	66.67	77.33	-91.059	1,116.86	5,362.58	736.17	592.25	143.92	5.115	
9,700.00	4,293.46	4,394.57	4,293.46	67.22	77.35	-91.161	1,116.86	5,362.58	772.07	627.59	144.48	5.344	
9,750.00	4,294.40	4,395.51	4,294.40	67.77	77.37	-91.264	1,116.86	5,362.58	809.47	664.43	145.04	5.581	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - OFFSET: AID STATE #9 - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.00 usft

Survey Program: 821-INC-ONLY — **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
9,800.00	4,295.34	4,396.45	4,295.34	68.32	77.39	-91.366	1,116.86	5,362.58	848.17	702.57	145.60	5.825	
9,850.00	4,296.28	4,397.39	4,296.28	68.87	77.41	-91.469	1,116.86	5,362.58	887.99	741.84	146.16	6.076	
9,900.00	4,297.22	4,398.32	4,297.22	69.42	77.42	-91.571	1,116.86	5,362.58	928.80	782.09	146.71	6.331	
9,950.00	4,298.16	4,399.26	4,298.16	69.96	77.44	-91.674	1,116.86	5,362.58	970.47	823.20	147.27	6.590	
10,000.00	4,299.10	4,400.20	4,299.10	70.51	77.46	-91.776	1,116.86	5,362.58	1,012.89	865.06	147.83	6.852	
10,050.00	4,300.03	4,401.14	4,300.03	71.06	77.48	-91.878	1,116.86	5,362.58	1,055.98	907.59	148.38	7.117	
10,100.00	4,300.97	4,402.08	4,300.97	71.61	77.49	-91.981	1,116.86	5,362.58	1,099.64	950.71	148.94	7.383	
10,150.00	4,301.91	4,403.02	4,301.91	72.16	77.51	-92.083	1,116.86	5,362.58	1,143.83	994.34	149.49	7.651	
10,200.00	4,302.85	4,403.96	4,302.85	72.71	77.53	-92.185	1,116.86	5,362.58	1,188.48	1,038.43	150.05	7.921	
10,250.00	4,303.79	4,404.89	4,303.79	73.26	77.55	-92.288	1,116.86	5,362.58	1,233.53	1,082.93	150.61	8.191	
10,300.00	4,304.73	4,405.83	4,304.73	73.81	77.57	-92.390	1,116.86	5,362.58	1,278.96	1,127.80	151.16	8.461	
10,350.00	4,305.66	4,406.77	4,305.66	74.36	77.58	-92.492	1,116.86	5,362.58	1,324.71	1,173.00	151.71	8.732	
10,400.00	4,306.60	4,407.71	4,306.60	74.92	77.60	-92.595	1,116.86	5,362.58	1,370.76	1,218.49	152.27	9.002	
10,450.00	4,307.54	4,408.65	4,307.54	75.47	77.62	-92.697	1,116.86	5,362.58	1,417.08	1,264.25	152.82	9.273	
10,500.00	4,308.48	4,409.59	4,308.48	76.02	77.64	-92.799	1,116.86	5,362.58	1,463.63	1,310.26	153.38	9.543	
10,550.00	4,309.42	4,410.52	4,309.42	76.57	77.66	-92.901	1,116.86	5,362.58	1,510.41	1,356.48	153.93	9.812	
10,600.00	4,310.36	4,411.46	4,310.36	77.12	77.67	-93.004	1,116.86	5,362.58	1,557.39	1,402.91	154.48	10.081	
10,650.00	4,311.29	4,412.40	4,311.29	77.67	77.69	-93.106	1,116.86	5,362.58	1,604.55	1,449.51	155.03	10.350	
10,700.00	4,312.23	4,413.34	4,312.23	78.22	77.71	-93.208	1,116.86	5,362.58	1,651.87	1,496.29	155.58	10.617	
10,750.00	4,313.17	4,414.28	4,313.17	78.78	77.73	-93.310	1,116.86	5,362.58	1,699.35	1,543.22	156.14	10.884	
10,800.00	4,314.11	4,415.22	4,314.11	79.33	77.74	-93.412	1,116.86	5,362.58	1,746.97	1,590.28	156.69	11.149	
10,850.00	4,315.05	4,416.15	4,315.05	79.88	77.76	-93.514	1,116.86	5,362.58	1,794.72	1,637.48	157.24	11.414	
10,900.00	4,315.99	4,417.09	4,315.99	80.43	77.78	-93.617	1,116.86	5,362.58	1,842.58	1,684.80	157.79	11.678	
10,950.00	4,316.92	4,418.03	4,316.92	80.99	77.80	-93.719	1,116.86	5,362.58	1,890.56	1,732.22	158.34	11.940	
11,000.00	4,317.86	4,418.97	4,317.86	81.54	77.82	-93.821	1,116.86	5,362.58	1,938.64	1,779.75	158.89	12.201	
11,050.00	4,318.80	4,419.91	4,318.80	82.09	77.83	-93.923	1,116.86	5,362.58	1,986.81	1,827.38	159.43	12.462	
11,100.00	4,319.74	4,420.85	4,319.74	82.65	77.85	-94.025	1,116.86	5,362.58	2,035.07	1,875.09	159.98	12.721	
11,150.00	4,320.68	4,421.78	4,320.68	83.20	77.87	-94.127	1,116.86	5,362.58	2,083.41	1,922.88	160.53	12.978	
11,200.00	4,321.62	4,422.72	4,321.62	83.75	77.89	-94.229	1,116.86	5,362.58	2,131.83	1,970.75	161.08	13.235	
11,250.00	4,322.56	4,423.66	4,322.56	84.31	77.91	-94.330	1,116.86	5,362.58	2,180.32	2,018.70	161.63	13.490	
11,300.00	4,323.49	4,424.60	4,323.49	84.86	77.92	-94.432	1,116.86	5,362.58	2,228.88	2,066.71	162.17	13.744	
11,330.25	4,324.06	4,425.17	4,324.06	85.19	77.93	-94.494	1,116.86	5,362.58	2,258.28	2,095.78	162.50	13.897	
11,350.00	4,324.43	4,425.54	4,324.43	85.41	77.94	-94.534	1,116.86	5,362.58	2,277.50	2,114.78	162.72	13.997	
11,380.28	4,325.00	4,426.11	4,325.00	85.75	77.95	-94.596	1,116.86	5,362.58	2,306.97	2,143.92	163.05	14.149	

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - OFFSET: PUMA #1 - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.00 usft

Survey Program: 209-INC-ONLY — **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
650.00	649.13	638.14	649.13	2.13	10.95	29.280	587.20	384.72	683.27	670.20	13.07	52.292	
700.00	698.70	687.71	698.70	2.31	12.00	29.606	587.20	384.72	677.58	663.29	14.28	47.440	
719.90	718.40	707.41	718.40	2.39	12.42	29.750	587.20	384.72	675.10	660.34	14.76	45.726	
750.00	748.18	737.18	748.18	2.49	13.05	29.935	587.20	384.72	671.28	655.79	15.50	43.322	
800.00	797.64	786.65	797.64	2.67	14.10	30.248	587.20	384.72	664.95	648.24	16.71	39.793	
850.00	847.10	836.11	847.10	2.85	15.15	30.568	587.20	384.72	658.63	640.70	17.93	36.734	
900.00	896.57	885.58	896.57	3.02	16.20	30.893	587.20	384.72	652.34	633.19	19.14	34.074	
950.00	946.03	935.06	946.03	3.20	17.26	31.224	587.20	384.72	646.06	625.70	20.36	31.726	
1,000.00	995.49	984.52	995.49	3.38	18.31	31.562	587.20	384.72	639.81	618.22	21.59	29.641	
1,050.00	1,044.96	1,033.99	1,044.96	3.56	19.36	31.907	587.20	384.72	633.58	610.77	22.81	27.780	
1,100.00	1,094.42	1,083.45	1,094.42	3.74	20.41	32.258	587.20	384.72	627.38	603.35	24.03	26.108	
1,150.00	1,143.89	1,132.92	1,143.89	3.93	21.47	32.617	587.20	384.72	621.19	595.94	25.25	24.599	
1,200.00	1,193.35	1,182.38	1,193.35	4.11	22.52	32.982	587.20	384.72	615.04	588.56	26.48	23.230	
1,250.00	1,242.81	1,231.84	1,242.81	4.29	23.57	33.355	587.20	384.72	608.90	581.20	27.70	21.982	
1,300.00	1,292.28	1,281.31	1,292.28	4.47	24.62	33.736	587.20	384.72	602.80	573.87	28.93	20.840	
1,350.00	1,341.74	1,330.77	1,341.74	4.66	25.67	34.124	587.20	384.72	596.72	566.57	30.15	19.791	
1,400.00	1,391.21	1,376.00	1,386.95	4.84	26.64	34.485	587.20	384.72	590.68	559.39	31.29	18.880	
1,450.00	1,440.67	1,429.72	1,440.67	5.02	27.78	34.924	587.20	384.72	584.64	552.04	32.60	17.932	
1,500.00	1,490.13	1,479.19	1,490.13	5.20	28.83	35.336	587.20	384.72	578.65	544.82	33.83	17.105	
1,550.00	1,539.60	1,528.65	1,539.60	5.39	29.88	35.757	587.20	384.72	572.69	537.63	35.06	16.336	
1,600.00	1,589.06	1,578.11	1,589.06	5.57	30.94	36.187	587.20	384.72	566.75	530.47	36.28	15.620	
1,650.00	1,638.52	1,627.58	1,638.52	5.75	31.99	36.626	587.20	384.72	560.86	523.34	37.51	14.951	
1,700.00	1,687.99	1,677.04	1,687.99	5.94	33.04	37.074	587.20	384.72	554.99	516.25	38.74	14.326	
1,750.00	1,737.45	1,726.51	1,737.45	6.12	34.10	37.531	587.20	384.72	549.16	509.19	39.97	13.739	
1,800.00	1,786.92	1,775.97	1,786.92	6.30	35.15	37.999	587.20	384.72	543.36	502.16	41.20	13.189	
1,850.00	1,836.38	1,825.43	1,836.38	6.49	36.20	38.476	587.20	384.72	537.60	495.17	42.43	12.671	
1,900.00	1,885.84	1,874.92	1,885.84	6.67	37.29	38.963	587.20	384.72	531.88	488.18	43.70	12.171	
1,950.00	1,935.31	1,924.39	1,935.31	6.85	38.43	39.461	587.20	384.72	526.20	481.18	45.02	11.689	
2,000.00	1,984.77	1,973.85	1,984.77	7.04	39.57	39.970	587.20	384.72	520.56	474.22	46.33	11.235	
2,050.00	2,034.24	2,023.31	2,034.24	7.22	40.71	40.489	587.20	384.72	514.96	467.31	47.65	10.808	
2,100.00	2,083.70	2,072.78	2,083.70	7.40	41.85	41.020	587.20	384.72	509.40	460.43	48.96	10.403	
2,150.00	2,133.16	2,122.24	2,133.16	7.59	42.99	41.563	587.20	384.72	503.89	453.60	50.28	10.021	
2,200.00	2,182.63	2,171.72	2,182.63	7.77	44.10	42.117	587.20	384.72	498.42	446.84	51.58	9.663	
2,250.00	2,232.09	2,221.18	2,232.09	7.95	45.15	42.683	587.20	384.72	493.00	440.19	52.81	9.335	
2,300.00	2,281.56	2,270.65	2,281.56	8.14	46.21	43.262	587.20	384.72	487.63	433.59	54.05	9.023	
2,350.00	2,331.02	2,320.11	2,331.02	8.32	47.26	43.853	587.20	384.72	482.31	427.03	55.28	8.725	
2,400.00	2,380.48	2,369.58	2,380.48	8.50	48.31	44.458	587.20	384.72	477.04	420.53	56.51	8.441	
2,450.00	2,429.95	2,419.07	2,429.95	8.69	49.32	45.076	587.20	384.72	471.83	414.13	57.71	8.176	
2,500.00	2,479.41	2,468.53	2,479.41	8.87	50.25	45.707	587.20	384.72	466.68	407.86	58.82	7.934	
2,550.00	2,528.87	2,517.99	2,528.87	9.05	51.18	46.352	587.20	384.72	461.58	401.65	59.93	7.702	
2,600.00	2,578.34	2,567.46	2,578.34	9.24	52.11	47.012	587.20	384.72	456.54	395.50	61.04	7.479	
2,650.00	2,627.80	2,616.92	2,627.80	9.42	53.03	47.685	587.20	384.72	451.56	389.41	62.15	7.265	
2,700.00	2,677.27	2,666.39	2,677.27	9.60	53.96	48.374	587.20	384.72	446.65	383.38	63.27	7.060	
2,750.00	2,726.73	2,715.85	2,726.73	9.79	54.89	49.078	587.20	384.72	441.80	377.42	64.38	6.862	
2,800.00	2,776.19	2,765.31	2,776.19	9.97	55.81	49.796	587.20	384.72	437.03	371.53	65.49	6.673	
2,850.00	2,825.66	2,814.78	2,825.66	10.15	56.74	50.531	587.20	384.72	432.32	365.71	66.61	6.490	
2,900.00	2,875.12	2,864.24	2,875.12	10.34	57.67	51.281	587.20	384.72	427.68	359.96	67.72	6.315	
2,950.00	2,924.59	2,913.71	2,924.59	10.52	58.60	52.048	587.20	384.72	423.12	354.28	68.84	6.147	
3,000.00	2,974.05	2,963.17	2,974.05	10.70	59.52	52.830	587.20	384.72	418.64	348.69	69.96	5.984	
3,050.00	3,023.51	3,012.63	3,023.51	10.89	60.45	53.630	587.20	384.72	414.24	343.17	71.07	5.828	
3,100.00	3,072.98	3,062.10	3,072.98	11.07	61.38	54.446	587.20	384.72	409.92	337.73	72.19	5.678	
3,150.00	3,122.44	3,111.56	3,122.44	11.25	62.31	55.279	587.20	384.72	405.69	332.38	73.31	5.534	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - OFFSET: PUMA #1 - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.00 usft

Survey Program: 209-INC-ONLY — **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
3,200.00	3,171.90	3,161.02	3,171.90	11.44	63.23	56.129	587.20	384.72	401.54	327.12	74.42	5.395	
3,239.93	3,211.41	3,200.53	3,211.41	11.58	63.98	56.820	587.20	384.72	398.30	322.98	75.32	5.288	
3,250.00	3,221.37	3,210.49	3,221.37	11.62	64.16	52.888	587.20	384.72	397.44	321.95	75.49	5.265	
3,300.00	3,270.79	3,259.92	3,270.79	11.81	65.09	34.686	587.20	384.72	391.91	315.65	76.27	5.139	
3,350.00	3,320.03	3,309.16	3,320.03	11.99	66.02	20.465	587.20	384.72	384.22	307.34	76.88	4.998	
3,400.00	3,368.97	3,358.11	3,368.97	12.17	66.94	10.218	587.20	384.72	374.34	297.04	77.30	4.843	
3,450.00	3,417.47	3,406.60	3,417.47	12.35	67.86	2.781	587.20	384.72	362.27	284.74	77.53	4.672	
3,500.00	3,465.40	3,454.53	3,465.40	12.53	68.76	-2.901	587.20	384.72	348.04	270.45	77.59	4.486	
3,550.00	3,512.62	3,501.75	3,512.62	12.70	69.65	-7.559	587.20	384.72	331.69	254.22	77.47	4.282	
3,600.00	3,559.01	3,548.14	3,559.01	12.87	70.52	-11.693	587.20	384.72	313.27	236.07	77.20	4.058	
3,650.00	3,604.43	3,593.56	3,604.43	13.04	71.38	-15.668	587.20	384.72	292.88	216.03	76.85	3.811	
3,700.00	3,648.77	3,637.90	3,648.77	13.20	72.22	-19.790	587.20	384.72	270.66	194.16	76.50	3.538	
3,750.00	3,691.90	3,681.03	3,691.90	13.37	73.03	-24.361	587.20	384.72	246.80	170.49	76.31	3.234	
3,800.00	3,733.71	3,722.85	3,733.71	13.54	73.86	-29.718	587.20	384.72	221.58	145.03	76.55	2.895	
3,850.00	3,774.07	3,763.22	3,774.07	13.71	74.68	-36.265	587.20	384.72	195.44	117.86	77.58	2.519	
3,900.00	3,812.89	3,802.03	3,812.89	13.88	75.47	-44.473	587.20	384.72	169.13	89.34	79.79	2.120	
3,950.00	3,850.04	3,839.19	3,850.04	14.06	76.23	-54.777	587.20	384.72	143.92	60.51	83.41	1.725	
4,000.00	3,885.44	3,874.59	3,885.44	14.25	76.96	-67.264	587.20	384.72	122.20	34.30	87.90	1.390	Level 3
4,050.00	3,918.98	3,908.13	3,918.98	14.45	77.64	-81.213	587.20	384.72	107.97	16.43	91.54	1.180	Level 2
4,081.30	3,939.00	3,928.14	3,939.00	14.57	78.05	-90.000	587.20	384.72	105.16	12.63	92.52	1.137	Level 2, CC, ES, SF
4,100.00	3,950.58	3,939.72	3,950.58	14.65	78.29	-95.044	587.20	384.72	106.21	13.69	92.52	1.148	Level 2
4,150.00	3,980.13	3,969.28	3,980.13	14.87	78.89	-107.167	587.20	384.72	119.08	28.51	90.57	1.315	Level 3
4,200.00	4,007.58	3,996.72	4,007.58	15.09	79.46	-116.833	587.20	384.72	143.93	57.12	86.81	1.658	
4,230.69	4,023.34	4,012.48	4,023.34	15.23	79.78	-121.550	587.20	384.72	163.32	79.17	84.15	1.941	
4,250.00	4,032.99	4,022.14	4,032.99	15.33	79.98	-124.802	587.20	384.72	176.61	94.31	82.30	2.146	
4,300.00	4,057.99	4,047.14	4,057.99	15.57	80.49	-132.145	587.20	384.72	213.26	135.59	77.67	2.746	
4,350.00	4,082.99	4,072.14	4,082.99	15.84	81.00	-138.111	587.20	384.72	252.04	178.44	73.60	3.424	
4,400.00	4,107.99	4,097.14	4,107.99	16.10	81.51	-142.955	587.20	384.72	292.08	221.87	70.22	4.160	
4,430.69	4,123.34	4,112.48	4,123.34	16.27	81.82	-145.476	587.20	384.72	317.09	248.61	68.48	4.631	
4,450.00	4,132.71	4,121.86	4,132.71	16.38	82.01	-145.317	587.20	384.72	333.10	265.65	67.45	4.939	
4,500.00	4,154.28	4,143.43	4,154.28	16.66	82.46	-143.967	587.20	384.72	376.23	310.33	65.90	5.709	
4,550.00	4,171.84	4,160.99	4,171.84	16.96	82.82	-140.863	587.20	384.72	421.43	354.50	66.93	6.297	
4,600.00	4,185.26	4,174.00	4,184.85	17.26	83.08	-134.932	587.20	384.72	468.27	396.10	72.17	6.489	
4,650.00	4,194.43	4,183.58	4,194.43	17.55	83.28	-124.549	587.20	384.72	516.31	433.64	82.66	6.246	
4,700.00	4,199.28	4,188.43	4,199.28	17.85	83.38	-106.090	587.20	384.72	565.14	468.41	96.73	5.842	
4,719.94	4,200.00	4,189.15	4,200.00	17.97	83.39	-95.980	587.20	384.72	584.74	484.20	100.54	5.816	
4,750.00	4,200.56	4,189.71	4,200.56	18.15	83.40	-96.289	587.20	384.72	614.35	513.69	100.66	6.103	
4,800.00	4,201.50	4,190.65	4,201.50	18.46	83.42	-96.804	587.20	384.72	663.69	562.82	100.86	6.580	
4,850.00	4,202.44	4,191.59	4,202.44	18.78	83.44	-97.317	587.20	384.72	713.11	612.03	101.08	7.055	
4,900.00	4,203.38	4,192.53	4,203.38	19.11	83.46	-97.829	587.20	384.72	762.61	661.32	101.29	7.529	
4,950.00	4,204.32	4,193.47	4,204.32	19.46	83.48	-98.340	587.20	384.72	812.17	710.66	101.51	8.001	
5,000.00	4,205.26	4,194.41	4,205.26	19.80	83.50	-98.850	587.20	384.72	861.78	760.06	101.72	8.472	
5,050.00	4,206.19	4,195.35	4,206.19	20.17	83.52	-99.358	587.20	384.72	911.43	809.49	101.95	8.940	
5,100.00	4,207.13	4,196.28	4,207.13	20.54	83.54	-99.865	587.20	384.72	961.12	858.96	102.16	9.408	
5,150.00	4,208.07	4,197.22	4,208.07	20.92	83.56	-100.370	587.20	384.72	1,010.84	908.45	102.39	9.873	
5,200.00	4,209.01	4,198.16	4,209.01	21.30	83.58	-100.873	587.20	384.72	1,060.58	957.98	102.60	10.337	
5,250.00	4,209.95	4,199.10	4,209.95	21.70	83.59	-101.375	587.20	384.72	1,110.35	1,007.52	102.83	10.798	
5,300.00	4,210.89	4,200.04	4,210.89	22.10	83.61	-101.875	587.20	384.72	1,160.13	1,057.09	103.04	11.259	
5,350.00	4,211.83	4,200.98	4,211.83	22.51	83.63	-102.374	587.20	384.72	1,209.93	1,106.67	103.27	11.717	
5,400.00	4,212.76	4,201.91	4,212.76	22.92	83.65	-102.870	587.20	384.72	1,259.75	1,156.27	103.48	12.174	
5,450.00	4,213.70	4,202.85	4,213.70	23.35	83.67	-103.364	587.20	384.72	1,309.58	1,205.88	103.70	12.629	
5,500.00	4,214.64	4,203.79	4,214.64	23.77	83.69	-103.857	587.20	384.72	1,359.42	1,255.51	103.91	13.083	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - OFFSET: PUMA #1 - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.00 usft

Survey Program: 209-INC-ONLY — **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
5,550.00	4,215.58	4,204.73	4,215.58	24.21	83.71	-104.347	587.20	384.72	1,409.27	1,305.15	104.12	13.535	
5,600.00	4,216.52	4,205.67	4,216.52	24.64	83.73	-104.835	587.20	384.72	1,459.13	1,354.81	104.32	13.987	
5,650.00	4,217.46	4,206.61	4,217.46	25.09	83.75	-105.321	587.20	384.72	1,509.00	1,404.47	104.53	14.436	
5,700.00	4,218.39	4,207.54	4,218.39	25.53	83.77	-105.805	587.20	384.72	1,558.88	1,454.15	104.73	14.885	
5,750.00	4,219.33	4,208.48	4,219.33	25.99	83.79	-106.286	587.20	384.72	1,608.77	1,503.84	104.93	15.332	
5,800.00	4,220.27	4,209.42	4,220.27	26.44	83.81	-106.765	587.20	384.72	1,658.66	1,553.54	105.12	15.778	
5,850.00	4,221.21	4,210.36	4,221.21	26.91	83.82	-107.242	587.20	384.72	1,708.56	1,603.24	105.31	16.223	
5,900.00	4,222.15	4,211.30	4,222.15	27.37	83.84	-107.716	587.20	384.72	1,758.46	1,652.96	105.50	16.668	
5,950.00	4,223.09	4,212.24	4,223.09	27.84	83.86	-108.188	587.20	384.72	1,808.37	1,702.68	105.69	17.111	
6,000.00	4,224.02	4,213.17	4,224.02	28.31	83.88	-108.657	587.20	384.72	1,858.28	1,752.41	105.86	17.554	
6,050.00	4,224.96	4,214.11	4,224.96	28.78	83.90	-109.124	587.20	384.72	1,908.19	1,802.15	106.04	17.995	
6,100.00	4,225.90	4,215.05	4,225.90	29.26	83.92	-109.588	587.20	384.72	1,958.11	1,851.90	106.21	18.436	
6,150.00	4,226.84	4,215.99	4,226.84	29.74	83.94	-110.049	587.20	384.72	2,008.04	1,901.66	106.38	18.876	
6,200.00	4,227.78	4,216.93	4,227.78	30.23	83.96	-110.508	587.20	384.72	2,057.96	1,951.42	106.54	19.317	
6,250.00	4,228.72	4,217.87	4,228.72	30.71	83.98	-110.964	587.20	384.72	2,107.89	2,001.20	106.70	19.756	
6,300.00	4,229.65	4,218.80	4,229.65	31.20	84.00	-111.417	587.20	384.72	2,157.83	2,050.98	106.85	20.195	
6,350.00	4,230.59	4,219.74	4,230.59	31.69	84.02	-111.867	587.20	384.72	2,207.76	2,100.76	107.00	20.633	
6,400.00	4,231.53	4,220.68	4,231.53	32.19	84.04	-112.315	587.20	384.72	2,257.70	2,150.55	107.15	21.071	
6,450.00	4,232.47	4,221.62	4,232.47	32.68	84.05	-112.759	587.20	384.72	2,307.64	2,200.35	107.29	21.509	
6,500.00	4,233.41	4,222.56	4,233.41	33.18	84.07	-113.201	587.20	384.72	2,357.58	2,250.16	107.42	21.947	
6,550.00	4,234.35	4,223.50	4,234.35	33.68	84.09	-113.640	587.20	384.72	2,407.53	2,299.97	107.56	22.384	
6,600.00	4,235.28	4,224.44	4,235.28	34.18	84.11	-114.076	587.20	384.72	2,457.47	2,349.79	107.68	22.821	
6,650.00	4,236.22	4,225.37	4,236.22	34.69	84.13	-114.509	587.20	384.72	2,507.42	2,399.61	107.81	23.258	
6,700.00	4,237.16	4,226.31	4,237.16	35.19	84.15	-114.939	587.20	384.72	2,557.37	2,449.44	107.93	23.695	
6,750.00	4,238.10	4,227.25	4,238.10	35.70	84.17	-115.366	587.20	384.72	2,607.32	2,499.28	108.04	24.132	
6,800.00	4,239.04	4,228.19	4,239.04	36.21	84.19	-115.790	587.20	384.72	2,657.27	2,549.12	108.15	24.570	
6,850.00	4,239.98	4,229.13	4,239.98	36.72	84.21	-116.211	587.20	384.72	2,707.23	2,598.97	108.26	25.007	
6,900.00	4,240.92	4,230.07	4,240.92	37.23	84.23	-116.629	587.20	384.72	2,757.18	2,648.82	108.36	25.444	
6,950.00	4,241.85	4,231.00	4,241.85	37.75	84.25	-117.044	587.20	384.72	2,807.14	2,698.68	108.46	25.882	
7,000.00	4,242.79	4,231.94	4,242.79	38.26	84.27	-117.456	587.20	384.72	2,857.10	2,748.54	108.55	26.319	
7,050.00	4,243.73	4,232.88	4,243.73	38.78	84.29	-117.865	587.20	384.72	2,907.06	2,798.41	108.65	26.757	
7,100.00	4,244.67	4,233.82	4,244.67	39.29	84.30	-118.271	587.20	384.72	2,957.02	2,848.29	108.73	27.196	
7,150.00	4,245.61	4,234.76	4,245.61	39.81	84.32	-118.674	587.20	384.72	3,006.98	2,898.17	108.81	27.634	
7,200.00	4,246.55	4,235.70	4,246.55	40.33	84.34	-119.073	587.20	384.72	3,056.94	2,948.05	108.89	28.073	
7,250.00	4,247.48	4,236.63	4,247.48	40.85	84.36	-119.470	587.20	384.72	3,106.91	2,997.94	108.97	28.512	
7,300.00	4,248.42	4,237.57	4,248.42	41.38	84.38	-119.864	587.20	384.72	3,156.87	3,047.83	109.04	28.951	
7,350.00	4,249.36	4,238.51	4,249.36	41.90	84.40	-120.254	587.20	384.72	3,206.83	3,097.73	109.11	29.391	
7,400.00	4,250.30	4,239.45	4,250.30	42.42	84.42	-120.641	587.20	384.72	3,256.80	3,147.63	109.17	29.831	
7,450.00	4,251.24	4,240.39	4,251.24	42.95	84.44	-121.026	587.20	384.72	3,306.77	3,197.53	109.24	30.272	
7,500.00	4,252.18	4,241.33	4,252.18	43.48	84.46	-121.407	587.20	384.72	3,356.73	3,247.44	109.29	30.713	
7,550.00	4,253.11	4,242.26	4,253.11	44.00	84.48	-121.785	587.20	384.72	3,406.70	3,297.35	109.35	31.155	
7,600.00	4,254.05	4,243.20	4,254.05	44.53	84.50	-122.160	587.20	384.72	3,456.67	3,347.27	109.40	31.597	
7,650.00	4,254.99	4,244.14	4,254.99	45.06	84.52	-122.532	587.20	384.72	3,506.64	3,397.19	109.45	32.039	
7,700.00	4,255.93	4,245.08	4,255.93	45.59	84.53	-122.901	587.20	384.72	3,556.61	3,447.12	109.49	32.482	
7,750.00	4,256.87	4,246.02	4,256.87	46.12	84.55	-123.267	587.20	384.72	3,606.58	3,497.04	109.54	32.926	
7,800.00	4,257.81	4,246.96	4,257.81	46.65	84.57	-123.630	587.20	384.72	3,656.55	3,546.98	109.58	33.370	
7,850.00	4,258.74	4,247.89	4,258.74	47.18	84.59	-123.990	587.20	384.72	3,706.52	3,596.91	109.61	33.815	
7,900.00	4,259.68	4,248.83	4,259.68	47.72	84.61	-124.347	587.20	384.72	3,756.49	3,646.85	109.65	34.260	
7,950.00	4,260.62	4,249.77	4,260.62	48.25	84.63	-124.700	587.20	384.72	3,806.47	3,696.79	109.68	34.705	
8,000.00	4,261.56	4,250.71	4,261.56	48.78	84.65	-125.051	587.20	384.72	3,856.44	3,746.73	109.71	35.152	
8,050.00	4,262.50	4,251.65	4,262.50	49.32	84.67	-125.399	587.20	384.72	3,906.41	3,796.68	109.74	35.598	
8,100.00	4,263.44	4,252.59	4,263.44	49.85	84.69	-125.744	587.20	384.72	3,956.39	3,846.63	109.76	36.046	

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

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Offset Design AID NORTH 14-13 STATE COM - OFFSET: PUMA #1 - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.00 usft

Survey Program: 209-INC-ONLY — **Offset Well Error:** 0.00 usft

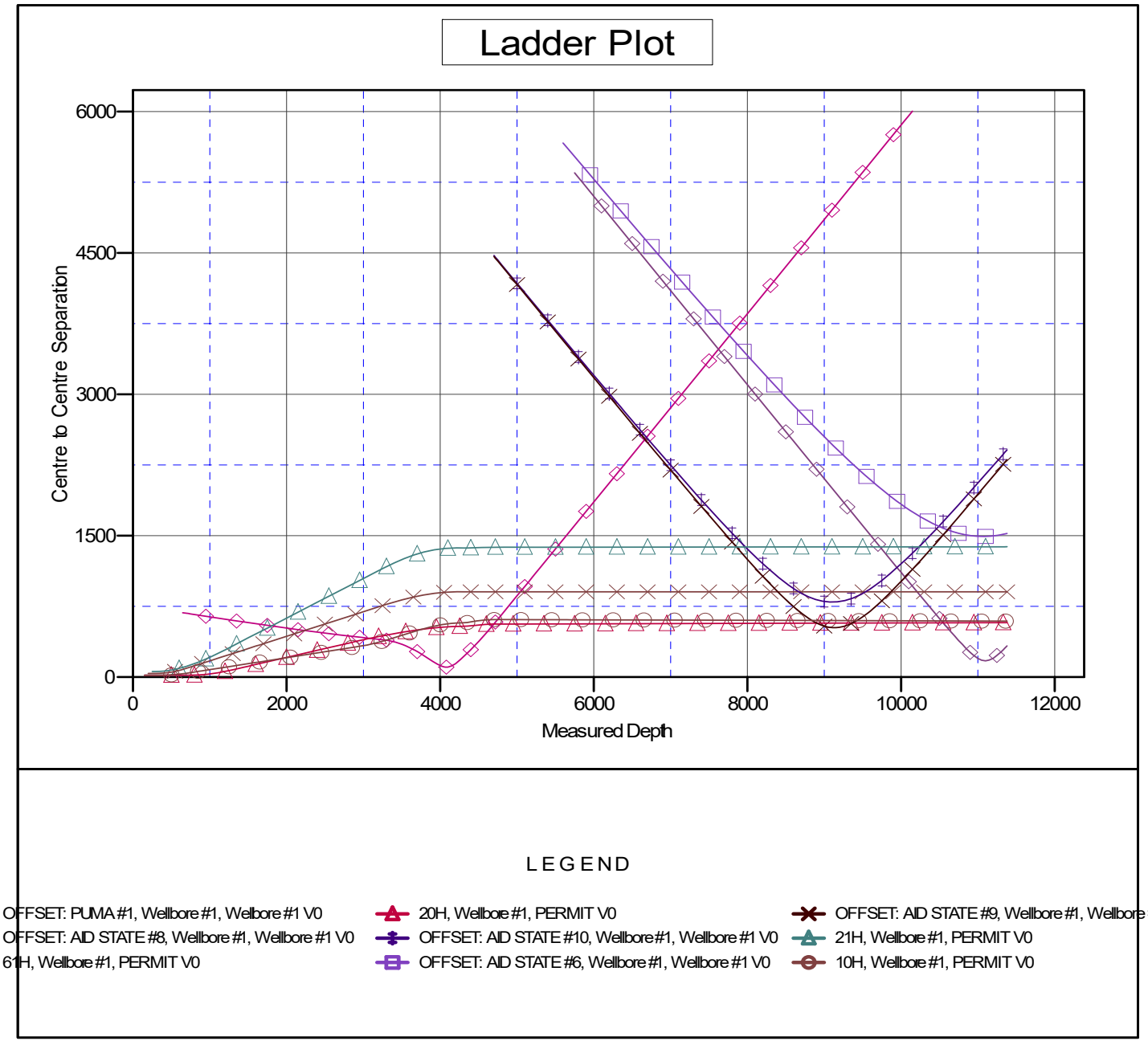
Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,150.00	4,264.37	4,253.53	4,264.37	50.39	84.71	-126.086	587.20	384.72	4,006.36	3,896.58	109.78	36.494	
8,200.00	4,265.31	4,254.46	4,265.31	50.92	84.73	-126.425	587.20	384.72	4,056.34	3,946.54	109.80	36.942	
8,250.00	4,266.25	4,255.40	4,266.25	51.46	84.75	-126.761	587.20	384.72	4,106.31	3,996.49	109.82	37.391	
8,300.00	4,267.19	4,256.34	4,267.19	52.00	84.76	-127.094	587.20	384.72	4,156.29	4,046.45	109.84	37.841	
8,350.00	4,268.13	4,257.28	4,268.13	52.54	84.78	-127.424	587.20	384.72	4,206.26	4,096.41	109.85	38.291	
8,400.00	4,269.07	4,258.22	4,269.07	53.08	84.80	-127.751	587.20	384.72	4,256.24	4,146.38	109.86	38.742	
8,450.00	4,270.01	4,259.16	4,270.01	53.62	84.82	-128.076	587.20	384.72	4,306.22	4,196.35	109.87	39.193	
8,500.00	4,270.94	4,260.09	4,270.94	54.16	84.84	-128.397	587.20	384.72	4,356.19	4,246.31	109.88	39.645	
8,550.00	4,271.88	4,261.03	4,271.88	54.70	84.86	-128.716	587.20	384.72	4,406.17	4,296.28	109.89	40.097	
8,600.00	4,272.82	4,261.97	4,272.82	55.24	84.88	-129.032	587.20	384.72	4,456.15	4,346.26	109.89	40.550	
8,650.00	4,273.76	4,262.91	4,273.76	55.78	84.90	-129.345	587.20	384.72	4,506.13	4,396.23	109.90	41.004	
8,700.00	4,274.70	4,263.85	4,274.70	56.32	84.92	-129.656	587.20	384.72	4,556.11	4,446.21	109.90	41.458	
8,750.00	4,275.64	4,264.79	4,275.64	56.86	84.94	-129.963	587.20	384.72	4,606.08	4,496.19	109.90	41.912	
8,800.00	4,276.57	4,265.72	4,276.57	57.40	84.96	-130.268	587.20	384.72	4,656.06	4,546.17	109.90	42.367	
8,850.00	4,277.51	4,266.66	4,277.51	57.95	84.98	-130.570	587.20	384.72	4,706.04	4,596.15	109.90	42.823	
8,900.00	4,278.45	4,267.60	4,278.45	58.49	85.00	-130.869	587.20	384.72	4,756.02	4,646.13	109.89	43.279	
8,950.00	4,279.39	4,268.54	4,279.39	59.03	85.01	-131.166	587.20	384.72	4,806.00	4,696.11	109.89	43.736	
9,000.00	4,280.33	4,269.48	4,280.33	59.58	85.03	-131.460	587.20	384.72	4,855.98	4,746.10	109.88	44.193	
9,050.00	4,281.27	4,270.42	4,281.27	60.12	85.05	-131.752	587.20	384.72	4,905.96	4,796.08	109.88	44.650	
9,100.00	4,282.20	4,271.35	4,282.20	60.66	85.07	-132.041	587.20	384.72	4,955.94	4,846.07	109.87	45.108	
9,150.00	4,283.14	4,272.29	4,283.14	61.21	85.09	-132.327	587.20	384.72	5,005.92	4,896.06	109.86	45.567	
9,200.00	4,284.08	4,273.23	4,284.08	61.75	85.11	-132.610	587.20	384.72	5,055.90	4,946.05	109.85	46.025	
9,250.00	4,285.02	4,274.17	4,285.02	62.30	85.13	-132.891	587.20	384.72	5,105.88	4,996.04	109.84	46.485	
9,300.00	4,285.96	4,275.11	4,285.96	62.84	85.15	-133.170	587.20	384.72	5,155.86	5,046.03	109.83	46.944	
9,350.00	4,286.90	4,276.05	4,286.90	63.39	85.17	-133.446	587.20	384.72	5,205.85	5,096.03	109.82	47.404	
9,400.00	4,287.83	4,276.98	4,287.83	63.94	85.19	-133.719	587.20	384.72	5,255.83	5,146.02	109.81	47.865	
9,450.00	4,288.77	4,277.92	4,288.77	64.48	85.21	-133.990	587.20	384.72	5,305.81	5,196.02	109.79	48.326	
9,500.00	4,289.71	4,278.86	4,289.71	65.03	85.23	-134.259	587.20	384.72	5,355.79	5,246.01	109.78	48.787	
9,550.00	4,290.65	4,279.80	4,290.65	65.58	85.24	-134.525	587.20	384.72	5,405.77	5,296.01	109.77	49.248	
9,600.00	4,291.59	4,280.74	4,291.59	66.13	85.26	-134.789	587.20	384.72	5,455.75	5,346.00	109.75	49.710	
9,650.00	4,292.53	4,281.68	4,292.53	66.67	85.28	-135.050	587.20	384.72	5,505.74	5,396.00	109.74	50.173	
9,700.00	4,293.46	4,282.62	4,293.46	67.22	85.30	-135.309	587.20	384.72	5,555.72	5,446.00	109.72	50.635	
9,750.00	4,294.40	4,283.55	4,294.40	67.77	85.32	-135.566	587.20	384.72	5,605.70	5,496.00	109.71	51.098	
9,800.00	4,295.34	4,284.49	4,295.34	68.32	85.34	-135.820	587.20	384.72	5,655.68	5,546.00	109.69	51.561	
9,850.00	4,296.28	4,285.43	4,296.28	68.87	85.36	-136.072	587.20	384.72	5,705.67	5,595.99	109.67	52.024	
9,900.00	4,297.22	4,286.37	4,297.22	69.42	85.38	-136.322	587.20	384.72	5,755.65	5,645.99	109.66	52.488	
9,950.00	4,298.16	4,287.31	4,298.16	69.96	85.40	-136.569	587.20	384.72	5,805.63	5,695.99	109.64	52.951	
10,000.00	4,299.10	4,288.25	4,299.10	70.51	85.42	-136.815	587.20	384.72	5,855.62	5,745.99	109.62	53.415	
10,050.00	4,300.03	4,289.18	4,300.03	71.06	85.44	-137.058	587.20	384.72	5,905.60	5,795.99	109.61	53.879	
10,100.00	4,300.97	4,290.12	4,300.97	71.61	85.46	-137.298	587.20	384.72	5,955.58	5,845.99	109.59	54.344	
10,150.00	4,301.91	4,291.06	4,301.91	72.16	85.47	-137.537	587.20	384.72	6,005.57	5,895.99	109.57	54.808	

SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to RKB = 20' @ 3620.00usft (AKITA 57) Coordinates are relative to: 60H
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: 0.101°



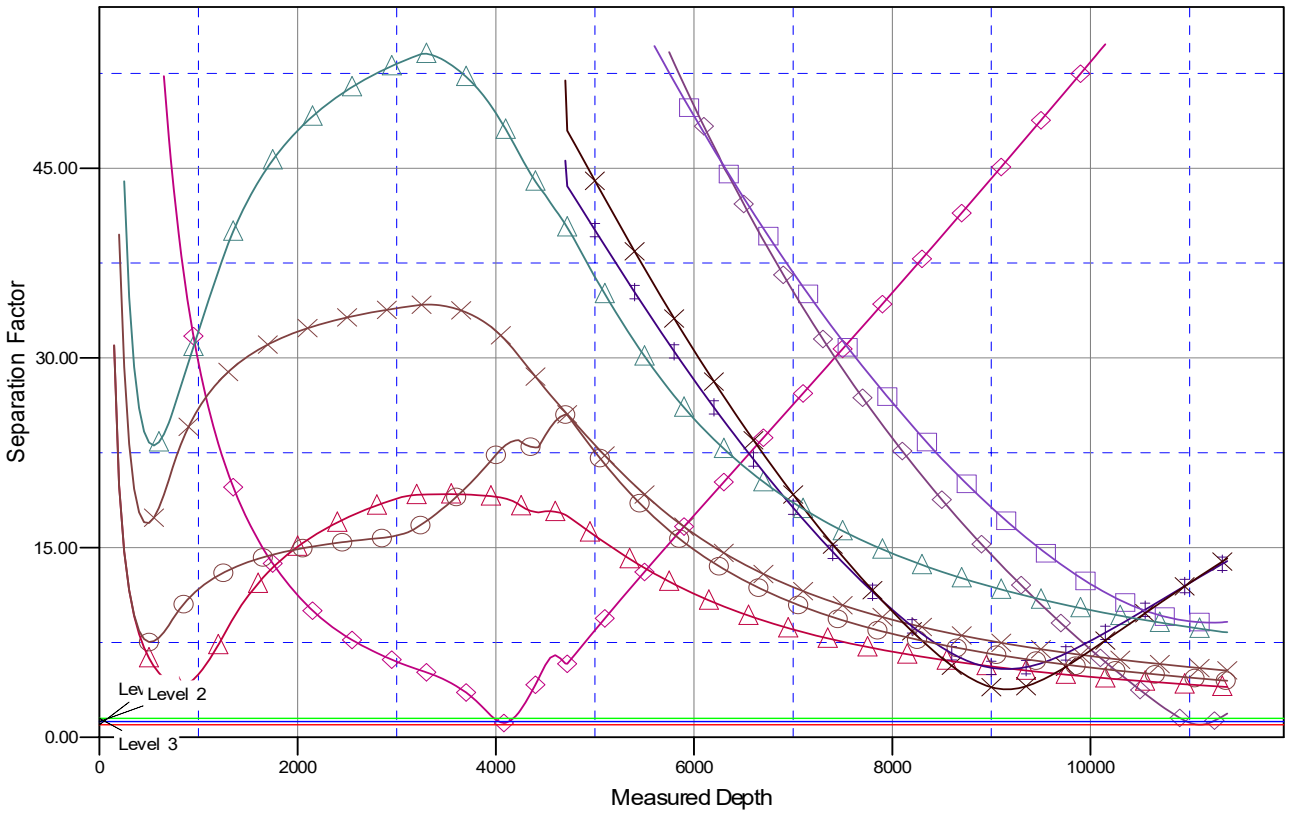
SPUR ENERGY PARTNERS

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	**Local Co-ordinate Reference:**	Well 60H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Reference Site:	AID NORTH 14-13 STATE COM	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1.13 Single User Db
Reference Design:	PERMIT	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to RKB = 20' @ 3620.00usft (AKITA 57) Coordinates are relative to: 60H
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: 0.101°

Separation Factor Plot



LEGEND

OFFSET: PUMA #1, Wellbore #1, Wellbore #1 V0
20H, Wellbore #1, PERMIT V0
OFFSET: AID STATE #9, Wellbore #1, Wellbore #
OFFSET: AID STATE #8, Wellbore #1, Wellbore #1 V0
OFFSET: AID STATE #10, Wellbore #1, Wellbore #1 V0
21H, Wellbore #1, PERMIT V0
61H, Wellbore #1, PERMIT V0
OFFSET: AID STATE #6, Wellbore #1, Wellbore #1 V0
10H, Wellbore #1, PERMIT V0

SPUR ENERGY PARTNERS, LLC

EDDY COUNTY, NM (NAD 83 - NME)
AID NORTH 14-13 STATE COM
60H

Wellbore #1

Plan: PERMIT

Standard Planning Report

01 August, 2023

SPUR ENERGY PARTNERS

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well 60H
Company:	SPUR ENERGY PARTNERS, LLC	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site:	AID NORTH 14-13 STATE COM	**North Reference:**	Grid
Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

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 AID NORTH 14-13 STATE COM

Site Position:		**Northing:**	669,070.00 usft	**Latitude:**	32.8391593
From:	Map	**Easting:**	598,767.90 usft	**Longitude:**	-104.1463439
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.101 °

Well 60H

Well Position	**+N/-S**	20.00 usft	**Northing:**	669,090.00 usft	**Latitude:**	32.8392142
	+E/-W	-0.20 usft	**Easting:**	598,767.70 usft	**Longitude:**	-104.1463444
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	0.00 usft	**Ground Level:**	3,600.00 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	08/01/23	6.613	60.303	47,575

Design PERMIT

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	88.75

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	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	
719.90	8.40	4.98	718.40	30.60	2.67	2.00	2.00	0.00	4.982	
3,239.93	8.40	4.98	3,211.41	397.26	34.63	0.00	0.00	0.00	0.000	
4,230.69	60.00	88.75	4,023.34	486.85	513.58	6.00	5.21	8.46	88.676	
4,430.69	60.00	88.75	4,123.34	490.61	686.74	0.00	0.00	0.00	0.000	
4,719.94	88.92	88.75	4,200.00	496.60	962.40	10.00	10.00	0.00	0.000	AID NORTH 60H F
11,330.25	88.92	88.75	4,324.06	640.21	7,569.98	0.00	0.00	0.00	0.000	AID NORTH 60H L
11,380.28	88.92	88.75	4,325.00	641.30	7,620.00	0.00	0.00	0.00	0.000	AID NORTH 60H B

SPUR ENERGY PARTNERS

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well 60H
Company:	SPUR ENERGY PARTNERS, LLC	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site:	AID NORTH 14-13 STATE COM	**North Reference:**	Grid
Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AID NORTH 60H SHL: 1288' FNL, 2382' FEL									
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	4.98	399.98	1.74	0.15	0.19	2.00	2.00	0.00
500.00	4.00	4.98	499.84	6.95	0.61	0.76	2.00	2.00	0.00
600.00	6.00	4.98	599.45	15.63	1.36	1.70	2.00	2.00	0.00
700.00	8.00	4.98	698.70	27.77	2.42	3.03	2.00	2.00	0.00
719.90	8.40	4.98	718.40	30.60	2.67	3.33	2.00	2.00	0.00
800.00	8.40	4.98	797.64	42.26	3.68	4.60	0.00	0.00	0.00
900.00	8.40	4.98	896.57	56.81	4.95	6.19	0.00	0.00	0.00
1,000.00	8.40	4.98	995.49	71.36	6.22	7.78	0.00	0.00	0.00
1,100.00	8.40	4.98	1,094.42	85.91	7.49	9.36	0.00	0.00	0.00
1,200.00	8.40	4.98	1,193.35	100.46	8.76	10.95	0.00	0.00	0.00
1,300.00	8.40	4.98	1,292.28	115.01	10.02	12.53	0.00	0.00	0.00
1,400.00	8.40	4.98	1,391.21	129.56	11.29	14.12	0.00	0.00	0.00
1,500.00	8.40	4.98	1,490.13	144.11	12.56	15.70	0.00	0.00	0.00
1,600.00	8.40	4.98	1,589.06	158.65	13.83	17.29	0.00	0.00	0.00
1,700.00	8.40	4.98	1,687.99	173.20	15.10	18.87	0.00	0.00	0.00
1,800.00	8.40	4.98	1,786.92	187.75	16.37	20.46	0.00	0.00	0.00
1,900.00	8.40	4.98	1,885.84	202.30	17.63	22.04	0.00	0.00	0.00
2,000.00	8.40	4.98	1,984.77	216.85	18.90	23.63	0.00	0.00	0.00
2,100.00	8.40	4.98	2,083.70	231.40	20.17	25.21	0.00	0.00	0.00
2,200.00	8.40	4.98	2,182.63	245.95	21.44	26.80	0.00	0.00	0.00
2,300.00	8.40	4.98	2,281.56	260.50	22.71	28.38	0.00	0.00	0.00
2,400.00	8.40	4.98	2,380.48	275.05	23.98	29.97	0.00	0.00	0.00
2,500.00	8.40	4.98	2,479.41	289.60	25.24	31.56	0.00	0.00	0.00
2,600.00	8.40	4.98	2,578.34	304.15	26.51	33.14	0.00	0.00	0.00
2,700.00	8.40	4.98	2,677.27	318.70	27.78	34.73	0.00	0.00	0.00
2,800.00	8.40	4.98	2,776.19	333.25	29.05	36.31	0.00	0.00	0.00
2,900.00	8.40	4.98	2,875.12	347.80	30.32	37.90	0.00	0.00	0.00
3,000.00	8.40	4.98	2,974.05	362.35	31.59	39.48	0.00	0.00	0.00
3,100.00	8.40	4.98	3,072.98	376.90	32.85	41.07	0.00	0.00	0.00
3,200.00	8.40	4.98	3,171.90	391.45	34.12	42.65	0.00	0.00	0.00
3,239.93	8.40	4.98	3,211.41	397.26	34.63	43.29	0.00	0.00	0.00
AID NORTH 60H KOP: 3239.93' MD									
3,250.00	8.43	9.10	3,221.37	398.72	34.81	43.50	6.00	0.35	40.93
3,300.00	9.21	28.10	3,270.79	405.88	37.27	46.12	6.00	1.55	38.00
3,350.00	10.79	42.88	3,320.03	412.84	42.34	51.34	6.00	3.16	29.55
3,400.00	12.88	53.43	3,368.97	419.59	50.01	59.15	6.00	4.18	21.11
3,450.00	15.27	60.91	3,417.47	426.11	60.24	69.52	6.00	4.78	14.96
3,500.00	17.84	66.35	3,465.40	432.38	73.01	82.42	6.00	5.15	10.87
3,550.00	20.53	70.43	3,512.62	438.39	88.29	97.83	6.00	5.37	8.16
3,600.00	23.29	73.59	3,559.01	444.12	106.03	115.70	6.00	5.52	6.32
3,650.00	26.10	76.11	3,604.43	449.56	126.19	135.97	6.00	5.62	5.04
3,700.00	28.94	78.16	3,648.77	454.68	148.72	158.60	6.00	5.69	4.11
3,750.00	31.81	79.88	3,691.90	459.48	173.54	183.52	6.00	5.74	3.43
3,800.00	34.71	81.34	3,733.71	463.94	200.59	210.66	6.00	5.78	2.92
3,850.00	37.61	82.60	3,774.07	468.05	229.80	239.95	6.00	5.81	2.52
3,900.00	40.53	83.70	3,812.89	471.80	261.09	271.32	6.00	5.84	2.21
3,950.00	43.46	84.68	3,850.04	475.17	294.36	304.66	6.00	5.86	1.96
4,000.00	46.39	85.56	3,885.44	478.17	329.54	339.89	6.00	5.87	1.76
4,050.00	49.33	86.36	3,918.98	480.77	366.52	376.92	6.00	5.88	1.59

SPUR ENERGY PARTNERS

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well 60H
Company:	SPUR ENERGY PARTNERS, LLC	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site:	AID NORTH 14-13 STATE COM	**North Reference:**	Grid
Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,100.00	52.28	87.09	3,950.58	482.98	405.21	415.65	6.00	5.89	1.46
4,150.00	55.23	87.76	3,980.13	484.79	445.49	455.96	6.00	5.90	1.35
4,200.00	58.19	88.39	4,007.58	486.19	487.25	497.74	6.00	5.91	1.25
4,230.69	60.00	88.75	4,023.34	486.85	513.58	524.07	6.00	5.91	1.19
4,300.00	60.00	88.75	4,057.99	488.15	573.59	584.10	0.00	0.00	0.00
4,400.00	60.00	88.75	4,107.99	490.03	660.17	670.70	0.00	0.00	0.00
4,430.69	60.00	88.75	4,123.34	490.61	686.74	697.28	0.00	0.00	0.00
4,450.00	61.93	88.75	4,132.71	490.98	703.62	714.16	10.00	10.00	0.00
4,500.00	66.93	88.75	4,154.28	491.96	748.70	759.25	10.00	10.00	0.00
4,550.00	71.93	88.75	4,171.84	492.97	795.48	806.05	10.00	10.00	0.00
4,600.00	76.93	88.75	4,185.26	494.02	843.62	854.20	10.00	10.00	0.00
4,650.00	81.93	88.75	4,194.43	495.09	892.75	903.33	10.00	10.00	0.00
4,700.00	86.93	88.75	4,199.28	496.17	942.48	953.08	10.00	10.00	0.00
4,719.94	88.92	88.75	4,200.00	496.60	962.40	973.00	10.00	10.00	0.00
AID NORTH 60H FTP: 804' FNL, 1405' FEL									
4,800.00	88.92	88.75	4,201.50	498.34	1,042.43	1,053.05	0.00	0.00	0.00
4,900.00	88.92	88.75	4,203.38	500.51	1,142.39	1,153.04	0.00	0.00	0.00
5,000.00	88.92	88.75	4,205.26	502.68	1,242.35	1,253.02	0.00	0.00	0.00
5,100.00	88.92	88.75	4,207.13	504.86	1,342.31	1,353.00	0.00	0.00	0.00
5,200.00	88.92	88.75	4,209.01	507.03	1,442.27	1,452.98	0.00	0.00	0.00
5,300.00	88.92	88.75	4,210.89	509.20	1,542.22	1,552.97	0.00	0.00	0.00
5,400.00	88.92	88.75	4,212.76	511.37	1,642.18	1,652.95	0.00	0.00	0.00
5,500.00	88.92	88.75	4,214.64	513.55	1,742.14	1,752.93	0.00	0.00	0.00
5,600.00	88.92	88.75	4,216.52	515.72	1,842.10	1,852.91	0.00	0.00	0.00
5,700.00	88.92	88.75	4,218.39	517.89	1,942.06	1,952.90	0.00	0.00	0.00
5,800.00	88.92	88.75	4,220.27	520.07	2,042.02	2,052.88	0.00	0.00	0.00
5,900.00	88.92	88.75	4,222.15	522.24	2,141.98	2,152.86	0.00	0.00	0.00
6,000.00	88.92	88.75	4,224.02	524.41	2,241.94	2,252.84	0.00	0.00	0.00
6,100.00	88.92	88.75	4,225.90	526.58	2,341.90	2,352.83	0.00	0.00	0.00
6,200.00	88.92	88.75	4,227.78	528.76	2,441.85	2,452.81	0.00	0.00	0.00
6,300.00	88.92	88.75	4,229.65	530.93	2,541.81	2,552.79	0.00	0.00	0.00
6,400.00	88.92	88.75	4,231.53	533.10	2,641.77	2,652.77	0.00	0.00	0.00
6,500.00	88.92	88.75	4,233.41	535.27	2,741.73	2,752.75	0.00	0.00	0.00
6,600.00	88.92	88.75	4,235.28	537.45	2,841.69	2,852.74	0.00	0.00	0.00
6,700.00	88.92	88.75	4,237.16	539.62	2,941.65	2,952.72	0.00	0.00	0.00
6,800.00	88.92	88.75	4,239.04	541.79	3,041.61	3,052.70	0.00	0.00	0.00
6,900.00	88.92	88.75	4,240.92	543.96	3,141.57	3,152.68	0.00	0.00	0.00
7,000.00	88.92	88.75	4,242.79	546.14	3,241.52	3,252.67	0.00	0.00	0.00
7,100.00	88.92	88.75	4,244.67	548.31	3,341.48	3,352.65	0.00	0.00	0.00
7,200.00	88.92	88.75	4,246.55	550.48	3,441.44	3,452.63	0.00	0.00	0.00
7,300.00	88.92	88.75	4,248.42	552.65	3,541.40	3,552.61	0.00	0.00	0.00
7,400.00	88.92	88.75	4,250.30	554.83	3,641.36	3,652.60	0.00	0.00	0.00
7,500.00	88.92	88.75	4,252.18	557.00	3,741.32	3,752.58	0.00	0.00	0.00
7,600.00	88.92	88.75	4,254.05	559.17	3,841.28	3,852.56	0.00	0.00	0.00
7,700.00	88.92	88.75	4,255.93	561.34	3,941.24	3,952.54	0.00	0.00	0.00
7,800.00	88.92	88.75	4,257.81	563.52	4,041.19	4,052.53	0.00	0.00	0.00
7,900.00	88.92	88.75	4,259.68	565.69	4,141.15	4,152.51	0.00	0.00	0.00
8,000.00	88.92	88.75	4,261.56	567.86	4,241.11	4,252.49	0.00	0.00	0.00
8,100.00	88.92	88.75	4,263.44	570.03	4,341.07	4,352.47	0.00	0.00	0.00
8,200.00	88.92	88.75	4,265.31	572.21	4,441.03	4,452.46	0.00	0.00	0.00
8,300.00	88.92	88.75	4,267.19	574.38	4,540.99	4,552.44	0.00	0.00	0.00
8,400.00	88.92	88.75	4,269.07	576.55	4,640.95	4,652.42	0.00	0.00	0.00
8,500.00	88.92	88.75	4,270.94	578.72	4,740.91	4,752.40	0.00	0.00	0.00
8,600.00	88.92	88.75	4,272.82	580.90	4,840.86	4,852.38	0.00	0.00	0.00

SPUR ENERGY PARTNERS

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well 60H
Company:	SPUR ENERGY PARTNERS, LLC	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site:	AID NORTH 14-13 STATE COM	**North Reference:**	Grid
Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,700.00	88.92	88.75	4,274.70	583.07	4,940.82	4,952.37	0.00	0.00	0.00
8,800.00	88.92	88.75	4,276.57	585.24	5,040.78	5,052.35	0.00	0.00	0.00
8,900.00	88.92	88.75	4,278.45	587.41	5,140.74	5,152.33	0.00	0.00	0.00
9,000.00	88.92	88.75	4,280.33	589.59	5,240.70	5,252.31	0.00	0.00	0.00
9,100.00	88.92	88.75	4,282.20	591.76	5,340.66	5,352.30	0.00	0.00	0.00
9,200.00	88.92	88.75	4,284.08	593.93	5,440.62	5,452.28	0.00	0.00	0.00
9,300.00	88.92	88.75	4,285.96	596.10	5,540.58	5,552.26	0.00	0.00	0.00
9,400.00	88.92	88.75	4,287.83	598.28	5,640.54	5,652.24	0.00	0.00	0.00
9,500.00	88.92	88.75	4,289.71	600.45	5,740.49	5,752.23	0.00	0.00	0.00
9,600.00	88.92	88.75	4,291.59	602.62	5,840.45	5,852.21	0.00	0.00	0.00
9,700.00	88.92	88.75	4,293.46	604.79	5,940.41	5,952.19	0.00	0.00	0.00
9,800.00	88.92	88.75	4,295.34	606.97	6,040.37	6,052.17	0.00	0.00	0.00
9,900.00	88.92	88.75	4,297.22	609.14	6,140.33	6,152.16	0.00	0.00	0.00
10,000.00	88.92	88.75	4,299.10	611.31	6,240.29	6,252.14	0.00	0.00	0.00
10,100.00	88.92	88.75	4,300.97	613.49	6,340.25	6,352.12	0.00	0.00	0.00
10,200.00	88.92	88.75	4,302.85	615.66	6,440.21	6,452.10	0.00	0.00	0.00
10,300.00	88.92	88.75	4,304.73	617.83	6,540.16	6,552.09	0.00	0.00	0.00
10,400.00	88.92	88.75	4,306.60	620.00	6,640.12	6,652.07	0.00	0.00	0.00
10,500.00	88.92	88.75	4,308.48	622.18	6,740.08	6,752.05	0.00	0.00	0.00
10,600.00	88.92	88.75	4,310.36	624.35	6,840.04	6,852.03	0.00	0.00	0.00
10,700.00	88.92	88.75	4,312.23	626.52	6,940.00	6,952.02	0.00	0.00	0.00
10,800.00	88.92	88.75	4,314.11	628.69	7,039.96	7,052.00	0.00	0.00	0.00
10,900.00	88.92	88.75	4,315.99	630.87	7,139.92	7,151.98	0.00	0.00	0.00
11,000.00	88.92	88.75	4,317.86	633.04	7,239.88	7,251.96	0.00	0.00	0.00
11,100.00	88.92	88.75	4,319.74	635.21	7,339.83	7,351.94	0.00	0.00	0.00
11,200.00	88.92	88.75	4,321.62	637.38	7,439.79	7,451.93	0.00	0.00	0.00
11,300.00	88.92	88.75	4,323.49	639.56	7,539.75	7,551.91	0.00	0.00	0.00
11,330.25	88.92	88.75	4,324.06	640.21	7,569.98	7,582.15	0.00	0.00	0.00
AID NORTH 60H LTP: 100' FEL									
11,380.28	88.92	88.75	4,325.00	641.30	7,620.00	7,632.18	0.00	0.00	0.00
AID NORTH 60H BHL: 810' FNL, 50' FEL									

SPUR ENERGY PARTNERS

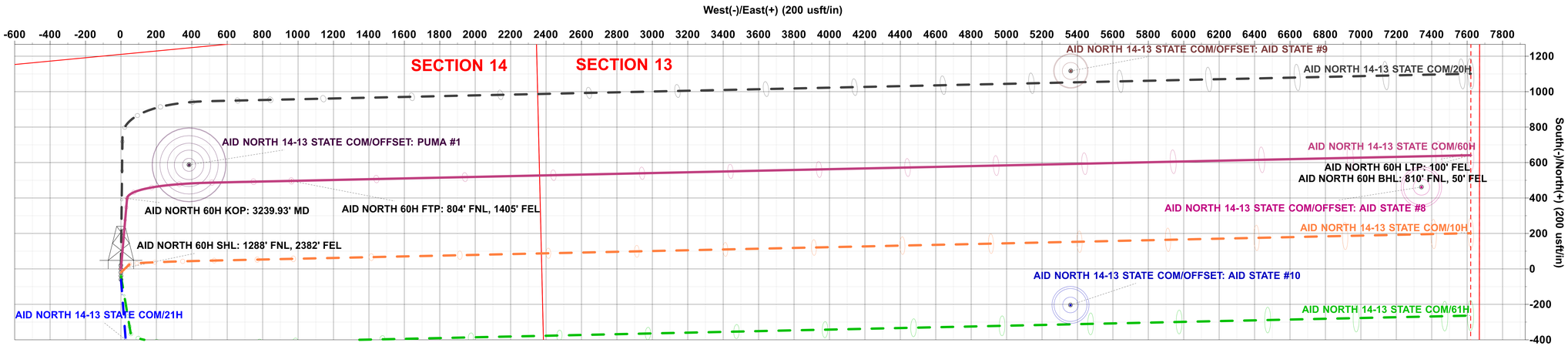
Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well 60H
Company:	SPUR ENERGY PARTNERS, LLC	**TVD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Project:	EDDY COUNTY, NM (NAD 83 - NME)	**MD Reference:**	RKB = 20' @ 3620.00usft (AKITA 57)
Site:	AID NORTH 14-13 STATE COM	**North Reference:**	Grid
Well:	60H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

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
AID NORTH 60H SHL - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	669,090.00	598,767.70	32.8392142	-104.1463444
AID NORTH 60H KOP - plan hits target center - Point	0.00	0.00	3,211.41	397.26	34.63	669,487.27	598,802.33	32.8403060	-104.1462294
AID NORTH 60H FTP - plan hits target center - Point	0.00	0.00	4,200.00	496.60	962.40	669,586.60	599,730.10	32.8405745	-104.1432080
AID NORTH 60H LTP - plan misses target center by 0.71usft at 11330.25usft MD (4324.06 TVD, 640.21 N, 7569.98 E) - Point	0.00	0.00	4,324.06	639.50	7,570.00	669,729.50	606,337.70	32.8409327	-104.1216930
AID NORTH 60H BHL - plan hits target center - Point	0.00	0.00	4,325.00	641.30	7,620.00	669,731.30	606,387.70	32.8409374	-104.1215302

Project: EDDY COUNTY, NM (NAD 83 - NME)
Site: AID NORTH 14-13 STATE COM
Well: 60H
Wellbore: Wellbore #1
Design: PERMIT



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

WELL DETAILS: 60H

Rig Name: AKITA 57 RKB = 20' @ 3620.00usft (AKITA 57)
Ground Level: 3600.00

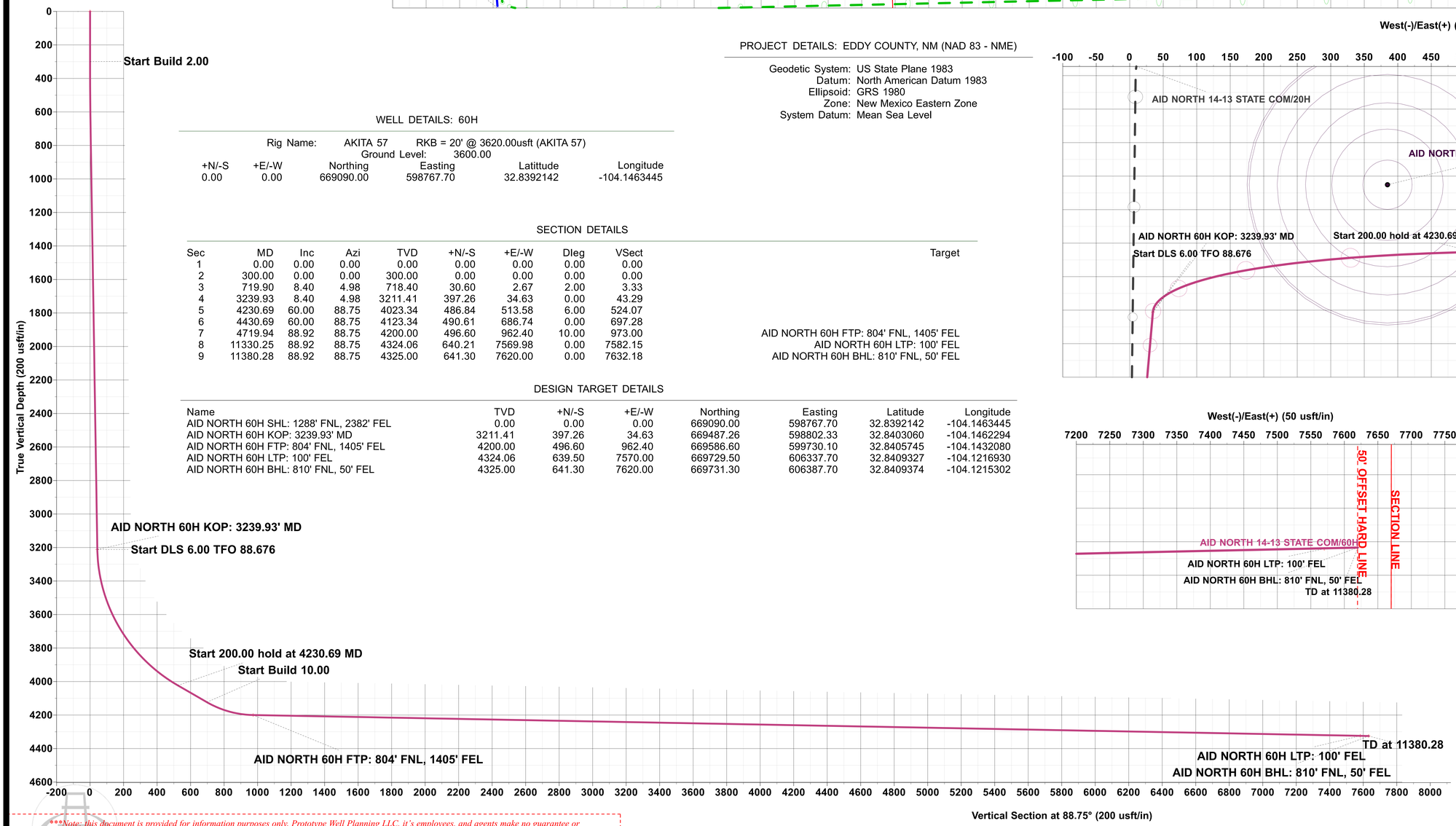
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	669090.00	598767.70	32.8392142	-104.1463445

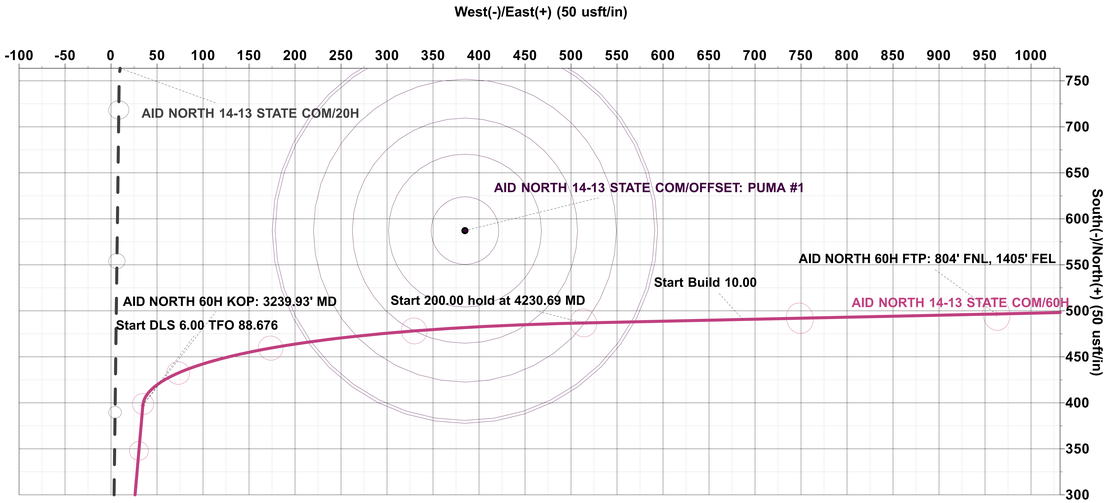
SECTION DETAILS

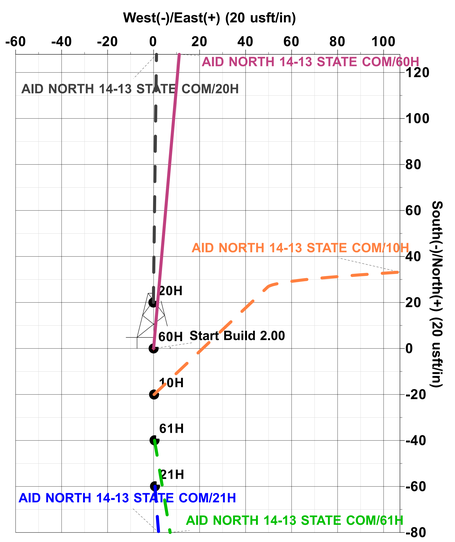
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	
3	719.90	8.40	4.98	718.40	30.60	2.67	2.00	3.33	
4	3239.93	8.40	4.98	3211.41	397.26	34.63	0.00	43.29	
5	4230.69	60.00	88.75	4023.34	486.84	513.58	6.00	524.07	
6	4430.69	60.00	88.75	4123.34	490.61	686.74	0.00	697.28	
7	4719.94	88.92	88.75	4200.00	496.60	962.40	10.00	973.00	AID NORTH 60H FTP: 804' FNL, 1405' FEL
8	11330.25	88.92	88.75	4324.06	640.21	7569.98	0.00	7582.15	AID NORTH 60H LTP: 100' FEL
9	11380.28	88.92	88.75	4325.00	641.30	7620.00	0.00	7632.18	AID NORTH 60H BHL: 810' FNL, 50' FEL

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
AID NORTH 60H SHL: 1288' FNL, 2382' FEL	0.00	0.00	0.00	669090.00	598767.70	32.8392142	-104.1463445
AID NORTH 60H KOP: 3239.93' MD	3211.41	397.26	34.63	669487.26	598802.33	32.8403060	-104.1462294
AID NORTH 60H FTP: 804' FNL, 1405' FEL	4200.00	496.60	962.40	669586.60	599730.10	32.8405745	-104.1432080
AID NORTH 60H LTP: 100' FEL	4324.06	639.50	7570.00	669729.50	606337.70	32.8409327	-104.1216930
AID NORTH 60H BHL: 810' FNL, 50' FEL	4325.00	641.30	7620.00	669731.30	606387.70	32.8409374	-104.1215302







Plan: PERMIT (60H/Wellbore #1)

Created By: PROTOTYPE WELL PLANNING / Date: 16:52, August 01 2023

Spur Energy Partners LLC – Aid North 14-13 State Com 60H

1. Geologic Formations

TVD of Target	4,325'
MD at TD	11,380'

Formation	Depth	Lithology	Expected Fluids
Quaternary	0'	Dolomite, other: Caliche	Useable Water
Tansill	485'	Sandstone, Dolomite	None
Yates	595'	Dolomite, Limestone, Shale, Siltstone	None
Seven Rivers	850'	Dolomite, Limestone	Natural Gas, Oil
Queen	1395'	Anhydrite, Dolomite, Sandstone	Natural Gas, Oil
Grayburg	1825'	Anhydrite	Natural Gas, Oil
San Andres	2170'	Dolomite	Natural Gas, Oil
Glorieta	3520'	Dolomite, Siltstone	Natural Gas, Oil
Paddock	3620'	Dolomite, Limestone	Natural Gas, Oil
Blinebry	4015'	Dolomite, Limestone	Natural Gas, Oil
Abo	5675'	Dolomite, Limestone	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

Casing Formation Set Interval	Hole Size (in)	Casing Interval		Csg. Size (in)	Weight	Grade	Conn.	SF	SF Burst	Body SF	Joint SF
		From (ft)	To (ft)		(lbs)			Collapse		Tension	Tension
Seven Rivers	12.25	0	1275	9.625	36	J-55	BTC	1.125	1.2	1.4	1.4
N/A	8.75	0	4500	7	32	L-80	BK-HT	1.125	1.2	1.4	1.4
Yeso	8.75	4500	11380	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 – Aid North 14-13 State Com 60H

	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?	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	1275	100%
Production (Lead)	0	3500	100%
Production (Tail)	3500	11380	25%

Casing String	# Sks	Wt. (lb/gal)	Yld (ft3/sack)	H20 (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)	119	13.2	1.87	9.92	6:59	Clas C Premium Plus Cement
Production (Lead)	365	11.4	2.42	15.29	N/A	Clas C Premium Plus Cement
Production (Tail)	1517	13.2	1.56	9.81	N/A	Clas C Premium Plus Cement

Spur Energy Partners LLC – Aid North 14-13 State Com 60H

4. Pressure Control Equipment

Spur Energy Partners LLC variance for flex hose

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	2002 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?
	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 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	1275	Water-Based Mud	8.6-8.9	32-36	N/C
1275	11380	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

Spur Energy Partners LLC – Aid North 14-13 State Com 60H

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: 1032.3 bbls**.**

Spur Energy Partners LLC – Aid North 14-13 State Com 60H

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__ BOP Schematics
_x__ 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

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:** 08 / 08 / 2023

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
AID NORTH 14 13 STATE COM 10H	30-015-	B-14-17S-28E	1228' FNL 2382' FEL	260 BBL/D	300 MCF/D	700 BBL/D
AID NORTH 14 13 STATE COM 20H	30-015-	B-14-17S-28E	1188' FNL 2382' FEL	260 BBL/D	300 MCF/D	700 BBL/D
AID NORTH 14 13 STATE COM 21H	30-015-	B-14-17S-28E	1268' FNL 2383' FEL	260 BBL/D	300 MCF/D	700 BBL/D
AID NORTH 14 13 STATE COM 60H	30-015-	B-14-17S-28E	1208' FNL 2382' FEL	200 BBL/D	275 MCF/D	800 BBL/D
AID NORTH 14 13 STATE COM 61H	30-015-	B-14-17S-28E	1248' FNL 2383' FEL	200 BBL/D	275 MCF/D	800 BBL/D

IV. Central Delivery Point Name: AID NORTH 14 13 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
AID NORTH 14 13 STATE COM 10H	30-015-	10/26/2023	11/03/2023	12/16/2023	01/15/2024	01/20/2024
AID NORTH 14 13 STATE COM 20H	30-015-	11/04/2023	11/12/2023	12/16/2023	01/15/2024	01/20/2024
AID NORTH 14 13 STATE COM 21H	30-015-	11/13/2023	11/21/2023	12/16/2023	01/15/2024	01/20/2024
AID NORTH 14 13 STATE COM 60H	30-015-	11/22/2023	11/30/2023	12/16/2023	01/15/2024	01/20/2024
AID NORTH 14 13 STATE COM 61H	30-015-	12/01/2023	12/09/2023	12/16/2023	01/15/2024	01/24/2024

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@SPURENERGY.COM
Date:	08/08/2023
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.

Hydrogen Sulfide (H2S)

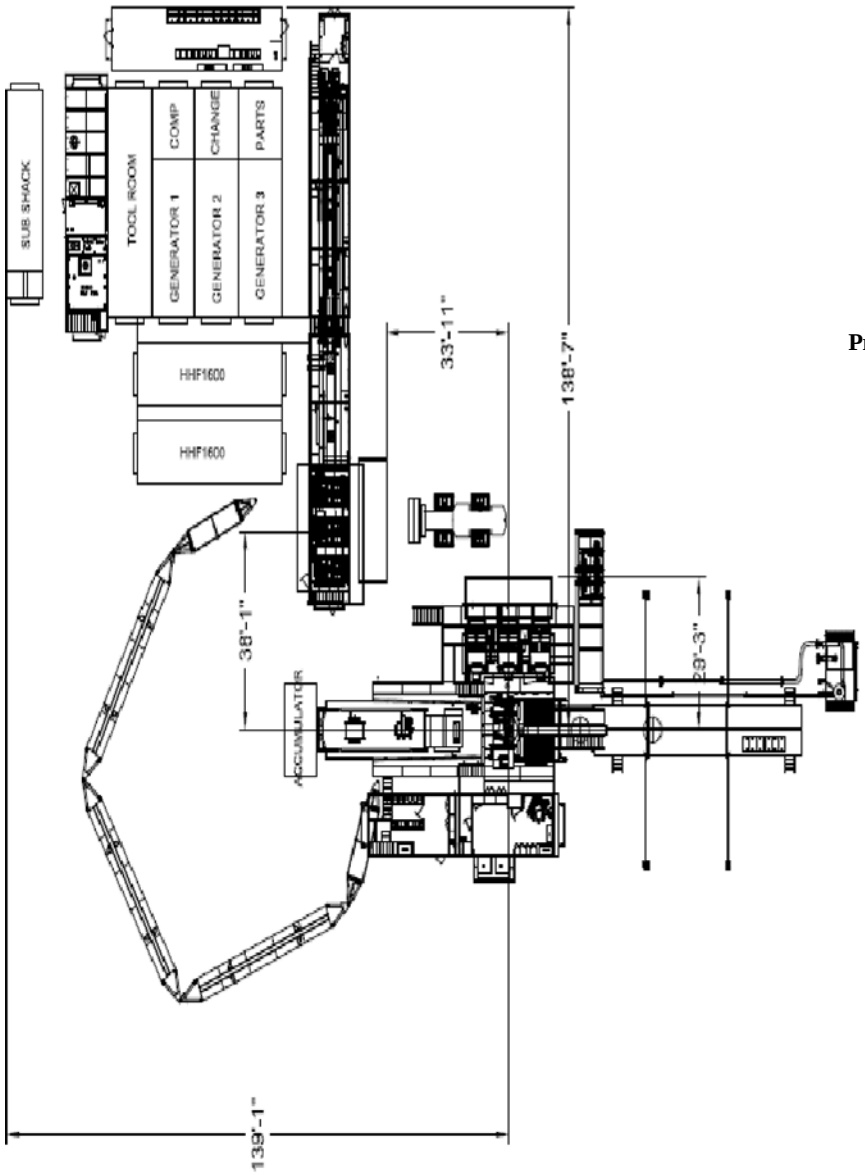
Operations Plan

For

Spur Energy Partners

New Mexico Operations

Secondary Briefing Area



Primary Briefing Area

Exit to road. Caution sign placed here.

N

Secondary Egress

WIND: Prevailing winds are from the Southwest

Spur Energy Partners
New Mexico Operations
Hydrogen Sulfide Operation Plan

A. Introduction:

The Safety of all personnel at Spur Energy Partners Facilities is of utmost importance to the company, and therefor management and employees must take responsibility for their safety and for the safety of all employees and others at a facility. If you have any concerns about the safe operations of the facility, contract personnel, or vendors, please contact the Company's Safety Contact, Superintendent, or Production Foreman immediately.

The objective of this contingency plan is to provide an organized plan of action for alerting, responding to and protecting employees, other workers and the public from H2S exposure in the event of a release of a potentially hazardous volume of H2S to the atmosphere. This plan should be activated immediately if any such release occurs. The Superintendent is responsible for initiating and carrying out the plan.

B. Scope:

Prevent the uncontrolled release of H_2S into the atmosphere. Provide proper procedures and equipment to alert and respond to emergencies.

Provide immediate and adequate medical attention should an injury occur.

To provide Company employees working at actual or potential Hydrogen Sulfide (H2S) facilities with a safe procedure to comply with applicable Federal, State and Company requirements.

This document is intended to provide general policy, procedures and expectations surrounding elevated levels of H2S. The intent is to promote sound and safe operations, while seeking effective communication surrounding operational considerations working around H2S.

This procedure applies to all Company employees and contractors working at facilities that have the potential to release 100 ppm or higher concentrations of H2S.

The plan establishes guidelines for all personnel whose work activity may involve exposure to Hydrogen Sulfide Gas (H_2S).

C. Hydrogen Sulfide Gas (H2S) Characteristics:

1. H2S is a toxic, poisonous gas that could cause death or injury. And it is also flammable.
2. H2S is an irritant and extremely toxic gas that is several times deadlier than carbon monoxide (CO).
3. H2S is heavier than air with a specific gravity of 1.1895 @ 600 F. so it will tend to lie in lower areas. Wind movement or air currents can readily disperse H2S since wind currents can easily overcome the heavier weight. On calm days, with no wind, the H2S will tend to accumulate in dangerous concentrations; however, if the H2S is warmer than the surrounding air it may rise.
4. H2S is colorless.
5. In small concentrations, H2S has the characteristic odor of rotten eggs. It may be detected by smell at a concentration in air of about 2 ppm but may NOT be detected

at high concentrations. DO NOT DEPEND ON THE SENSE OF SMELL TO DETECT H2S! H2S will paralyze the olfactory nerve causing a loss of the sense of smell within 2 – 15 minutes of an exposure in concentrations as low as 100-150 ppm.

6. H2S burns with a blue flame and has an auto ignition temperature of 5000 F. H2S forms an explosive mixture in the range of 4.3% to 45% by volume with air. H2S, when ignited, produces Sulfur Dioxide (SO2). SO2 is another toxic gas but less toxic than H2S.
7. Physiological Effects
    - 1,000-2,000+ ppm: Loss of consciousness and possible death.
    - 100-1,000 ppm: Serious respiratory, central nervous, and cardiovascular system effects.
    - 150-200 ppm: Olfactory fatigue (sense of smell is significantly impaired).
    - 100 ppm: Immediately Dangerous to Life and Health (IDLH concentration).
    - 5-30 ppm: Moderate irritation of the eyes.
    - 5-10 ppm: Relatively minor metabolic changes in exercising individuals during short-term exposures.
    - Less than 5 ppm: Metabolic changes observed in exercising individuals, but not clinically significant.
    - 5 ppm: Increase in anxiety symptoms (single exposure).
    - 5 ppm: Start of the dose-response curve (short-term exposure).
    - 0.032-0.02 ppm: Olfactory threshold (begin to smell).

D. H_2S Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing work at an effected facility:

1. The hazards and characteristics of hydrogen sulfide (H2S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H_2S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.
5. The procedures for operating process equipment.

In addition, supervisory personnel will be trained in the following areas:

1. Corrective action and shutdown procedures when a release or leak occurs.
2. Notification process

Annual drills will be conducted to utilize the procedures and make improvements as needed. It will also serve as refresher training on the process.

Note: All H_2S safety equipment and systems will be installed, tested, and operational when operation commences.

E. Protective equipment controls:

Any facility that has the potential to emit H2S at 100 ppm or higher will be required to install and utilize the below controls:

1. Where applicable, area air monitors will be installed and function tested and calibrated no less than monthly and set on a quarterly basis PM schedule.
2. Facility operators will use self contained breathing apparatuses (SCBA's) to perform routine operations in areas where H2S may be present.
3. Trigger of 100 PPM or more must be communicated and work proceeding the trigger must use the buddy system.
4. Visible windsocks must be installed at key locations surrounding the facility.
5. H2S warning signs must be placed at the entrance to the facility as well as other key locations.
6. Personal H2S Monitor are required to be worn by all personnel on locations.
7. Stairs and ladders leading to the top of a tank or vessel containing 300 ppm or greater shall be chained or marked to restrict entry.

F. Emergency Procedures

1. Spill or Release of H_2S gas

If a spill or leak releases H_2S the following action must be initiated and completed:

a. Internally – Employee contacts supervisor and HSE Department and performs “d” below.

b. Externally - Someone identifies a possible H_2S emergency and reports it to Company Management, via the listed phone number on posted facility signs.

c. The Company dispatches an employee to investigate possible H_2S emergency and will secure situation or initiate emergency call for backup.

d. If the Radius of Exposure has been breached begin the following:

- Establish safe command center.
- Call for additional personnel and delegate the following:
  - i. Notifying public safety agencies (Sheriff, Fire Department, Department of Public Safety, Hwy. Department).
  - ii. Safeguarding the facility and effected area.
  - iii. Blocking roads as needed.
  - iv. Notifying/evacuating public.
  - v. Notifying regulatory agencies.
  - vi. Gathering additional information about release ie., location, flowrate, quantity, etc.
  - vii. Stopping release if safe to do so (use 2 trained persons)
  - viii. Notifying company management.
  - ix. Cleanup/repair facilities.

e. Facility Standard Operating Procedure

- Evacuate the area, travel crosswind then proceed upwind.
- Gather at muster point. Ensure Primary Muster point is upwind
- Notify managers & appropriate EMS if required.
- Safely shut down (ESD) facility if the facility hasn't already shut in.
- Pick up SCBA (should be a 30 minute - 1 hour pack, located at Muster point.)
- Use buddy system for man down scenario with rescuers assigned.
  - 1 person to mask up to operate facility controls as needed.
  - 1 person for rescue if needed.
  - 1 person for calling EMS and company management
- Investigate area and isolate release of gas if safe to do and ensure closure using 4 gas monitor.
- If venting gas can't be isolated, return to muster point, and re-evaluate path forward.
- Give detailed description where/how gas is being released.
- After isolation verify that area monitors return to 0 and are not in alarm.
- Resume normal operations, once managers agree the ROOT CAUSE has been addressed and corrected.

G. Contacting Authorities

Company personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the NM Emergency Response Commission must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Spur Energy Partners response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER).

H. Call List

Spur Energy Partners Emergency Contact List			
Person	**Location**	**Office Phone**	**Cell Phone**
Drilling and Completions Department			
Drilling Manager - Chris Hollis	Houston	832-930-8629	713-380-7754
Completions Manager - Theresa Voss	Houston	832-930-8614	832-849-8635
VP of Operations - Seth Ireland	Houston	832-930-8527	940-704-6375
Senior VP of Operations - John Nabors	Houston	832-930-8526	281-904-8811
Executive VP of Operations - Todd Mucha	Houston	832-930-8515	281-795-2286
HES/Environmental and Regulatory Department			
EHS Manager - Braidy Moulder	Artesia	575-616-5400	713-264-2517
Superintendent - Jerry Mathews	Artesia	575-616-5400	575-748-5234
Asst. Superintendent - Kenny Kidd	Artesia	575-616-5400	575-703-5851
Regulatory Director - Sarah Chapman	Houston	832-930-8613	281-642-5503
Regulatory Agencies			
Bureau of Land Management	Carlsbad	575-886-6544	
Bureau of Land Management	Hobbs	575-393-3612	
Bureau of Land Management	Roswell	575-622-5335	
Bureau of Land Management	Santa Fe	505-954-2000	
DOT Judicial Pipelines - Incident Reporting NM Public Regulation Commission	Santa Fe	505-827-3549 505-490-2375	
EPA Hotline	Dallas	214-665-6444	
Federal OSHA, Area Office	Lubbock	806-472-7681	
National Response Center	Washington, D.C.	800-424-8803	
National Infrastructure Coordinator Center	Washington, D.C.	202-282-2901	
New Mexico Air Quality Bureau	Santa Fe	505-827-1494	
New Mexico Oil Conservation Division	Artesia	575-748-1283 575-370-7545After	
New Mexico Oil Conservation Division	Hobbs	575-393-6161	
New Mexico Oil Conservation Division	Santa Fe	505-476-3770	
New Mexico OCD Environmental Bureau	Santa Fe	505-827-7152 505-476-3470	
New Mexico Environmental Department	Hobbs	575-827-9329	
NM State Emergency Response Center	Santa Fe	505-476-9600	

Medical Facilities		
Artesia General Hospital	Artesia	575-748-3333
Covenant Medical Center	Lubbock	806-725-1011
Covenant Medical Center Lakeside	Lubbock	806-725-6000
Guadalupe County Hospital	Carlsbad	575-887-6633
Lea Regional Hospital	Hobbs	575-492-5000
Medical Center Hospital	Odessa	432-640-4000
Midland Memorial Hospital	Midland	432-685-1111
Nor-Lea General Hospital	Lovington	575-396-6611
Odessa Regional Hospital	Odessa	432-334-8200
Union County General Hospital	Clayton	575-374-2585
University Medical Center	Lubbock	806-725-8200
Law Enforcement - Sheriff		
Ector County Sheriff's Department	Odessa	432-335-3050
Ector County Sheriff's Department	Artesia	575-746-2704
Ector County Sheriff's Department	Carlsbad	575-887-7551
Lea County Sherrif's Department	Eunice	575-384-2020
Lea County Sherrif's Department	Hobbs	575-393-2515
Lea County Sherrif's Department	Lovington	575-396-3611
Lubbock County Sheriff's Department	Abernathy	806-296-2724
Midland County Sheriff's Department	Midland	432-688-1277
Union County Sheriff's Department	Clayton	575-374-2583
Law Enforcement - Police		
Abernathy Police Department	Abernathy	806-298-2545
Artesia City Police	Artesia	575-746-2704
Carlsbad City Police	Carlsbad	575-885-2111
Clayton City Police	Clayton	575-374-2504
Eunice City Police	Eunice	575-394-2112
Hobbs City Police	Hobbs	575-397-9265 575-393-2677
Jal City Police	Jal	575-395-2501
Lovington City Police	Lovington	575-396-2811

Midland City Police	Midland	432-685-7113
Odessa City Police	Odessa	432-335-3378
Law Enforcement - FBI		
FBI	Albuquerque	505-224-2000
FBI	Midland	432-570-0255
Law Enforcement - DPS (911)		
NM State Police	Artesia	575-746-2704
NM State Police	Carlsbad	575-885-3137
NM State Police	Eunice	575-392-5588
NM State Police	Hobbs	575-392-5588
NM State Police	Clayton	575-374-2473
Firefighting and Rescue (911)		
Abernathy	Abernathy	806-298-2022
Amistad/Rosebud	Amistad/Rosebud	575-633-9113
Artesia	Artesia	575-746-5751
Carlsbad	Carlsbad	575-885-3125
Clayton	Clayton	575-374-2435
Eunice	Eunice	575-394-2111
Hobbs	Hobbs	575-397-9308
Jal	Jal	575-395-2221
Lovington	Lovington	575-396-2359
Maljamar	Maljamar	575-676-4100
Midland	Midland	432-685-7346
Nara Visa	Nara Visa	575-461-3300
Odessa	Odessa	432-335-4659
Tucumcari	Tucumcari	911
West Odessa	Odessa	432-381-3033

Ambulance (911)		
Abernathy Ambulance	Abernathy	806-298-2241
Amistad/Rosebud	Amistad/Rosebud	575-633-9113
Artesia Ambulance	Artesia	575-746-2701
Carlsbad Ambulance	Carlsbad	575-885-2111
Clayton Ambulance	Clayton	575-374-2501
Eunice Ambulance	Eunice	575-394-3258
Hobbs Ambulance	Hobbs	575-397-9308
Jal Ambulance	Jal	575-395-3501
Lovington Ambulance	Lovington	575-396-2811
Midland Ambulance	Midland	432-685-7499
Nara Visa Ambulance	Nara Visa	575-461-3300
Odessa Ambulance	Odessa	432-335-3378
Tucumcari Ambulance	Tucumcari	911
Medical Air Ambulance Service		
AEROCARE - Methodist Hospital	Lubbock	800-627-2376
Southwest MediVac	Hobbs	800-242-6199
Odessa Care Star	Odessa	888-624-3571

I. List of Facilities with the potential for 500ppm or higher H2S exposure.

ATTACHMENT 1: SPUR FACILITIES WITH ROE REVIEW

ALASKA 29 FEE TANK BATTERY
ARABIAN 6 FEE TANK BATTERY
ARCO 26 A STATE OIL BATTERY
ARCO B FEDERAL COM NO. 001
ARKANSAS STATE 23 TANK BATTERY
AVALON FEDERAL #001
B&B/ROSS RANCH OIL TANK BATTERY
BC FEDERAL 10 (9-13) TNK BTY
BC FEDERAL 1-8 &14 TNK BTY
BC FEDERAL 42 TNK BTY
BEE FED OIL BATTERY
BEECH 25 FEDERAL #9H BATTERY
BEECH FEDERAL 1
BEECH FEDERAL 2 BATTERY
BERRY A FEDERAL #005 SWB
BERRY A FEDERAL PADD BATTERY
BIG BOY STATE TB
BLUETAIL 8 FEDERAL 2 TANK BATTERY
BONE YARD 11 FEE TANK BATTERY
BOOT HILL 25 1H SWB
BOSE IKARD 4 ST COM 18H BATTERY
BRANTLEY FEDERAL #001
BR-549 STATE BATTERY
BRADLEY 8 FEE #3H-BATTERY
BRADLEY 8 FEE BATTERY
BRAGG 10 FEE 1 BATTERY
BRIGHAM H 2
BRIGHAM H FED (NORTH) BATTERY
BURCH KEELY 13C TK BTY
BURCH KEELY 18A TK BATT
BURCH KEELY 19A OIL BATT
BURCH KEELY 23A TK BATT
BURCH KEELY EAST 18B TANK BAT
BURCH KEELY SEC 13A NORTH BTTY
BURCH KEELY SEC 13B SOUTH BTTY
BURCH KEELY UNIT CTB BTTY
BURCH KEELY UNIT E BATTERY
BURKETT 16 STATE
CADDO FEDERAL BATTERY
CADILLAC ST 4 BATTERY
CALIFORNIA 29 FEE 1
CARMEN 3 FEDERAL BATTERY
CARRINGTON 12 ST 3,4,7 BATTERY
CHASER 8 STATE 2 TANK BATTERY
CHEYENNE FEDERAL TNK BTY
CLYDESDALE 1 FEE #1H BAT
CLYDESDALE 1 FEE 6H - BATTERY
COAL TRAIN FEDERAL COM #1
COFFIN STATE #1
COLLIER 22 STATE COM #43H
COLLIER STATE OIL BATTERY
CONOCO 8 STATE 4 TB
CONTINENTAL A STATE TNK BTY
CONTINENTAL B YESO TANK BTY
CONTINENTAL STATE 15A TNK BTY
CRYPT 30 STATE #1H
DAGGER DRAW FED/FOSTER FED TANK BATTERY
DARNER 9 STATE 1 TANK BATTERY
DARNER 9 STATE 2
DARTER 9 STATE 8 TANK BATTERY
DARNER 9 STATE CTB
DEXTER FEDERAL PAD TNK BTY
DODD 10A OIL BATTERY
DODD 10B TK BTTY
DODD FED #14C TK BATT
DODD FED 11A BATTERY
DODD FED UNIT 980H BATTERY
DODD FEDERAL 14A-TB
DODD FEDERAL UNIT 15A BTTY
DODD FEDERAL UNIT NORTH BTTY
DODD FEDERAL UNIT SOUTH BTTY
DOGWOOD FEDERAL TNK BTY
DORAMI 33 FEDERAL COM 2H.4H.9H TANK BATTERY
EBONY STATE TB
EDWARD STATE TNK BTY
ELECTRA FEDERAL 33 (NORTH) BATTERY
ELECTRA FEDERAL 5 (SWEET) TNK BTY
ELECTRA FEDERAL SOUR TNK BTY
EMPIRE SOUTH DEEP UNIT 21
FALABELLA 31 FEE #1H TK BATT
FALABELLA 31 FEE 8H TK BTY
FAT TIRE 12 COM FEDERAL CTB
FEDERAL BA COM NO. 001
FEDERAL BB NO. 001
FLAT HEAD FED COM 6H TANK BATTERY
FLAT HEAD FED COM 27H TANK BATTERY

ATTACHMENT 1: SPUR FACILITIES WITH ROE REVIEW

FIR FEDERAL TNK BTY
FIRECRACKER STATE TB
FLEMMING STATE OIL BATTERY
FOLK FEDERAL B TNK BTY
FOLK FEDERAL TNK BTY
FOLK STATE TANK BATTERY
FORAN STATE OIL BATTERY
GC FEDERAL 11 TNK BTY
GC FEDERAL 27 TNK BTY
GC FEDERAL TNK BTY
GILLESPIE STATE OIL BATTERY
GISSLER FEDERAL 13H TANK BATT
GJ WEST COOP SOUTH TB
GJ WEST COOP UNIT 092 BTY
GJ WEST COOP UNIT 191 BTY
GJ WEST COOP UNIT 210 BTY
GJ WEST COOP UNIT CENTRAL
GJ WEST COOP UNIT N TNK BTY
GOLD STAR TNK BTY
GOODMAN 22 TANK BATTERY
GRAVE DIGGER FEDERAL COM TANK BATTERY
GRAVE DIGGER ST COM #3H TANK BATTERY
GRAVE DIGGER STATE COM #8H SWB
HALBERD 27 ST 3H BATTERY
HANOVER STATE #3 (YESO)
HARPER STATE TNK BTY
HARVARD FEDERAL TNK BTY
HATFIELD B TB
HEARSE 36 ST COM TANK BATTERY
HOBGOBLIN 7 FED COM 4H TK BAT
HOLDER CB 11 TNK BTY
HOLDER CB FEDERAL 6&7 TNK BTY
HOLIDAY
HOUMA STATE TNK BTY
HT 18 FED 01.05.04 TANK BATTERY
HT 18 FEDERAL 8
HUBER 10,11,12 FEDERAL OIL TANK BATTERY
HUBER 3 FEDERAL OIL TANK BATTERY
HUBER 5 FEDERAL OIL TANK BATTERY
HYDRUS 10 FED 03.07.08.11 TANK BATTERY
HYDRUS 10 FED 04.05 TANK BATTERY
HYDRUS 10 FED 06.09.10.12 TANK BATTERY
IMPERIAL STATE TNK BTY
IVAR THE BONELESS FED 11H - BATTERY
JC FEDERAL 13 TNK BTY
JC FEDERAL 2 (SOUR) TNK BTY
JC FEDERAL 27 TNK BTY
JENKINS B FEDERAL TNK BTY
JG STATE 16 1 TANK BATTERY
JG STATE 16 7 TANK BATTERY
JON BOB 1
JUNIPER STATE TNK BTY
KIOWA OIL BATTERY
KOOL AID STATE
LAKEWOOD NORTH TANK BATTERY
LAKEWOOD SOUTH TANK BATTERY
LARA MICHELLE STATE OIL BTTY
LEAKER CC STATE TB
LEE 3 FEE 6H - TK BATT
LIVE OAK TANK BATTERY
MALCO 23 FEDERAL COM #13H
MAPLE STATE
MARACAS 22 STATE TANK BATTERY
MARY FEDERAL OIL BATTERY
MAYARO 22 STATE TANK BATTERY
MC FEDERAL 14 TANK BATTERY
MC FEDERAL 6 DEVONIAN
MC FEDERAL PADDOCK TNK BTY
MC SOUTHEAST BATTERY
MC STATE OIL BATTERY
MCCOY STATE TB
MCINTYRE A EAST TANK BATTERY
MCINTYRE B 10
MCINTYRE B 4
MCINTYRE B TNK BTY
MCINTYRE DK 15 TNK BTY
MCINTYRE DK FEDERAL 28H SWB
MEADOWHAWK 5 FEDERAL 3
MELROSE FEDERAL TNK BTY
MERAK 7 FEDERAL 8 TANK BATTERY
MESILLA STATE 3 & 5 TNK BTY
MESILLA STATE TNK BTY
MESQUITE STATE TANK BATTERY
MIMOSA STATE TNK BTY
MIRANDA FEDERAL B TNK BTY
MIRANDA FEDERAL TB

ATTACHMENT 1: SPUR FACILITIES WITH ROE REVIEW

MOE FEDERAL OIL BATTERY
MOHAWK FEDERAL TNK BTY
MONCRIEF 3 OIL BATTERY
MOORE STATE OIL BATTERY
MORRIS BOYD 26 FEE COM 1H
MORRIS BOYD TANK BATTERY
MORRIS E & F TANK BATTERY
MUSKEGON SOUTH STATE OIL BATTERY
NAVAHO FEDERAL TNK BTY
NELSON 13.23. TNK BATT
NEWCASTLE 6 FED COM - TANK BATTERY
NIRVANA TANK BATTERY
NOOSE FED 10 TANK BATTERY
NOOSE FED 5 TANK BATTERY
OKLAHOMA 32 TANK BATTERY
OSAGE BOYD 15 FED 09.12.13.14 TANK BATTERY
OSAGE BOYD YESO TANK BATTERY
PAINT 32 FEE OIL BATTERY
PAN CANADIAN A2-B3 TANK BATTERY
PASSION 1 FED PDK 5H TK BATT
PATTON 5 FEE 2H OIL BATTERY
PATTON 5 FEE 8H OIL BATTERY
PAWNEE STATE TNK BTY
PEACEMAKER 25 FEDERAL TANK BATTERY
PERE MARQUETTE 18 FEDERAL 1 TANK BATTERY
PILUM 15 FEE 2H BATTERY
PINTO 36 STATE COM 1H TNK BTY
PINTO 36 STATE COM 4H TNK BTY
PINTO 36 STATE TB
POLARIS B 5-10 TANK BTTY
POSEIDON 3 FEDERAL 4 TANK BATTERY
POSEIDON 3 FEDERAL 05.07.17.18 TANK BATTERY
PUCKETT 13 FEDERAL COM 35H
PUCKETT 13 FEDERAL TB
RAGNAR FED COM 25H - BATTERY
RANDALL FED 3 BATTERY
RED LAKE 32 TANK BATTERY
REDBUD FEDERAL TNK BTY
RINCON STATE TANK BATTERY
RJ UNIT NORTH TANK BATTERY
RJ UNIT SOUTH TANK BATTERY
RONCO FEDERAL #1
ROSE 02.03.04.05.06 TANK BATTERY
ROSE SOUTH TANK BATTERY
ROSS RANCH 09.13.14 BATTERY
SAM ADAMS 12 FED 4H UBB TK BATT
SANDY CROSSING 32 STATE COM 1
SCHLEY FEDERAL TNK BTY
SHAWNEE FEDERAL TNK BTY
SHELBY 23 BATTERY
SHERMAN 4 FEE 4H BATTERY
SHERMAN 4 FEE 6H BATTERY
SHORTY 2 STATE COM TANK BATTERY
SINCLAIR PARKE (PADDOCK) TNK BTY
SKELLY 605 BATTERY
SKELLY 942 BATTERY
SKELLY 968 BATTERY
SKELLY 973 BATTERY
SKELLY 989 BATTERY
SKELLY UNIT 907 CTB BATTERY
SKELLY UNIT 940 BATTERY
SOUTH BOYD FED COM OIL TANK BATTERY
SOUTH EMPIRE STATE COM 1
SPIKETAIL 5 STATE 2 TANK BATTERY
SPRUCE FEDERAL TNK BTY
STATE B GAS COM NO. 001
STATE S-19 YESO (SOUR) TNK BTY
STONEWALL 9 FEE #1H TBAT
STONEWALL 9 FEE 8H BATTERY
SUBMARINE 10 FED COM 2H OIL BAT
TAYLOR D TANK BATTEY
TENNECO STATE TNK BTY
TEX MACK FED
TEXACO BE TNK BTY
TEXAS 32 FEE TANK BATTERY
TEXMACK 36 STATE COM #1
TH STATE #1
THO STATE OIL BATTRY
THORNTAIL 31 FEDERAL 1
THUNDER ROAD FEDERAL OIL BTTY
TUMAK FED 3 BAT
VEGA 9 FED TANK BATTERY
VT 36 STATE #1H
W D MCINTYRE C 10
WAUKEE 36 STATE COME CTB
WD MCINTYRE C 8-9 TNK BTY

ATTACHMENT 1: SPUR FACILITIES WITH ROE REVIEW

WD MCINTYRE E TNK BTY
WELCH A 28 10.20.50 CTB
WESTERN FEDERAL TNK BTY
WHITE OAK STATE B TB
WHITE OAK STATE TNK BTY
WHITE STAR FEDERAL TNK BTY
WICHITA STATE TNK BTY
WILLOW STATE TNK BTY
YALE B OIL BATTERY
YALE STATE TANK BTY
YUCCA STATE TNK BTY

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