

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.	
2. Name of Operator		9. API Well No. 30-015-56425	
3a. Address		3b. Phone No. (include area code)	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		10. Field and Pool, or Exploratory 11. Sec., T. R. M. or Blk. and Survey or Area	
14. Distance in miles and direction from nearest town or post office*		12. County or Parish	
13. State			
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)		16. No of acres in lease	
17. Spacing Unit dedicated to this well			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.		19. Proposed Depth	
20. BLM/BIA Bond No. in file			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		22. Approximate date work will start*	
23. Estimated duration			
24. Attachments			
The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)			
1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).		4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the BLM.	
25. Signature		Name (Printed/Typed)	
Title		Date	
Approved by (Signature)		Name (Printed/Typed)	
Title		Office	
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.			

(Continued on page 2)

*(Instructions on page 2)



C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☒ Initial Submittal
			☐ Amended Report
			☐ As Drilled

WELL LOCATION INFORMATION

API Number 30-015-56425	Pool Code 96830 96836	Pool Name Artesia; Glorieta-Yeso (O) RED LAKE; GLORIETA-YESO, NORTHEAST
Property Code 337174	Property Name SMITHDALE 29 FEDERAL COM	Well Number 71H
OGRID No. 328947	Operator Name SPUR ENERGY PARTNERS LLC.	Ground Level Elevation 3614'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL I	Section 30	Township 17S	Range 28E	Lot	Ft. from N/S 1570 FSL	Ft. from E/W 689 FEL	Latitude 32.8021624°N	Longitude 104.2086298°W	County EDDY
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Bottom Hole Location

UL P	Section 29	Township 17S	Range 28E	Lot	Ft. from N/S 500 FSL	Ft. from E/W 50 FEL	Latitude 32.7994519°N	Longitude 104.1895993°W	County EDDY
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Dedicated Acres 320	Infill or Defining Well INFILL	Defining Well API PENDING	Overlapping Spacing Unit (Y/N) N	Consolidation Code C & F
Order Numbers. PENDING			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL P	Section 30	Township 17S	Range 28E	Lot	Ft. from N/S 643 FSL	Ft. from E/W 719FEL	Latitude 32.7996153°N	Longitude 104.2087513°W	County EDDY
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First Take Point (FTP)

UL M	Section 29	Township 17S	Range 28E	Lot	Ft. from N/S 500 FSL	Ft. from E/W 100 FWL	Latitude 32.7992382°N	Longitude 104.2060908°W	County EDDY
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Last Take Point (LTP)

UL P	Section 29	Township 17S	Range 28E	Lot	Ft. from N/S 500 FSL	Ft. from E/W 100 FEL	Latitude 32.7994498°N	Longitude 104.1897620°W	County EDDY
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Unitized Area or Area of Uniform Interest Y	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3614' GF
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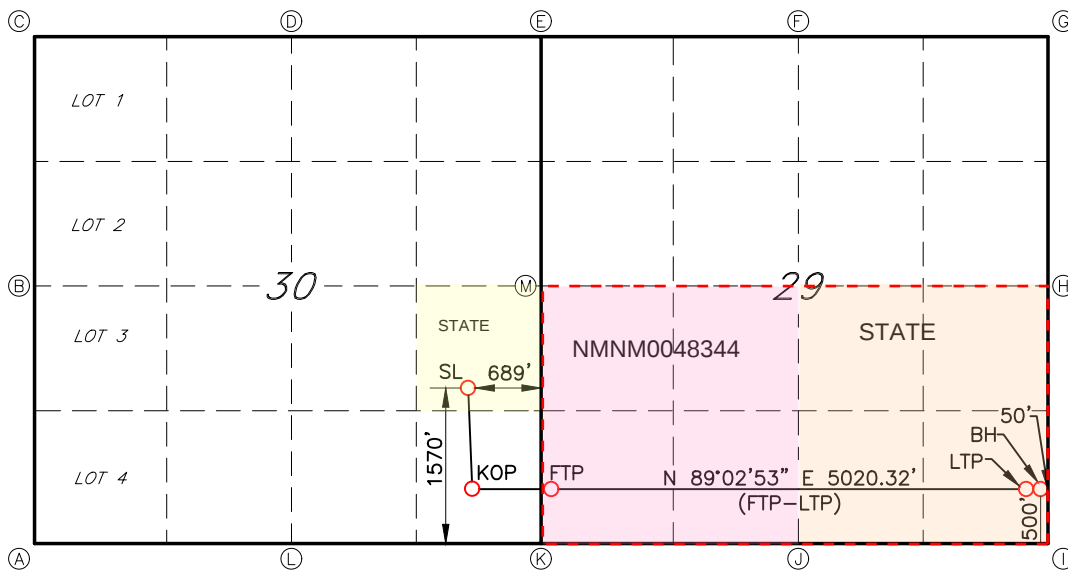
OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and , if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i> Sarah Chapman 01/06/2025 Signature Date SARAH CHAPMAN Printed Name SCHAPMAN@SPURENERGY.COM Email Address		SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me under my supervision, and that the same is true and correct to the best of my belief.</i>  Signature and Seal of Professional Surveyor Certificate Number 14400 Date of Survey 10/31/2024	
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ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is a directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

SMITHDALE 29 FEDERAL COM #71H



GEODETIC DATA
NAD 83 GRID - NM EAST
SURFACE LOCATION (SL)
N: 655581.7 - E: 579653.8

LAT: 32.8021624° N
LON: 104.2086298° W

KICK OFF POINT (KOP)
500' FSL & 719' FEL (SEC. 30)
N: 654655.0 - E: 579617.5

LAT: 32.7996153° N
LON: 104.2087513° W

FIRST TAKE POINT (FTP)
500' FSL & 100' FWL (SEC. 29)
N: 654518.8 - E: 580435.2

LAT: 32.7992382° N
LON: 104.2060908° W

LAST TAKE POINT (LTP)
500' FSL & 100' FWL (SEC. 29)
N: 654602.2 - E: 585452.4

LAT: 32.7994498° N
LON: 104.1897620° W

BOTTOM HOLE (BH)
N: 654603.0 - E: 585502.4

LAT: 32.7994519° N
LON: 104.1895993° W

CORNER DATA NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1941"
N: 653983.4 - E: 575058.5

B: FOUND BRASS CAP "1941"
N: 656625.0 - E: 575043.2

C: FOUND BRASS CAP "1941"
N: 659266.3 - E: 575026.6

D: FOUND BRASS CAP "1941"
N: 659287.7 - E: 577748.5

E: FOUND BRASS CAP "1941"
N: 659309.9 - E: 580369.6

F: FOUND BRASS CAP "1941"
N: 659304.4 - E: 582986.4

G: FOUND BRASS CAP "1941"
N: 659297.8 - E: 585602.6

H: FOUND BRASS CAP "1941"
N: 656702.1 - E: 585573.1

I: FOUND BRASS CAP "1941"
N: 654104.0 - E: 585547.5

J: FOUND BRASS CAP "1941"
N: 654060.8 - E: 582941.9

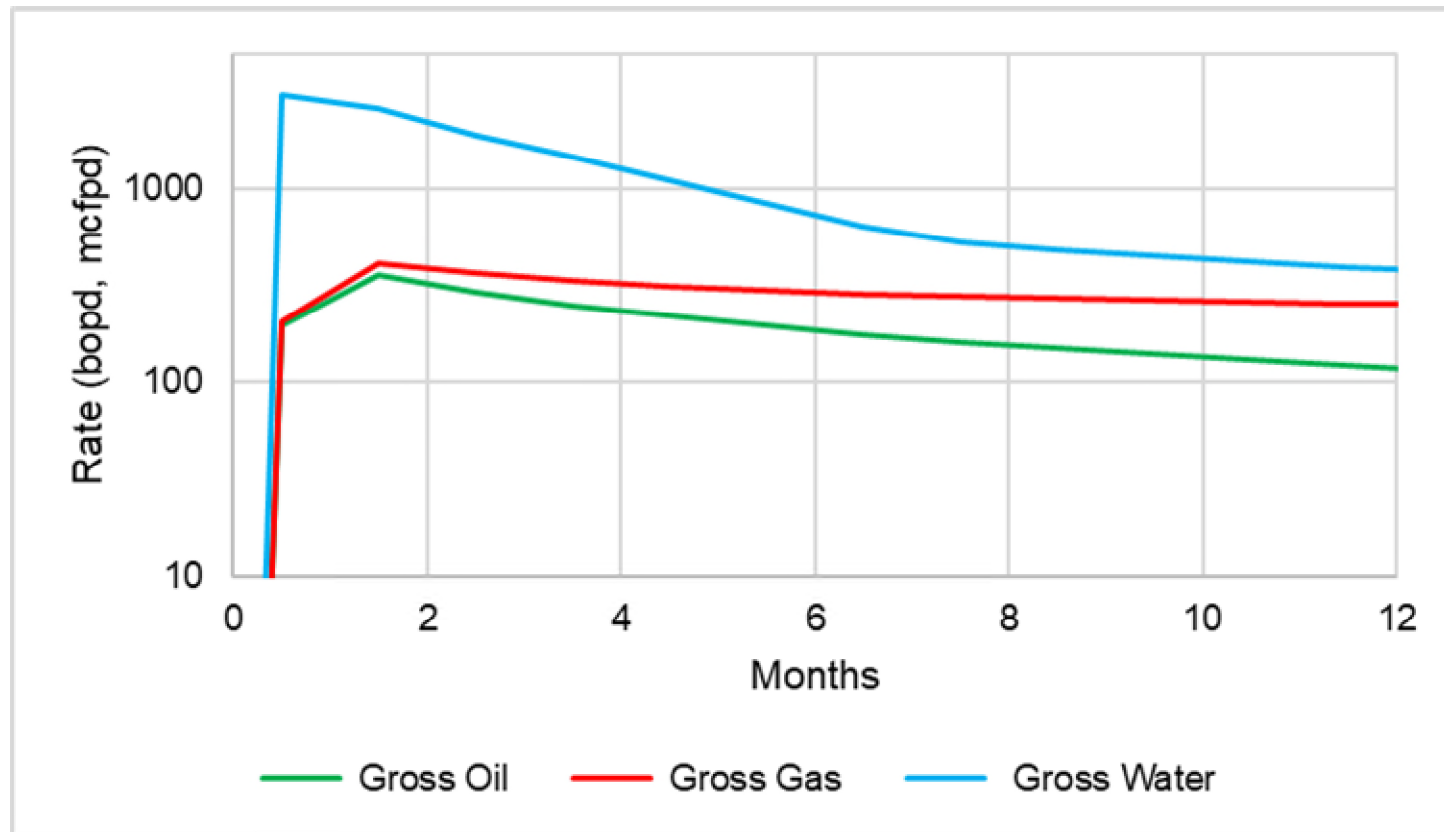
K: FOUND BRASS CAP "1941"
N: 654017.3 - E: 580331.9

L: FOUND BRASS CAP "1941"
N: 653999.6 - E: 577752.7

M: FOUND BRASS CAP "1941"
N: 656663.6 - E: 580349.6



Loco Hills Blinebry Type Curve



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:** 01/06/2025

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
SMITHDALE 29 FEDERAL COM 50H	30-015-	I-30-17S-28E	1586' FSL 726' FEL	417 BBL/D	671 MCF/D	1669 BBL/D
SMITHDALE 29 FEDERAL COM 70H	30-015-	I-30-17S-28E	1602' FSL 762' FEL	417 BBL/D	671 MCF/D	1669 BBL/D
SMITHDALE 29 FEDERAL COM 71H	30-015-	I-30-17S-28E	1570' FSL 689' FEL	417 BBL/D	671 MCF/D	1669 BBL/D
SMITHDALE 29 FEDERAL COM 90H	30-015-	I-30-17S-28E	1594' FSL 744' FEL	323 BBL/D	329 MCF/D	1291 BBL/D
SMITHDALE 29 FEDERAL COM 91H	30-015-	I-30-17S-28E	1578' FSL 707' FEL	323 BBL/D	329 MCF/D	1291 BBL/D

IV. Central Delivery Point Name: SMITHDALE 29 FEDERAL 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
SMITHDALE 29 FEDERAL COM 50H	30-015-	09/28/2025	10/04/2025	11/06/2025	11/20/2025	12/05/2025
SMITHDALE 29 FEDERAL COM 70H	30-015-	10/04/2025	10/10/2025	11/06/2025	11/20/2025	12/05/2025
SMITHDALE 29 FEDERAL COM 71H	30-015-	10/10/2025	10/16/2025	11/06/2025	11/20/2025	12/05/2025
SMITHDALE 29 FEDERAL COM 90H	30-015-	10/16/2025	10/22/2025	11/06/2025	11/20/2025	12/05/2025
SMITHDALE 29 FEDERAL COM 91H	30-015-	10/22/2025	10/28/2025	11/06/2025	11/20/2025	12/05/2025

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature:	<i>Sarah Chapman</i>
Printed Name:	SARAH CHAPMAN
Title:	REGULATORY DIRECTOR
E-mail Address:	SCHAPMAN@SPUREENERGY.COM
Date:	01/06/2025
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 igniter 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.

Spur Energy Partners LLC – Smithdale 29 Federal Com 71H

1. Geologic Formations

TVD of Target	4,310'
MD at TD	9,851'

Formation	Depth	Lithology	Expected Fluids
Quaternary	0'	Dolomite, other: Caliche	Useable Water
Tansill	195'	Sandstone, Dolomite	None
Yates	285'	Dolomite, Limestone, Shale, Siltstone	None
Seven Rivers	530'	Dolomite, Limestone	Natural Gas, Oil
Queen	1085'	Anhydrite, Dolomite, Sandstone	Natural Gas, Oil
Penrose	1265'	Dolomite, Sandstone	Natural Gas, Oil
Grayburg	1530'	Anhydrite	Natural Gas, Oil
San Andres	1810'	Dolomite	Natural Gas, Oil
Glorieta	3190'	Dolomite, Siltstone	Natural Gas, Oil
Paddock	3290'	Dolomite, Limestone	Natural Gas, Oil
Blinberry	3785'	Dolomite, Limestone	Natural Gas, Oil
Tubb	4725'	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 (lbs)	Grade	Conn.	SF	SF Burst	Body SF	Joint SF
		From (ft)	To (ft)					Collapse		Tension	Tension
San Andres	12.25	0	1000	9.625	36	J-55	BTC	1.125	1.2	1.4	1.4
N/A	8.75	0	4550	7	32	L-80	BK-HT	1.125	1.2	1.4	1.4
Yeso	8.75	4550	9851	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 – Smithdale 29 Federal Com 71H

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

3. Cementing Program

Casing String	Top (ft)	Bottom (ft)	% Excess
Surface (Lead)	0	950	100%
Surface (Tail)	950	1000	100%
Production (Lead)	0	3550	100%
Production (Tail)	3550	9851	25%

Casing String	# Sks	Wt. (lb/gal)	Yld (ft3/sack)	H2O (gal/sk)	500# Comp. Strength (hours)	Slurry Description
Surface (Lead)	259	12	2.4	13.48	8:12	Clas C Premium Plus Cement
Surface (Tail)	27	13.2	1.87	9.92	6:59	Clas C Premium Plus Cement
Production (Lead)	386	11.4	2.42	15.29	N/A	Clas C Premium Plus Cement
Production (Tail)	1197	13.2	1.56	9.81	N/A	Clas C Premium Plus Cement

Spur Energy Partners LLC – Smithdale 29 Federal Com 71H**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	1995 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.

Spur Energy Partners LLC – Smithdale 29 Federal Com 71H

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	1000	Water-Based Mud	8.6-8.9	32-36	N/C
1000	9851	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 – Smithdale 29 Federal Com 71H**7. Logging and Testing Procedures**

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

8. Drilling Conditions

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

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

Total estimated cuttings volume: 878.5 bbls.

Spur Energy Partners LLC – Smithdale 29 Federal Com 71H**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

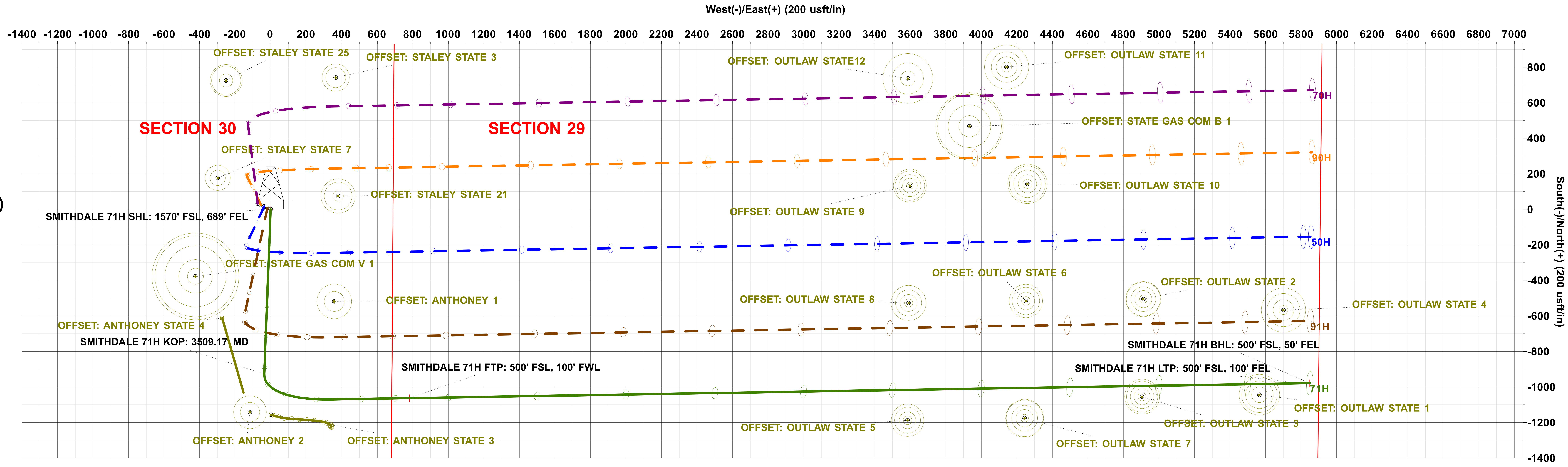
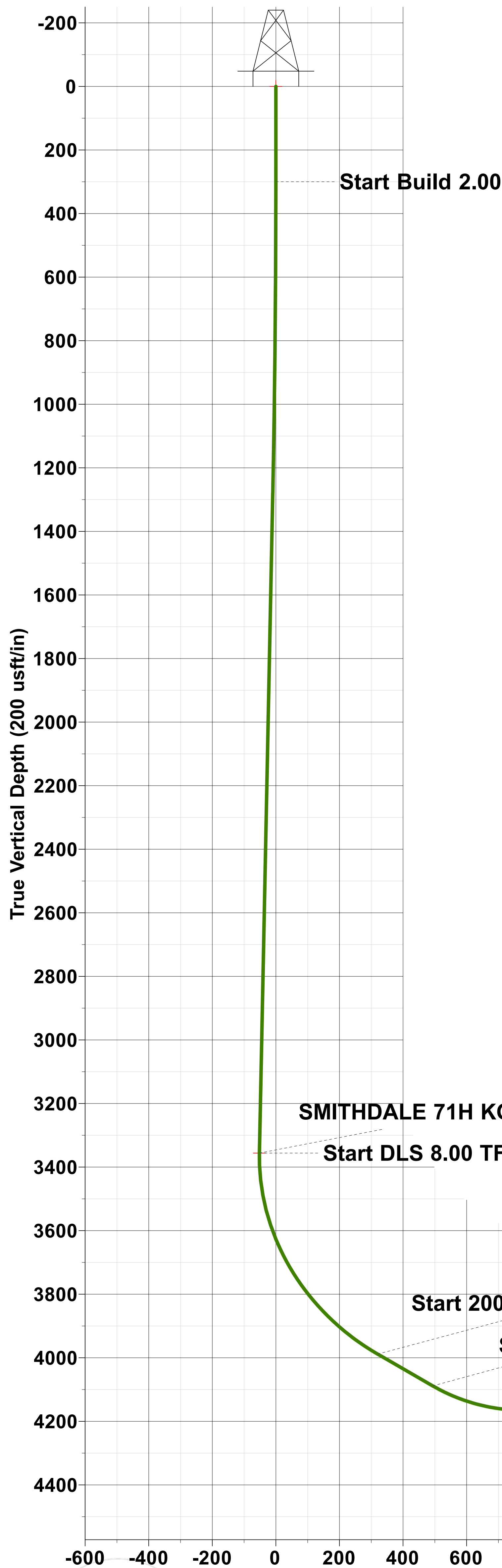
- ☒ Directional Plan
☒ H2S Contingency Plan
☒ Akita 57 Attachments
☒ BOP Schematics
☒ Transcend Spudder Rig Attachments

10. Company Personnel

Name	Title	Office Phone	Mobile Phone
Christopher Hollis	D&C Manager	832-930-8629	713-380-7754
Ryan Barber	Senior D&C Engineer	832-930-8502	832-544-9267
Johnny Nabors	EVP Operations	832-930-8502	281-904-8811



Project: EDDY COUNTY, NM (NAD 83 - NME)
Site: SMITHDALE 29 FEDERAL
Well: 71H
Wellbore: OH
Design: PERMIT

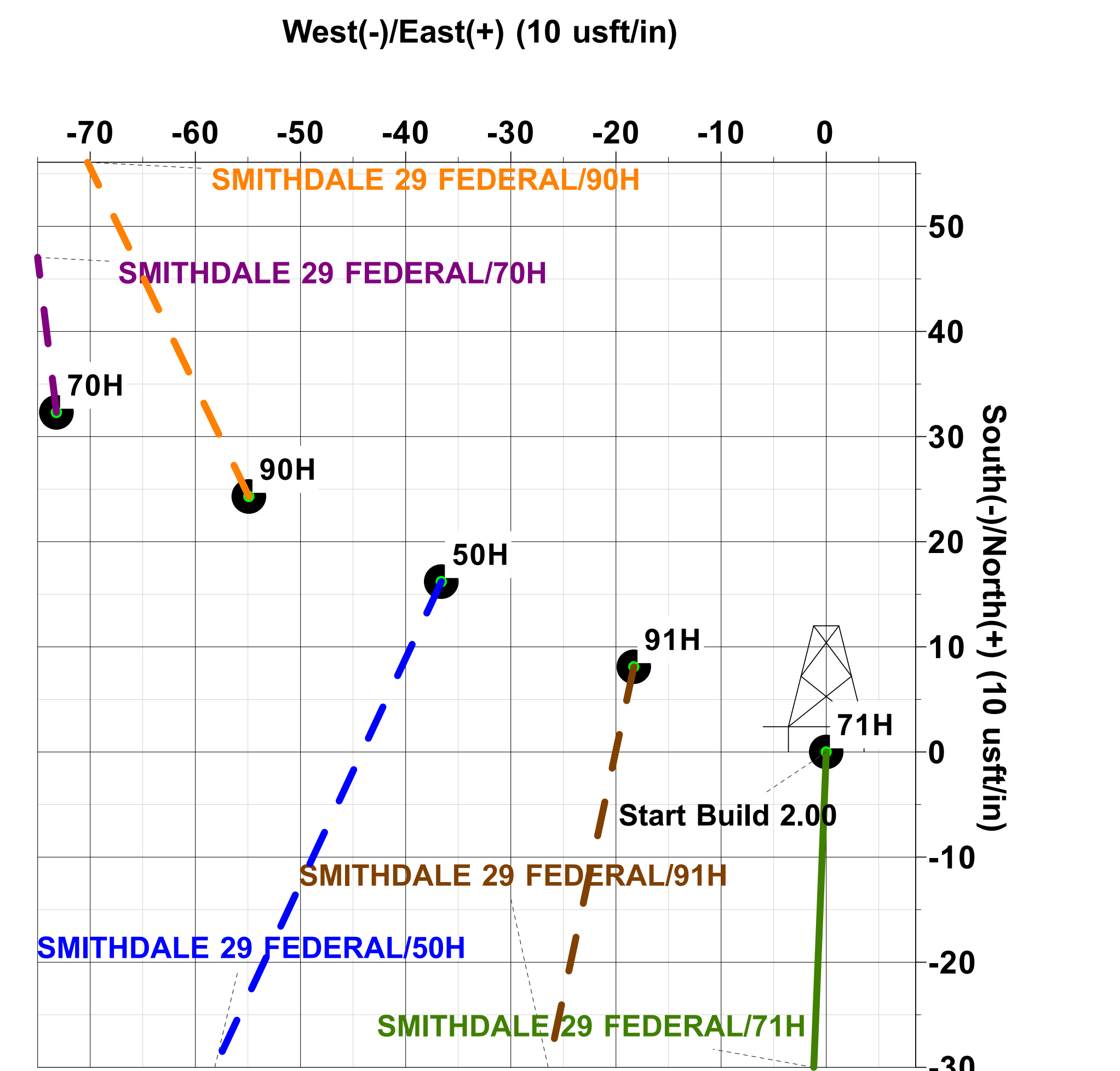
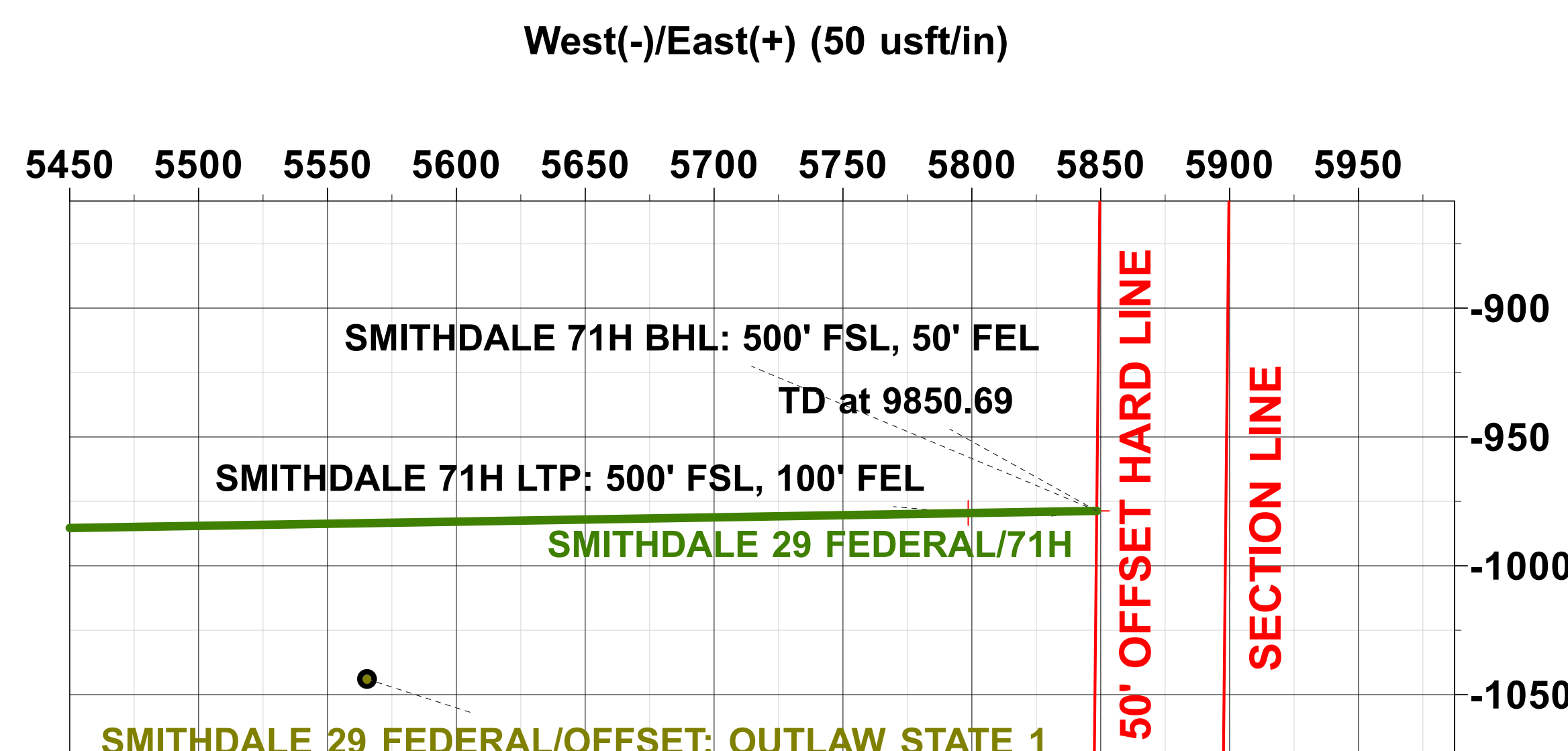
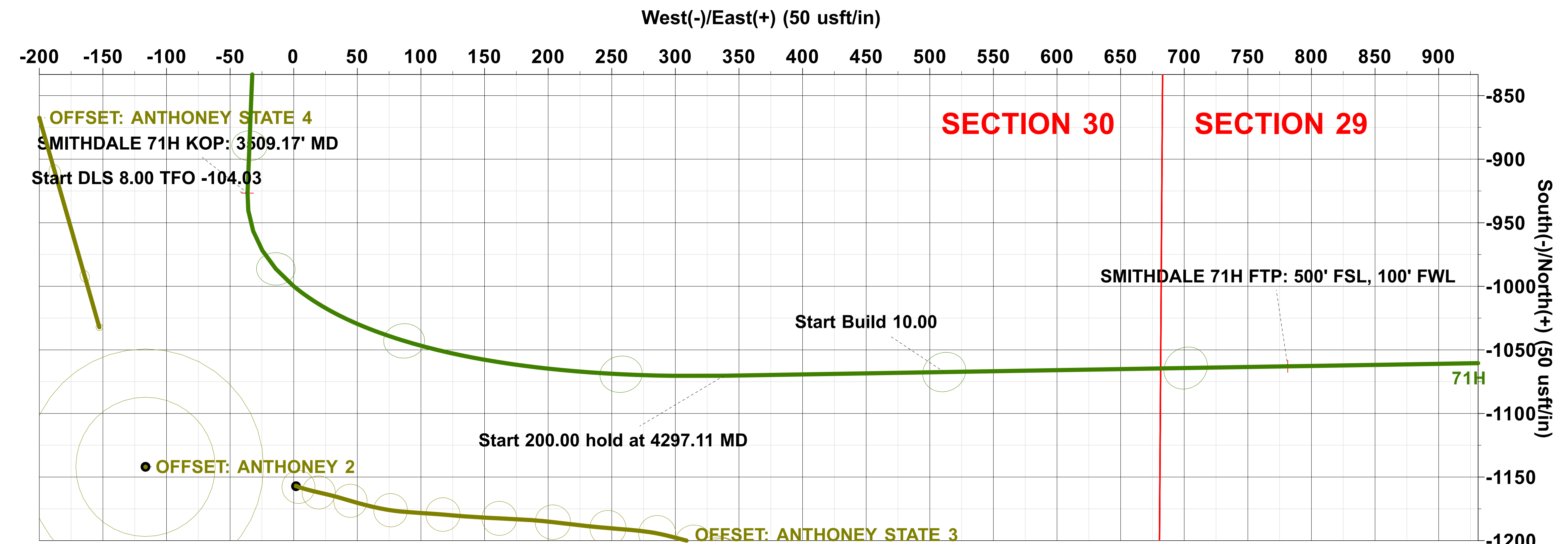


WELL DETAILS: 71H								
Rig Name:		AKITA 57		RKB = 20' @ 3634.00usft (AKITA 57)				
				3614.00				
+N/-S	+E/-W	Northing		Easting		Latitude		Longitude
0.00	0.00	655581.70		579653.80		32.80216		-104.20863
SECTION DETAILS								
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00
3	1298.67	19.97	182.24	1278.57	-172.18	-6.74	2.00	-9.59
4	3509.17	19.97	182.24	3356.11	-926.68	-36.26	0.00	-51.62
5	4297.11	60.00	89.05	3988.47	-1070.27	338.16	8.00	320.37
6	4497.11	60.00	89.05	4088.47	-1067.39	511.34	0.00	493.58
7	4780.72	88.36	89.05	4165.00	-1062.90	781.40	10.00	763.67
8	9800.67	88.36	89.05	4308.57	-979.53	5798.60	0.00	5781.56
9	9850.69	88.36	89.05	4310.00	-978.70	5848.60	0.00	5831.57

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	
SMITHDALE 71H BHL: 500' FSL, 50' FEL	4310.00	-978.70	5848.60	654603.00	585502.40	
SMITHDALE 71H FTP: 500' FSL, 100' FWL	4165.00	-1062.90	781.40	654518.80	580435.20	
SMITHDALE 71H KOP: 3509.17' MD	3356.11	-926.68	-36.26	654655.02	579617.54	
SMITHDALE 71H LTP: 500' FSL, 100' FEL	4308.57	-979.50	5798.60	654602.20	585452.40	
SMITHDALE 71H SHL: 1570' FSL, 689' FEL	0.00	0.00	0.00	655581.70	579653.80	

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



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Plan: PERMIT (71H/OH)

Created By: PROTOTYPE WELL PLANNING / Date: 7:37, December 18 2024

SPUR ENERGY PARTNERS, LLC

EDDY COUNTY, NM (NAD 83 - NME)

SMITHDALE 29 FEDERAL

71H

OH

Plan: PERMIT

Standard Planning Report

17 December, 2024

Planning Report

Database:	EDM 5000.17 Single User Db	Local Co-ordinate Reference:	Well 71H
Company:	SPUR ENERGY PARTNERS, LLC	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Project:	EDDY COUNTY, NM (NAD 83 - NME)	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site:	SMITHDALE 29 FEDERAL	North Reference:	Grid
Well:	71H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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		

Well	71H			
Well Position	+N/-S	0.00 usft	Northing:	655,581.70 usft
	+E/-W	0.00 usft	Easting:	579,653.80 usft
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft
Grid Convergence:		0.07 °	Ground Level:	3,614.00 usft

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	89.05

Plan Survey Tool Program	Date	12/17/2024		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	9,850.69 PERMIT (OH)	MWD+IFR1+SAG+FDIR	
			OWSG MWD + IFR1 + Sag	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/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	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,298.67	19.97	182.24	1,278.57	-172.18	-6.74	2.00	2.00	0.00	182.24	
3,509.18	19.97	182.24	3,356.11	-926.68	-36.26	0.00	0.00	0.00	0.00	
4,297.11	60.00	89.05	3,988.47	-1,070.27	338.16	8.00	5.08	-11.83	-104.03	
4,497.11	60.00	89.05	4,088.47	-1,067.39	511.34	0.00	0.00	0.00	0.00	
4,780.72	88.36	89.05	4,165.00	-1,062.90	781.40	10.00	10.00	0.00	0.00	SMITHDALE 71H F
9,800.67	88.36	89.05	4,308.57	-979.53	5,798.60	0.00	0.00	0.00	0.00	SMITHDALE 71H L
9,850.70	88.36	89.05	4,310.00	-978.70	5,848.60	0.00	0.00	0.00	0.00	SMITHDALE 71H E

Planning Report

Database:	EDM 5000.17 Single User Db	Local Co-ordinate Reference:	Well 71H
Company:	SPUR ENERGY PARTNERS, LLC	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Project:	EDDY COUNTY, NM (NAD 83 - NME)	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site:	SMITHDALE 29 FEDERAL	North Reference:	Grid
Well:	71H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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
SMITHDALE 71H SHL: 1570' FSL, 689' 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	182.24	399.98	-1.74	-0.07	-0.10	2.00	2.00	0.00
500.00	4.00	182.24	499.84	-6.97	-0.27	-0.39	2.00	2.00	0.00
600.00	6.00	182.24	599.45	-15.68	-0.61	-0.87	2.00	2.00	0.00
700.00	8.00	182.24	698.70	-27.86	-1.09	-1.55	2.00	2.00	0.00
800.00	10.00	182.24	797.47	-43.49	-1.70	-2.42	2.00	2.00	0.00
900.00	12.00	182.24	895.62	-62.55	-2.45	-3.48	2.00	2.00	0.00
1,000.00	14.00	182.24	993.06	-85.03	-3.33	-4.74	2.00	2.00	0.00
1,100.00	16.00	182.24	1,089.64	-110.89	-4.34	-6.18	2.00	2.00	0.00
1,200.00	18.00	182.24	1,185.27	-140.11	-5.48	-7.80	2.00	2.00	0.00
1,298.67	19.97	182.24	1,278.57	-172.18	-6.74	-9.59	2.00	2.00	0.00
1,300.00	19.97	182.24	1,279.82	-172.64	-6.76	-9.62	0.00	0.00	0.00
1,400.00	19.97	182.24	1,373.80	-206.77	-8.09	-11.52	0.00	0.00	0.00
1,500.00	19.97	182.24	1,467.79	-240.90	-9.43	-13.42	0.00	0.00	0.00
1,600.00	19.97	182.24	1,561.77	-275.03	-10.76	-15.32	0.00	0.00	0.00
1,700.00	19.97	182.24	1,655.76	-309.17	-12.10	-17.22	0.00	0.00	0.00
1,800.00	19.97	182.24	1,749.74	-343.30	-13.43	-19.12	0.00	0.00	0.00
1,900.00	19.97	182.24	1,843.73	-377.43	-14.77	-21.03	0.00	0.00	0.00
2,000.00	19.97	182.24	1,937.71	-411.56	-16.11	-22.93	0.00	0.00	0.00
2,100.00	19.97	182.24	2,031.70	-445.69	-17.44	-24.83	0.00	0.00	0.00
2,200.00	19.97	182.24	2,125.68	-479.83	-18.78	-26.73	0.00	0.00	0.00
2,300.00	19.97	182.24	2,219.67	-513.96	-20.11	-28.63	0.00	0.00	0.00
2,400.00	19.97	182.24	2,313.65	-548.09	-21.45	-30.53	0.00	0.00	0.00
2,500.00	19.97	182.24	2,407.64	-582.22	-22.78	-32.43	0.00	0.00	0.00
2,600.00	19.97	182.24	2,501.62	-616.36	-24.12	-34.34	0.00	0.00	0.00
2,700.00	19.97	182.24	2,595.61	-650.49	-25.46	-36.24	0.00	0.00	0.00
2,800.00	19.97	182.24	2,689.59	-684.62	-26.79	-38.14	0.00	0.00	0.00
2,900.00	19.97	182.24	2,783.58	-718.75	-28.13	-40.04	0.00	0.00	0.00
3,000.00	19.97	182.24	2,877.56	-752.89	-29.46	-41.94	0.00	0.00	0.00
3,100.00	19.97	182.24	2,971.55	-787.02	-30.80	-43.84	0.00	0.00	0.00
3,200.00	19.97	182.24	3,065.53	-821.15	-32.13	-45.74	0.00	0.00	0.00
3,300.00	19.97	182.24	3,159.52	-855.28	-33.47	-47.65	0.00	0.00	0.00
3,400.00	19.97	182.24	3,253.50	-889.42	-34.81	-49.55	0.00	0.00	0.00
3,509.17	19.97	182.24	3,356.11	-926.68	-36.26	-51.62	0.00	0.00	0.00
SMITHDALE 71H KOP: 3509.17' MD									
3,550.00	19.43	172.68	3,394.56	-940.39	-35.67	-51.26	8.00	-1.33	-23.43
3,600.00	19.48	160.65	3,441.72	-956.51	-31.85	-47.70	8.00	0.09	-24.06
3,650.00	20.29	149.12	3,488.76	-971.82	-24.63	-40.74	8.00	1.64	-23.06
3,700.00	21.80	138.78	3,535.44	-986.25	-14.06	-30.41	8.00	3.01	-20.68
3,750.00	23.86	129.92	3,581.53	-999.73	-0.18	-16.76	8.00	4.12	-17.71
3,800.00	26.34	122.52	3,626.82	-1,012.19	16.94	0.15	8.00	4.97	-14.80
3,850.00	29.15	116.39	3,671.07	-1,023.57	37.21	20.23	8.00	5.61	-12.28
3,900.00	32.18	111.27	3,714.08	-1,033.81	60.53	43.38	8.00	6.07	-10.22
3,950.00	35.39	106.98	3,755.64	-1,042.88	86.80	69.50	8.00	6.42	-8.59
4,000.00	38.73	103.32	3,795.54	-1,050.71	115.88	98.45	8.00	6.68	-7.31
4,050.00	42.17	100.16	3,833.58	-1,057.28	147.64	130.09	8.00	6.88	-6.31
4,100.00	45.68	97.40	3,869.59	-1,062.55	181.91	164.27	8.00	7.03	-5.52
4,150.00	49.26	94.96	3,903.39	-1,066.49	218.53	200.82	8.00	7.14	-4.89
4,200.00	52.87	92.77	3,934.81	-1,069.09	257.33	239.57	8.00	7.24	-4.39
4,250.00	56.53	90.78	3,963.70	-1,070.34	298.11	280.32	8.00	7.31	-3.98

Planning Report

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Site:	SMITHDALE 29 FEDERAL	North Reference:	Grid
Well:	71H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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)
4,297.11	60.00	89.05	3,988.47	-1,070.27	338.16	320.37	8.00	7.37	-3.67
4,300.00	60.00	89.05	3,989.92	-1,070.22	340.67	322.87	0.00	0.00	0.00
4,400.00	60.00	89.05	4,039.92	-1,068.78	427.26	409.48	0.00	0.00	0.00
4,497.11	60.00	89.05	4,088.47	-1,067.39	511.34	493.58	0.00	0.00	0.00
4,500.00	60.29	89.05	4,089.91	-1,067.35	513.85	496.08	10.00	10.00	0.00
4,550.00	65.29	89.05	4,112.77	-1,066.61	558.30	540.54	10.00	10.00	0.00
4,600.00	70.29	89.05	4,131.66	-1,065.84	604.57	586.81	10.00	10.00	0.00
4,650.00	75.29	89.05	4,146.45	-1,065.05	652.31	634.56	10.00	10.00	0.00
4,700.00	80.29	89.05	4,157.02	-1,064.23	701.15	683.41	10.00	10.00	0.00
4,750.00	85.29	89.05	4,163.30	-1,063.41	750.73	733.00	10.00	10.00	0.00
4,780.72	88.36	89.05	4,165.00	-1,062.90	781.40	763.67	10.00	10.00	0.00
SMITHDALE 71H FTP: 500' FSL, 100' FWL									
4,800.00	88.36	89.05	4,165.55	-1,062.58	800.67	782.94	0.00	0.00	0.00
4,900.00	88.36	89.05	4,168.41	-1,060.92	900.61	882.90	0.00	0.00	0.00
5,000.00	88.36	89.05	4,171.27	-1,059.26	1,000.56	982.86	0.00	0.00	0.00
5,100.00	88.36	89.05	4,174.13	-1,057.60	1,100.50	1,082.82	0.00	0.00	0.00
5,200.00	88.36	89.05	4,176.99	-1,055.94	1,200.45	1,182.78	0.00	0.00	0.00
5,300.00	88.36	89.05	4,179.85	-1,054.28	1,300.39	1,282.74	0.00	0.00	0.00
5,400.00	88.36	89.05	4,182.71	-1,052.62	1,400.34	1,382.70	0.00	0.00	0.00
5,500.00	88.36	89.05	4,185.57	-1,050.95	1,500.29	1,482.65	0.00	0.00	0.00
5,600.00	88.36	89.05	4,188.43	-1,049.29	1,600.23	1,582.61	0.00	0.00	0.00
5,700.00	88.36	89.05	4,191.29	-1,047.63	1,700.18	1,682.57	0.00	0.00	0.00
5,800.00	88.36	89.05	4,194.15	-1,045.97	1,800.12	1,782.53	0.00	0.00	0.00
5,900.00	88.36	89.05	4,197.01	-1,044.31	1,900.07	1,882.49	0.00	0.00	0.00
6,000.00	88.36	89.05	4,199.87	-1,042.65	2,000.01	1,982.45	0.00	0.00	0.00
6,100.00	88.36	89.05	4,202.73	-1,040.99	2,099.96	2,082.41	0.00	0.00	0.00
6,200.00	88.36	89.05	4,205.59	-1,039.33	2,199.90	2,182.37	0.00	0.00	0.00
6,300.00	88.36	89.05	4,208.45	-1,037.67	2,299.85	2,282.33	0.00	0.00	0.00
6,400.00	88.36	89.05	4,211.31	-1,036.01	2,399.79	2,382.29	0.00	0.00	0.00
6,500.00	88.36	89.05	4,214.17	-1,034.35	2,499.74	2,482.25	0.00	0.00	0.00
6,600.00	88.36	89.05	4,217.03	-1,032.69	2,599.68	2,582.20	0.00	0.00	0.00
6,700.00	88.36	89.05	4,219.89	-1,031.03	2,699.63	2,682.16	0.00	0.00	0.00
6,800.00	88.36	89.05	4,222.75	-1,029.36	2,799.57	2,782.12	0.00	0.00	0.00
6,900.00	88.36	89.05	4,225.61	-1,027.70	2,899.52	2,882.08	0.00	0.00	0.00
7,000.00	88.36	89.05	4,228.47	-1,026.04	2,999.46	2,982.04	0.00	0.00	0.00
7,100.00	88.36	89.05	4,231.33	-1,024.38	3,099.41	3,082.00	0.00	0.00	0.00
7,200.00	88.36	89.05	4,234.19	-1,022.72	3,199.36	3,181.96	0.00	0.00	0.00
7,300.00	88.36	89.05	4,237.05	-1,021.06	3,299.30	3,281.92	0.00	0.00	0.00
7,400.00	88.36	89.05	4,239.91	-1,019.40	3,399.25	3,381.88	0.00	0.00	0.00
7,500.00	88.36	89.05	4,242.77	-1,017.74	3,499.19	3,481.84	0.00	0.00	0.00
7,600.00	88.36	89.05	4,245.63	-1,016.08	3,599.14	3,581.80	0.00	0.00	0.00
7,700.00	88.36	89.05	4,248.49	-1,014.42	3,699.08	3,681.75	0.00	0.00	0.00
7,800.00	88.36	89.05	4,251.35	-1,012.76	3,799.03	3,781.71	0.00	0.00	0.00
7,900.00	88.36	89.05	4,254.21	-1,011.10	3,898.97	3,881.67	0.00	0.00	0.00
8,000.00	88.36	89.05	4,257.07	-1,009.44	3,998.92	3,981.63	0.00	0.00	0.00
8,100.00	88.36	89.05	4,259.93	-1,007.77	4,098.86	4,081.59	0.00	0.00	0.00
8,200.00	88.36	89.05	4,262.79	-1,006.11	4,198.81	4,181.55	0.00	0.00	0.00
8,300.00	88.36	89.05	4,265.65	-1,004.45	4,298.75	4,281.51	0.00	0.00	0.00
8,400.00	88.36	89.05	4,268.51	-1,002.79	4,398.70	4,381.47	0.00	0.00	0.00
8,500.00	88.36	89.05	4,271.37	-1,001.13	4,498.64	4,481.43	0.00	0.00	0.00
8,600.00	88.36	89.05	4,274.23	-999.47	4,598.59	4,581.39	0.00	0.00	0.00
8,700.00	88.36	89.05	4,277.09	-997.81	4,698.53	4,681.35	0.00	0.00	0.00
8,800.00	88.36	89.05	4,279.95	-996.15	4,798.48	4,781.30	0.00	0.00	0.00
8,900.00	88.36	89.05	4,282.81	-994.49	4,898.43	4,881.26	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.17 Single User Db	Local Co-ordinate Reference:	Well 71H
Company:	SPUR ENERGY PARTNERS, LLC	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Project:	EDDY COUNTY, NM (NAD 83 - NME)	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site:	SMITHDALE 29 FEDERAL	North Reference:	Grid
Well:	71H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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)
9,000.00	88.36	89.05	4,285.67	-992.83	4,998.37	4,981.22	0.00	0.00	0.00
9,100.00	88.36	89.05	4,288.53	-991.17	5,098.32	5,081.18	0.00	0.00	0.00
9,200.00	88.36	89.05	4,291.39	-989.51	5,198.26	5,181.14	0.00	0.00	0.00
9,300.00	88.36	89.05	4,294.25	-987.85	5,298.21	5,281.10	0.00	0.00	0.00
9,400.00	88.36	89.05	4,297.11	-986.18	5,398.15	5,381.06	0.00	0.00	0.00
9,500.00	88.36	89.05	4,299.97	-984.52	5,498.10	5,481.02	0.00	0.00	0.00
9,600.00	88.36	89.05	4,302.83	-982.86	5,598.04	5,580.98	0.00	0.00	0.00
9,700.00	88.36	89.05	4,305.69	-981.20	5,697.99	5,680.94	0.00	0.00	0.00
9,800.67	88.36	89.05	4,308.57	-979.53	5,798.60	5,781.56	0.00	0.00	0.00
SMITHDALE 71H LTP: 500' FSL, 100' FEL									
9,850.70	88.36	89.05	4,310.00	-978.70	5,848.60	5,831.57	0.00	0.00	0.00
SMITHDALE 71H BHL: 500' FSL, 50' FEL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SMITHDALE 71H SHI	0.00	0.00	0.00	0.00	0.00	655,581.70	579,653.80	32.80216	-104.20863
- plan hits target center									
- Point									
SMITHDALE 71H KO	0.00	0.00	3,356.11	-926.68	-36.26	654,655.03	579,617.54	32.79962	-104.20875
- plan hits target center									
- Point									
SMITHDALE 71H FTF	0.00	0.00	4,165.00	-1,062.90	781.40	654,518.80	580,435.20	32.79924	-104.20609
- plan hits target center									
- Point									
SMITHDALE 71H LTF	0.00	0.00	4,308.57	-979.50	5,798.60	654,602.20	585,452.40	32.79945	-104.18976
- plan misses target center by 0.03usft at 9800.67usft MD (4308.57 TVD, -979.53 N, 5798.60 E)									
- Point									
SMITHDALE 71H BHI	0.00	0.00	4,310.00	-978.70	5,848.60	654,603.00	585,502.40	32.79945	-104.18960
- plan hits target center									
- Point									

SPUR ENERGY PARTNERS, LLC

**EDDY COUNTY, NM (NAD 83 - NME)
SMITHDALE 29 FEDERAL
71H**

**OH
PERMIT**

Anticollision Report

18 December, 2024

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Reference	PERMIT
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	MD Interval 100.00usft
Depth Range:	Unlimited
Results Limited by:	Maximum centre distance of 5,000.00usft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Pedal Curve
Casing Method:	Not applied

Survey Tool Program	Date	12/18/2024
From (usft)	To (usft)	Survey (Wellbore)
0.00	9,850.69	PERMIT (OH)
		Tool Name
		MWD+IFR1+SAG+FDIR
		Description
		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
SMITHDALE 29 FEDERAL						
50H - OH - PERMIT	300.00	299.00	40.02	38.02	19.974	CC
50H - OH - PERMIT	400.00	398.97	40.70	38.01	15.138	ES
50H - OH - PERMIT	9,850.70	9,527.37	854.55	724.97	6.595	SF
70H - OH - PERMIT	300.00	298.00	80.01	78.01	39.999	CC, ES
70H - OH - PERMIT	9,850.70	9,713.36	1,649.20	1,514.98	12.288	SF
90H - OH - PERMIT	300.00	299.00	60.04	58.03	29.961	CC, ES
90H - OH - PERMIT	9,850.70	10,058.48	1,339.30	1,208.07	10.206	SF
91H - OH - PERMIT	300.00	300.00	20.01	18.01	9.969	CC
91H - OH - PERMIT	400.00	400.14	20.30	17.61	7.540	ES
91H - OH - PERMIT	9,850.70	10,152.27	477.31	369.83	4.441	SF
OFFSET: ANTHONEY 1 - Wellbore #1 - Wellbore #1	2,270.09	2,197.60	377.69	329.05	7.765	CC
OFFSET: ANTHONEY 1 - Wellbore #1 - Wellbore #1	2,300.00	2,225.71	377.83	328.50	7.660	ES
OFFSET: ANTHONEY 1 - Wellbore #1 - Wellbore #1	4,400.00	4,046.30	554.64	461.19	5.935	SF
OFFSET: ANTHONEY 2 - Wellbore #1 - Wellbore #1	3,752.27	3,604.77	183.69	103.23	2.283	CC, ES
OFFSET: ANTHONEY 2 - Wellbore #1 - Wellbore #1	3,800.00	3,647.98	186.09	104.27	2.274	SF
OFFSET: ANTHONEY STATE 3 - Wellbore #1 - Wellbore	4,297.12	4,054.59	146.92	116.98	4.907	CC, ES, SF
OFFSET: ANTHONEY STATE 4 - PLANNED DEV SURV	2,619.00	2,605.97	248.71	228.50	12.308	CC, ES
OFFSET: ANTHONEY STATE 4 - PLANNED DEV SURV	2,800.00	2,776.08	256.28	234.75	11.903	SF
OFFSET: OUTLAW STATE 1 - Wellbore #1 - Wellbore #1	9,566.33	4,374.10	60.51	-104.79	0.366	Level 1, CC, ES, SF
OFFSET: OUTLAW STATE 10 - Wellbore #1 - Wellbore #	8,279.90	4,335.02	1,148.24	1,001.00	7.799	CC, ES
OFFSET: OUTLAW STATE 10 - Wellbore #1 - Wellbore #	8,300.00	4,335.59	1,148.41	1,001.03	7.792	SF
OFFSET: OUTLAW STATE 11 - Wellbore #1 - Wellbore #	8,173.96	4,335.22	1,808.74	1,653.36	11.641	CC
OFFSET: OUTLAW STATE 11 - Wellbore #1 - Wellbore #	8,200.00	4,336.04	1,808.92	1,653.31	11.625	ES
OFFSET: OUTLAW STATE 11 - Wellbore #1 - Wellbore #	8,300.00	4,339.19	1,813.12	1,656.68	11.590	SF
OFFSET: OUTLAW STATE 2 - Wellbore #1 - Wellbore #1	8,921.73	4,349.10	488.97	345.68	3.412	CC, ES, SF
OFFSET: OUTLAW STATE 3 - Wellbore #1 - Wellbore #1	8,905.60	4,354.42	60.43	-81.92	0.424	Level 1, CC, ES, SF
OFFSET: OUTLAW STATE 4 - Wellbore #1 - Wellbore #1	9,709.91	4,382.59	414.39	238.98	2.362	CC, ES, SF
OFFSET: OUTLAW STATE 5 - Wellbore #1 - Wellbore #1	7,582.84	4,328.80	171.23	51.91	1.435	Level 3, CC, ES, SF
OFFSET: OUTLAW STATE 6 - Wellbore #1 - Wellbore #1	8,260.28	4,342.85	489.24	357.21	3.705	CC, ES, SF
OFFSET: OUTLAW STATE 7 - Wellbore #1 - Wellbore #1	8,241.81	4,327.07	170.72	30.55	1.218	Level 2, CC, ES, SF
OFFSET: OUTLAW STATE 8 - Wellbore #1 - Wellbore #1	7,599.58	4,320.99	489.05	363.65	3.900	CC
OFFSET: OUTLAW STATE 8 - Wellbore #1 - Wellbore #1	7,600.00	4,321.00	489.05	363.64	3.900	ES, SF
OFFSET: OUTLAW STATE 9 - Wellbore #1 - Wellbore #1	7,618.13	4,315.92	1,149.32	1,026.23	9.338	CC, ES
OFFSET: OUTLAW STATE 9 - Wellbore #1 - Wellbore #1	7,700.00	4,318.36	1,152.22	1,028.62	9.322	SF
OFFSET: OUTLAW STATE12 - Wellbore #1 - Wellbore #	7,616.66	4,297.65	1,753.58	1,591.53	10.822	CC, ES
OFFSET: OUTLAW STATE12 - Wellbore #1 - Wellbore #	7,800.00	4,303.10	1,763.13	1,599.64	10.784	SF
OFFSET: STALEY STATE 21 - Wellbore #1 - Wellbore #	300.00	294.01	386.91	380.41	59.451	CC

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SMITHDALE 29 FEDERAL						
OFFSET: STALEY STATE 21 - Wellbore #1 - Wellbore #1	600.00	593.84	390.95	376.99	28.008	ES
OFFSET: STALEY STATE 21 - Wellbore #1 - Wellbore #1	4,600.00	4,126.03	1,162.58	1,066.12	12.053	SF
OFFSET: STALEY STATE 25 - Wellbore #1 - Wellbore #1	300.00	275.10	767.44	761.38	126.581	CC
OFFSET: STALEY STATE 25 - Wellbore #1 - Wellbore #1	400.00	375.08	769.06	760.82	93.282	ES
OFFSET: STALEY STATE 25 - Wellbore #1 - Wellbore #1	4,300.00	3,970.18	1,890.79	1,803.07	21.556	SF
OFFSET: STALEY STATE 3 - Wellbore #1 - Wellbore #1	300.00	277.00	827.10	821.28	142.107	CC
OFFSET: STALEY STATE 3 - Wellbore #1 - Wellbore #1	400.00	376.98	828.69	820.79	104.874	ES
OFFSET: STALEY STATE 3 - Wellbore #1 - Wellbore #1	4,400.00	3,994.00	1,811.81	1,719.71	19.673	SF
OFFSET: STALEY STATE 7 - Wellbore #1 - Wellbore #1	300.00	282.00	346.73	340.95	59.920	CC
OFFSET: STALEY STATE 7 - Wellbore #1 - Wellbore #1	400.00	381.98	347.57	339.74	44.421	ES
OFFSET: STALEY STATE 7 - Wellbore #1 - Wellbore #1	3,000.00	2,862.81	968.26	906.86	15.771	SF
OFFSET: STATE GAS COM B 1 - Wellbore #1 - Wellbore	7,959.02	4,337.89	1,477.99	1,258.24	6.726	CC, ES
OFFSET: STATE GAS COM B 1 - Wellbore #1 - Wellbore	8,000.00	4,339.06	1,478.56	1,258.45	6.718	SF
OFFSET: STATE GAS COM V 1 - Wellbore #1 - Wellbore	1,946.40	1,887.56	408.42	360.87	8.589	CC
OFFSET: STATE GAS COM V 1 - Wellbore #1 - Wellbore	2,000.00	1,937.94	408.83	360.02	8.375	ES
OFFSET: STATE GAS COM V 1 - Wellbore #1 - Wellbore	2,600.00	2,502.70	465.76	403.07	7.429	SF

Offset Design: SMITHDALE 29 FEDERAL - 50H - OH - PERMIT

Survey Program: 0-MWD+IFR1+SAG+FDIR													Offset Site Error: 0.00 usft
Rule Assigned:													Offset Well Error: 0.00 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	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
0.00	0.00	0.00	0.00	0.00	0.00	-66.12	16.20	-36.60	40.04				
100.00	100.00	99.00	99.00	0.29	0.28	-66.12	16.20	-36.60	40.02	39.45	0.57	70.135	
200.00	200.00	199.00	199.00	0.65	0.64	-66.12	16.20	-36.60	40.02	38.74	1.29	31.102	
300.00	300.00	299.00	299.00	1.00	1.00	-66.12	16.20	-36.60	40.02	38.02	2.00	19.974	CC
400.00	399.98	398.97	398.95	1.35	1.34	111.50	14.65	-37.32	40.70	38.01	2.69	15.138	ES
500.00	499.84	498.91	498.75	1.69	1.69	111.02	9.94	-39.52	42.73	39.37	3.36	12.708	
600.00	599.45	598.81	598.28	2.04	2.04	110.39	2.16	-43.14	46.12	42.07	4.06	11.373	
700.00	698.70	698.68	697.68	2.39	2.38	112.32	-6.58	-47.22	50.80	46.04	4.76	10.668	
800.00	797.47	798.38	796.91	2.74	2.74	117.08	-15.31	-51.29	57.04	51.56	5.48	10.413	
900.00	895.62	897.78	895.84	3.11	3.09	123.43	-24.02	-55.35	65.46	59.26	6.20	10.561	
1,000.00	993.06	996.76	994.36	3.49	3.45	130.27	-32.69	-59.39	76.74	69.82	6.92	11.090	
1,100.00	1,089.64	1,095.20	1,092.34	3.88	3.81	136.75	-41.31	-63.41	91.35	83.71	7.64	11.962	
1,200.00	1,185.27	1,192.98	1,189.67	4.28	4.16	142.46	-49.87	-67.40	109.57	101.22	8.35	13.124	
1,300.00	1,279.82	1,289.99	1,286.22	4.68	4.52	147.29	-58.36	-71.36	131.48	122.42	9.06	14.514	
1,400.00	1,373.80	1,386.58	1,382.36	5.10	4.87	151.22	-66.82	-75.30	155.54	145.79	9.75	15.947	
1,500.00	1,467.79	1,483.16	1,478.49	5.53	5.22	154.09	-75.28	-79.25	180.12	169.67	10.45	17.236	
1,600.00	1,561.77	1,579.75	1,574.63	5.95	5.57	156.28	-83.74	-83.19	205.02	193.87	11.15	18.391	
1,700.00	1,655.76	1,676.34	1,670.77	6.38	5.93	157.99	-92.20	-87.13	230.14	218.29	11.85	19.426	
1,800.00	1,749.74	1,772.93	1,766.90	6.82	6.28	159.37	-100.65	-91.08	255.41	242.86	12.55	20.356	
1,900.00	1,843.73	1,869.52	1,863.04	7.25	6.64	160.49	-109.11	-95.02	280.80	267.55	13.25	21.194	
2,000.00	1,937.71	1,966.11	1,959.18	7.69	6.99	161.43	-117.57	-98.96	306.27	292.32	13.95	21.952	
2,100.00	2,031.70	2,062.70	2,055.32	8.13	7.34	162.23	-126.03	-102.90	331.81	317.15	14.66	22.640	
2,200.00	2,125.68	2,159.29	2,151.45	8.57	7.70	162.91	-134.49	-106.85	357.40	342.04	15.36	23.267	
2,300.00	2,219.67	2,255.87	2,247.59	9.01	8.05	163.51	-142.94	-110.79	383.03	366.96	16.07	23.841	
2,400.00	2,313.65	2,352.46	2,343.73	9.45	8.41	164.02	-151.40	-114.73	408.69	391.92	16.77	24.368	
2,500.00	2,407.64	2,449.05	2,439.86	9.89	8.76	164.48	-159.86	-118.68	434.39	416.91	17.48	24.852	
2,600.00	2,501.62	2,545.64	2,536.00	10.33	9.12	164.88	-168.32	-122.62	460.10	441.91	18.19	25.300	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - 50H - OH - PERMIT													Offset Site Error:
Survey Program: 0-MWD+IFR1+SAG+FDIR													0.00 usft
Rule Assigned:													Offset Well Error:
Warning													0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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	
2,700.00	2,595.61	2,642.23	2,632.14	10.78	9.47	165.25	-176.78	-126.56	485.83	466.94	18.89	25.714	
2,800.00	2,689.59	2,738.82	2,728.27	11.22	9.82	165.57	-185.23	-130.51	511.58	491.98	19.60	26.099	
2,900.00	2,783.58	2,835.41	2,824.41	11.67	10.18	165.87	-193.69	-134.45	537.35	517.04	20.31	26.457	
3,000.00	2,877.56	2,932.00	2,920.55	12.11	10.53	166.14	-202.15	-138.39	563.13	542.11	21.02	26.791	
3,100.00	2,971.55	3,035.46	3,023.59	12.56	10.91	166.85	-210.92	-138.11	588.41	566.65	21.75	27.047	
3,200.00	3,065.53	3,137.84	3,125.00	13.00	11.26	168.53	-218.83	-126.91	612.72	590.28	22.45	27.297	
3,300.00	3,159.52	3,236.07	3,220.70	13.45	11.58	170.95	-225.61	-106.01	636.88	613.79	23.09	27.583	
3,400.00	3,253.50	3,328.49	3,308.38	13.89	11.87	173.86	-231.21	-77.48	661.95	638.26	23.69	27.948	
3,500.00	3,347.49	3,414.03	3,386.78	14.34	12.12	177.02	-235.67	-43.62	689.10	664.87	24.23	28.441	
3,600.00	3,441.72	3,495.00	3,457.96	14.78	12.34	-157.53	-239.21	-5.24	717.99	693.27	24.72	29.042	
3,700.00	3,535.44	3,575.38	3,525.19	15.20	12.55	-132.40	-242.05	38.67	746.12	720.93	25.18	29.627	
3,800.00	3,626.82	3,655.35	3,588.22	15.58	12.74	-113.62	-244.19	87.81	772.17	746.56	25.61	30.149	
3,900.00	3,714.08	3,735.01	3,646.74	15.92	12.97	-100.57	-245.63	141.81	795.14	769.12	26.02	30.561	
4,000.00	3,795.54	3,814.44	3,700.43	16.21	13.26	-91.54	-246.35	200.31	814.23	787.81	26.42	30.824	
4,100.00	3,869.59	3,893.68	3,749.00	16.47	13.57	-85.25	-246.38	262.88	828.85	802.03	26.83	30.898	
4,200.00	3,934.81	3,972.73	3,792.15	16.69	13.90	-80.91	-245.70	329.09	838.57	811.30	27.27	30.750	
4,300.00	3,989.92	4,069.28	3,840.50	16.87	14.36	-78.26	-244.32	412.65	842.22	814.21	28.01	30.064	
4,400.00	4,039.92	4,169.28	3,890.50	17.04	14.87	-78.26	-242.88	499.24	842.22	813.29	28.93	29.117	
4,415.00	4,047.41	4,184.28	3,898.00	17.06	14.95	-78.26	-242.66	512.23	842.22	813.15	29.07	28.971	
4,500.00	4,089.91	4,250.00	3,927.60	17.24	15.31	-78.01	-241.69	570.86	843.20	813.56	29.64	28.450	
4,600.00	4,131.66	4,325.33	3,953.02	17.48	15.75	-77.40	-240.51	641.70	845.04	814.73	30.31	27.879	
4,700.00	4,157.02	4,400.00	3,968.84	17.78	16.19	-77.08	-239.30	714.62	846.01	814.95	31.06	27.235	
4,800.00	4,165.55	4,476.79	3,975.09	18.13	16.64	-77.06	-238.03	791.08	846.09	814.17	31.92	26.510	
4,900.00	4,168.41	4,576.79	3,977.26	18.55	17.27	-77.01	-236.37	891.04	846.24	813.16	33.08	25.578	
5,000.00	4,171.27	4,676.79	3,979.43	19.06	17.94	-76.97	-234.71	991.01	846.40	812.05	34.35	24.639	
5,100.00	4,174.13	4,776.78	3,981.60	19.64	18.66	-76.92	-233.05	1,090.97	846.55	810.84	35.71	23.707	
5,200.00	4,176.99	4,876.78	3,983.77	20.28	19.41	-76.88	-231.39	1,190.93	846.71	809.56	37.15	22.792	
5,300.00	4,179.85	4,976.78	3,985.94	20.97	20.20	-76.83	-229.73	1,290.89	846.87	808.21	38.66	21.906	
5,400.00	4,182.71	5,076.78	3,988.10	21.70	21.02	-76.78	-228.07	1,390.85	847.02	806.79	40.23	21.053	
5,500.00	4,185.57	5,176.77	3,990.27	22.47	21.87	-76.74	-226.41	1,490.81	847.18	805.32	41.86	20.237	
5,600.00	4,188.43	5,276.77	3,992.44	23.28	22.74	-76.69	-224.75	1,590.77	847.34	803.80	43.54	19.459	
5,700.00	4,191.29	5,376.77	3,994.61	24.11	23.64	-76.65	-223.09	1,690.73	847.50	802.23	45.27	18.722	
5,800.00	4,194.15	5,476.77	3,996.78	24.97	24.55	-76.60	-221.43	1,790.69	847.66	800.63	47.03	18.023	
5,900.00	4,197.01	5,576.77	3,998.95	25.85	25.48	-76.56	-219.77	1,890.65	847.82	798.99	48.83	17.362	
6,000.00	4,199.87	5,676.76	4,001.12	26.75	26.42	-76.51	-218.11	1,990.61	847.98	797.32	50.66	16.739	
6,100.00	4,202.73	5,776.76	4,003.29	27.66	27.38	-76.47	-216.45	2,090.57	848.14	795.62	52.52	16.150	
6,200.00	4,205.59	5,876.76	4,005.45	28.60	28.35	-76.42	-214.79	2,190.53	848.30	793.90	54.40	15.594	
6,300.00	4,208.45	5,976.76	4,007.62	29.54	29.33	-76.37	-213.13	2,290.49	848.46	792.16	56.30	15.069	
6,400.00	4,211.31	6,076.75	4,009.79	30.50	30.33	-76.33	-211.47	2,390.45	848.62	790.39	58.23	14.574	
6,500.00	4,214.17	6,176.75	4,011.96	31.47	31.33	-76.28	-209.81	2,490.41	848.79	788.61	60.17	14.106	
6,600.00	4,217.03	6,276.75	4,014.13	32.45	32.34	-76.24	-208.15	2,590.37	848.95	786.82	62.13	13.664	
6,700.00	4,219.89	6,376.75	4,016.30	33.44	33.35	-76.19	-206.49	2,690.33	849.11	785.01	64.10	13.246	
6,800.00	4,222.75	6,476.74	4,018.47	34.44	34.38	-76.15	-204.83	2,790.29	849.28	783.19	66.09	12.850	
6,900.00	4,225.61	6,576.74	4,020.64	35.45	35.41	-76.10	-203.17	2,890.25	849.44	781.35	68.09	12.476	
7,000.00	4,228.47	6,676.74	4,022.81	36.46	36.45	-76.06	-201.51	2,990.21	849.61	779.51	70.10	12.120	
7,100.00	4,231.33	6,776.74	4,024.97	37.48	37.49	-76.01	-199.85	3,090.17	849.77	777.66	72.12	11.783	
7,200.00	4,234.19	6,876.73	4,027.14	38.51	38.53	-75.97	-198.19	3,190.13	849.94	775.79	74.15	11.463	
7,300.00	4,237.05	6,976.73	4,029.31	39.54	39.58	-75.92	-196.53	3,290.09	850.11	773.93	76.18	11.159	
7,400.00	4,239.91	7,076.73	4,031.48	40.58	40.64	-75.88	-194.87	3,390.05	850.27	772.05	78.23	10.869	
7,500.00	4,242.77	7,176.73	4,033.65	41.62	41.70	-75.83	-193.21	3,490.01	850.44	770.17	80.28	10.594	
7,600.00	4,245.63	7,276.72	4,035.82	42.66	42.76	-75.79	-191.55	3,589.97	850.61	768.28	82.34	10.331	
7,700.00	4,248.49	7,376.72	4,037.99	43.71	43.82	-75.74	-189.89	3,689.93	850.78	766.38	84.40	10.080	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design:SMITHDALE 29 FEDERAL - 50H - OH - PERMIT													Offset Site Error:	0.00 usft
Survey Program:		0-MWD+IFR1+SAG+FDIR					Rule Assigned:				Offset Well Error:	0.00 usft		
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance					Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,800.00	4,251.35	7,476.72	4,040.16	44.77	44.89	-75.70	-188.23	3,789.89	850.95	764.48	86.47	9.841		
7,900.00	4,254.21	7,576.72	4,042.33	45.82	45.96	-75.65	-186.57	3,889.85	851.12	762.58	88.54	9.613		
8,000.00	4,257.07	7,676.71	4,044.49	46.89	47.03	-75.61	-184.91	3,989.81	851.29	760.67	90.62	9.394		
8,100.00	4,259.93	7,776.71	4,046.66	47.95	48.11	-75.56	-183.25	4,089.77	851.46	758.76	92.70	9.185		
8,200.00	4,262.79	7,876.71	4,048.83	49.02	49.19	-75.52	-181.59	4,189.73	851.63	756.85	94.79	8.985		
8,300.00	4,265.65	7,976.71	4,051.00	50.08	50.27	-75.47	-179.93	4,289.70	851.81	754.93	96.88	8.793		
8,400.00	4,268.51	8,076.71	4,053.17	51.16	51.35	-75.43	-178.26	4,389.66	851.98	753.01	98.97	8.608		
8,500.00	4,271.37	8,176.70	4,055.34	52.23	52.44	-75.38	-176.60	4,489.62	852.15	751.09	101.07	8.431		
8,600.00	4,274.23	8,276.70	4,057.51	53.31	53.52	-75.34	-174.94	4,589.58	852.33	749.16	103.17	8.262		
8,700.00	4,277.09	8,376.70	4,059.68	54.38	54.61	-75.29	-173.28	4,689.54	852.50	747.23	105.27	8.098		
8,800.00	4,279.95	8,476.70	4,061.84	55.47	55.70	-75.25	-171.62	4,789.50	852.68	745.30	107.37	7.941		
8,900.00	4,282.81	8,576.69	4,064.01	56.55	56.79	-75.20	-169.96	4,889.46	852.85	743.37	109.48	7.790		
9,000.00	4,285.67	8,676.69	4,066.18	57.63	57.88	-75.16	-168.30	4,989.42	853.03	741.44	111.59	7.645		
9,100.00	4,288.53	8,776.69	4,068.35	58.72	58.97	-75.11	-166.64	5,089.38	853.20	739.51	113.70	7.504		
9,200.00	4,291.39	8,876.69	4,070.52	59.80	60.07	-75.07	-164.98	5,189.34	853.38	737.57	115.81	7.369		
9,300.00	4,294.25	8,976.68	4,072.69	60.89	61.16	-75.02	-163.32	5,289.30	853.56	735.64	117.92	7.238		
9,400.00	4,297.11	9,076.68	4,074.86	61.98	62.26	-74.98	-161.66	5,389.26	853.74	733.70	120.04	7.112		
9,500.00	4,299.97	9,176.68	4,077.03	63.07	63.36	-74.93	-160.00	5,489.22	853.92	731.76	122.15	6.991		
9,600.00	4,302.83	9,276.68	4,079.20	64.16	64.46	-74.89	-158.34	5,589.18	854.10	729.83	124.27	6.873		
9,700.00	4,305.69	9,376.67	4,081.36	65.26	65.56	-74.84	-156.68	5,689.14	854.27	727.89	126.39	6.759		
9,800.00	4,308.55	9,476.67	4,083.53	66.35	66.66	-74.80	-155.02	5,789.10	854.46	725.95	128.51	6.649		
9,850.70	4,310.00	9,527.37	4,084.63	66.91	67.22	-74.77	-154.18	5,839.77	854.55	724.97	129.58	6.595 SF		

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - 70H - OH - PERMIT													Offset Site Error:
Survey Program: 0-MWD+IFR1+SAG+FDIR													0.00 usft
Rule Assigned:													Offset Well Error:
0.00 usft													0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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
0.00	0.00	0.00	0.00	0.00	0.00	-66.19	32.30	-73.20	80.03				
100.00	100.00	98.00	98.00	0.29	0.28	-66.19	32.30	-73.20	80.01	79.44	0.57	140.907	
200.00	200.00	198.00	198.00	0.65	0.64	-66.19	32.30	-73.20	80.01	78.73	1.28	62.345	
300.00	300.00	298.00	298.00	1.00	1.00	-66.19	32.30	-73.20	80.01	78.01	2.00	39.999 CC, ES	
400.00	399.98	396.50	396.49	1.35	1.35	113.64	33.91	-73.40	81.55	78.86	2.70	30.249	
500.00	499.84	494.29	494.14	1.69	1.71	119.40	38.84	-74.00	86.88	83.49	3.39	25.656	
600.00	599.45	590.70	590.20	2.04	2.06	127.34	46.93	-74.99	97.49	93.41	4.08	23.876	
700.00	698.70	685.10	683.94	2.39	2.40	135.60	57.95	-76.34	114.84	110.07	4.78	24.044	
800.00	797.47	776.91	774.71	2.74	2.73	142.89	71.61	-78.02	139.65	134.20	5.45	25.604	
900.00	895.62	869.96	866.42	3.11	3.06	148.85	87.25	-79.93	170.84	164.70	6.13	27.851	
1,000.00	993.06	962.22	957.34	3.49	3.39	153.35	102.78	-81.83	206.33	199.52	6.81	30.307	
1,100.00	1,089.64	1,053.07	1,046.88	3.88	3.72	156.78	118.07	-83.71	245.74	238.27	7.47	32.916	
1,200.00	1,185.27	1,142.42	1,134.93	4.28	4.05	159.44	133.11	-85.55	288.78	280.66	8.12	35.554	
1,300.00	1,279.82	1,230.15	1,221.39	4.68	4.37	161.54	147.88	-87.36	335.28	326.50	8.77	38.213	
1,400.00	1,373.80	1,317.05	1,307.04	5.10	4.69	163.48	162.51	-89.15	383.57	374.18	9.40	40.824	
1,500.00	1,467.79	1,403.96	1,392.68	5.53	5.01	164.99	177.13	-90.94	432.14	422.12	10.02	43.128	
1,600.00	1,561.77	1,490.87	1,478.33	5.95	5.33	166.19	191.76	-92.73	480.88	470.24	10.65	45.170	
1,700.00	1,655.76	1,577.77	1,563.98	6.38	5.65	167.18	206.39	-94.53	529.77	518.49	11.27	46.990	
1,800.00	1,749.74	1,664.68	1,649.63	6.82	5.97	168.00	221.02	-96.32	578.75	566.84	11.90	48.618	
1,900.00	1,843.73	1,751.59	1,735.27	7.25	6.29	168.69	235.65	-98.11	627.81	615.27	12.54	50.083	
2,000.00	1,937.71	1,838.49	1,820.92	7.69	6.61	169.28	250.27	-99.90	676.92	663.76	13.17	51.407	
2,100.00	2,031.70	1,925.40	1,906.57	8.13	6.93	169.80	264.90	-101.69	726.09	712.29	13.80	52.608	
2,200.00	2,125.68	2,012.31	1,992.22	8.57	7.26	170.25	279.53	-103.49	775.29	760.86	14.44	53.702	
2,300.00	2,219.67	2,099.21	2,077.86	9.01	7.58	170.64	294.16	-105.28	824.53	809.46	15.07	54.703	
2,400.00	2,313.65	2,186.12	2,163.51	9.45	7.90	170.99	308.79	-107.07	873.79	858.08	15.71	55.621	
2,500.00	2,407.64	2,273.02	2,249.16	9.89	8.22	171.30	323.41	-108.86	923.08	906.73	16.35	56.467	
2,600.00	2,501.62	2,359.93	2,334.81	10.33	8.54	171.59	338.04	-110.65	972.38	955.40	16.99	57.247	
2,700.00	2,595.61	2,446.84	2,420.45	10.78	8.87	171.84	352.67	-112.44	1,021.70	1,004.08	17.62	57.970	
2,800.00	2,689.59	2,533.74	2,506.10	11.22	9.19	172.07	367.30	-114.24	1,071.04	1,052.77	18.26	58.641	
2,900.00	2,783.58	2,620.65	2,591.75	11.67	9.51	172.28	381.93	-116.03	1,120.38	1,101.48	18.90	59.265	
3,000.00	2,877.56	2,707.56	2,677.40	12.11	9.83	172.47	396.55	-117.82	1,169.74	1,150.19	19.55	59.848	
3,100.00	2,971.55	2,794.46	2,763.05	12.56	10.15	172.65	411.18	-119.61	1,219.10	1,198.92	20.19	60.392	
3,200.00	3,065.53	2,881.37	2,848.69	13.00	10.48	172.82	425.81	-121.40	1,268.48	1,247.65	20.83	60.902	
3,300.00	3,159.52	2,968.27	2,934.34	13.45	10.80	172.97	440.44	-123.20	1,317.86	1,296.39	21.47	61.380	
3,400.00	3,253.50	3,055.18	3,019.99	13.89	11.12	173.11	455.07	-124.99	1,367.25	1,345.13	22.11	61.830	
3,500.00	3,347.49	3,142.09	3,105.64	14.34	11.44	173.24	469.69	-126.78	1,416.64	1,393.88	22.76	62.253	
3,600.00	3,441.72	3,244.29	3,206.38	14.78	11.82	-162.53	486.71	-126.51	1,465.02	1,441.52	23.50	62.346	
3,700.00	3,535.44	3,359.85	3,319.73	15.20	12.24	-138.42	504.84	-113.81	1,509.63	1,485.33	24.30	62.116	
3,800.00	3,626.82	3,480.16	3,435.41	15.58	12.65	-120.62	522.15	-86.01	1,549.41	1,524.31	25.10	61.720	
3,900.00	3,714.08	3,605.67	3,551.63	15.92	13.06	-108.50	538.21	-41.65	1,583.49	1,557.59	25.90	61.130	
4,000.00	3,795.54	3,736.53	3,665.78	16.21	13.45	-100.34	552.48	20.49	1,611.09	1,584.38	26.72	60.307	
4,100.00	3,869.59	3,872.40	3,774.49	16.47	13.85	-94.85	564.34	100.95	1,631.56	1,604.00	27.56	59.202	
4,200.00	3,934.81	4,012.50	3,873.80	16.69	14.33	-91.25	573.17	199.19	1,644.35	1,615.89	28.46	57.769	
4,300.00	3,989.92	4,155.56	3,959.64	16.87	14.91	-89.15	578.43	313.34	1,649.13	1,619.67	29.46	55.981	
4,400.00	4,039.92	4,269.68	4,017.63	17.04	15.44	-89.19	580.28	411.60	1,649.26	1,618.86	30.40	54.246	
4,500.00	4,089.91	4,369.68	4,067.63	17.24	15.95	-89.19	581.71	498.19	1,649.26	1,617.90	31.36	52.586	
4,600.00	4,131.66	4,467.20	4,113.07	17.48	16.49	-89.37	583.15	584.39	1,649.19	1,616.81	32.38	50.928	
4,700.00	4,157.02	4,564.47	4,144.01	17.78	17.05	-89.61	584.67	676.47	1,649.13	1,615.67	33.46	49.289	
4,800.00	4,165.55	4,662.89	4,159.04	18.13	17.62	-89.84	586.29	773.60	1,649.09	1,614.53	34.56	47.716	
4,900.00	4,168.41	4,762.75	4,162.79	18.55	18.22	-89.87	587.94	873.37	1,649.09	1,613.36	35.73	46.157	
5,000.00	4,171.27	4,862.74	4,166.24	19.06	18.87	-89.89	589.60	973.29	1,649.09	1,612.10	36.99	44.580	
5,100.00	4,174.13	4,962.74	4,169.68	19.64	19.55	-89.91	591.26	1,073.22	1,649.08	1,610.74	38.35	43.005	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - 70H - OH - PERMIT												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+FDIR												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
+N/-S (usft)	+E/-W (usft)	Between Ellipses (usft)	Between Centres (usft)										
5,200.00	4,176.99	5,062.74	4,173.13	20.28	20.28	-89.94	592.92	1,173.14	1,649.08	1,609.30	39.78	41.453	
5,300.00	4,179.85	5,162.74	4,176.58	20.97	21.04	-89.96	594.58	1,273.07	1,649.08	1,607.79	41.29	39.938	
5,400.00	4,182.71	5,262.74	4,180.03	21.70	21.83	-89.98	596.24	1,372.99	1,649.08	1,606.21	42.87	38.470	
5,500.00	4,185.57	5,362.74	4,183.47	22.47	22.65	-90.00	597.89	1,472.92	1,649.08	1,604.58	44.50	37.058	
5,600.00	4,188.43	5,462.73	4,186.92	23.28	23.50	-90.02	599.55	1,572.84	1,649.07	1,602.89	46.18	35.706	
5,700.00	4,191.29	5,562.73	4,190.37	24.11	24.37	-90.04	601.21	1,672.77	1,649.07	1,601.16	47.92	34.415	
5,800.00	4,194.15	5,662.73	4,193.82	24.97	25.25	-90.06	602.87	1,772.69	1,649.07	1,599.38	49.69	33.187	
5,900.00	4,197.01	5,762.73	4,197.26	25.85	26.16	-90.08	604.53	1,872.62	1,649.07	1,597.57	51.50	32.019	
6,000.00	4,199.87	5,862.73	4,200.71	26.75	27.08	-90.10	606.19	1,972.54	1,649.07	1,595.72	53.35	30.912	
6,100.00	4,202.73	5,962.73	4,204.16	27.66	28.02	-90.12	607.85	2,072.47	1,649.07	1,593.85	55.22	29.862	
6,200.00	4,205.59	6,062.72	4,207.61	28.60	28.97	-90.14	609.51	2,172.39	1,649.07	1,591.94	57.13	28.867	
6,300.00	4,208.45	6,162.72	4,211.05	29.54	29.94	-90.16	611.16	2,272.32	1,649.07	1,590.02	59.05	27.925	
6,328.82	4,209.28	6,191.54	4,212.05	29.82	30.22	-90.17	611.64	2,301.12	1,649.07	1,589.46	59.61	27.663	
6,400.00	4,211.31	6,262.72	4,214.50	30.50	30.91	-90.18	612.82	2,372.24	1,649.07	1,588.07	61.00	27.033	
6,500.00	4,214.17	6,362.72	4,217.95	31.47	31.90	-90.20	614.48	2,472.17	1,649.07	1,586.10	62.97	26.187	
6,600.00	4,217.03	6,462.72	4,221.40	32.45	32.89	-90.22	616.14	2,572.09	1,649.07	1,584.11	64.96	25.385	
6,700.00	4,219.89	6,562.72	4,224.84	33.44	33.89	-90.24	617.80	2,672.02	1,649.07	1,582.10	66.97	24.625	
6,800.00	4,222.75	6,662.71	4,228.29	34.44	34.90	-90.26	619.46	2,771.94	1,649.07	1,580.08	68.99	23.904	
6,900.00	4,225.61	6,762.71	4,231.74	35.45	35.92	-90.28	621.12	2,871.87	1,649.07	1,578.05	71.02	23.219	
7,000.00	4,228.47	6,862.71	4,235.19	36.46	36.94	-90.30	622.78	2,971.79	1,649.07	1,576.01	73.07	22.569	
7,100.00	4,231.33	6,962.71	4,238.63	37.48	37.97	-90.32	624.43	3,071.72	1,649.08	1,573.95	75.13	21.950	
7,200.00	4,234.19	7,062.71	4,242.08	38.51	39.00	-90.34	626.09	3,171.64	1,649.08	1,571.88	77.20	21.362	
7,300.00	4,237.05	7,162.70	4,245.53	39.54	40.04	-90.36	627.75	3,271.57	1,649.08	1,569.80	79.28	20.801	
7,400.00	4,239.91	7,262.70	4,248.98	40.58	41.09	-90.38	629.41	3,371.49	1,649.08	1,567.71	81.37	20.267	
7,500.00	4,242.77	7,362.70	4,252.42	41.62	42.13	-90.41	631.07	3,471.42	1,649.08	1,565.62	83.46	19.758	
7,600.00	4,245.63	7,462.70	4,255.87	42.66	43.19	-90.43	632.73	3,571.34	1,649.09	1,563.52	85.57	19.272	
7,700.00	4,248.49	7,562.70	4,259.32	43.71	44.24	-90.45	634.39	3,671.27	1,649.09	1,561.41	87.68	18.808	
7,800.00	4,251.35	7,662.70	4,262.77	44.77	45.30	-90.47	636.05	3,771.19	1,649.09	1,559.29	89.80	18.364	
7,900.00	4,254.21	7,762.69	4,266.21	45.82	46.36	-90.49	637.70	3,871.12	1,649.10	1,557.17	91.93	17.939	
8,000.00	4,257.07	7,862.69	4,269.66	46.89	47.43	-90.51	639.36	3,971.04	1,649.10	1,555.04	94.06	17.533	
8,100.00	4,259.93	7,962.69	4,273.11	47.95	48.50	-90.53	641.02	4,070.97	1,649.10	1,552.91	96.20	17.143	
8,200.00	4,262.79	8,062.69	4,276.56	49.02	49.57	-90.55	642.68	4,170.89	1,649.11	1,550.77	98.34	16.770	
8,300.00	4,265.65	8,162.69	4,280.00	50.08	50.64	-90.57	644.34	4,270.82	1,649.11	1,548.62	100.49	16.411	
8,400.00	4,268.51	8,262.69	4,283.45	51.16	51.71	-90.59	646.00	4,370.74	1,649.11	1,546.48	102.64	16.067	
8,500.00	4,271.37	8,362.68	4,286.90	52.23	52.79	-90.61	647.66	4,470.67	1,649.12	1,544.33	104.79	15.737	
8,600.00	4,274.23	8,462.68	4,290.35	53.31	53.87	-90.63	649.32	4,570.60	1,649.12	1,542.17	106.95	15.419	
8,700.00	4,277.09	8,562.68	4,293.79	54.38	54.95	-90.65	650.97	4,670.52	1,649.13	1,540.01	109.12	15.114	
8,800.00	4,279.95	8,662.68	4,297.24	55.47	56.04	-90.67	652.63	4,770.45	1,649.13	1,537.85	111.28	14.819	
8,900.00	4,282.81	8,762.68	4,300.69	56.55	57.12	-90.69	654.29	4,870.37	1,649.14	1,535.69	113.45	14.536	
9,000.00	4,285.67	8,862.68	4,304.14	57.63	58.21	-90.71	655.95	4,970.30	1,649.14	1,533.52	115.63	14.263	
9,100.00	4,288.53	8,962.67	4,307.58	58.72	59.29	-90.73	657.61	5,070.22	1,649.15	1,531.35	117.80	13.999	
9,200.00	4,291.39	9,062.67	4,311.03	59.80	60.38	-90.75	659.27	5,170.15	1,649.16	1,529.17	119.98	13.745	
9,300.00	4,294.25	9,162.67	4,314.48	60.89	61.47	-90.77	660.93	5,270.07	1,649.16	1,527.00	122.16	13.500	
9,400.00	4,297.11	9,262.67	4,317.93	61.98	62.57	-90.79	662.58	5,370.00	1,649.17	1,524.82	124.35	13.263	
9,500.00	4,299.97	9,362.67	4,321.37	63.07	63.66	-90.81	664.24	5,469.92	1,649.17	1,522.64	126.53	13.033	
9,600.00	4,302.83	9,462.67	4,324.82	64.16	64.75	-90.83	665.90	5,569.85	1,649.18	1,520.46	128.72	12.812	
9,700.00	4,305.69	9,562.66	4,328.27	65.26	65.85	-90.85	667.56	5,669.77	1,649.19	1,518.28	130.91	12.598	
9,800.00	4,308.55	9,662.66	4,331.72	66.35	66.95	-90.87	669.22	5,769.70	1,649.20	1,516.09	133.11	12.390	
9,850.70	4,310.00	9,713.36	4,333.46	66.91	67.50	-90.89	670.06	5,820.35	1,649.20	1,514.98	134.22	12.288 SF	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - 90H - OH - PERMIT													Offset Site Error:
Survey Program: 0-MWD+IFR1+SAG+FDIR													Offset Well Error:
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
0.00	0.00	0.00	0.00	0.00	0.00	-66.12	24.30	-54.90	60.05				
100.00	100.00	99.00	99.00	0.29	0.28	-66.12	24.30	-54.90	60.04	59.47	0.57	105.202	
200.00	200.00	199.00	199.00	0.65	0.64	-66.12	24.30	-54.90	60.04	58.75	1.29	46.652	
300.00	300.00	299.00	299.00	1.00	1.00	-66.12	24.30	-54.90	60.04	58.03	2.00	29.961 CC, ES	
400.00	399.98	397.34	397.32	1.35	1.35	114.06	25.79	-55.62	62.02	59.32	2.70	22.977	
500.00	499.84	495.52	495.38	1.69	1.71	120.42	30.20	-57.75	68.54	65.14	3.39	20.213	
600.00	599.45	594.51	594.19	2.04	2.06	127.95	35.47	-60.29	78.71	74.62	4.09	19.231	
700.00	698.70	692.95	692.46	2.39	2.41	135.16	40.71	-62.82	92.41	87.61	4.80	19.252	
800.00	797.47	790.72	790.06	2.74	2.76	141.53	45.92	-65.33	109.92	104.42	5.51	19.959	
900.00	895.62	887.71	886.88	3.11	3.11	146.88	51.08	-67.82	131.33	125.12	6.21	21.142	
1,000.00	993.06	983.80	982.80	3.49	3.45	151.27	56.20	-70.29	156.57	149.66	6.91	22.658	
1,100.00	1,089.64	1,078.87	1,077.70	3.88	3.80	154.83	61.26	-72.73	185.56	177.96	7.60	24.405	
1,200.00	1,185.27	1,172.80	1,171.47	4.28	4.13	157.72	66.26	-75.15	218.18	209.89	8.29	26.322	
1,300.00	1,279.82	1,265.48	1,263.99	4.68	4.47	160.07	71.19	-77.53	254.33	245.35	8.97	28.345	
1,400.00	1,373.80	1,357.52	1,355.87	5.10	4.80	162.16	76.10	-79.89	292.32	282.69	9.63	30.348	
1,500.00	1,467.79	1,449.56	1,447.74	5.53	5.13	163.76	81.00	-82.26	330.58	320.29	10.29	32.114	
1,600.00	1,561.77	1,541.59	1,539.62	5.95	5.46	165.04	85.90	-84.62	369.01	358.06	10.96	33.678	
1,700.00	1,655.76	1,633.63	1,631.50	6.38	5.79	166.08	90.80	-86.99	407.58	395.95	11.62	35.070	
1,800.00	1,749.74	1,725.67	1,723.37	6.82	6.12	166.93	95.70	-89.35	446.23	433.94	12.29	36.316	
1,900.00	1,843.73	1,817.71	1,815.25	7.25	6.45	167.65	100.60	-91.72	484.96	472.00	12.95	37.435	
2,000.00	1,937.71	1,909.74	1,907.13	7.69	6.78	168.27	105.50	-94.08	523.74	510.12	13.62	38.446	
2,100.00	2,031.70	2,001.78	1,999.00	8.13	7.11	168.80	110.40	-96.44	562.57	548.28	14.29	39.363	
2,200.00	2,125.68	2,093.82	2,090.88	8.57	7.44	169.26	115.30	-98.81	601.43	586.47	14.96	40.198	
2,300.00	2,219.67	2,185.86	2,182.76	9.01	7.77	169.67	120.20	-101.17	640.32	624.69	15.63	40.961	
2,400.00	2,313.65	2,277.90	2,274.63	9.45	8.10	170.03	125.10	-103.54	679.24	662.94	16.30	41.661	
2,500.00	2,407.64	2,369.93	2,366.51	9.89	8.43	170.35	130.00	-105.90	718.18	701.20	16.98	42.306	
2,600.00	2,501.62	2,461.97	2,458.39	10.33	8.76	170.64	134.90	-108.27	757.13	739.48	17.65	42.901	
2,700.00	2,595.61	2,554.01	2,550.26	10.78	9.09	170.90	139.80	-110.63	796.10	777.78	18.32	43.452	
2,800.00	2,689.59	2,646.05	2,642.14	11.22	9.43	171.13	144.70	-113.00	835.08	816.09	19.00	43.963	
2,900.00	2,783.58	2,738.08	2,734.02	11.67	9.76	171.34	149.60	-115.36	874.07	854.41	19.67	44.439	
3,000.00	2,877.56	2,830.12	2,825.89	12.11	10.09	171.54	154.50	-117.73	913.08	892.73	20.34	44.883	
3,100.00	2,971.55	2,922.16	2,917.77	12.56	10.42	171.72	159.40	-120.09	952.09	931.07	21.02	45.299	
3,200.00	3,065.53	3,014.20	3,009.65	13.00	10.75	171.89	164.30	-122.46	991.10	969.41	21.69	45.688	
3,300.00	3,159.52	3,106.24	3,101.52	13.45	11.08	172.04	169.20	-124.82	1,030.13	1,007.76	22.37	46.053	
3,400.00	3,253.50	3,198.27	3,193.40	13.89	11.41	172.18	174.10	-127.18	1,069.16	1,046.11	23.04	46.396	
3,500.00	3,347.49	3,290.31	3,285.28	14.34	11.74	172.31	179.00	-129.55	1,108.19	1,084.47	23.72	46.720	
3,600.00	3,441.72	3,382.51	3,377.32	14.78	12.07	-164.53	183.91	-131.92	1,146.55	1,122.16	24.39	47.002	
3,700.00	3,535.44	3,474.03	3,468.67	15.20	12.40	-141.82	188.78	-134.27	1,182.99	1,157.94	25.05	47.218	
3,800.00	3,626.82	3,573.84	3,568.32	15.58	12.76	-125.63	194.07	-134.90	1,217.13	1,191.38	25.76	47.256	
3,900.00	3,714.08	3,685.54	3,679.30	15.92	13.14	-115.07	199.80	-124.16	1,247.82	1,221.32	26.50	47.080	
4,000.00	3,795.54	3,803.71	3,794.49	16.21	13.53	-108.33	205.55	-98.77	1,274.46	1,247.20	27.26	46.753	
4,100.00	3,869.59	3,929.44	3,912.60	16.47	13.93	-104.17	211.21	-56.35	1,296.60	1,268.57	28.03	46.262	
4,200.00	3,934.81	4,063.75	4,031.48	16.69	14.38	-101.86	216.64	5.69	1,313.76	1,284.95	28.81	45.598	
4,300.00	3,989.92	4,207.55	4,147.78	16.87	14.87	-101.01	221.62	89.88	1,325.52	1,295.90	29.62	44.745	
4,400.00	4,039.92	4,363.94	4,258.39	17.04	15.43	-102.71	225.94	200.11	1,332.70	1,302.18	30.52	43.668	
4,500.00	4,089.91	4,530.26	4,354.66	17.24	16.10	-103.36	229.15	335.44	1,335.42	1,303.87	31.55	42.322	
4,600.00	4,131.66	4,632.68	4,405.90	17.48	16.57	-103.53	230.62	424.11	1,337.58	1,305.14	32.44	41.231	
4,700.00	4,157.02	4,729.02	4,454.06	17.78	17.05	-103.95	232.01	507.53	1,344.08	1,310.77	33.32	40.342	
4,800.00	4,165.55	4,974.72	4,531.67	18.13	18.37	-105.82	235.85	738.66	1,350.75	1,315.73	35.02	38.574	
4,900.00	4,168.41	5,107.99	4,536.61	18.55	19.10	-105.87	238.06	871.77	1,350.73	1,314.44	36.29	37.216	
5,000.00	4,171.27	5,207.98	4,538.58	19.06	19.71	-105.83	239.72	971.73	1,350.49	1,313.01	37.48	36.036	
5,100.00	4,174.13	5,307.98	4,540.55	19.64	20.36	-105.79	241.38	1,071.69	1,350.24	1,311.50	38.74	34.850	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - 90H - OH - PERMIT													Offset Site Error:
Survey Program: 0-MWD+IFR1+SAG+FDIR													Offset Well Error:
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
5,200.00	4,176.99	5,407.97	4,542.52	20.28	21.04	-105.76	243.04	1,171.65	1,350.00	1,309.91	40.09	33.673	
5,300.00	4,179.85	5,507.97	4,544.50	20.97	21.77	-105.72	244.69	1,271.62	1,349.76	1,308.25	41.51	32.517	
5,400.00	4,182.71	5,607.97	4,546.47	21.70	22.53	-105.68	246.35	1,371.58	1,349.52	1,306.52	42.99	31.390	
5,500.00	4,185.57	5,707.96	4,548.44	22.47	23.31	-105.65	248.01	1,471.54	1,349.28	1,304.74	44.53	30.298	
5,600.00	4,188.43	5,807.96	4,550.41	23.28	24.13	-105.61	249.67	1,571.51	1,349.03	1,302.91	46.13	29.247	
5,700.00	4,191.29	5,907.95	4,552.38	24.11	24.97	-105.57	251.33	1,671.47	1,348.79	1,301.03	47.77	28.238	
5,800.00	4,194.15	6,007.95	4,554.35	24.97	25.83	-105.54	252.99	1,771.43	1,348.55	1,299.11	49.45	27.272	
5,900.00	4,197.01	6,107.95	4,556.32	25.85	26.71	-105.50	254.65	1,871.39	1,348.32	1,297.15	51.17	26.350	
6,000.00	4,199.87	6,207.94	4,558.29	26.75	27.61	-105.47	256.31	1,971.36	1,348.08	1,295.15	52.93	25.471	
6,100.00	4,202.73	6,307.94	4,560.26	27.66	28.52	-105.43	257.97	2,071.32	1,347.84	1,293.13	54.71	24.635	
6,200.00	4,205.59	6,407.93	4,562.24	28.60	29.45	-105.39	259.63	2,171.28	1,347.60	1,291.07	56.53	23.840	
6,300.00	4,208.45	6,507.93	4,564.21	29.54	30.39	-105.36	261.29	2,271.25	1,347.36	1,288.99	58.37	23.083	
6,400.00	4,211.31	6,607.93	4,566.18	30.50	31.35	-105.32	262.95	2,371.21	1,347.13	1,286.89	60.23	22.365	
6,500.00	4,214.17	6,707.92	4,568.15	31.47	32.31	-105.28	264.61	2,471.17	1,346.89	1,284.77	62.12	21.682	
6,600.00	4,217.03	6,807.92	4,570.12	32.45	33.29	-105.25	266.27	2,571.13	1,346.66	1,282.63	64.03	21.032	
6,700.00	4,219.89	6,907.91	4,572.09	33.44	34.27	-105.21	267.93	2,671.10	1,346.42	1,280.47	65.95	20.415	
6,800.00	4,222.75	7,007.91	4,574.06	34.44	35.27	-105.17	269.59	2,771.06	1,346.19	1,278.29	67.89	19.828	
6,900.00	4,225.61	7,107.91	4,576.03	35.45	36.27	-105.14	271.25	2,871.02	1,345.95	1,276.10	69.85	19.269	
7,000.00	4,228.47	7,207.90	4,578.00	36.46	37.28	-105.10	272.91	2,970.99	1,345.72	1,273.90	71.82	18.737	
7,100.00	4,231.33	7,307.90	4,579.98	37.48	38.29	-105.06	274.57	3,070.95	1,345.49	1,271.68	73.80	18.230	
7,200.00	4,234.19	7,407.89	4,581.95	38.51	39.31	-105.03	276.23	3,170.91	1,345.26	1,269.46	75.80	17.747	
7,300.00	4,237.05	7,507.89	4,583.92	39.54	40.34	-104.99	277.89	3,270.87	1,345.02	1,267.22	77.81	17.287	
7,400.00	4,239.91	7,607.89	4,585.89	40.58	41.37	-104.95	279.55	3,370.84	1,344.79	1,264.97	79.82	16.847	
7,500.00	4,242.77	7,707.88	4,587.86	41.62	42.41	-104.92	281.21	3,470.80	1,344.56	1,262.71	81.85	16.427	
7,600.00	4,245.63	7,807.88	4,589.83	42.66	43.45	-104.88	282.87	3,570.76	1,344.33	1,260.45	83.89	16.025	
7,700.00	4,248.49	7,907.87	4,591.80	43.71	44.50	-104.84	284.53	3,670.73	1,344.10	1,258.17	85.93	15.641	
7,800.00	4,251.35	8,007.87	4,593.77	44.77	45.55	-104.81	286.19	3,770.69	1,343.87	1,255.89	87.98	15.274	
7,900.00	4,254.21	8,107.87	4,595.74	45.82	46.60	-104.77	287.85	3,870.65	1,343.65	1,253.60	90.04	14.922	
8,000.00	4,257.07	8,207.86	4,597.72	46.89	47.66	-104.74	289.51	3,970.61	1,343.42	1,251.31	92.11	14.585	
8,100.00	4,259.93	8,307.86	4,599.69	47.95	48.72	-104.70	291.17	4,070.58	1,343.19	1,249.01	94.18	14.261	
8,200.00	4,262.79	8,407.85	4,601.66	49.02	49.78	-104.66	292.83	4,170.54	1,342.97	1,246.70	96.26	13.951	
8,300.00	4,265.65	8,507.85	4,603.63	50.08	50.84	-104.63	294.49	4,270.50	1,342.74	1,244.39	98.35	13.653	
8,400.00	4,268.51	8,607.85	4,605.60	51.16	51.91	-104.59	296.15	4,370.47	1,342.51	1,242.08	100.44	13.367	
8,500.00	4,271.37	8,707.84	4,607.57	52.23	52.98	-104.55	297.81	4,470.43	1,342.29	1,239.76	102.53	13.091	
8,600.00	4,274.23	8,807.84	4,609.54	53.31	54.05	-104.51	299.47	4,570.39	1,342.06	1,237.43	104.63	12.826	
8,700.00	4,277.09	8,907.84	4,611.51	54.38	55.13	-104.48	301.12	4,670.35	1,341.84	1,235.10	106.74	12.571	
8,800.00	4,279.95	9,007.83	4,613.49	55.47	56.21	-104.44	302.78	4,770.32	1,341.62	1,232.77	108.85	12.326	
8,900.00	4,282.81	9,107.83	4,615.46	56.55	57.28	-104.40	304.44	4,870.28	1,341.39	1,230.43	110.96	12.089	
9,000.00	4,285.67	9,207.82	4,617.43	57.63	58.36	-104.37	306.10	4,970.24	1,341.17	1,228.09	113.08	11.860	
9,100.00	4,288.53	9,307.82	4,619.40	58.72	59.45	-104.33	307.76	5,070.21	1,340.95	1,225.75	115.20	11.640	
9,200.00	4,291.39	9,407.82	4,621.37	59.80	60.53	-104.29	309.42	5,170.17	1,340.73	1,223.40	117.33	11.427	
9,300.00	4,294.25	9,507.81	4,623.34	60.89	61.62	-104.26	311.08	5,270.13	1,340.51	1,221.05	119.45	11.222	
9,400.00	4,297.11	9,607.81	4,625.31	61.98	62.70	-104.22	312.74	5,370.09	1,340.29	1,218.70	121.59	11.023	
9,500.00	4,299.97	9,707.80	4,627.28	63.07	63.79	-104.18	314.40	5,470.06	1,340.07	1,216.35	123.72	10.831	
9,600.00	4,302.83	9,807.80	4,629.25	64.16	64.88	-104.15	316.06	5,570.02	1,339.85	1,213.99	125.86	10.646	
9,700.00	4,305.69	9,907.80	4,631.23	65.26	65.97	-104.11	317.72	5,669.98	1,339.63	1,211.63	128.00	10.466	
9,800.00	4,308.55	10,007.79	4,633.20	66.35	67.06	-104.07	319.38	5,769.95	1,339.41	1,209.27	130.14	10.292	
9,850.70	4,310.00	10,058.48	4,634.20	66.91	67.62	-104.05	320.22	5,820.62	1,339.30	1,208.07	131.23	10.206 SF	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - 91H - OH - PERMIT													Offset Site Error:
Survey Program: 0-MWD+IFR1+SAG+FDIR													Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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
0.00	0.00	0.00	0.00	0.00	0.00	-66.12	8.10	-18.30	20.01				
100.00	100.00	100.00	100.00	0.29	0.29	-66.12	8.10	-18.30	20.01	19.44	0.57	34.892	
200.00	200.00	200.00	200.00	0.65	0.65	-66.12	8.10	-18.30	20.01	18.72	1.29	15.508	
300.00	300.00	300.00	300.00	1.00	1.00	-66.12	8.10	-18.30	20.01	18.01	2.01	9.969 CC	
400.00	399.98	400.14	400.12	1.35	1.35	111.38	6.39	-18.67	20.30	17.61	2.69	7.540 ES	
500.00	499.84	500.28	500.12	1.69	1.69	110.65	1.26	-19.76	21.16	17.79	3.37	6.288	
600.00	599.45	600.40	599.85	2.04	2.04	109.57	-7.29	-21.59	22.60	18.54	4.06	5.569	
700.00	698.70	700.51	699.21	2.39	2.39	108.26	-19.23	-24.14	24.62	19.85	4.77	5.166	
800.00	797.47	800.60	798.06	2.74	2.75	106.86	-34.56	-27.42	27.23	21.74	5.49	4.962	
900.00	895.62	900.66	896.27	3.11	3.12	105.48	-53.25	-31.41	30.43	24.20	6.23	4.888	
1,000.00	993.06	1,000.59	993.91	3.49	3.49	106.28	-74.05	-35.86	34.35	27.37	6.98	4.923	
1,100.00	1,089.64	1,100.40	1,091.42	3.88	3.87	111.69	-94.86	-40.31	39.42	31.69	7.73	5.098	
1,200.00	1,185.27	1,199.97	1,188.70	4.28	4.25	119.65	-115.61	-44.74	46.40	37.92	8.48	5.472	
1,300.00	1,279.82	1,299.18	1,285.64	4.68	4.64	128.27	-136.30	-49.17	56.15	46.94	9.21	6.097	
1,400.00	1,373.80	1,398.18	1,382.36	5.10	5.02	135.39	-156.93	-53.58	68.01	58.09	9.93	6.852	
1,500.00	1,467.79	1,497.18	1,479.08	5.53	5.41	140.35	-177.57	-57.99	80.60	69.96	10.64	7.574	
1,600.00	1,561.77	1,596.18	1,575.81	5.95	5.79	143.96	-198.21	-62.40	93.62	82.26	11.36	8.241	
1,700.00	1,655.76	1,695.18	1,672.53	6.38	6.18	146.68	-218.85	-66.81	106.92	94.84	12.08	8.849	
1,800.00	1,749.74	1,794.18	1,769.26	6.82	6.57	148.80	-239.49	-71.22	120.40	107.60	12.81	9.401	
1,900.00	1,843.73	1,893.18	1,865.98	7.25	6.96	150.48	-260.13	-75.63	134.02	120.48	13.53	9.902	
2,000.00	1,937.71	1,992.18	1,962.70	7.69	7.34	151.86	-280.76	-80.05	147.72	133.46	14.26	10.357	
2,100.00	2,031.70	2,091.18	2,059.43	8.13	7.73	153.00	-301.40	-84.46	161.50	146.50	14.99	10.772	
2,200.00	2,125.68	2,190.18	2,156.15	8.57	8.12	153.97	-322.04	-88.87	175.32	159.60	15.72	11.150	
2,300.00	2,219.67	2,289.18	2,252.88	9.01	8.51	154.79	-342.68	-93.28	189.19	172.74	16.46	11.497	
2,400.00	2,313.65	2,388.18	2,349.60	9.45	8.90	155.50	-363.32	-97.69	203.09	185.91	17.19	11.815	
2,500.00	2,407.64	2,487.18	2,446.32	9.89	9.30	156.12	-383.95	-102.10	217.02	199.10	17.92	12.109	
2,600.00	2,501.62	2,586.18	2,543.05	10.33	9.69	156.66	-404.59	-106.52	230.97	212.32	18.66	12.380	
2,700.00	2,595.61	2,685.18	2,639.77	10.78	10.08	157.14	-425.23	-110.93	244.94	225.55	19.39	12.630	
2,800.00	2,689.59	2,784.17	2,736.50	11.22	10.47	157.57	-445.87	-115.34	258.93	238.80	20.13	12.863	
2,900.00	2,783.58	2,883.17	2,833.22	11.67	10.86	157.96	-466.51	-119.75	272.92	252.06	20.87	13.080	
3,000.00	2,877.56	2,982.17	2,929.94	12.11	11.25	158.31	-487.15	-124.16	286.93	265.33	21.60	13.282	
3,100.00	2,971.55	3,081.17	3,026.67	12.56	11.64	158.62	-507.78	-128.57	300.95	278.61	22.34	13.472	
3,200.00	3,065.53	3,180.17	3,123.39	13.00	12.03	158.91	-528.42	-132.98	314.97	291.90	23.08	13.649	
3,300.00	3,159.52	3,279.17	3,220.12	13.45	12.43	159.17	-549.06	-137.40	329.01	305.19	23.82	13.815	
3,400.00	3,253.50	3,378.17	3,316.84	13.89	12.82	159.41	-569.70	-141.81	343.05	318.49	24.55	13.971	
3,500.00	3,347.49	3,477.17	3,413.56	14.34	13.21	159.64	-590.34	-146.22	357.09	331.80	25.29	14.119	
3,600.00	3,441.72	3,577.87	3,511.97	14.78	13.61	-179.60	-611.28	-150.35	371.69	345.63	26.06	14.264	
3,700.00	3,535.44	3,684.93	3,616.78	15.20	14.02	-159.53	-632.44	-146.26	386.36	359.52	26.84	14.396	
3,800.00	3,626.82	3,793.48	3,722.24	15.58	14.41	-145.51	-652.08	-130.04	400.48	372.93	27.56	14.534	
3,900.00	3,714.08	3,903.88	3,827.26	15.92	14.78	-136.90	-669.92	-101.28	414.02	385.83	28.19	14.687	
4,000.00	3,795.54	4,016.48	3,930.60	16.21	15.13	-131.99	-685.65	-59.61	426.98	398.26	28.72	14.867	
4,100.00	3,869.59	4,131.65	4,030.89	16.47	15.45	-129.50	-698.94	-4.70	439.37	410.25	29.13	15.085	
4,200.00	3,934.81	4,249.81	4,126.56	16.69	15.74	-128.68	-709.44	63.71	451.23	421.84	29.39	15.353	
4,300.00	3,989.92	4,371.37	4,215.83	16.87	16.00	-129.13	-716.76	145.77	462.56	433.07	29.49	15.683	
4,400.00	4,039.92	4,498.35	4,297.63	17.04	16.25	-131.66	-720.49	242.70	470.94	441.39	29.55	15.940	
4,500.00	4,089.91	4,624.54	4,366.02	17.24	16.51	-132.35	-720.23	348.65	473.30	443.47	29.83	15.867	
4,600.00	4,131.66	4,723.99	4,415.74	17.48	16.78	-132.70	-718.80	434.77	479.55	449.18	30.37	15.790	
4,700.00	4,157.02	4,838.32	4,472.26	17.78	17.23	-134.01	-717.15	534.13	497.73	467.19	30.55	16.295	
4,800.00	4,165.55	5,101.78	4,535.08	18.13	18.54	-136.57	-712.94	787.57	508.89	478.21	30.68	16.586	
4,900.00	4,168.41	5,201.77	4,537.05	18.55	19.09	-136.51	-711.28	887.53	508.25	476.69	31.55	16.107	
5,000.00	4,171.27	5,301.77	4,539.02	19.06	19.70	-136.44	-709.61	987.49	507.60	475.11	32.49	15.622	
5,100.00	4,174.13	5,401.77	4,540.99	19.64	20.34	-136.37	-707.95	1,087.46	506.96	473.47	33.49	15.138	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - 91H - OH - PERMIT													Offset Site Error:
Survey Program: 0-MWD+IFR1+SAG+FDIR													0.00 usft
Rule Assigned:													Offset Well Error:
0.00 usft													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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
5,200.00	4,176.99	5,501.76	4,542.97	20.28	21.03	-136.30	-706.29	1,187.42	506.32	471.78	34.54	14.658	
5,300.00	4,179.85	5,601.76	4,544.94	20.97	21.76	-136.23	-704.63	1,287.38	505.68	470.03	35.65	14.186	
5,400.00	4,182.71	5,701.75	4,546.91	21.70	22.51	-136.16	-702.97	1,387.35	505.03	468.24	36.80	13.725	
5,500.00	4,185.57	5,801.75	4,548.88	22.47	23.30	-136.09	-701.31	1,487.31	504.39	466.40	37.99	13.277	
5,600.00	4,188.43	5,901.75	4,550.85	23.28	24.12	-136.02	-699.65	1,587.27	503.75	464.53	39.22	12.843	
5,700.00	4,191.29	6,001.74	4,552.83	24.11	24.96	-135.95	-697.99	1,687.23	503.12	462.62	40.49	12.424	
5,800.00	4,194.15	6,101.74	4,554.80	24.97	25.82	-135.88	-696.33	1,787.20	502.48	460.68	41.80	12.022	
5,900.00	4,197.01	6,201.73	4,556.77	25.85	26.70	-135.81	-694.67	1,887.16	501.84	458.71	43.13	11.635	
6,000.00	4,199.87	6,301.73	4,558.74	26.75	27.60	-135.74	-693.01	1,987.12	501.20	456.71	44.49	11.265	
6,100.00	4,202.73	6,401.73	4,560.72	27.66	28.51	-135.67	-691.35	2,087.09	500.57	454.69	45.88	10.910	
6,200.00	4,205.59	6,501.72	4,562.69	28.60	29.44	-135.60	-689.69	2,187.05	499.93	452.64	47.29	10.571	
6,300.00	4,208.45	6,601.72	4,564.66	29.54	30.38	-135.52	-688.03	2,287.01	499.30	450.57	48.73	10.247	
6,400.00	4,211.31	6,701.72	4,566.63	30.50	31.34	-135.45	-686.37	2,386.97	498.67	448.48	50.18	9.937	
6,500.00	4,214.17	6,801.71	4,568.61	31.47	32.30	-135.38	-684.70	2,486.94	498.03	446.37	51.66	9.641	
6,600.00	4,217.03	6,901.71	4,570.58	32.45	33.28	-135.31	-683.04	2,586.90	497.40	444.25	53.15	9.358	
6,700.00	4,219.89	7,001.70	4,572.55	33.44	34.27	-135.24	-681.38	2,686.86	496.77	442.11	54.66	9.088	
6,800.00	4,222.75	7,101.70	4,574.52	34.44	35.26	-135.16	-679.72	2,786.82	496.14	439.95	56.19	8.830	
6,900.00	4,225.61	7,201.70	4,576.49	35.45	36.26	-135.09	-678.06	2,886.79	495.51	437.78	57.73	8.583	
7,000.00	4,228.47	7,301.69	4,578.47	36.46	37.27	-135.02	-676.40	2,986.75	494.88	435.60	59.28	8.348	
7,100.00	4,231.33	7,401.69	4,580.44	37.48	38.29	-134.95	-674.74	3,086.71	494.25	433.40	60.85	8.122	
7,200.00	4,234.19	7,501.68	4,582.41	38.51	39.31	-134.87	-673.08	3,186.68	493.63	431.19	62.43	7.907	
7,300.00	4,237.05	7,601.68	4,584.38	39.54	40.33	-134.80	-671.42	3,286.64	493.00	428.98	64.02	7.700	
7,400.00	4,239.91	7,701.68	4,586.36	40.58	41.37	-134.73	-669.76	3,386.60	492.37	426.75	65.63	7.502	
7,500.00	4,242.77	7,801.67	4,588.33	41.62	42.40	-134.65	-668.10	3,486.56	491.75	424.51	67.24	7.313	
7,600.00	4,245.63	7,901.67	4,590.30	42.66	43.44	-134.58	-666.44	3,586.53	491.13	422.26	68.87	7.131	
7,700.00	4,248.49	8,001.66	4,592.27	43.71	44.49	-134.51	-664.78	3,686.49	490.50	420.00	70.50	6.957	
7,800.00	4,251.35	8,101.66	4,594.24	44.77	45.54	-134.43	-663.12	3,786.45	489.88	417.73	72.15	6.790	
7,900.00	4,254.21	8,201.66	4,596.22	45.82	46.59	-134.36	-661.46	3,886.42	489.26	415.46	73.80	6.630	
8,000.00	4,257.07	8,301.65	4,598.19	46.89	47.65	-134.28	-659.79	3,986.38	488.64	413.18	75.46	6.475	
8,100.00	4,259.93	8,401.65	4,600.16	47.95	48.71	-134.21	-658.13	4,086.34	488.02	410.89	77.13	6.327	
8,200.00	4,262.79	8,501.64	4,602.13	49.02	49.77	-134.14	-656.47	4,186.30	487.40	408.59	78.81	6.185	
8,300.00	4,265.65	8,601.64	4,604.11	50.08	50.84	-134.06	-654.81	4,286.27	486.78	406.29	80.49	6.047	
8,400.00	4,268.51	8,701.64	4,606.08	51.16	51.90	-133.98	-653.15	4,386.23	486.16	403.98	82.19	5.915	
8,500.00	4,271.37	8,801.63	4,608.05	52.23	52.97	-133.91	-651.49	4,486.19	485.55	401.66	83.89	5.788	
8,600.00	4,274.23	8,901.63	4,610.02	53.31	54.05	-133.83	-649.83	4,586.16	484.93	399.34	85.59	5.665	
8,700.00	4,277.09	9,001.62	4,612.00	54.38	55.12	-133.76	-648.17	4,686.12	484.32	397.01	87.31	5.547	
8,800.00	4,279.95	9,101.62	4,613.97	55.47	56.20	-133.68	-646.51	4,786.08	483.70	394.67	89.03	5.433	
8,900.00	4,282.81	9,201.62	4,615.94	56.55	57.28	-133.61	-644.85	4,886.04	483.09	392.33	90.76	5.323	
9,000.00	4,285.67	9,301.61	4,617.91	57.63	58.36	-133.53	-643.19	4,986.01	482.48	389.99	92.49	5.217	
9,100.00	4,288.53	9,401.61	4,619.88	58.72	59.44	-133.45	-641.53	5,085.97	481.87	387.64	94.23	5.114	
9,200.00	4,291.39	9,501.60	4,621.86	59.80	60.52	-133.38	-639.87	5,185.93	481.26	385.28	95.98	5.014	
9,300.00	4,294.25	9,601.60	4,623.83	60.89	61.61	-133.30	-638.21	5,285.90	480.65	382.92	97.73	4.918	
9,400.00	4,297.11	9,701.60	4,625.80	61.98	62.70	-133.22	-636.55	5,385.86	480.04	380.55	99.49	4.825	
9,500.00	4,299.97	9,801.59	4,627.77	63.07	63.78	-133.15	-634.88	5,485.82	479.43	378.18	101.25	4.735	
9,600.00	4,302.83	9,901.59	4,629.75	64.16	64.87	-133.07	-633.22	5,585.78	478.82	375.81	103.02	4.648	
9,700.00	4,305.69	10,001.59	4,631.72	65.26	65.96	-132.99	-631.56	5,685.75	478.22	373.43	104.79	4.564	
9,800.00	4,308.55	10,101.58	4,633.69	66.35	67.06	-132.91	-629.90	5,785.71	477.61	371.04	106.57	4.482	
9,850.70	4,310.00	10,152.27	4,634.69	66.91	67.61	-132.87	-629.06	5,836.39	477.31	369.83	107.47	4.441 SF	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: ANTHONY 1 - Wellbore #1 - Wellbore #1													Offset Site Error:	
Survey Program: 1006-INC-ONLY													Offset Well Error:	
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
0.00	0.00	6.00	6.00	0.00	0.11	145.40	-518.52	357.69	629.92					
100.00	100.00	106.00	106.00	0.29	1.86	145.40	-518.52	357.69	629.92	627.78	2.14	293.775		
200.00	200.00	206.00	206.00	0.65	3.61	145.40	-518.52	357.69	629.92	625.67	4.26	148.042		
300.00	300.00	306.00	306.00	1.00	5.36	145.40	-518.52	357.69	629.92	623.56	6.37	98.954		
400.00	399.98	405.98	405.98	1.35	7.11	-36.95	-518.52	357.69	628.53	620.07	8.46	74.289		
500.00	499.84	505.84	505.84	1.69	8.86	-37.29	-518.52	357.69	624.35	613.80	10.55	59.184		
600.00	599.45	605.45	605.45	2.04	10.61	-37.87	-518.52	357.69	617.44	604.79	12.64	48.837		
700.00	698.70	704.70	704.70	2.39	12.35	-38.69	-518.52	357.69	607.84	593.11	14.73	41.252		
800.00	797.47	803.47	803.47	2.74	14.08	-39.78	-518.52	357.69	595.66	578.84	16.82	35.409		
900.00	895.62	901.62	901.62	3.11	15.80	-41.17	-518.52	357.69	581.04	562.13	18.90	30.737		
1,000.00	993.06	999.06	999.06	3.49	17.51	-42.89	-518.52	357.69	564.13	543.16	20.98	26.895		
1,100.00	1,089.64	1,095.65	1,095.64	3.88	19.24	-44.98	-518.52	357.69	545.18	522.10	23.08	23.620		
1,200.00	1,185.27	1,191.27	1,191.27	4.28	20.96	-47.50	-518.52	357.69	524.49	499.31	25.18	20.829		
1,300.00	1,279.82	1,285.75	1,285.74	4.68	22.66	-50.51	-518.24	357.69	502.26	474.99	27.27	18.416		
1,400.00	1,373.80	1,379.49	1,379.49	5.10	24.35	-53.52	-518.30	357.69	480.47	451.11	29.36	16.366		
1,500.00	1,467.79	1,473.29	1,473.28	5.53	26.04	-56.78	-518.43	357.69	460.22	428.76	31.46	14.631		
1,600.00	1,561.77	1,567.79	1,567.77	5.95	27.78	-60.34	-518.52	357.69	441.64	408.02	33.62	13.136		
1,700.00	1,655.76	1,661.77	1,661.76	6.38	29.54	-64.15	-518.52	357.69	424.94	389.12	35.82	11.864		
1,800.00	1,749.74	1,755.76	1,755.74	6.82	31.30	-68.22	-518.52	357.69	410.41	372.38	38.03	10.793		
1,900.00	1,843.73	1,849.54	1,849.52	7.25	33.06	-72.59	-518.04	357.69	398.12	357.87	40.24	9.893		
2,000.00	1,937.71	1,943.40	1,943.38	7.69	34.81	-77.09	-518.25	357.69	388.72	346.26	42.46	9.155		
2,100.00	2,031.70	2,037.74	2,037.70	8.13	36.61	-81.77	-518.52	357.69	382.13	337.42	44.71	8.546		
2,200.00	2,125.68	2,131.73	2,131.68	8.57	38.46	-86.59	-518.52	357.69	378.45	331.42	47.03	8.048		
2,270.09	2,191.55	2,197.60	2,197.55	8.88	39.77	-90.00	-518.52	357.69	377.69	329.05	48.64	7.765 CC		
2,300.00	2,219.67	2,225.71	2,225.67	9.01	40.32	-91.46	-518.52	357.69	377.83	328.50	49.33	7.660 ES		
2,400.00	2,313.65	2,319.74	2,319.69	9.45	42.18	-96.41	-517.73	357.69	380.35	328.74	51.61	7.369		
2,500.00	2,407.64	2,413.94	2,413.89	9.89	44.04	-101.15	-517.97	357.69	385.86	331.98	53.88	7.161		
2,600.00	2,501.62	2,508.31	2,508.25	10.33	45.91	-105.70	-518.45	357.69	394.16	338.03	56.14	7.022		
2,700.00	2,595.61	2,601.71	2,601.61	10.78	47.82	-110.07	-518.52	357.69	405.24	346.82	58.41	6.937		
2,800.00	2,689.59	2,695.70	2,695.59	11.22	49.75	-114.25	-518.52	357.69	418.83	358.13	60.70	6.900		
2,900.00	2,783.58	2,789.80	2,789.69	11.67	51.69	-118.29	-517.42	357.69	435.19	372.23	62.96	6.912		
3,000.00	2,877.56	2,884.59	2,884.47	12.11	53.64	-121.94	-517.63	357.69	453.03	387.79	65.24	6.944		
3,100.00	2,971.55	2,979.61	2,979.49	12.56	55.59	-125.30	-518.15	357.69	472.46	404.94	67.51	6.998		
3,200.00	3,065.53	3,071.71	3,071.53	13.00	57.53	-128.32	-518.52	357.69	493.51	423.75	69.75	7.075		
3,300.00	3,159.52	3,165.70	3,165.52	13.45	59.54	-131.20	-518.52	357.69	516.15	444.08	72.07	7.162		
3,400.00	3,253.50	3,259.68	3,259.50	13.89	61.55	-133.84	-518.52	357.69	540.01	465.63	74.39	7.259		
3,500.00	3,347.49	3,355.01	3,354.81	14.34	63.59	-136.37	-517.62	357.69	565.58	488.84	76.74	7.370		
3,600.00	3,441.72	3,450.90	3,450.70	14.78	65.64	-117.70	-518.10	357.69	586.47	507.38	79.09	7.415		
3,700.00	3,535.44	3,541.71	3,541.44	15.20	67.59	-99.58	-518.52	357.69	597.47	516.16	81.31	7.348		
3,800.00	3,626.82	3,633.09	3,632.82	15.58	69.57	-88.13	-518.52	357.69	599.85	516.32	83.53	7.182		
3,900.00	3,714.08	3,720.36	3,720.08	15.92	71.46	-82.62	-518.52	357.69	594.84	509.22	85.61	6.948		
4,000.00	3,795.54	3,802.44	3,802.15	16.21	73.23	-81.37	-517.07	357.69	585.87	498.31	87.55	6.692		
4,100.00	3,869.59	3,878.21	3,877.92	16.47	74.87	-82.81	-517.28	357.69	572.91	483.57	89.33	6.413		
4,200.00	3,934.81	3,944.98	3,944.67	16.69	76.31	-85.74	-517.65	357.69	560.51	469.59	90.92	6.165		
4,300.00	3,989.92	4,001.39	4,001.08	16.87	77.53	-89.10	-518.11	357.69	552.40	460.10	92.30	5.985		
4,333.91	4,006.87	4,018.73	4,018.42	16.92	77.91	-90.66	-518.28	357.69	551.62	458.88	92.75	5.948		
4,400.00	4,039.92	4,046.30	4,045.92	17.04	78.51	-93.14	-518.52	357.69	554.64	461.19	93.46	5.935 SF		
4,500.00	4,089.91	4,096.29	4,095.91	17.24	79.59	-97.53	-518.52	357.69	570.61	475.79	94.83	6.018		
4,600.00	4,131.66	4,138.04	4,137.66	17.48	80.50	-98.28	-518.52	357.69	600.42	504.39	96.03	6.253		
4,700.00	4,157.02	4,163.40	4,163.02	17.78	81.05	-95.84	-518.52	357.69	644.80	547.97	96.83	6.659		
4,800.00	4,165.55	4,171.93	4,171.55	18.13	81.24	-91.29	-518.52	357.69	701.59	604.39	97.21	7.218		
4,900.00	4,168.41	4,174.79	4,174.41	18.55	81.30	-91.59	-518.52	357.69	767.44	670.02	97.42	7.878		

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: ANTHONY 1 - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 1006-INC-ONLY		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,171.27	4,177.65	4,177.27	19.06	81.36	-91.88	-518.52	357.69	840.05	742.45	97.60	8.607	
5,100.00	4,174.13	4,180.51	4,180.13	19.64	81.43	-92.18	-518.52	357.69	917.81	820.05	97.76	9.388	
5,200.00	4,176.99	4,183.37	4,182.99	20.28	81.49	-92.48	-518.52	357.69	999.53	901.62	97.91	10.209	
5,300.00	4,179.85	4,186.23	4,185.85	20.97	81.55	-92.77	-518.52	357.69	1,084.31	986.27	98.04	11.060	
5,400.00	4,182.71	4,189.09	4,188.71	21.70	81.61	-93.07	-518.52	357.69	1,171.48	1,073.33	98.16	11.935	
5,500.00	4,185.57	4,191.95	4,191.57	22.47	81.68	-93.37	-518.52	357.69	1,260.56	1,162.29	98.27	12.827	
5,600.00	4,188.43	4,194.81	4,194.43	23.28	81.74	-93.66	-518.52	357.69	1,351.16	1,252.78	98.38	13.734	
5,700.00	4,191.29	4,197.67	4,197.29	24.11	81.80	-93.96	-518.52	357.69	1,442.99	1,344.51	98.48	14.653	
5,800.00	4,194.15	4,200.53	4,200.15	24.97	81.86	-94.25	-518.52	357.69	1,535.84	1,437.26	98.58	15.580	
5,900.00	4,197.01	4,203.39	4,203.01	25.85	81.92	-94.55	-518.52	357.69	1,629.53	1,530.86	98.68	16.514	
6,000.00	4,199.87	4,206.25	4,205.87	26.75	81.99	-94.84	-518.52	357.69	1,723.93	1,625.16	98.77	17.453	
6,100.00	4,202.73	4,209.11	4,208.73	27.66	82.05	-95.14	-518.52	357.69	1,818.92	1,720.05	98.87	18.397	
6,200.00	4,205.59	4,211.97	4,211.59	28.60	82.11	-95.43	-518.52	357.69	1,914.42	1,815.45	98.96	19.345	
6,300.00	4,208.45	4,214.83	4,214.45	29.54	82.17	-95.73	-518.52	357.69	2,010.35	1,911.29	99.06	20.295	
6,400.00	4,211.31	4,217.69	4,217.31	30.50	82.24	-96.02	-518.52	357.69	2,106.65	2,007.50	99.15	21.247	
6,500.00	4,214.17	4,220.55	4,220.17	31.47	82.30	-96.31	-518.52	357.69	2,203.28	2,104.04	99.25	22.200	
6,600.00	4,217.03	4,223.41	4,223.03	32.45	82.36	-96.61	-518.52	357.69	2,300.20	2,200.86	99.34	23.155	
6,700.00	4,219.89	4,226.27	4,225.89	33.44	82.42	-96.90	-518.52	357.69	2,397.36	2,297.93	99.43	24.110	
6,800.00	4,222.75	4,229.13	4,228.75	34.44	82.49	-97.19	-518.52	357.69	2,494.75	2,395.22	99.53	25.065	
6,900.00	4,225.61	4,231.99	4,231.61	35.45	82.55	-97.49	-518.52	357.69	2,592.33	2,492.70	99.63	26.021	
7,000.00	4,228.47	4,234.85	4,234.47	36.46	82.61	-97.78	-518.52	357.69	2,690.08	2,590.36	99.72	26.976	
7,100.00	4,231.33	4,237.71	4,237.33	37.48	82.67	-98.07	-518.52	357.69	2,788.00	2,688.18	99.82	27.931	
7,200.00	4,234.19	4,240.57	4,240.19	38.51	82.73	-98.36	-518.52	357.69	2,886.05	2,786.13	99.92	28.885	
7,300.00	4,237.05	4,243.43	4,243.05	39.54	82.80	-98.65	-518.52	357.69	2,984.23	2,884.21	100.01	29.838	
7,400.00	4,239.91	4,246.29	4,245.91	40.58	82.86	-98.94	-518.52	357.69	3,082.52	2,982.41	100.11	30.790	
7,500.00	4,242.77	4,249.15	4,248.77	41.62	82.92	-99.23	-518.52	357.69	3,180.92	3,080.71	100.21	31.741	
7,600.00	4,245.63	4,252.01	4,251.63	42.66	82.98	-99.52	-518.52	357.69	3,279.41	3,179.10	100.31	32.691	
7,700.00	4,248.49	4,254.87	4,254.49	43.71	83.05	-99.81	-518.52	357.69	3,377.99	3,277.57	100.42	33.640	
7,800.00	4,251.35	4,257.73	4,257.35	44.77	83.11	-100.10	-518.52	357.69	3,476.65	3,376.13	100.52	34.587	
7,900.00	4,254.21	4,260.59	4,260.21	45.82	83.17	-100.38	-518.52	357.69	3,575.38	3,474.75	100.62	35.533	
8,000.00	4,257.07	4,263.45	4,263.07	46.89	83.23	-100.67	-518.52	357.69	3,674.17	3,573.45	100.73	36.477	
8,100.00	4,259.93	4,266.31	4,265.93	47.95	83.29	-100.96	-518.52	357.69	3,773.03	3,672.20	100.83	37.420	
8,200.00	4,262.79	4,269.17	4,268.79	49.02	83.36	-101.24	-518.52	357.69	3,871.94	3,771.01	100.94	38.360	
8,300.00	4,265.65	4,272.03	4,271.65	50.08	83.42	-101.53	-518.52	357.69	3,970.91	3,869.87	101.04	39.299	
8,400.00	4,268.51	4,274.89	4,274.51	51.16	83.48	-101.81	-518.52	357.69	4,069.92	3,968.77	101.15	40.237	
8,500.00	4,271.37	4,277.77	4,277.39	52.23	83.54	-102.08	-517.50	357.69	4,169.10	4,067.84	101.26	41.172	
8,600.00	4,274.23	4,280.68	4,280.30	53.31	83.61	-102.37	-517.50	357.69	4,268.20	4,166.83	101.37	42.105	
8,700.00	4,277.09	4,283.60	4,283.21	54.38	83.67	-102.65	-517.50	357.69	4,367.34	4,265.86	101.48	43.036	
8,800.00	4,279.95	4,286.51	4,286.12	55.47	83.73	-102.94	-517.50	357.69	4,466.51	4,364.92	101.59	43.965	
8,900.00	4,282.81	4,289.42	4,289.03	56.55	83.80	-103.23	-517.50	357.69	4,565.72	4,464.01	101.71	44.891	
9,000.00	4,285.67	4,292.33	4,291.94	57.63	83.86	-103.51	-517.50	357.69	4,664.96	4,563.14	101.82	45.816	
9,100.00	4,288.53	4,295.24	4,294.85	58.72	83.92	-103.80	-517.50	357.69	4,764.23	4,662.30	101.93	46.739	
9,200.00	4,291.39	4,298.15	4,297.76	59.80	83.99	-104.08	-517.51	357.69	4,863.53	4,761.48	102.05	47.659	
9,300.00	4,294.25	4,301.06	4,300.67	60.89	84.05	-104.37	-517.51	357.69	4,962.85	4,860.69	102.16	48.577	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: ANTHONEY 2 - Wellbore #1 - Wellbore #1													Offset Site Error:
Survey Program: 1004-INC-ONLY													Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	21.00	21.00	0.00	0.37	-174.18	-1,141.93	-116.46	1,147.85				
100.00	100.00	121.00	121.00	0.29	2.12	-174.18	-1,141.93	-116.46	1,147.85	1,145.45	2.41	476.873	
200.00	200.00	221.00	221.00	0.65	3.87	-174.18	-1,141.93	-116.46	1,147.85	1,143.34	4.52	254.074	
300.00	300.00	321.00	321.00	1.00	5.62	-174.18	-1,141.93	-116.46	1,147.85	1,141.22	6.63	173.168	
400.00	399.98	420.98	420.98	1.35	7.38	3.59	-1,141.93	-116.46	1,146.11	1,137.39	8.72	131.378	
500.00	499.84	520.84	520.84	1.69	9.13	3.61	-1,141.93	-116.46	1,140.89	1,130.07	10.81	105.499	
600.00	599.45	620.45	620.45	2.04	10.87	3.65	-1,141.93	-116.46	1,132.19	1,119.28	12.91	87.709	
700.00	698.70	719.70	719.70	2.39	12.61	3.71	-1,141.93	-116.46	1,120.03	1,105.03	15.00	74.667	
800.00	797.47	818.47	818.47	2.74	14.34	3.78	-1,141.93	-116.46	1,104.42	1,087.33	17.08	64.643	
900.00	895.62	916.62	916.62	3.11	16.06	3.87	-1,141.93	-116.46	1,085.38	1,066.22	19.16	56.651	
1,000.00	993.06	1,014.06	1,014.06	3.49	17.77	3.99	-1,141.93	-116.46	1,062.94	1,041.71	21.22	50.086	
1,100.00	1,089.64	1,110.65	1,110.64	3.88	19.48	4.12	-1,141.93	-116.46	1,037.12	1,013.83	23.29	44.540	
1,200.00	1,185.27	1,206.27	1,206.27	4.28	21.18	4.29	-1,141.93	-116.46	1,007.95	982.62	25.33	39.794	
1,300.00	1,279.82	1,300.32	1,300.31	4.68	22.84	4.49	-1,141.68	-116.46	975.24	947.89	27.35	35.658	
1,400.00	1,373.80	1,393.53	1,393.52	5.10	24.49	4.65	-1,141.77	-116.46	941.26	911.93	29.34	32.086	
1,500.00	1,467.79	1,488.79	1,488.79	5.53	26.18	4.82	-1,141.93	-116.46	907.36	876.00	31.36	28.934	
1,600.00	1,561.77	1,582.78	1,582.77	5.95	27.85	5.01	-1,141.93	-116.46	873.32	839.95	33.36	26.175	
1,700.00	1,655.76	1,676.76	1,676.76	6.38	29.51	5.21	-1,141.93	-116.46	839.28	803.91	35.37	23.728	
1,800.00	1,749.74	1,770.49	1,770.48	6.82	31.17	5.44	-1,141.66	-116.46	804.99	767.61	37.37	21.539	
1,900.00	1,843.73	1,863.87	1,863.86	7.25	32.83	5.67	-1,141.73	-116.46	771.04	731.66	39.37	19.583	
2,000.00	1,937.71	1,957.30	1,957.29	7.69	34.48	5.93	-1,141.87	-116.46	737.18	695.80	41.37	17.817	
2,100.00	2,031.70	2,052.71	2,052.70	8.13	36.21	6.23	-1,141.93	-116.46	703.24	659.79	43.45	16.185	
2,200.00	2,125.68	2,146.69	2,146.68	8.57	37.93	6.54	-1,141.93	-116.46	669.27	623.75	45.52	14.704	
2,300.00	2,219.67	2,240.67	2,240.66	9.01	39.65	6.90	-1,141.65	-116.46	635.04	587.46	47.58	13.346	
2,400.00	2,313.65	2,334.18	2,334.17	9.45	41.36	7.28	-1,141.69	-116.46	601.15	551.51	49.65	12.109	
2,500.00	2,407.64	2,427.75	2,427.73	9.89	43.07	7.72	-1,141.80	-116.46	567.37	515.66	51.71	10.972	
2,600.00	2,501.62	2,522.66	2,522.62	10.33	44.84	8.21	-1,141.93	-116.46	533.62	479.79	53.83	9.913	
2,700.00	2,595.61	2,616.64	2,616.61	10.78	46.68	8.77	-1,141.93	-116.46	499.80	443.78	56.02	8.922	
2,800.00	2,689.59	2,710.63	2,710.59	11.22	48.51	9.41	-1,141.93	-116.46	466.02	407.81	58.21	8.006	
2,900.00	2,783.58	2,804.19	2,804.15	11.67	50.33	10.17	-1,141.07	-116.46	431.46	371.06	60.39	7.144	
3,000.00	2,877.56	2,897.34	2,897.30	12.11	52.15	11.02	-1,141.27	-116.46	398.01	335.43	62.58	6.360	
3,100.00	2,971.55	2,990.65	2,990.60	12.56	53.97	12.02	-1,141.68	-116.46	364.87	300.10	64.77	5.634	
3,200.00	3,065.53	3,086.63	3,086.53	13.00	55.88	13.26	-1,141.93	-116.46	331.68	264.64	67.04	4.947	
3,300.00	3,159.52	3,180.61	3,180.52	13.45	57.79	14.76	-1,141.93	-116.46	298.42	229.09	69.33	4.305	
3,400.00	3,253.50	3,274.52	3,274.41	13.89	59.69	16.70	-1,140.91	-116.46	264.42	192.80	71.62	3.692	
3,500.00	3,347.49	3,367.78	3,367.67	14.34	61.59	19.07	-1,141.10	-116.46	231.91	157.98	73.93	3.137	
3,600.00	3,441.72	3,461.51	3,461.40	14.78	63.49	45.51	-1,141.62	-116.46	203.54	127.22	76.32	2.667	
3,700.00	3,535.44	3,556.60	3,556.44	15.20	65.46	75.61	-1,141.93	-116.46	186.34	107.37	78.97	2.360	
3,752.27	3,583.60	3,604.77	3,604.60	15.40	66.48	90.00	-1,141.93	-116.46	183.69	103.23	80.46	2.283 CC, ES	
3,800.00	3,626.82	3,647.98	3,647.82	15.58	67.39	101.93	-1,141.93	-116.46	186.09	104.27	81.82	2.274 SF	
3,900.00	3,714.08	3,735.25	3,735.08	15.92	69.23	122.82	-1,141.93	-116.46	207.40	122.83	84.57	2.452	
4,000.00	3,795.54	3,816.52	3,816.34	16.21	70.95	138.56	-1,140.89	-116.46	249.23	162.27	86.96	2.866	
4,100.00	3,869.59	3,890.42	3,890.23	16.47	72.51	149.72	-1,141.14	-116.46	308.55	219.62	88.93	3.470	
4,200.00	3,934.81	3,955.52	3,955.33	16.69	73.88	157.92	-1,141.51	-116.46	380.74	290.17	90.57	4.204	
4,300.00	3,989.92	4,011.18	4,010.92	16.87	75.06	164.37	-1,141.93	-116.46	462.72	370.80	91.91	5.034	
4,400.00	4,039.92	4,061.18	4,060.92	17.04	76.12	166.76	-1,141.93	-116.46	548.61	455.52	93.09	5.893	
4,500.00	4,089.91	4,111.18	4,110.91	17.24	77.19	168.42	-1,141.93	-116.46	634.71	540.44	94.27	6.733	
4,600.00	4,131.66	4,152.93	4,152.66	17.48	78.09	165.26	-1,141.93	-116.46	725.03	629.77	95.26	7.611	
4,700.00	4,157.02	4,178.29	4,178.02	17.78	78.63	155.10	-1,141.93	-116.46	821.29	725.43	95.86	8.567	
4,800.00	4,165.55	4,186.82	4,186.55	18.13	78.81	112.28	-1,141.93	-116.46	920.55	824.48	96.07	9.582	
4,900.00	4,168.41	4,189.68	4,189.41	18.55	78.87	114.43	-1,141.93	-116.46	1,020.29	924.14	96.15	10.611	
5,000.00	4,171.27	4,192.54	4,192.27	19.06	78.93	116.52	-1,141.93	-116.46	1,120.07	1,023.85	96.23	11.640	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design:SMITHDALE 29 FEDERAL - OFFSET: ANTHONY 2 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 1004-INC-ONLY		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	4,174.13	4,195.40	4,195.13	19.64	78.99	118.52	-1,141.93	-116.46	1,219.88	1,123.58	96.30	12.667		
5,200.00	4,176.99	4,198.26	4,197.99	20.28	79.05	120.46	-1,141.93	-116.46	1,319.71	1,223.33	96.38	13.692		
5,300.00	4,179.85	4,201.12	4,200.85	20.97	79.12	122.32	-1,141.93	-116.46	1,419.56	1,323.10	96.46	14.717		
5,400.00	4,182.71	4,203.98	4,203.71	21.70	79.18	124.11	-1,141.93	-116.46	1,519.43	1,422.89	96.54	15.739		
5,500.00	4,185.57	4,206.84	4,206.57	22.47	79.24	125.83	-1,141.93	-116.46	1,619.30	1,522.68	96.62	16.760		
5,600.00	4,188.43	4,209.70	4,209.43	23.28	79.30	127.47	-1,141.93	-116.46	1,719.19	1,622.49	96.70	17.779		
5,700.00	4,191.29	4,212.56	4,212.29	24.11	79.36	129.05	-1,141.93	-116.46	1,819.08	1,722.30	96.78	18.796		
5,800.00	4,194.15	4,215.42	4,215.15	24.97	79.42	130.55	-1,141.93	-116.46	1,918.98	1,822.12	96.86	19.812		
5,900.00	4,197.01	4,218.28	4,218.01	25.85	79.48	132.00	-1,141.93	-116.46	2,018.89	1,921.94	96.94	20.825		
6,000.00	4,199.87	4,221.14	4,220.87	26.75	79.54	133.38	-1,141.93	-116.46	2,118.80	2,021.77	97.03	21.837		
6,100.00	4,202.73	4,224.00	4,223.73	27.66	79.60	134.70	-1,141.93	-116.46	2,218.71	2,121.60	97.11	22.847		
6,200.00	4,205.59	4,226.86	4,226.59	28.60	79.67	135.96	-1,141.93	-116.46	2,318.63	2,221.44	97.20	23.855		
6,300.00	4,208.45	4,229.72	4,229.45	29.54	79.73	137.17	-1,141.93	-116.46	2,418.56	2,321.27	97.28	24.861		
6,400.00	4,211.31	4,232.58	4,232.31	30.50	79.79	138.32	-1,141.93	-116.46	2,518.48	2,421.11	97.37	25.865		
6,500.00	4,214.17	4,235.44	4,235.17	31.47	79.85	139.43	-1,141.93	-116.46	2,618.41	2,520.95	97.46	26.867		
6,600.00	4,217.03	4,238.30	4,238.03	32.45	79.91	140.49	-1,141.93	-116.46	2,718.34	2,620.79	97.55	27.867		
6,700.00	4,219.89	4,241.16	4,240.89	33.44	79.97	141.50	-1,141.93	-116.46	2,818.27	2,720.64	97.64	28.865		
6,800.00	4,222.75	4,244.01	4,243.73	34.44	80.03	143.02	-1,140.65	-116.46	2,918.16	2,820.43	97.72	29.862		
6,900.00	4,225.61	4,246.86	4,246.58	35.45	80.09	143.93	-1,140.65	-116.46	3,018.09	2,920.28	97.81	30.856		
7,000.00	4,228.47	4,249.70	4,249.42	36.46	80.15	144.81	-1,140.66	-116.46	3,118.03	3,020.13	97.90	31.848		
7,100.00	4,231.33	4,252.55	4,252.27	37.48	80.21	145.66	-1,140.66	-116.46	3,217.97	3,119.97	98.00	32.837		
7,200.00	4,234.19	4,255.39	4,255.11	38.51	80.28	146.46	-1,140.66	-116.46	3,317.91	3,219.82	98.09	33.825		
7,300.00	4,237.05	4,258.23	4,257.95	39.54	80.34	147.24	-1,140.66	-116.46	3,417.85	3,319.67	98.19	34.810		
7,400.00	4,239.91	4,261.08	4,260.80	40.58	80.40	147.98	-1,140.66	-116.46	3,517.80	3,419.51	98.28	35.793		
7,500.00	4,242.77	4,263.92	4,263.64	41.62	80.46	148.69	-1,140.66	-116.46	3,617.74	3,519.36	98.38	36.774		
7,600.00	4,245.63	4,266.76	4,266.48	42.66	80.52	149.38	-1,140.67	-116.46	3,717.68	3,619.21	98.48	37.753		
7,700.00	4,248.49	4,269.61	4,269.32	43.71	80.58	150.04	-1,140.67	-116.46	3,817.63	3,719.06	98.57	38.729		
7,800.00	4,251.35	4,272.45	4,272.16	44.77	80.64	150.67	-1,140.67	-116.46	3,917.58	3,818.90	98.67	39.703		
7,900.00	4,254.21	4,275.29	4,275.01	45.82	80.70	151.28	-1,140.68	-116.46	4,017.52	3,918.75	98.77	40.675		
8,000.00	4,257.07	4,278.13	4,277.85	46.89	80.76	151.86	-1,140.68	-116.46	4,117.47	4,018.60	98.87	41.644		
8,100.00	4,259.93	4,280.97	4,280.69	47.95	80.82	152.42	-1,140.69	-116.46	4,217.42	4,118.44	98.97	42.611		
8,200.00	4,262.79	4,283.81	4,283.53	49.02	80.88	152.97	-1,140.69	-116.46	4,317.37	4,218.29	99.08	43.576		
8,300.00	4,265.65	4,286.65	4,286.37	50.08	80.94	153.49	-1,140.70	-116.46	4,417.32	4,318.13	99.18	44.538		
8,400.00	4,268.51	4,289.49	4,289.20	51.16	81.00	153.99	-1,140.70	-116.46	4,517.26	4,417.98	99.28	45.498		
8,500.00	4,271.37	4,292.33	4,292.04	52.23	81.06	154.48	-1,140.71	-116.46	4,617.21	4,517.82	99.39	46.456		
8,600.00	4,274.23	4,295.16	4,294.88	53.31	81.13	154.95	-1,140.72	-116.46	4,717.16	4,617.67	99.50	47.411		
8,700.00	4,277.09	4,298.00	4,297.72	54.38	81.19	155.40	-1,140.72	-116.46	4,817.12	4,717.51	99.60	48.364		
8,800.00	4,279.95	4,300.84	4,300.56	55.47	81.25	155.84	-1,140.73	-116.46	4,917.07	4,817.36	99.71	49.314		

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: ANTHONY STATE 3 - Wellbore #1 - Wellbore #1													Offset Site Error:
Survey Program: 474-MWD													Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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
0.00	0.00	24.50	24.50	0.00	0.67	179.91	-1,157.18	1.83	1,157.18				
100.00	100.00	124.92	124.92	0.29	3.42	179.91	-1,157.15	1.82	1,157.15	1,153.44	3.71	311.976	
200.00	200.00	225.34	225.34	0.65	6.17	179.91	-1,157.09	1.81	1,157.09	1,150.27	6.82	169.695	
300.00	300.00	325.75	325.75	1.00	8.92	179.91	-1,156.99	1.79	1,156.99	1,147.06	9.93	116.536	
400.00	399.98	426.15	426.15	1.35	11.68	-2.33	-1,156.85	1.75	1,155.11	1,142.09	13.02	88.705	
500.00	499.84	518.49	518.49	1.69	12.99	-2.35	-1,156.84	1.87	1,149.88	1,135.20	14.68	78.338	
600.00	599.45	600.30	600.24	2.04	13.00	-2.50	-1,158.02	4.41	1,142.59	1,127.56	15.03	76.013	
700.00	698.70	686.43	686.01	2.39	13.03	-2.91	-1,160.15	11.82	1,132.97	1,117.58	15.39	73.619	
800.00	797.47	777.00	775.69	2.74	13.07	-3.59	-1,163.10	24.14	1,120.87	1,105.11	15.76	71.143	
900.00	895.62	862.49	860.01	3.11	13.11	-4.37	-1,166.65	37.80	1,106.46	1,090.34	16.12	68.632	
1,000.00	993.06	954.53	950.53	3.49	13.17	-5.33	-1,171.31	53.73	1,089.83	1,073.33	16.50	66.043	
1,100.00	1,089.64	1,062.05	1,055.46	3.88	13.27	-6.75	-1,176.14	76.63	1,069.93	1,053.01	16.92	63.251	
1,200.00	1,185.27	1,169.32	1,159.05	4.28	13.38	-8.56	-1,178.51	104.32	1,045.42	1,028.07	17.35	60.256	
1,300.00	1,279.82	1,254.56	1,241.19	4.68	13.49	-10.19	-1,180.29	127.06	1,018.45	1,000.68	17.77	57.302	
1,400.00	1,373.80	1,354.18	1,336.49	5.10	13.64	-12.25	-1,182.17	155.97	991.03	972.80	18.23	54.360	
1,500.00	1,467.79	1,446.79	1,425.66	5.53	13.78	-14.15	-1,183.49	180.94	963.92	945.23	18.69	51.570	
1,600.00	1,561.77	1,522.47	1,498.57	5.95	13.91	-15.75	-1,185.15	201.18	938.57	919.44	19.13	49.052	
1,700.00	1,655.76	1,608.73	1,581.55	6.38	14.06	-17.67	-1,187.85	224.56	915.32	895.70	19.62	46.653	
1,800.00	1,749.74	1,709.52	1,678.41	6.82	14.26	-20.05	-1,190.49	252.31	893.04	872.87	20.17	44.273	
1,900.00	1,843.73	1,807.36	1,773.05	7.25	14.46	-22.32	-1,192.90	276.96	871.29	850.56	20.73	42.033	
2,000.00	1,937.71	1,900.75	1,864.34	7.69	14.66	-24.30	-1,196.71	296.22	850.62	829.35	21.27	39.982	
2,100.00	2,031.70	1,997.23	1,959.16	8.13	14.86	-26.23	-1,201.53	313.40	830.74	808.91	21.84	38.041	
2,200.00	2,125.68	2,120.28	2,080.96	8.57	15.12	-28.41	-1,208.61	329.10	810.51	788.05	22.46	36.085	
2,300.00	2,219.67	2,262.37	2,222.78	9.01	15.34	-30.47	-1,213.60	335.89	785.29	762.27	23.02	34.111	
2,400.00	2,313.65	2,357.26	2,317.62	9.45	15.45	-31.76	-1,215.89	337.15	758.27	734.72	23.55	32.199	
2,500.00	2,407.64	2,465.82	2,426.18	9.89	15.56	-33.35	-1,217.09	337.71	730.10	706.04	24.06	30.340	
2,600.00	2,501.62	2,559.37	2,519.73	10.33	15.68	-34.87	-1,217.63	338.33	702.10	677.49	24.60	28.537	
2,700.00	2,595.61	2,653.06	2,613.41	10.78	15.79	-36.49	-1,218.40	338.85	674.75	649.59	25.16	26.819	
2,800.00	2,689.59	2,747.80	2,708.15	11.22	15.88	-38.23	-1,219.27	339.08	647.88	622.15	25.73	25.184	
2,900.00	2,783.58	2,840.27	2,800.61	11.67	15.98	-40.08	-1,220.11	339.57	621.79	595.46	26.32	23.621	
3,000.00	2,877.56	2,934.95	2,895.28	12.11	16.10	-42.13	-1,221.14	340.07	596.54	569.60	26.94	22.147	
3,100.00	2,971.55	3,030.81	2,991.13	12.56	16.20	-44.35	-1,222.20	340.29	571.94	544.38	27.56	20.752	
3,200.00	3,065.53	3,125.52	3,085.85	13.00	16.32	-46.77	-1,222.85	340.62	548.02	519.80	28.21	19.423	
3,300.00	3,159.52	3,220.06	3,180.38	13.45	16.44	-49.37	-1,223.59	340.87	525.15	496.27	28.88	18.182	
3,400.00	3,253.50	3,314.35	3,274.67	13.89	16.55	-52.17	-1,224.29	341.02	503.38	473.83	29.56	17.032	
3,500.00	3,347.49	3,413.58	3,373.90	14.34	16.61	-55.36	-1,224.91	340.94	482.71	452.55	30.16	16.007	
3,600.00	3,441.72	3,511.18	3,471.49	14.78	16.58	-36.70	-1,223.94	340.47	458.44	427.80	30.64	14.962	
3,700.00	3,535.44	3,604.33	3,564.63	15.20	16.52	-16.20	-1,222.76	339.94	425.77	394.74	31.03	13.723	
3,800.00	3,626.82	3,693.89	3,654.18	15.58	16.49	0.51	-1,221.62	339.63	384.71	353.38	31.34	12.277	
3,900.00	3,714.08	3,780.65	3,740.93	15.92	16.47	14.79	-1,220.67	339.57	335.83	304.31	31.52	10.654	
4,000.00	3,795.54	3,862.06	3,822.34	16.21	16.45	29.64	-1,219.71	339.42	280.24	248.72	31.52	8.891	
4,100.00	3,869.59	3,935.78	3,896.05	16.47	16.44	47.90	-1,218.81	339.34	221.83	190.64	31.19	7.113	
4,200.00	3,934.81	4,001.07	3,961.34	16.69	16.43	70.22	-1,217.96	339.28	169.95	139.59	30.36	5.598	
4,297.12	3,988.63	4,054.59	4,014.85	16.87	16.43	90.82	-1,217.25	339.21	146.92	116.98	29.94	4.907 CC, ES, SF	
4,300.00	3,989.92	4,055.87	4,016.14	16.87	16.43	91.37	-1,217.23	339.21	147.02	117.06	29.96	4.907	
4,400.00	4,039.92	4,105.52	4,065.78	17.04	16.43	107.64	-1,216.66	339.15	172.14	140.71	31.43	5.477	
4,500.00	4,089.91	4,155.01	4,115.27	17.24	16.42	121.30	-1,216.13	339.02	229.57	196.85	32.71	7.017	
4,600.00	4,131.66	4,195.82	4,156.07	17.48	16.41	121.89	-1,215.66	338.81	305.08	271.71	33.37	9.142	
4,700.00	4,157.02	4,220.48	4,180.73	17.78	16.40	112.76	-1,215.36	338.63	392.76	359.08	33.68	11.662	
4,800.00	4,165.55	4,228.41	4,188.66	18.13	16.39	94.73	-1,215.27	338.58	486.66	452.85	33.81	14.392	
4,900.00	4,168.41	4,230.65	4,190.90	18.55	16.39	95.61	-1,215.25	338.57	582.85	548.97	33.88	17.202	
5,000.00	4,171.27	4,232.91	4,193.16	19.06	16.39	96.49	-1,215.22	338.55	680.13	646.21	33.93	20.047	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: ANTHONY STATE 3 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program: 474-MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	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		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	4,174.13	4,235.18	4,195.43	19.64	16.39	97.38	-1,215.20	338.54	778.10	744.14	33.96	22.914	
5,200.00	4,176.99	4,237.46	4,197.71	20.28	16.39	98.26	-1,215.17	338.52	876.52	842.54	33.98	25.794	
5,300.00	4,179.85	4,239.75	4,200.00	20.97	16.39	99.15	-1,215.15	338.51	975.25	941.25	34.00	28.683	
5,400.00	4,182.71	4,242.05	4,202.30	21.70	16.39	100.03	-1,215.12	338.50	1,074.22	1,040.20	34.02	31.576	
5,500.00	4,185.57	4,244.36	4,204.61	22.47	16.39	100.92	-1,215.10	338.48	1,173.35	1,139.32	34.04	34.472	
5,600.00	4,188.43	4,246.68	4,206.93	23.28	16.39	101.80	-1,215.07	338.47	1,272.62	1,238.56	34.06	37.368	
5,700.00	4,191.29	4,249.01	4,209.26	24.11	16.38	102.69	-1,215.05	338.45	1,371.99	1,337.92	34.07	40.265	
5,800.00	4,194.15	4,251.36	4,211.61	24.97	16.38	103.57	-1,215.02	338.44	1,471.44	1,437.35	34.09	43.160	
5,900.00	4,197.01	4,253.71	4,213.96	25.85	16.38	104.45	-1,215.00	338.43	1,570.96	1,536.85	34.11	46.052	
6,000.00	4,199.87	4,256.08	4,216.33	26.75	16.38	105.33	-1,214.97	338.41	1,670.53	1,636.40	34.13	48.943	
6,100.00	4,202.73	4,258.46	4,218.71	27.66	16.38	106.20	-1,214.95	338.40	1,770.15	1,735.99	34.15	51.829	
6,200.00	4,205.59	4,260.85	4,221.09	28.60	16.38	107.07	-1,214.92	338.38	1,869.80	1,835.63	34.18	54.712	
6,300.00	4,208.45	4,263.25	4,223.50	29.54	16.38	107.94	-1,214.90	338.37	1,969.49	1,935.29	34.20	57.591	
6,400.00	4,211.31	4,265.66	4,225.91	30.50	16.38	108.80	-1,214.88	338.36	2,069.21	2,034.98	34.22	60.465	
6,500.00	4,214.17	4,268.08	4,228.33	31.47	16.38	109.66	-1,214.85	338.34	2,168.94	2,134.70	34.25	63.335	
6,600.00	4,217.03	4,270.52	4,230.77	32.45	16.38	110.52	-1,214.83	338.33	2,268.70	2,234.43	34.27	66.199	
6,700.00	4,219.89	4,272.97	4,233.22	33.44	16.38	111.37	-1,214.80	338.32	2,368.48	2,334.18	34.30	69.057	
6,800.00	4,222.75	4,275.43	4,235.68	34.44	16.37	112.21	-1,214.78	338.30	2,468.27	2,433.95	34.32	71.910	
6,900.00	4,225.61	4,277.90	4,238.15	35.45	16.37	113.05	-1,214.75	338.29	2,568.08	2,533.73	34.35	74.756	
7,000.00	4,228.47	4,280.39	4,240.63	36.46	16.37	113.88	-1,214.73	338.28	2,667.90	2,633.52	34.38	77.596	
7,100.00	4,231.33	4,282.88	4,243.13	37.48	16.37	114.71	-1,214.70	338.26	2,767.73	2,733.32	34.41	80.429	
7,200.00	4,234.19	4,285.39	4,245.64	38.51	16.37	115.53	-1,214.68	338.25	2,867.57	2,833.12	34.44	83.256	
7,300.00	4,237.05	4,287.91	4,248.16	39.54	16.37	116.34	-1,214.66	338.24	2,967.42	2,932.94	34.47	86.075	
7,400.00	4,239.91	4,290.45	4,250.70	40.58	16.37	117.15	-1,214.63	338.22	3,067.27	3,032.76	34.51	88.887	
7,500.00	4,242.77	4,293.00	4,253.24	41.62	16.37	117.95	-1,214.61	338.21	3,167.14	3,132.59	34.54	91.692	
7,600.00	4,245.63	4,295.55	4,255.80	42.66	16.37	118.74	-1,214.58	338.20	3,267.01	3,232.43	34.58	94.488	
7,700.00	4,248.49	4,298.25	4,258.50	43.71	16.37	119.56	-1,214.56	338.18	3,366.88	3,332.27	34.61	97.276	
7,800.00	4,251.35	4,301.13	4,261.38	44.77	16.37	120.42	-1,214.53	338.17	3,466.76	3,432.11	34.65	100.053	
7,900.00	4,254.21	4,304.05	4,264.30	45.82	16.37	121.28	-1,214.50	338.16	3,566.65	3,531.96	34.69	102.822	
8,000.00	4,257.07	4,307.00	4,267.25	46.89	16.36	122.13	-1,214.48	338.14	3,666.54	3,631.81	34.73	105.582	
8,100.00	4,259.93	4,309.99	4,270.24	47.95	16.36	122.98	-1,214.45	338.13	3,766.43	3,731.67	34.77	108.333	
8,200.00	4,262.79	4,313.02	4,273.26	49.02	16.36	123.82	-1,214.42	338.12	3,866.33	3,831.52	34.81	111.075	
8,300.00	4,265.65	4,316.08	4,276.32	50.08	16.36	124.66	-1,214.39	338.11	3,966.23	3,931.38	34.85	113.808	
8,400.00	4,268.51	4,319.17	4,279.42	51.16	16.36	125.49	-1,214.36	338.09	4,066.13	4,031.24	34.89	116.531	
8,500.00	4,271.37	4,322.31	4,282.55	52.23	16.36	126.31	-1,214.33	338.08	4,166.04	4,131.10	34.94	119.244	
8,600.00	4,274.23	4,325.48	4,285.73	53.31	16.36	127.13	-1,214.30	338.07	4,265.95	4,230.97	34.98	121.948	
8,700.00	4,277.09	4,328.69	4,288.94	54.38	16.36	127.94	-1,214.27	338.06	4,365.86	4,330.83	35.03	124.642	
8,800.00	4,279.95	4,331.95	4,292.19	55.47	16.36	128.74	-1,214.24	338.05	4,465.78	4,430.70	35.07	127.326	
8,900.00	4,282.81	4,335.24	4,295.49	56.55	16.36	129.54	-1,214.21	338.04	4,565.69	4,530.57	35.12	129.999	
9,000.00	4,285.67	4,338.58	4,298.82	57.63	16.36	130.32	-1,214.17	338.03	4,665.61	4,630.44	35.17	132.663	
9,100.00	4,288.53	4,341.96	4,302.20	58.72	16.36	131.10	-1,214.14	338.02	4,765.53	4,730.31	35.22	135.315	
9,200.00	4,291.39	4,345.38	4,305.62	59.80	16.36	131.87	-1,214.11	338.01	4,865.45	4,830.18	35.27	137.958	
9,300.00	4,294.25	4,348.84	4,309.09	60.89	16.36	132.64	-1,214.07	338.00	4,965.37	4,930.05	35.32	140.589	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: ANTHONY STATE 4 - PLANNED DEV SURVEY - PLANNED DEV SURVEY													Offset Site Error:
100-MWD													0.00 usft
Survey Program: Reference													Offset Well Error:
Measured Depth (usft)	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)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	22.00	22.00	0.00	0.22	-171.58	-1,032.14	-152.76	1,043.38				
100.00	100.00	122.00	122.00	0.29	1.15	-171.58	-1,032.14	-152.76	1,043.38	1,041.95	1.43	728.530	
200.00	200.00	222.00	222.00	0.65	1.68	-171.58	-1,032.14	-152.76	1,043.38	1,041.06	2.32	449.053	
300.00	300.00	322.00	322.00	1.00	2.08	-171.58	-1,032.14	-152.76	1,043.38	1,040.30	3.08	338.569	
400.00	399.98	421.98	421.98	1.35	2.41	6.19	-1,032.14	-152.76	1,041.65	1,037.89	3.76	276.946	
500.00	499.84	543.15	543.15	1.69	2.75	6.25	-1,031.67	-152.89	1,036.22	1,031.78	4.44	233.419	
600.00	599.45	736.76	736.15	2.04	3.79	6.73	-1,018.05	-156.80	1,020.93	1,015.19	5.74	177.983	
700.00	698.70	920.45	917.06	2.39	4.89	7.77	-987.83	-165.46	993.54	986.45	7.09	140.137	
800.00	797.47	1,089.94	1,080.60	2.74	5.83	9.40	-945.25	-177.67	955.16	946.88	8.28	115.330	
900.00	895.62	1,221.09	1,204.16	3.11	6.31	11.35	-903.04	-189.77	907.53	898.50	9.03	100.515	
1,000.00	993.06	1,304.63	1,282.29	3.49	6.67	13.01	-874.58	-197.93	855.96	846.24	9.72	88.055	
1,100.00	1,089.64	1,386.25	1,358.61	3.88	6.98	14.95	-846.79	-205.90	801.97	791.62	10.35	77.492	
1,200.00	1,185.27	1,465.83	1,433.03	4.28	7.29	17.27	-819.68	-213.67	745.75	734.77	10.98	67.941	
1,300.00	1,279.82	1,543.29	1,505.46	4.68	7.59	20.03	-793.30	-221.23	687.53	675.94	11.60	59.288	
1,400.00	1,373.80	1,619.69	1,576.90	5.10	7.89	22.78	-767.28	-228.69	629.00	616.82	12.18	51.628	
1,500.00	1,467.79	1,696.08	1,648.34	5.53	8.23	26.02	-741.27	-236.15	571.76	558.94	12.82	44.605	
1,600.00	1,561.77	1,764.15	1,712.15	5.95	8.53	29.36	-718.49	-242.68	516.64	503.20	13.45	38.425	
1,700.00	1,655.76	1,830.65	1,775.21	6.38	8.83	32.97	-698.20	-248.50	465.54	451.45	14.09	33.041	
1,800.00	1,749.74	1,900.75	1,842.43	6.82	9.12	37.14	-679.10	-253.97	419.07	404.36	14.71	28.484	
1,900.00	1,843.73	1,974.59	1,913.98	7.25	9.67	41.93	-661.57	-259.00	377.77	362.22	15.55	24.290	
2,000.00	1,937.71	2,052.20	1,989.88	7.69	10.13	47.38	-646.02	-263.46	342.15	325.88	16.27	21.034	
2,100.00	2,031.70	2,133.63	2,070.15	8.13	10.56	53.48	-632.91	-267.22	312.58	295.69	16.89	18.502	
2,200.00	2,125.68	2,218.82	2,154.68	8.57	10.98	60.13	-622.73	-270.14	289.22	271.72	17.50	16.524	
2,300.00	2,219.67	2,307.70	2,243.27	9.01	11.39	67.13	-615.98	-272.07	271.83	253.73	18.11	15.012	
2,400.00	2,313.65	2,400.09	2,335.60	9.45	11.75	74.20	-613.17	-272.88	259.71	240.99	18.72	13.873	
2,500.00	2,407.64	2,494.12	2,429.64	9.89	11.83	81.27	-613.12	-272.89	252.01	232.65	19.36	13.015	
2,600.00	2,501.62	2,588.11	2,523.62	10.33	11.90	88.60	-613.12	-272.89	248.79	228.73	20.07	12.398	
2,619.00	2,519.48	2,605.97	2,541.48	10.42	11.91	90.00	-613.12	-272.89	248.71	228.50	20.21	12.308 CC, ES	
2,700.00	2,595.61	2,682.09	2,617.61	10.78	11.97	95.97	-613.12	-272.89	250.24	229.44	20.80	12.029	
2,800.00	2,689.59	2,776.08	2,711.59	11.22	12.04	103.15	-613.12	-272.89	256.28	234.75	21.53	11.903 SF	
2,900.00	2,783.58	2,870.06	2,805.58	11.67	12.11	109.94	-613.12	-272.89	266.59	244.37	22.22	11.998	
3,000.00	2,877.56	2,964.05	2,899.56	12.11	12.18	116.19	-613.12	-272.89	280.70	257.85	22.85	12.284	
3,100.00	2,971.55	3,058.03	2,993.55	12.56	12.25	121.84	-613.12	-272.89	298.08	274.65	23.42	12.725	
3,200.00	3,065.53	3,152.02	3,087.53	13.00	12.32	126.87	-613.12	-272.89	318.19	294.24	23.95	13.287	
3,300.00	3,159.52	3,246.01	3,181.52	13.45	12.39	131.32	-613.12	-272.89	340.54	316.11	24.43	13.940	
3,400.00	3,253.50	3,339.99	3,275.50	13.89	12.46	135.23	-613.12	-272.89	364.73	339.85	24.88	14.659	
3,500.00	3,347.49	3,433.98	3,369.49	14.34	12.53	138.67	-613.12	-272.89	390.41	365.10	25.31	15.424	
3,600.00	3,441.72	3,528.21	3,463.72	14.78	12.61	163.38	-613.12	-272.89	419.55	393.82	25.73	16.307	
3,700.00	3,535.44	3,621.92	3,557.44	15.20	12.68	-173.03	-613.12	-272.89	454.12	427.99	26.13	17.380	
3,800.00	3,626.82	3,713.30	3,648.82	15.58	12.75	-156.29	-613.12	-272.89	493.21	466.70	26.51	18.607	
3,900.00	3,714.08	3,800.57	3,736.08	15.92	12.81	-145.35	-613.12	-272.89	536.80	509.95	26.85	19.990	
4,000.00	3,795.54	3,882.02	3,817.54	16.21	12.87	-138.02	-613.12	-272.89	585.35	558.19	27.16	21.552	
4,100.00	3,869.59	3,956.08	3,891.59	16.47	12.93	-132.57	-613.12	-272.89	639.40	611.98	27.42	23.321	
4,200.00	3,934.81	4,021.29	3,956.81	16.69	12.98	-127.76	-613.12	-272.89	699.32	671.70	27.62	25.319	
4,300.00	3,989.92	4,076.41	4,011.92	16.87	13.02	-122.96	-613.12	-272.89	765.11	737.34	27.77	27.551	
4,400.00	4,039.92	4,126.41	4,061.92	17.04	13.06	-126.54	-613.12	-272.89	835.37	807.48	27.89	29.955	
4,500.00	4,089.91	4,176.40	4,111.91	17.24	13.10	-129.57	-613.12	-272.89	908.45	880.45	28.00	32.441	
4,600.00	4,131.66	4,218.15	4,153.66	17.48	13.13	-122.12	-613.12	-272.89	987.36	959.27	28.10	35.140	
4,700.00	4,157.02	4,243.51	4,179.02	17.78	13.15	-109.23	-613.12	-272.89	1,073.44	1,045.30	28.14	38.150	
4,800.00	4,165.55	4,252.04	4,187.55	18.13	13.15	-93.73	-613.12	-272.89	1,163.85	1,135.72	28.13	41.378	
4,900.00	4,168.41	4,254.90	4,190.41	18.55	13.16	-94.08	-613.12	-272.89	1,256.04	1,227.94	28.11	44.690	
5,000.00	4,171.27	4,257.76	4,193.27	19.06	13.16	-94.43	-613.12	-272.89	1,349.34	1,321.25	28.09	48.038	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: ANTHONY STATE 4 - PLANNED DEV SURVEY - PLANNED DEV SURVEY													Offset Site Error:
100-MWD													0.00 usft
Survey Program: Reference													Offset Well Error:
Rule Assigned:													0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,174.13	4,260.62	4,196.13	19.64	13.16	-94.78	-613.12	-272.89	1,443.53	1,415.45	28.08	51.412	
5,200.00	4,176.99	4,263.48	4,198.99	20.28	13.16	-95.13	-613.12	-272.89	1,538.45	1,510.38	28.07	54.806	
5,300.00	4,179.85	4,266.34	4,201.85	20.97	13.16	-95.47	-613.12	-272.89	1,633.97	1,605.90	28.07	58.215	
5,400.00	4,182.71	4,269.20	4,204.71	21.70	13.17	-95.82	-613.12	-272.89	1,729.99	1,701.92	28.07	61.635	
5,500.00	4,185.57	4,272.06	4,207.57	22.47	13.17	-96.17	-613.12	-272.89	1,826.43	1,798.36	28.07	65.064	
5,600.00	4,188.43	4,274.92	4,210.43	23.28	13.17	-96.51	-613.12	-272.89	1,923.24	1,895.16	28.08	68.497	
5,700.00	4,191.29	4,277.78	4,213.29	24.11	13.17	-96.86	-613.12	-272.89	2,020.35	1,992.26	28.09	71.934	
5,800.00	4,194.15	4,280.64	4,216.15	24.97	13.18	-97.21	-613.12	-272.89	2,117.72	2,089.62	28.10	75.371	
5,900.00	4,197.01	4,283.50	4,219.01	25.85	13.18	-97.55	-613.12	-272.89	2,215.33	2,187.22	28.11	78.809	
6,000.00	4,199.87	4,286.36	4,221.87	26.75	13.18	-97.89	-613.12	-272.89	2,313.13	2,285.01	28.13	82.244	
6,100.00	4,202.73	4,289.22	4,224.73	27.66	13.18	-98.24	-613.12	-272.89	2,411.12	2,382.98	28.14	85.677	
6,200.00	4,205.59	4,292.08	4,227.59	28.60	13.18	-98.58	-613.12	-272.89	2,509.26	2,481.10	28.16	89.106	
6,300.00	4,208.45	4,294.94	4,230.45	29.54	13.19	-98.92	-613.12	-272.89	2,607.53	2,579.35	28.18	92.529	
6,400.00	4,211.31	4,297.80	4,233.31	30.50	13.19	-99.27	-613.12	-272.89	2,705.93	2,677.73	28.20	95.947	
6,500.00	4,214.17	4,300.66	4,236.17	31.47	13.19	-99.61	-613.12	-272.89	2,804.44	2,776.22	28.23	99.358	
6,600.00	4,217.03	4,303.52	4,239.03	32.45	13.19	-99.95	-613.12	-272.89	2,903.05	2,874.80	28.25	102.762	
6,700.00	4,219.89	4,306.38	4,241.89	33.44	13.20	-100.29	-613.12	-272.89	3,001.75	2,973.48	28.28	106.157	
6,800.00	4,222.75	4,309.24	4,244.75	34.44	13.20	-100.63	-613.12	-272.89	3,100.53	3,072.23	28.30	109.544	
6,900.00	4,225.61	4,312.10	4,247.61	35.45	13.20	-100.96	-613.12	-272.89	3,199.39	3,171.05	28.33	112.922	
7,000.00	4,228.47	4,314.96	4,250.47	36.46	13.20	-101.30	-613.12	-272.89	3,298.31	3,269.94	28.36	116.290	
7,100.00	4,231.33	4,317.82	4,253.33	37.48	13.20	-101.64	-613.12	-272.89	3,397.29	3,368.89	28.39	119.648	
7,200.00	4,234.19	4,320.68	4,256.19	38.51	13.21	-101.97	-613.12	-272.89	3,496.32	3,467.90	28.43	122.995	
7,300.00	4,237.05	4,323.54	4,259.05	39.54	13.21	-102.31	-613.12	-272.89	3,595.41	3,566.95	28.46	126.332	
7,400.00	4,239.91	4,326.40	4,261.91	40.58	13.21	-102.64	-613.12	-272.89	3,694.54	3,666.05	28.49	129.656	
7,500.00	4,242.77	4,329.26	4,264.77	41.62	13.21	-102.98	-613.12	-272.89	3,793.72	3,765.19	28.53	132.969	
7,600.00	4,245.63	4,332.12	4,267.63	42.66	13.21	-103.31	-613.12	-272.89	3,892.94	3,864.37	28.57	136.269	
7,700.00	4,248.49	4,334.98	4,270.49	43.71	13.22	-103.64	-613.12	-272.89	3,992.19	3,963.59	28.61	139.557	
7,800.00	4,251.35	4,337.84	4,273.35	44.77	13.22	-103.97	-613.12	-272.89	4,091.48	4,062.84	28.65	142.832	
7,900.00	4,254.21	4,340.70	4,276.21	45.82	13.22	-104.30	-613.12	-272.89	4,190.80	4,162.12	28.69	146.094	
8,000.00	4,257.07	4,343.56	4,279.07	46.89	13.22	-104.63	-613.12	-272.89	4,290.15	4,261.43	28.73	149.342	
8,100.00	4,259.93	4,346.42	4,281.93	47.95	13.23	-104.96	-613.12	-272.89	4,389.53	4,360.76	28.77	152.577	
8,200.00	4,262.79	4,349.28	4,284.79	49.02	13.23	-105.28	-613.12	-272.89	4,488.94	4,460.12	28.81	155.797	
8,300.00	4,265.65	4,352.14	4,287.65	50.08	13.23	-105.61	-613.12	-272.89	4,588.36	4,559.51	28.86	159.003	
8,400.00	4,268.51	4,355.00	4,290.51	51.16	13.23	-105.93	-613.12	-272.89	4,687.81	4,658.91	28.90	162.194	
8,500.00	4,271.37	4,357.86	4,293.37	52.23	13.23	-106.26	-613.12	-272.89	4,787.29	4,758.34	28.95	165.370	
8,600.00	4,274.23	4,360.72	4,296.23	53.31	13.24	-106.58	-613.12	-272.89	4,886.78	4,857.78	29.00	168.531	
8,700.00	4,277.09	4,363.58	4,299.09	54.38	13.24	-106.90	-613.12	-272.89	4,986.29	4,957.24	29.04	171.677	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 1 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 197-INC-ONLY													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
4,600.00	4,131.66	4,203.88	4,202.66	17.48	98.18	2.07	-1,043.92	5,565.39	4,960.87	4,845.68	115.20	43.064		
4,700.00	4,157.02	4,229.24	4,228.02	17.78	98.69	4.22	-1,043.92	5,565.39	4,864.28	4,748.52	115.76	42.021		
4,800.00	4,165.55	4,237.77	4,236.55	18.13	98.86	23.84	-1,043.63	5,565.39	4,764.76	4,648.81	115.95	41.094		
4,900.00	4,168.41	4,240.64	4,239.42	18.55	98.92	24.30	-1,043.63	5,565.39	4,664.81	4,548.80	116.01	40.210		
5,000.00	4,171.27	4,243.50	4,242.29	19.06	98.98	24.77	-1,043.63	5,565.39	4,564.86	4,448.78	116.08	39.326		
5,100.00	4,174.13	4,246.37	4,245.15	19.64	99.03	25.25	-1,043.64	5,565.39	4,464.91	4,348.77	116.14	38.444		
5,200.00	4,176.99	4,249.23	4,248.01	20.28	99.09	25.76	-1,043.64	5,565.39	4,364.96	4,248.75	116.21	37.561		
5,300.00	4,179.85	4,252.09	4,250.87	20.97	99.15	26.29	-1,043.65	5,565.39	4,265.01	4,148.73	116.28	36.680		
5,400.00	4,182.71	4,254.95	4,253.73	21.70	99.21	26.83	-1,043.65	5,565.39	4,165.06	4,048.72	116.34	35.800		
5,500.00	4,185.57	4,257.81	4,256.59	22.47	99.26	27.40	-1,043.66	5,565.39	4,065.11	3,948.70	116.41	34.920		
5,600.00	4,188.43	4,260.67	4,259.45	23.28	99.32	27.99	-1,043.67	5,565.39	3,965.16	3,848.68	116.48	34.041		
5,700.00	4,191.29	4,263.53	4,262.31	24.11	99.38	28.61	-1,043.68	5,565.39	3,865.22	3,748.66	116.55	33.163		
5,800.00	4,194.15	4,266.38	4,265.16	24.97	99.44	29.24	-1,043.69	5,565.39	3,765.27	3,648.65	116.62	32.286		
5,900.00	4,197.01	4,269.24	4,268.02	25.85	99.49	29.91	-1,043.71	5,565.39	3,665.32	3,548.63	116.70	31.409		
6,000.00	4,199.87	4,272.09	4,270.87	26.75	99.55	30.60	-1,043.72	5,565.39	3,565.38	3,448.61	116.77	30.534		
6,100.00	4,202.73	4,274.94	4,273.72	27.66	99.61	31.33	-1,043.74	5,565.39	3,465.43	3,348.59	116.84	29.660		
6,200.00	4,205.59	4,277.79	4,276.57	28.60	99.67	32.08	-1,043.75	5,565.39	3,365.49	3,248.58	116.91	28.786		
6,300.00	4,208.45	4,280.64	4,279.42	29.54	99.72	32.87	-1,043.77	5,565.39	3,265.55	3,148.56	116.99	27.914		
6,400.00	4,211.31	4,283.49	4,282.26	30.50	99.78	33.69	-1,043.79	5,565.39	3,165.61	3,048.54	117.06	27.042		
6,500.00	4,214.17	4,286.33	4,285.11	31.47	99.84	34.55	-1,043.81	5,565.39	3,065.67	2,948.53	117.14	26.172		
6,600.00	4,217.03	4,289.18	4,287.95	32.45	99.89	35.44	-1,043.83	5,565.39	2,965.73	2,848.51	117.21	25.302		
6,700.00	4,219.89	4,292.02	4,290.80	33.44	99.95	36.38	-1,043.85	5,565.39	2,865.79	2,748.50	117.29	24.434		
6,800.00	4,222.75	4,294.86	4,293.64	34.44	100.01	37.36	-1,043.87	5,565.39	2,765.85	2,648.49	117.37	23.566		
6,900.00	4,225.61	4,297.70	4,296.48	35.45	100.07	38.38	-1,043.90	5,565.39	2,665.92	2,548.48	117.44	22.700		
7,000.00	4,228.47	4,300.70	4,299.47	36.46	100.13	39.51	-1,043.92	5,565.39	2,565.99	2,448.47	117.52	21.834		
7,100.00	4,231.33	4,303.56	4,302.33	37.48	100.19	40.63	-1,043.92	5,565.39	2,466.06	2,348.46	117.60	20.970		
7,200.00	4,234.19	4,306.42	4,305.19	38.51	100.25	41.81	-1,043.92	5,565.39	2,366.13	2,248.45	117.68	20.106		
7,300.00	4,237.05	4,309.28	4,308.05	39.54	100.31	43.04	-1,043.92	5,565.39	2,266.21	2,148.44	117.76	19.244		
7,400.00	4,239.91	4,312.14	4,310.91	40.58	100.37	44.33	-1,043.92	5,565.39	2,166.28	2,048.44	117.84	18.383		
7,500.00	4,242.77	4,315.00	4,313.77	41.62	100.43	45.69	-1,043.92	5,565.39	2,066.36	1,948.44	117.92	17.523		
7,600.00	4,245.63	4,317.86	4,316.63	42.66	100.48	47.11	-1,043.92	5,565.39	1,966.45	1,848.45	118.00	16.665		
7,700.00	4,248.49	4,320.72	4,319.49	43.71	100.54	48.59	-1,043.92	5,565.39	1,866.54	1,748.46	118.08	15.807		
7,800.00	4,251.35	4,323.58	4,322.35	44.77	100.60	50.15	-1,043.92	5,565.39	1,766.64	1,648.48	118.16	14.951		
7,900.00	4,254.21	4,326.44	4,325.21	45.82	100.66	51.79	-1,043.92	5,565.39	1,666.74	1,548.50	118.24	14.096		
8,000.00	4,257.07	4,329.30	4,328.07	46.89	100.72	53.50	-1,043.92	5,565.39	1,566.85	1,448.54	118.32	13.243		
8,100.00	4,259.93	4,332.16	4,330.93	47.95	100.78	55.29	-1,043.92	5,565.39	1,466.97	1,348.58	118.39	12.391		
8,200.00	4,262.79	4,335.02	4,333.79	49.02	100.84	57.16	-1,043.92	5,565.39	1,367.10	1,248.64	118.47	11.540		
8,300.00	4,265.65	4,337.88	4,336.65	50.08	100.90	59.11	-1,043.92	5,565.39	1,267.25	1,148.71	118.55	10.690		
8,400.00	4,268.51	4,340.74	4,339.51	51.16	100.96	61.14	-1,043.92	5,565.39	1,167.42	1,048.80	118.62	9.842		
8,500.00	4,271.37	4,343.60	4,342.37	52.23	101.02	63.26	-1,043.92	5,565.39	1,067.60	948.91	118.70	8.994		
8,600.00	4,274.23	4,346.46	4,345.23	53.31	101.08	65.46	-1,043.92	5,565.39	967.82	849.05	118.77	8.149		
8,700.00	4,277.09	4,349.32	4,348.09	54.38	101.14	67.74	-1,043.92	5,565.39	868.08	749.23	118.85	7.304		
8,800.00	4,279.95	4,352.18	4,350.95	55.47	101.20	70.10	-1,043.92	5,565.39	768.40	649.45	118.94	6.460		
8,900.00	4,282.81	4,355.04	4,353.81	56.55	101.26	72.52	-1,043.92	5,565.39	668.79	549.74	119.05	5.618		
9,000.00	4,285.67	4,357.90	4,356.67	57.63	101.32	75.02	-1,043.92	5,565.39	569.32	450.10	119.21	4.776		
9,100.00	4,288.53	4,360.76	4,359.53	58.72	101.38	77.57	-1,043.92	5,565.39	470.04	350.56	119.49	3.934		
9,200.00	4,291.39	4,363.62	4,362.39	59.80	101.44	80.18	-1,043.92	5,565.39	371.14	251.10	120.04	3.092		
9,300.00	4,294.25	4,366.48	4,365.25	60.89	101.50	82.83	-1,043.92	5,565.39	273.00	151.59	121.41	2.249		
9,400.00	4,297.11	4,369.34	4,368.11	61.98	101.56	85.51	-1,043.92	5,565.39	176.92	51.21	125.71	1.407 Level 3		
9,500.00	4,299.97	4,372.20	4,370.97	63.07	101.62	88.21	-1,043.92	5,565.39	89.76	-53.36	143.12	0.627 Level 1		
9,566.33	4,301.87	4,374.10	4,372.87	63.80	101.66	90.00	-1,043.92	5,565.39	60.51	-104.79	165.30	0.366 Level 1, CC, ES, SF		
9,600.00	4,302.83	4,375.06	4,373.83	64.16	101.68	90.91	-1,043.92	5,565.39	69.24	-91.11	160.35	0.432 Level 1		

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design:SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 1 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program: 197-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		
9,700.00	4,305.69	4,377.92	4,376.69	65.26	101.74	93.61	-1,043.92	5,565.39	146.68	10.00	136.69	1.073 Level 2	
9,800.00	4,308.55	4,380.78	4,379.55	66.35	101.80	96.30	-1,043.92	5,565.39	241.29	112.22	129.07	1.869	
9,850.70	4,310.00	4,382.23	4,381.00	66.91	101.83	97.65	-1,043.92	5,565.39	290.62	163.33	127.29	2.283	

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 10 - Wellbore #1 - Wellbore #1													Offset Site Error:
Survey Program: 220-INC-ONLY													Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	69.00	69.00	0.00	1.34	88.07	143.29	4,259.59	4,262.00				
100.00	100.00	169.00	169.00	0.29	3.29	88.07	143.29	4,259.59	4,262.00	4,258.42	3.58	1,192.117	
200.00	200.00	269.01	269.00	0.65	5.43	88.07	143.29	4,259.59	4,262.00	4,255.92	6.08	701.362	
300.00	300.00	369.56	369.55	1.00	7.79	88.07	143.58	4,259.59	4,262.01	4,253.21	8.80	484.522	
305.63	305.63	375.26	375.24	1.02	7.93	-94.17	143.56	4,259.59	4,262.01	4,253.06	8.95	476.242	
400.00	399.98	469.04	468.98	1.35	10.20	-94.19	143.29	4,259.59	4,262.13	4,250.58	11.55	369.052	
500.00	499.84	569.29	569.21	1.69	12.71	-94.26	144.24	4,259.59	4,262.55	4,248.15	14.39	296.178	
600.00	599.45	670.94	670.84	2.04	15.25	-94.36	143.36	4,259.59	4,263.17	4,245.89	17.28	246.718	
700.00	698.70	767.85	767.70	2.39	17.49	-94.50	143.29	4,259.59	4,264.12	4,244.24	19.87	214.574	
800.00	797.47	868.11	867.95	2.74	19.80	-94.69	143.57	4,259.59	4,265.40	4,242.86	22.54	189.238	
900.00	895.62	964.82	964.62	3.11	22.02	-94.90	143.29	4,259.59	4,267.01	4,241.87	25.13	169.774	
1,000.00	993.06	1,063.51	1,063.30	3.49	24.29	-95.16	143.73	4,259.59	4,269.05	4,241.27	27.78	153.668	
1,100.00	1,089.64	1,158.90	1,158.64	3.88	26.49	-95.43	143.29	4,259.59	4,271.50	4,241.14	30.36	140.686	
1,200.00	1,185.27	1,255.27	1,255.01	4.28	28.70	-95.76	143.85	4,259.59	4,274.51	4,241.54	32.98	129.626	
1,300.00	1,279.82	1,349.12	1,348.82	4.68	30.86	-96.09	143.29	4,259.59	4,278.03	4,242.48	35.54	120.363	
1,400.00	1,373.80	1,443.10	1,442.80	5.10	33.02	-96.52	143.29	4,259.59	4,282.01	4,243.89	38.12	112.327	
1,500.00	1,467.79	1,539.55	1,539.24	5.53	35.24	-96.96	143.73	4,259.59	4,286.31	4,245.55	40.76	105.157	
1,600.00	1,561.77	1,631.13	1,630.77	5.95	37.26	-97.37	143.29	4,259.59	4,290.79	4,247.59	43.21	99.305	
1,700.00	1,655.76	1,725.42	1,725.06	6.38	39.24	-97.80	143.97	4,259.59	4,295.65	4,250.05	45.61	94.187	
1,800.00	1,749.74	1,823.52	1,823.14	6.82	41.29	-98.24	143.49	4,259.59	4,300.67	4,252.58	48.09	89.432	
1,900.00	1,843.73	1,913.12	1,912.73	7.25	43.07	-98.64	143.29	4,259.59	4,305.96	4,255.66	50.30	85.600	
2,000.00	1,937.71	2,008.12	2,007.72	7.69	44.93	-99.07	143.64	4,259.59	4,311.59	4,258.99	52.60	81.973	
2,100.00	2,031.70	2,101.12	2,100.70	8.13	46.75	-99.49	143.29	4,259.59	4,317.40	4,262.54	54.85	78.707	
2,200.00	2,125.68	2,195.10	2,194.68	8.57	48.60	-99.91	143.29	4,259.59	4,323.51	4,266.37	57.14	75.670	
2,300.00	2,219.67	2,291.86	2,291.43	9.01	50.51	-100.34	143.63	4,259.59	4,329.93	4,270.46	59.47	72.804	
2,400.00	2,313.65	2,383.10	2,382.65	9.45	52.30	-100.74	143.29	4,259.59	4,336.51	4,274.80	61.70	70.279	
2,500.00	2,407.64	2,477.82	2,477.37	9.89	54.17	-101.17	143.62	4,259.59	4,343.45	4,279.45	64.01	67.860	
2,600.00	2,501.62	2,571.09	2,570.62	10.33	56.01	-101.58	143.29	4,259.59	4,350.54	4,284.26	66.28	65.638	
2,700.00	2,595.61	2,665.07	2,664.61	10.78	58.04	-101.99	143.29	4,259.59	4,357.95	4,289.19	68.75	63.386	
2,800.00	2,689.59	2,763.87	2,763.40	11.22	60.19	-102.43	143.47	4,259.59	4,365.64	4,294.31	71.33	61.204	
2,900.00	2,783.58	2,853.08	2,852.58	11.67	62.36	-102.82	143.29	4,259.59	4,373.52	4,299.58	73.94	59.151	
3,000.00	2,877.56	2,951.43	2,950.92	12.11	64.87	-103.25	143.76	4,259.59	4,381.78	4,304.89	76.89	56.990	
3,100.00	2,971.55	3,041.14	3,040.55	12.56	67.19	-103.64	143.29	4,259.59	4,390.09	4,310.46	79.63	55.129	
3,200.00	3,065.53	3,137.22	3,136.61	13.00	69.71	-104.07	144.21	4,259.59	4,398.96	4,316.37	82.59	53.262	
3,300.00	3,159.52	3,248.20	3,247.56	13.45	72.63	-104.53	143.03	4,259.59	4,407.65	4,321.71	85.94	51.286	
3,400.00	3,253.50	3,323.19	3,322.50	13.89	74.42	-104.86	143.29	4,259.59	4,416.82	4,328.66	88.17	50.096	
3,500.00	3,347.49	3,427.06	3,426.35	14.34	76.95	-105.31	143.58	4,259.59	4,426.30	4,335.18	91.12	48.575	
3,600.00	3,441.72	3,511.47	3,510.72	14.78	79.00	-85.31	143.29	4,259.59	4,430.12	4,336.52	93.60	47.329	
3,700.00	3,535.44	3,608.08	3,607.32	15.20	81.35	-65.26	144.03	4,259.59	4,420.59	4,324.22	96.37	45.871	
3,800.00	3,626.82	3,710.97	3,710.19	15.58	83.85	-50.93	143.27	4,259.59	4,397.20	4,297.93	99.27	44.296	
3,900.00	3,714.08	3,783.91	3,783.08	15.92	85.57	-41.61	143.29	4,259.59	4,360.92	4,259.57	101.35	43.026	
4,000.00	3,795.54	3,877.54	3,876.70	16.21	87.79	-35.91	143.46	4,259.59	4,312.37	4,208.47	103.90	41.504	
4,100.00	3,869.59	3,939.47	3,938.59	16.47	89.16	-32.36	143.29	4,259.59	4,252.24	4,146.68	105.56	40.282	
4,200.00	3,934.81	4,007.15	4,006.27	16.69	90.62	-30.60	143.79	4,259.59	4,182.01	4,074.73	107.28	38.984	
4,300.00	3,989.92	4,070.94	4,070.05	16.87	92.00	-30.37	143.43	4,259.59	4,102.57	3,993.70	108.87	37.684	
4,400.00	4,039.92	4,109.83	4,108.92	17.04	92.83	-30.80	143.29	4,259.59	4,019.44	3,909.58	109.86	36.586	
4,500.00	4,089.91	4,159.82	4,158.91	17.24	93.88	-31.60	143.29	4,259.59	3,936.52	3,825.43	111.09	35.435	
4,600.00	4,131.66	4,202.13	4,201.22	17.48	94.76	-42.84	143.71	4,259.59	3,849.96	3,737.79	112.17	34.323	
4,700.00	4,157.02	4,229.82	4,228.91	17.78	95.34	-62.39	143.67	4,259.59	3,757.86	3,644.94	112.92	33.278	
4,800.00	4,165.55	4,239.12	4,238.21	18.13	95.54	-85.23	143.65	4,259.59	3,663.21	3,549.94	113.28	32.339	
4,900.00	4,168.41	4,242.24	4,241.33	18.55	95.60	-85.39	143.64	4,259.59	3,568.43	3,454.93	113.51	31.438	
5,000.00	4,171.27	4,245.36	4,244.44	19.06	95.67	-85.54	143.63	4,259.59	3,473.94	3,360.18	113.75	30.540	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 10 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 220-INC-ONLY													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)											
5,100.00	4,174.13	4,248.47	4,247.56	19.64	95.73	-85.69	143.62	4,259.59	3,379.76	3,265.74	114.02	29.642		
5,200.00	4,176.99	4,251.58	4,250.67	20.28	95.80	-85.85	143.60	4,259.59	3,285.92	3,171.61	114.31	28.747		
5,300.00	4,179.85	4,254.70	4,253.78	20.97	95.86	-86.00	143.59	4,259.59	3,192.45	3,077.84	114.62	27.853		
5,400.00	4,182.71	4,257.81	4,256.90	21.70	95.93	-86.16	143.58	4,259.59	3,099.39	2,984.44	114.95	26.962		
5,500.00	4,185.57	4,260.92	4,260.01	22.47	95.99	-86.31	143.57	4,259.59	3,006.77	2,891.45	115.32	26.074		
5,600.00	4,188.43	4,264.03	4,263.12	23.28	96.06	-86.47	143.55	4,259.59	2,914.64	2,798.92	115.71	25.188		
5,700.00	4,191.29	4,267.14	4,266.23	24.11	96.12	-86.62	143.54	4,259.59	2,823.03	2,706.89	116.15	24.306		
5,800.00	4,194.15	4,270.25	4,269.34	24.97	96.19	-86.78	143.52	4,259.59	2,732.02	2,615.40	116.61	23.428		
5,900.00	4,197.01	4,273.36	4,272.45	25.85	96.25	-86.93	143.50	4,259.59	2,641.65	2,524.52	117.12	22.554		
6,000.00	4,199.87	4,276.47	4,275.55	26.75	96.32	-87.08	143.49	4,259.59	2,551.99	2,434.31	117.68	21.686		
6,100.00	4,202.73	4,279.58	4,278.66	27.66	96.38	-87.24	143.47	4,259.59	2,463.13	2,344.84	118.29	20.823		
6,200.00	4,205.59	4,282.68	4,281.77	28.60	96.45	-87.39	143.45	4,259.59	2,375.15	2,256.20	118.95	19.968		
6,300.00	4,208.45	4,285.79	4,284.87	29.54	96.51	-87.55	143.43	4,259.59	2,288.15	2,168.48	119.67	19.120		
6,400.00	4,211.31	4,288.89	4,287.98	30.50	96.58	-87.70	143.41	4,259.59	2,202.26	2,081.79	120.46	18.282		
6,500.00	4,214.17	4,292.00	4,291.08	31.47	96.64	-87.86	143.39	4,259.59	2,117.59	1,996.27	121.33	17.454		
6,600.00	4,217.03	4,295.10	4,294.18	32.45	96.71	-88.01	143.37	4,259.59	2,034.32	1,912.05	122.27	16.638		
6,700.00	4,219.89	4,298.20	4,297.29	33.44	96.77	-88.17	143.35	4,259.59	1,952.61	1,829.32	123.30	15.837		
6,800.00	4,222.75	4,301.30	4,300.39	34.44	96.84	-88.32	143.33	4,259.59	1,872.68	1,748.26	124.42	15.052		
6,900.00	4,225.61	4,304.40	4,303.49	35.45	96.90	-88.47	143.30	4,259.59	1,794.75	1,669.12	125.63	14.285		
7,000.00	4,228.47	4,307.50	4,306.59	36.46	96.97	-88.63	143.28	4,259.59	1,719.10	1,592.15	126.96	13.541		
7,100.00	4,231.33	4,310.60	4,309.69	37.48	97.03	-88.78	143.25	4,259.59	1,646.05	1,517.67	128.38	12.821		
7,200.00	4,234.19	4,313.70	4,312.78	38.51	97.10	-88.94	143.23	4,259.59	1,575.95	1,446.04	129.92	12.131		
7,300.00	4,237.05	4,306.99	4,306.05	39.54	96.96	-88.60	143.29	4,259.59	1,509.26	1,377.92	131.34	11.491		
7,400.00	4,239.91	4,309.85	4,308.91	40.58	97.02	-88.75	143.29	4,259.59	1,446.39	1,313.32	133.07	10.870		
7,500.00	4,242.77	4,312.71	4,311.77	41.62	97.08	-88.89	143.29	4,259.59	1,387.87	1,253.00	134.87	10.290		
7,600.00	4,245.63	4,315.57	4,314.63	42.66	97.14	-89.03	143.29	4,259.59	1,334.29	1,197.55	136.74	9.758		
7,700.00	4,248.49	4,318.43	4,317.49	43.71	97.21	-89.17	143.29	4,259.59	1,286.26	1,147.64	138.62	9.279		
7,800.00	4,251.35	4,321.29	4,320.35	44.77	97.27	-89.32	143.29	4,259.59	1,244.41	1,103.93	140.48	8.858		
7,900.00	4,254.21	4,324.15	4,323.21	45.82	97.33	-89.46	143.29	4,259.59	1,209.40	1,067.14	142.26	8.501		
8,000.00	4,257.07	4,327.01	4,326.07	46.89	97.39	-89.60	143.29	4,259.59	1,181.83	1,037.93	143.90	8.213		
8,100.00	4,259.93	4,329.87	4,328.93	47.95	97.45	-89.74	143.29	4,259.59	1,162.23	1,016.89	145.34	7.997		
8,200.00	4,262.79	4,332.73	4,331.79	49.02	97.51	-89.89	143.29	4,259.59	1,151.01	1,004.50	146.51	7.856		
8,279.90	4,265.08	4,335.02	4,334.08	49.87	97.56	-90.00	143.29	4,259.59	1,148.24	1,001.00	147.23	7.799 CC, ES		
8,300.00	4,265.65	4,335.59	4,334.65	50.08	97.58	-90.03	143.29	4,259.59	1,148.41	1,001.03	147.38	7.792 SF		
8,400.00	4,268.51	4,338.45	4,337.51	51.16	97.64	-90.17	143.29	4,259.59	1,154.49	1,006.57	147.92	7.805		
8,500.00	4,271.37	4,341.31	4,340.37	52.23	97.70	-90.31	143.29	4,259.59	1,169.12	1,020.99	148.13	7.893		
8,600.00	4,274.23	4,344.17	4,343.23	53.31	97.76	-90.46	143.29	4,259.59	1,191.98	1,043.95	148.03	8.052		
8,700.00	4,277.09	4,347.03	4,346.09	54.38	97.82	-90.60	143.29	4,259.59	1,222.61	1,074.96	147.66	8.280		
8,800.00	4,279.95	4,349.89	4,348.95	55.47	97.89	-90.74	143.29	4,259.59	1,260.45	1,113.38	147.06	8.571		
8,900.00	4,282.81	4,352.75	4,351.81	56.55	97.95	-90.88	143.29	4,259.59	1,304.86	1,158.56	146.30	8.919		
9,000.00	4,285.67	4,355.61	4,354.67	57.63	98.01	-91.03	143.29	4,259.59	1,355.20	1,209.79	145.41	9.320		
9,100.00	4,288.53	4,358.47	4,357.53	58.72	98.07	-91.17	143.29	4,259.59	1,410.83	1,266.38	144.45	9.767		
9,200.00	4,291.39	4,361.33	4,360.39	59.80	98.13	-91.31	143.29	4,259.59	1,471.17	1,327.72	143.45	10.256		
9,300.00	4,294.25	4,364.19	4,363.25	60.89	98.19	-91.45	143.29	4,259.59	1,535.64	1,393.20	142.44	10.781		
9,400.00	4,297.11	4,367.05	4,366.11	61.98	98.26	-91.60	143.29	4,259.59	1,603.76	1,462.31	141.44	11.338		
9,500.00	4,299.97	4,369.91	4,368.97	63.07	98.32	-91.74	143.29	4,259.59	1,675.07	1,534.59	140.48	11.924		
9,600.00	4,302.83	4,372.77	4,371.83	64.16	98.38	-91.88	143.29	4,259.59	1,749.19	1,609.64	139.55	12.535		
9,700.00	4,305.69	4,375.63	4,374.69	65.26	98.44	-92.02	143.29	4,259.59	1,825.78	1,687.11	138.67	13.167		
9,800.00	4,308.55	4,378.49	4,377.55	66.35	98.50	-92.17	143.29	4,259.59	1,904.53	1,766.70	137.83	13.818		
9,850.70	4,310.00	4,379.94	4,379.00	66.91	98.53	-92.24	143.29	4,259.59	1,945.20	1,807.77	137.43	14.154		

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 11 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 250-INC-ONLY													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	49.00	49.00	0.00	1.29	79.05	801.12	4,142.08	4,218.84					
100.00	100.00	149.00	149.00	0.29	3.92	79.05	801.12	4,142.08	4,218.84	4,214.63	4.21	1,001.916		
200.00	200.00	249.00	249.00	0.65	6.56	79.05	801.12	4,142.08	4,218.84	4,211.64	7.20	585.722		
300.00	300.00	351.94	351.89	1.00	9.39	79.05	801.71	4,142.08	4,218.96	4,208.56	10.40	405.835		
317.86	317.86	372.93	372.87	1.06	9.97	-103.19	801.60	4,142.08	4,218.95	4,207.91	11.03	382.326		
400.00	399.98	449.10	448.98	1.35	12.10	-103.20	801.12	4,142.08	4,219.24	4,205.80	13.44	313.859		
500.00	499.84	557.76	557.62	1.69	15.18	-103.26	801.44	4,142.08	4,220.51	4,203.64	16.87	250.249		
600.00	599.45	648.65	648.45	2.04	17.60	-103.32	801.12	4,142.08	4,222.45	4,202.82	19.63	215.108		
700.00	698.70	749.79	749.56	2.39	20.23	-103.45	802.34	4,142.08	4,225.53	4,202.92	22.61	186.908		
800.00	797.47	859.21	858.95	2.74	23.07	-103.59	801.42	4,142.08	4,229.06	4,203.25	25.81	163.869		
900.00	895.62	944.94	944.62	3.11	24.97	-103.72	801.12	4,142.08	4,233.56	4,205.48	28.08	150.766		
1,000.00	993.06	1,047.69	1,047.36	3.49	27.14	-103.92	801.52	4,142.08	4,239.15	4,208.52	30.63	138.395		
1,100.00	1,089.64	1,139.00	1,138.64	3.88	28.98	-104.10	801.12	4,142.08	4,245.53	4,212.68	32.86	129.217		
1,200.00	1,185.27	1,235.26	1,234.90	4.28	30.81	-104.33	801.61	4,142.08	4,253.13	4,218.05	35.08	121.238		
1,300.00	1,279.82	1,335.72	1,335.35	4.68	32.72	-104.59	801.24	4,142.08	4,261.61	4,224.21	37.40	113.959		
1,400.00	1,373.80	1,423.18	1,422.80	5.10	34.56	-104.98	801.12	4,142.08	4,270.80	4,231.16	39.64	107.733		
1,500.00	1,467.79	1,517.86	1,517.48	5.53	36.59	-105.41	801.57	4,142.08	4,280.39	4,238.31	42.09	101.704		
1,600.00	1,561.77	1,616.21	1,615.82	5.95	38.70	-105.84	801.31	4,142.08	4,290.06	4,245.45	44.61	96.161		
1,700.00	1,655.76	1,705.19	1,704.76	6.38	40.73	-106.23	801.12	4,142.08	4,299.99	4,252.93	47.06	91.366		
1,800.00	1,749.74	1,801.66	1,801.22	6.82	43.01	-106.66	801.88	4,142.08	4,310.42	4,260.65	49.77	86.605		
1,900.00	1,843.73	1,907.70	1,907.24	7.25	45.52	-107.11	801.11	4,142.08	4,320.71	4,268.01	52.71	81.976		
2,000.00	1,937.71	1,987.21	1,986.71	7.69	47.64	-107.46	801.12	4,142.08	4,331.41	4,276.16	55.25	78.396		
2,100.00	2,031.70	2,091.21	2,090.70	8.13	50.41	-107.91	801.37	4,142.08	4,342.45	4,284.01	58.45	74.299		
2,200.00	2,125.68	2,175.27	2,174.68	8.57	52.78	-108.27	801.12	4,142.08	4,353.57	4,292.33	61.24	71.092		
2,300.00	2,219.67	2,274.69	2,274.08	9.01	55.65	-108.71	802.23	4,142.08	4,365.35	4,300.81	64.54	67.841		
2,400.00	2,313.65	2,391.53	2,390.87	9.45	59.03	-109.19	800.78	4,142.08	4,376.67	4,308.33	68.34	64.043		
2,500.00	2,407.64	2,457.37	2,456.64	9.89	60.87	-109.47	801.12	4,142.08	4,388.59	4,317.98	70.61	62.153		
2,600.00	2,501.62	2,568.61	2,567.85	10.33	64.01	-109.94	801.43	4,142.08	4,400.87	4,326.69	74.18	59.330		
2,700.00	2,595.61	2,645.45	2,644.61	10.78	66.01	-110.26	801.12	4,142.08	4,413.11	4,336.51	76.60	57.610		
2,800.00	2,689.59	2,744.58	2,743.71	11.22	68.51	-110.69	802.15	4,142.08	4,426.06	4,346.54	79.52	55.657		
2,900.00	2,783.58	2,862.47	2,861.56	11.67	71.48	-111.16	800.82	4,142.08	4,438.53	4,355.62	82.92	53.529		
3,000.00	2,877.56	2,927.50	2,926.56	12.11	72.68	-111.44	801.12	4,142.08	4,451.60	4,367.05	84.54	52.656		
3,100.00	2,971.55	3,032.56	3,031.62	12.56	74.76	-111.87	801.32	4,142.08	4,464.96	4,377.91	87.05	51.291		
3,200.00	3,065.53	3,115.49	3,114.53	13.00	76.41	-112.21	801.12	4,142.08	4,478.37	4,389.25	89.12	50.250		
3,300.00	3,159.52	3,211.50	3,210.53	13.45	78.32	-112.60	801.50	4,142.08	4,492.23	4,400.78	91.45	49.120		
3,400.00	3,253.50	3,313.79	3,312.82	13.89	80.36	-113.01	801.12	4,142.08	4,506.04	4,412.13	93.91	47.980		
3,500.00	3,347.49	3,397.48	3,396.49	14.34	82.22	-113.35	801.12	4,142.08	4,520.18	4,423.99	96.19	46.992		
3,600.00	3,441.72	3,498.78	3,497.78	14.78	84.47	-93.32	801.60	4,142.08	4,529.09	4,430.23	98.86	45.814		
3,700.00	3,535.44	3,585.48	3,584.44	15.20	86.44	-73.26	801.12	4,142.08	4,524.18	4,422.94	101.24	44.688		
3,800.00	3,626.82	3,676.86	3,675.82	15.58	88.73	-59.09	801.12	4,142.08	4,506.10	4,402.16	103.94	43.354		
3,900.00	3,714.08	3,776.01	3,774.95	15.92	91.23	-50.30	801.56	4,142.08	4,475.24	4,368.43	106.81	41.900		
4,000.00	3,795.54	3,845.66	3,844.54	16.21	93.04	-45.06	801.12	4,142.08	4,431.65	4,322.69	108.96	40.673		
4,100.00	3,869.59	3,919.72	3,918.59	16.47	95.12	-42.48	801.12	4,142.08	4,376.78	4,265.42	111.36	39.303		
4,200.00	3,934.81	3,984.93	3,983.81	16.69	96.96	-41.94	801.12	4,142.08	4,311.50	4,198.02	113.48	37.995		
4,300.00	3,989.92	4,040.05	4,038.92	16.87	98.51	-43.34	801.12	4,142.08	4,237.06	4,121.78	115.28	36.754		
4,400.00	4,039.92	4,090.05	4,088.92	17.04	99.92	-43.99	801.12	4,142.08	4,158.90	4,041.99	116.91	35.574		
4,500.00	4,089.91	4,144.09	4,142.92	17.24	101.44	-45.00	803.20	4,142.08	4,082.03	3,963.37	118.67	34.399		
4,600.00	4,131.66	4,190.64	4,189.47	17.48	102.75	-56.56	803.04	4,142.08	4,000.85	3,880.61	120.23	33.276		
4,700.00	4,157.02	4,218.91	4,217.73	17.78	103.55	-72.40	802.88	4,142.08	3,914.88	3,793.60	121.28	32.280		
4,800.00	4,165.55	4,228.41	4,227.23	18.13	103.82	-87.35	802.82	4,142.08	3,826.87	3,705.08	121.79	31.421		
4,900.00	4,168.41	4,231.58	4,230.40	18.55	103.90	-87.45	802.80	4,142.08	3,739.08	3,616.94	122.15	30.612		
5,000.00	4,171.27	4,234.76	4,233.58	19.06	103.99	-87.55	802.78	4,142.08	3,651.92	3,529.39	122.53	29.805		

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 11 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 250-INC-ONLY													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.00	4,174.13	4,237.93	4,236.75	19.64	104.08	-87.65	802.76	4,142.08	3,565.43	3,442.49	122.94	29.002		
5,200.00	4,176.99	4,241.11	4,239.93	20.28	104.17	-87.75	802.73	4,142.08	3,479.66	3,356.27	123.39	28.202		
5,300.00	4,179.85	4,244.28	4,243.10	20.97	104.26	-87.85	802.71	4,142.08	3,394.67	3,270.80	123.87	27.406		
5,400.00	4,182.71	4,247.45	4,246.27	21.70	104.35	-87.95	802.68	4,142.08	3,310.51	3,186.12	124.39	26.614		
5,500.00	4,185.57	4,250.63	4,249.44	22.47	104.44	-88.05	802.66	4,142.08	3,227.26	3,102.31	124.95	25.829		
5,600.00	4,188.43	4,253.80	4,252.61	23.28	104.53	-88.15	802.63	4,142.08	3,144.97	3,019.42	125.55	25.049		
5,700.00	4,191.29	4,256.97	4,255.78	24.11	104.62	-88.25	802.61	4,142.08	3,063.74	2,937.54	126.20	24.276		
5,800.00	4,194.15	4,260.14	4,258.95	24.97	104.71	-88.35	802.58	4,142.08	2,983.65	2,856.75	126.90	23.511		
5,900.00	4,197.01	4,263.31	4,262.12	25.85	104.80	-88.45	802.55	4,142.08	2,904.79	2,777.14	127.65	22.756		
6,000.00	4,199.87	4,266.48	4,265.29	26.75	104.89	-88.55	802.52	4,142.08	2,827.26	2,698.81	128.45	22.010		
6,100.00	4,202.73	4,269.65	4,268.46	27.66	104.98	-88.65	802.50	4,142.08	2,751.18	2,621.87	129.31	21.276		
6,200.00	4,205.59	4,272.81	4,271.63	28.60	105.07	-88.75	802.47	4,142.08	2,676.67	2,546.45	130.22	20.555		
6,300.00	4,208.45	4,275.98	4,274.79	29.54	105.15	-88.85	802.44	4,142.08	2,603.86	2,472.67	131.19	19.847		
6,400.00	4,211.31	4,279.15	4,277.96	30.50	105.24	-88.95	802.41	4,142.08	2,532.91	2,400.69	132.22	19.156		
6,500.00	4,214.17	4,282.31	4,281.13	31.47	105.33	-89.05	802.38	4,142.08	2,463.97	2,330.66	133.32	18.482		
6,600.00	4,217.03	4,285.48	4,284.29	32.45	105.42	-89.15	802.35	4,142.08	2,397.22	2,262.75	134.47	17.828		
6,700.00	4,219.89	4,288.64	4,287.45	33.44	105.51	-89.25	802.31	4,142.08	2,332.84	2,197.16	135.68	17.194		
6,800.00	4,222.75	4,291.81	4,290.62	34.44	105.60	-89.35	802.28	4,142.08	2,271.04	2,134.09	136.94	16.584		
6,900.00	4,225.61	4,294.97	4,293.78	35.45	105.69	-89.45	802.25	4,142.08	2,212.02	2,073.76	138.26	15.999		
7,000.00	4,228.47	4,298.13	4,296.94	36.46	105.78	-89.55	802.22	4,142.08	2,156.03	2,016.40	139.63	15.441		
7,100.00	4,231.33	4,301.30	4,300.10	37.48	105.87	-89.65	802.18	4,142.08	2,103.30	1,962.27	141.04	14.913		
7,200.00	4,234.19	4,304.46	4,303.26	38.51	105.96	-89.75	802.15	4,142.08	2,054.09	1,911.61	142.48	14.417		
7,300.00	4,237.05	4,307.62	4,306.42	39.54	106.05	-89.85	802.11	4,142.08	2,008.64	1,864.70	143.95	13.954		
7,400.00	4,239.91	4,310.78	4,309.58	40.58	106.13	-89.95	802.08	4,142.08	1,967.23	1,821.81	145.42	13.528		
7,500.00	4,242.77	4,313.94	4,312.74	41.62	106.22	-90.05	802.04	4,142.08	1,930.12	1,783.23	146.89	13.140		
7,600.00	4,245.63	4,317.10	4,315.90	42.66	106.31	-90.15	802.00	4,142.08	1,897.54	1,749.20	148.34	12.792		
7,700.00	4,248.49	4,320.26	4,319.06	43.71	106.40	-90.25	801.97	4,142.08	1,869.75	1,720.00	149.75	12.486		
7,800.00	4,251.35	4,323.41	4,322.22	44.77	106.49	-90.35	801.93	4,142.08	1,846.96	1,695.85	151.10	12.223		
7,900.00	4,254.21	4,326.57	4,325.37	45.82	106.58	-90.45	801.89	4,142.08	1,829.35	1,676.97	152.38	12.005		
8,000.00	4,257.07	4,329.73	4,328.53	46.89	106.67	-90.55	801.85	4,142.08	1,817.08	1,663.51	153.57	11.832		
8,100.00	4,259.93	4,332.88	4,331.68	47.95	106.76	-90.65	801.81	4,142.08	1,810.25	1,655.60	154.65	11.705		
8,173.96	4,262.05	4,335.22	4,334.02	48.74	106.82	-90.73	801.78	4,142.08	1,808.74	1,653.36	155.37	11.641 CC		
8,200.00	4,262.79	4,336.04	4,334.84	49.02	106.85	-90.75	801.77	4,142.08	1,808.92	1,653.31	155.61	11.625 ES		
8,300.00	4,265.65	4,339.19	4,337.99	50.08	106.93	-90.85	801.73	4,142.08	1,813.12	1,656.68	156.44	11.590 SF		
8,400.00	4,268.51	4,342.35	4,341.15	51.16	107.02	-90.95	801.69	4,142.08	1,822.79	1,665.66	157.14	11.600		
8,500.00	4,271.37	4,345.50	4,344.30	52.23	107.11	-91.05	801.65	4,142.08	1,837.86	1,680.17	157.70	11.654		
8,600.00	4,274.23	4,348.65	4,347.45	53.31	107.20	-91.15	801.61	4,142.08	1,858.19	1,700.07	158.12	11.752		
8,700.00	4,277.09	4,351.81	4,350.60	54.38	107.29	-91.25	801.57	4,142.08	1,883.61	1,725.20	158.42	11.890		
8,800.00	4,279.95	4,354.96	4,353.75	55.47	107.38	-91.35	801.52	4,142.08	1,913.92	1,755.33	158.59	12.068		
8,900.00	4,282.81	4,358.11	4,356.90	56.55	107.47	-91.45	801.48	4,142.08	1,948.90	1,790.24	158.66	12.284		
9,000.00	4,285.67	4,361.26	4,360.05	57.63	107.56	-91.55	801.44	4,142.08	1,988.28	1,829.65	158.63	12.534		
9,100.00	4,288.53	4,364.41	4,363.20	58.72	107.65	-91.65	801.39	4,142.08	2,031.82	1,873.32	158.51	12.818		
9,200.00	4,291.39	4,367.56	4,366.35	59.80	107.73	-91.75	801.35	4,142.08	2,079.27	1,920.95	158.32	13.134		
9,300.00	4,294.25	4,370.71	4,369.50	60.89	107.82	-91.85	801.30	4,142.08	2,130.34	1,972.28	158.06	13.478		
9,400.00	4,297.11	4,373.85	4,372.64	61.98	107.91	-91.95	801.25	4,142.08	2,184.80	2,027.04	157.76	13.849		
9,500.00	4,299.97	4,377.00	4,375.79	63.07	108.00	-92.05	801.21	4,142.08	2,242.40	2,084.97	157.42	14.245		
9,600.00	4,302.83	4,380.15	4,378.93	64.16	108.09	-92.15	801.16	4,142.08	2,302.89	2,145.84	157.05	14.663		
9,700.00	4,305.69	4,383.29	4,382.08	65.26	108.18	-92.25	801.11	4,142.08	2,366.06	2,209.40	156.66	15.103		
9,800.00	4,308.55	4,386.44	4,385.22	66.35	108.27	-92.35	801.06	4,142.08	2,431.70	2,275.45	156.25	15.563		
9,850.70	4,310.00	4,388.03	4,386.82	66.91	108.31	-92.40	801.04	4,142.08	2,465.86	2,309.82	156.04	15.802		

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 2 - Wellbore #1 - Wellbore #1													Offset Site Error:
Survey Program: 200-INC-ONLY													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	64.00	64.00	0.00	1.31	95.88	-505.46	4,911.98	4,937.92				
100.00	100.00	164.00	164.00	0.29	3.36	95.88	-505.46	4,911.98	4,937.92	4,934.27	3.65	1,354.394	
200.00	200.00	264.01	264.00	0.65	5.50	95.88	-505.46	4,911.98	4,937.92	4,931.77	6.14	803.678	
239.31	239.31	303.31	303.30	0.79	6.36	95.87	-505.06	4,911.98	4,937.88	4,930.73	7.15	690.975	
300.00	300.00	361.80	361.79	1.00	7.64	95.87	-505.19	4,911.98	4,937.89	4,929.25	8.65	571.157	
400.00	399.98	464.03	463.98	1.35	9.88	-86.39	-505.46	4,911.98	4,937.81	4,926.58	11.23	439.723	
500.00	499.84	561.36	561.31	1.69	12.02	-86.46	-504.97	4,911.98	4,937.43	4,923.73	13.70	360.346	
600.00	599.45	663.54	663.45	2.04	14.15	-86.57	-505.46	4,911.98	4,936.95	4,920.77	16.18	305.204	
700.00	698.70	761.85	761.76	2.39	16.04	-86.72	-505.06	4,911.98	4,936.19	4,917.77	18.42	267.942	
800.00	797.47	861.57	861.47	2.74	17.98	-86.92	-505.46	4,911.98	4,935.35	4,914.63	20.72	238.144	
900.00	895.62	959.66	959.55	3.11	19.99	-87.16	-505.20	4,911.98	4,934.32	4,911.22	23.10	213.591	
1,000.00	993.06	1,055.42	1,055.32	3.49	21.95	-87.43	-505.41	4,911.98	4,933.25	4,907.81	25.44	193.915	
1,100.00	1,089.64	1,153.77	1,153.64	3.88	24.07	-87.74	-505.46	4,911.98	4,932.13	4,904.19	27.94	176.510	
1,200.00	1,185.27	1,245.96	1,245.82	4.28	26.06	-88.08	-505.35	4,911.98	4,931.01	4,900.67	30.34	162.550	
1,300.00	1,279.82	1,343.98	1,343.82	4.68	28.23	-88.47	-505.46	4,911.98	4,929.98	4,897.07	32.92	149.770	
1,400.00	1,373.80	1,437.00	1,436.83	5.10	30.30	-88.84	-505.06	4,911.98	4,929.11	4,893.70	35.40	139.227	
1,500.00	1,467.79	1,532.00	1,531.79	5.53	32.45	-89.21	-505.46	4,911.98	4,928.51	4,890.53	37.98	129.767	
1,600.00	1,561.77	1,625.98	1,625.77	5.95	34.72	-89.59	-505.46	4,911.98	4,928.13	4,887.46	40.67	121.170	
1,697.03	1,652.97	1,715.70	1,715.47	6.37	36.88	-89.95	-504.99	4,911.98	4,927.97	4,884.72	43.25	113.941	
1,700.00	1,655.76	1,718.45	1,718.22	6.38	36.95	-89.96	-505.01	4,911.98	4,927.97	4,884.64	43.33	113.733	
1,800.00	1,749.74	1,814.03	1,813.74	6.82	39.22	-90.33	-505.46	4,911.98	4,928.08	4,882.05	46.04	107.046	
1,900.00	1,843.73	1,907.55	1,907.25	7.25	41.42	-90.71	-504.84	4,911.98	4,928.40	4,879.72	48.67	101.252	
2,000.00	1,937.71	2,002.06	2,001.71	7.69	43.61	-91.08	-505.46	4,911.98	4,928.98	4,877.69	51.29	96.093	
2,100.00	2,031.70	2,096.04	2,095.69	8.13	45.58	-91.46	-504.87	4,911.98	4,929.78	4,876.07	53.71	91.790	
2,200.00	2,125.68	2,189.83	2,189.47	8.57	47.55	-91.83	-505.30	4,911.98	4,930.82	4,874.71	56.12	87.866	
2,300.00	2,219.67	2,284.05	2,283.67	9.01	49.44	-92.20	-505.46	4,911.98	4,932.10	4,873.66	58.44	84.396	
2,400.00	2,313.65	2,378.13	2,377.75	9.45	51.30	-92.58	-505.12	4,911.98	4,933.62	4,872.87	60.74	81.224	
2,500.00	2,407.64	2,472.04	2,471.64	9.89	53.15	-92.94	-505.46	4,911.98	4,935.36	4,872.32	63.04	78.290	
2,600.00	2,501.62	2,566.03	2,565.62	10.33	55.01	-93.32	-505.46	4,911.98	4,937.35	4,872.00	65.34	75.562	
2,700.00	2,595.61	2,660.48	2,660.07	10.78	56.88	-93.69	-505.01	4,911.98	4,939.58	4,871.92	67.65	73.013	
2,800.00	2,689.59	2,754.02	2,753.59	11.22	58.71	-94.06	-505.46	4,911.98	4,942.02	4,872.10	69.92	70.677	
2,900.00	2,783.58	2,848.01	2,847.58	11.67	60.35	-94.43	-505.46	4,911.98	4,944.71	4,872.71	72.00	68.673	
3,000.00	2,877.56	2,943.23	2,942.79	12.11	62.01	-94.81	-505.35	4,911.98	4,947.64	4,873.54	74.10	66.766	
3,100.00	2,971.55	3,035.99	3,035.55	12.56	63.51	-95.17	-505.46	4,911.98	4,950.79	4,874.75	76.05	65.103	
3,200.00	3,065.53	3,130.22	3,129.78	13.00	65.00	-95.54	-505.40	4,911.98	4,954.19	4,876.21	77.98	63.533	
3,300.00	3,159.52	3,223.96	3,223.52	13.45	66.53	-95.91	-505.46	4,911.98	4,957.81	4,877.86	79.95	62.010	
3,400.00	3,253.50	3,318.07	3,317.63	13.89	68.14	-96.28	-505.38	4,911.98	4,961.67	4,879.67	82.00	60.506	
3,500.00	3,347.49	3,411.93	3,411.49	14.34	69.75	-96.65	-505.46	4,911.98	4,965.75	4,881.70	84.05	59.078	
3,600.00	3,441.72	3,506.16	3,505.72	14.78	71.42	-97.04	-505.46	4,911.98	4,969.36	4,885.20	86.16	57.617	
3,700.00	3,535.44	3,601.11	3,600.66	15.20	73.10	-97.43	-505.26	4,911.98	4,972.47	4,886.20	88.26	56.076	
3,800.00	3,629.27	3,695.27	3,694.82	15.64	74.70	-97.82	-505.46	4,911.98	4,975.10	4,888.95	90.35	54.528	
3,900.00	3,714.08	3,778.68	3,778.23	15.92	76.25	-98.15	-505.29	4,911.98	4,880.15	4,788.00	92.16	52.955	
4,000.00	3,795.54	3,861.39	3,860.94	16.21	77.72	-98.49	-505.41	4,911.98	4,827.00	4,733.06	93.93	51.387	
4,100.00	3,869.59	3,934.05	3,933.59	16.47	79.05	-98.81	-505.46	4,911.98	4,762.76	4,667.24	95.52	49.862	
4,200.00	3,934.81	3,999.27	3,998.81	16.69	80.25	-99.11	-505.46	4,911.98	4,688.65	4,591.73	96.93	48.373	
4,300.00	3,989.92	4,055.42	4,054.96	16.87	81.28	-99.38	-505.22	4,911.98	4,606.10	4,507.98	98.12	46.942	
4,400.00	4,039.92	4,106.48	4,106.02	17.04	82.22	-99.62	-505.36	4,911.98	4,519.98	4,420.80	99.18	45.575	
4,500.00	4,089.91	4,154.38	4,153.91	17.24	83.10	-99.83	-505.46	4,911.98	4,433.88	4,333.70	100.18	44.259	
4,600.00	4,131.66	4,196.13	4,195.66	17.48	83.86	-99.99	-505.46	4,911.98	4,343.71	4,242.64	101.07	42.977	
4,700.00	4,157.02	4,221.49	4,221.02	17.78	84.33	-99.99	-505.46	4,911.98	4,247.74	4,146.11	101.63	41.796	
4,800.00	4,165.55	4,230.02	4,229.55	18.13	84.49	-99.99	-505.46	4,911.98	4,148.89	4,047.04	101.85	40.734	
4,900.00	4,168.41	4,232.88	4,232.41	18.55	84.54	-99.99	-505.46	4,911.98	4,049.64	3,947.68	101.96	39.717	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 2 - Wellbore #1 - Wellbore #1

Offset Site Error: 0.00 usft

Survey Program: 200-INC-ONLY		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,171.27	4,235.74	4,235.27	19.06	84.59	-77.08	-505.46	4,911.98	3,950.43	3,848.35	102.08	38.700	
5,100.00	4,174.13	4,238.60	4,238.13	19.64	84.65	-77.40	-505.46	4,911.98	3,851.26	3,749.06	102.20	37.684	
5,200.00	4,176.99	4,241.46	4,240.99	20.28	84.70	-77.72	-505.46	4,911.98	3,752.13	3,649.81	102.33	36.669	
5,300.00	4,179.85	4,244.32	4,243.85	20.97	84.75	-78.04	-505.46	4,911.98	3,653.05	3,550.59	102.46	35.654	
5,400.00	4,182.71	4,247.18	4,246.71	21.70	84.80	-78.36	-505.46	4,911.98	3,554.01	3,451.42	102.60	34.641	
5,500.00	4,185.57	4,250.04	4,249.57	22.47	84.86	-78.68	-505.46	4,911.98	3,455.03	3,352.29	102.74	33.629	
5,600.00	4,188.43	4,252.90	4,252.43	23.28	84.91	-79.00	-505.46	4,911.98	3,356.11	3,253.21	102.89	32.617	
5,700.00	4,191.29	4,255.76	4,255.29	24.11	84.96	-79.33	-505.46	4,911.98	3,257.24	3,154.19	103.05	31.607	
5,800.00	4,194.15	4,258.62	4,258.15	24.97	85.01	-79.65	-505.46	4,911.98	3,158.45	3,055.23	103.22	30.598	
5,900.00	4,197.01	4,261.48	4,261.01	25.85	85.07	-79.98	-505.46	4,911.98	3,059.74	2,956.33	103.41	29.590	
6,000.00	4,199.87	4,264.34	4,263.87	26.75	85.12	-80.30	-505.46	4,911.98	2,961.10	2,857.51	103.60	28.583	
6,100.00	4,202.73	4,267.20	4,266.73	27.66	85.17	-80.63	-505.46	4,911.98	2,862.56	2,758.76	103.80	27.577	
6,200.00	4,205.59	4,270.06	4,269.59	28.60	85.22	-80.95	-505.46	4,911.98	2,764.12	2,660.10	104.02	26.573	
6,300.00	4,208.45	4,272.92	4,272.45	29.54	85.28	-81.28	-505.46	4,911.98	2,665.80	2,561.54	104.26	25.569	
6,400.00	4,211.31	4,275.82	4,275.35	30.50	85.33	-81.62	-505.13	4,911.98	2,567.67	2,463.15	104.51	24.568	
6,500.00	4,214.17	4,278.73	4,278.26	31.47	85.38	-81.95	-505.13	4,911.98	2,469.61	2,364.82	104.79	23.568	
6,600.00	4,217.03	4,281.64	4,281.17	32.45	85.44	-82.29	-505.13	4,911.98	2,371.71	2,266.63	105.09	22.569	
6,700.00	4,219.89	4,284.55	4,284.08	33.44	85.49	-82.62	-505.13	4,911.98	2,274.00	2,168.58	105.41	21.572	
6,800.00	4,222.75	4,287.46	4,286.99	34.44	85.54	-82.96	-505.13	4,911.98	2,176.48	2,070.71	105.77	20.577	
6,900.00	4,225.61	4,290.37	4,289.90	35.45	85.60	-83.29	-505.14	4,911.98	2,079.20	1,973.04	106.17	19.584	
7,000.00	4,228.47	4,293.28	4,292.80	36.46	85.65	-83.63	-505.14	4,911.98	1,982.19	1,875.58	106.60	18.594	
7,100.00	4,231.33	4,296.18	4,295.71	37.48	85.70	-83.97	-505.14	4,911.98	1,885.48	1,778.39	107.09	17.607	
7,200.00	4,234.19	4,299.09	4,298.62	38.51	85.76	-84.30	-505.14	4,911.98	1,789.13	1,681.50	107.63	16.623	
7,300.00	4,237.05	4,302.00	4,301.53	39.54	85.81	-84.64	-505.14	4,911.98	1,693.19	1,584.95	108.24	15.643	
7,400.00	4,239.91	4,304.91	4,304.43	40.58	85.87	-84.98	-505.15	4,911.98	1,597.76	1,488.82	108.94	14.667	
7,500.00	4,242.77	4,307.81	4,307.34	41.62	85.92	-85.32	-505.15	4,911.98	1,502.90	1,393.18	109.73	13.697	
7,600.00	4,245.63	4,310.72	4,310.25	42.66	85.97	-85.65	-505.15	4,911.98	1,408.76	1,298.12	110.64	12.733	
7,700.00	4,248.49	4,313.63	4,313.15	43.71	86.03	-85.99	-505.16	4,911.98	1,315.47	1,203.79	111.69	11.778	
7,800.00	4,251.35	4,316.53	4,316.06	44.77	86.08	-86.33	-505.16	4,911.98	1,223.24	1,110.33	112.91	10.834	
7,900.00	4,254.21	4,319.44	4,318.96	45.82	86.13	-86.67	-505.16	4,911.98	1,132.32	1,017.98	114.34	9.903	
8,000.00	4,257.07	4,322.34	4,321.87	46.89	86.19	-87.01	-505.17	4,911.98	1,043.06	927.03	116.02	8.990	
8,100.00	4,259.93	4,325.25	4,324.77	47.95	86.24	-87.35	-505.17	4,911.98	955.91	837.90	118.02	8.100	
8,200.00	4,262.79	4,328.15	4,327.68	49.02	86.29	-87.69	-505.18	4,911.98	871.52	751.15	120.38	7.240	
8,300.00	4,265.65	4,331.06	4,330.58	50.08	86.35	-88.03	-505.18	4,911.98	790.77	667.60	123.17	6.420	
8,400.00	4,268.51	4,333.96	4,333.49	51.16	86.40	-88.37	-505.19	4,911.98	714.89	588.46	126.43	5.654	
8,500.00	4,271.37	4,336.86	4,336.39	52.23	86.45	-88.71	-505.20	4,911.98	645.60	515.44	130.16	4.960	
8,600.00	4,274.23	4,339.77	4,339.29	53.31	86.51	-89.05	-505.20	4,911.98	585.25	451.05	134.20	4.361	
8,700.00	4,277.09	4,342.67	4,342.20	54.38	86.56	-89.39	-505.21	4,911.98	536.86	398.67	138.19	3.885	
8,800.00	4,279.95	4,345.57	4,345.10	55.47	86.61	-89.73	-505.21	4,911.98	503.89	362.43	141.45	3.562	
8,900.00	4,282.81	4,348.47	4,348.00	56.55	86.67	-90.07	-505.22	4,911.98	489.46	346.28	143.18	3.418	
8,921.73	4,283.43	4,349.10	4,348.63	56.78	86.68	-90.14	-505.22	4,911.98	488.97	345.68	143.29	3.412 CC, ES, SF	
9,000.00	4,285.67	4,351.38	4,350.90	57.63	86.72	-90.41	-505.23	4,911.98	495.19	352.33	142.87	3.466	
9,100.00	4,288.53	4,354.28	4,353.81	58.72	86.77	-90.75	-505.24	4,911.98	520.43	379.75	140.69	3.699	
9,200.00	4,291.39	4,357.18	4,356.71	59.80	86.83	-91.09	-505.24	4,911.98	562.56	425.19	137.36	4.095	
9,300.00	4,294.25	4,360.08	4,359.61	60.89	86.88	-91.43	-505.25	4,911.98	618.12	484.47	133.65	4.625	
9,400.00	4,297.11	4,362.98	4,362.51	61.98	86.93	-91.77	-505.26	4,911.98	683.85	553.78	130.07	5.258	
9,500.00	4,299.97	4,365.88	4,365.41	63.07	86.99	-92.11	-505.27	4,911.98	757.11	630.25	126.86	5.968	
9,600.00	4,302.83	4,368.78	4,368.31	64.16	87.04	-92.44	-505.28	4,911.98	835.93	711.82	124.10	6.736	
9,700.00	4,305.69	4,371.68	4,371.21	65.26	87.09	-92.78	-505.29	4,911.98	918.86	797.09	121.77	7.546	
9,800.00	4,308.55	4,374.58	4,374.11	66.35	87.15	-93.12	-505.30	4,911.98	1,004.90	885.07	119.83	8.386	
9,850.70	4,310.00	4,376.05	4,375.58	66.91	87.17	-93.29	-505.30	4,911.98	1,049.46	930.49	118.97	8.822	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 3 - Wellbore #1 - Wellbore #1													Offset Site Error:
Survey Program: 228-INC-ONLY													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
1,100.00	1,089.64	1,160.81	1,160.64	3.88	24.15	-81.68	-1,055.07	4,905.03	4,999.34	4,971.31	28.02	178.389	
1,200.00	1,185.27	1,254.14	1,253.97	4.28	25.89	-82.08	-1,055.02	4,905.03	4,995.02	4,964.85	30.17	165.590	
1,300.00	1,279.82	1,350.99	1,350.82	4.68	28.13	-82.53	-1,055.07	4,905.03	4,990.42	4,957.61	32.81	152.100	
1,400.00	1,373.80	1,439.86	1,439.68	5.10	30.26	-82.88	-1,054.93	4,905.03	4,985.80	4,950.43	35.36	140.991	
1,500.00	1,467.79	1,539.02	1,538.79	5.53	32.56	-83.26	-1,055.07	4,905.03	4,981.44	4,943.36	38.08	130.821	
1,600.00	1,561.77	1,630.40	1,630.13	5.95	34.65	-83.63	-1,053.92	4,905.03	4,977.12	4,936.52	40.60	122.598	
1,700.00	1,655.76	1,716.93	1,716.65	6.38	36.63	-83.96	-1,054.66	4,905.03	4,973.33	4,930.32	43.01	115.636	
1,800.00	1,749.74	1,821.05	1,820.74	6.82	38.64	-84.36	-1,055.07	4,905.03	4,969.70	4,924.25	45.45	109.348	
1,900.00	1,843.73	1,913.37	1,913.06	7.25	40.30	-84.73	-1,054.89	4,905.03	4,966.22	4,918.68	47.55	104.451	
2,000.00	1,937.71	2,009.03	2,008.71	7.69	41.98	-85.10	-1,055.07	4,905.03	4,963.03	4,913.37	49.66	99.941	
2,100.00	2,031.70	2,102.75	2,102.43	8.13	43.57	-85.47	-1,054.78	4,905.03	4,960.01	4,908.32	51.69	95.959	
2,200.00	2,125.68	2,194.82	2,194.49	8.57	45.13	-85.83	-1,054.98	4,905.03	4,957.29	4,903.59	53.69	92.329	
2,300.00	2,219.67	2,290.99	2,290.67	9.01	46.77	-86.21	-1,055.07	4,905.03	4,954.78	4,899.00	55.78	88.832	
2,400.00	2,313.65	2,384.37	2,384.05	9.45	48.37	-86.58	-1,055.04	4,905.03	4,952.49	4,894.67	57.82	85.655	
2,500.00	2,407.64	2,478.97	2,478.64	9.89	50.08	-86.95	-1,055.07	4,905.03	4,950.45	4,890.48	59.97	82.553	
2,600.00	2,501.62	2,571.43	2,571.10	10.33	51.77	-87.32	-1,054.97	4,905.03	4,948.63	4,886.52	62.10	79.683	
2,700.00	2,595.61	2,666.94	2,666.61	10.78	53.60	-87.70	-1,055.07	4,905.03	4,947.06	4,882.68	64.38	76.847	
2,800.00	2,689.59	2,760.64	2,760.31	11.22	55.42	-88.07	-1,054.75	4,905.03	4,945.69	4,879.05	66.64	74.216	
2,900.00	2,783.58	2,853.64	2,853.30	11.67	57.22	-88.44	-1,054.96	4,905.03	4,944.60	4,875.71	68.89	71.777	
3,000.00	2,877.56	2,948.92	2,948.56	12.11	59.11	-88.81	-1,055.07	4,905.03	4,943.74	4,872.52	71.22	69.415	
3,100.00	2,971.55	3,041.44	3,041.07	12.56	60.95	-89.18	-1,054.89	4,905.03	4,943.09	4,869.58	73.51	67.245	
3,200.00	3,065.53	3,136.91	3,136.53	13.00	62.86	-89.56	-1,055.07	4,905.03	4,942.70	4,866.84	75.86	65.158	
3,300.00	3,159.52	3,230.56	3,230.18	13.45	64.72	-89.93	-1,054.71	4,905.03	4,942.52	4,864.36	78.17	63.228	
3,314.00	3,172.68	3,243.60	3,243.22	13.51	64.98	-89.98	-1,054.74	4,905.03	4,942.52	4,864.03	78.49	62.968	
3,400.00	3,253.50	3,324.90	3,324.50	13.89	66.60	-90.30	-1,055.07	4,905.03	4,942.61	4,862.11	80.50	61.400	
3,500.00	3,347.49	3,418.89	3,418.49	14.34	68.58	-90.67	-1,055.07	4,905.03	4,942.92	4,860.00	82.92	59.612	
3,600.00	3,441.72	3,512.75	3,512.34	14.78	70.55	-70.59	-1,054.71	4,905.03	4,937.85	4,852.53	85.33	57.869	
3,700.00	3,535.44	3,606.87	3,606.44	15.20	72.47	-50.08	-1,055.07	4,905.03	4,919.57	4,831.90	87.67	56.116	
3,800.00	3,626.82	3,698.25	3,697.82	15.58	74.24	-34.91	-1,055.07	4,905.03	4,888.28	4,798.46	89.82	54.423	
3,900.00	3,714.08	3,785.41	3,784.96	15.92	75.93	-24.42	-1,054.75	4,905.03	4,844.54	4,752.70	91.85	52.747	
4,000.00	3,795.54	3,866.99	3,866.54	16.21	77.41	-16.82	-1,055.07	4,905.03	4,789.15	4,695.54	93.61	51.160	
4,100.00	3,869.59	3,941.05	3,940.60	16.47	78.65	-10.67	-1,054.93	4,905.03	4,723.13	4,628.03	95.09	49.669	
4,200.00	3,934.81	4,006.30	4,005.85	16.69	79.75	-4.87	-1,055.04	4,905.03	4,647.72	4,551.35	96.37	48.227	
4,300.00	3,989.92	4,061.38	4,060.92	16.87	80.70	1.52	-1,055.07	4,905.03	4,564.39	4,466.93	97.46	46.836	
4,400.00	4,039.92	4,111.38	4,110.92	17.04	81.57	1.55	-1,055.07	4,905.03	4,477.79	4,379.38	98.41	45.501	
4,500.00	4,089.91	4,161.38	4,160.92	17.24	82.44	1.60	-1,054.99	4,905.03	4,391.20	4,291.83	99.37	44.191	
4,600.00	4,131.66	4,203.13	4,202.67	17.48	83.16	2.39	-1,055.02	4,905.03	4,300.48	4,200.30	100.18	42.927	
4,700.00	4,157.02	4,228.50	4,228.04	17.78	83.61	4.89	-1,055.06	4,905.03	4,203.89	4,103.22	100.67	41.759	
4,800.00	4,165.55	4,237.02	4,236.56	18.13	83.75	27.34	-1,055.07	4,905.03	4,104.37	4,003.53	100.84	40.703	
4,900.00	4,168.41	4,239.88	4,239.41	18.55	83.81	27.92	-1,055.07	4,905.03	4,004.42	3,903.53	100.89	39.690	
5,000.00	4,171.27	4,242.74	4,242.27	19.06	83.86	28.52	-1,055.07	4,905.03	3,904.47	3,803.52	100.95	38.676	
5,100.00	4,174.13	4,245.60	4,245.13	19.64	83.91	29.15	-1,055.07	4,905.03	3,804.53	3,703.51	101.01	37.664	
5,200.00	4,176.99	4,248.46	4,247.99	20.28	83.96	29.81	-1,055.07	4,905.03	3,704.58	3,603.51	101.07	36.652	
5,300.00	4,179.85	4,251.31	4,250.85	20.97	84.02	30.49	-1,055.07	4,905.03	3,604.64	3,503.50	101.13	35.642	
5,400.00	4,182.71	4,254.17	4,253.71	21.70	84.07	31.20	-1,055.07	4,905.03	3,504.69	3,403.49	101.20	34.632	
5,500.00	4,185.57	4,257.03	4,256.57	22.47	84.12	31.93	-1,055.07	4,905.03	3,404.75	3,303.49	101.26	33.624	
5,600.00	4,188.43	4,259.89	4,259.43	23.28	84.17	32.71	-1,055.07	4,905.03	3,304.80	3,203.48	101.32	32.617	
5,700.00	4,191.29	4,262.75	4,262.29	24.11	84.23	33.51	-1,055.07	4,905.03	3,204.86	3,103.48	101.39	31.610	
5,800.00	4,194.15	4,265.61	4,265.15	24.97	84.28	34.35	-1,055.07	4,905.03	3,104.92	3,003.47	101.45	30.605	
5,900.00	4,197.01	4,268.47	4,268.01	25.85	84.33	35.23	-1,055.07	4,905.03	3,004.98	2,903.47	101.52	29.601	
6,000.00	4,199.87	4,271.33	4,270.87	26.75	84.39	36.15	-1,055.07	4,905.03	2,905.05	2,803.46	101.58	28.598	
6,100.00	4,202.73	4,274.19	4,273.73	27.66	84.44	37.11	-1,055.07	4,905.03	2,805.11	2,703.46	101.65	27.596	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 3 - Wellbore #1 - Wellbore #1													Offset Site Error:
Survey Program: 228-INC-ONLY													0.00 usft
Reference	Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning	Offset Well Error:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)		Reference	Offset	+N/-S (usft)	+E/-W (usft)				0.00 usft	
6,200.00	4,205.59	4,277.05	4,276.59	28.60	84.49	38.12	-1,055.07	4,905.03	2,705.17	2,603.46	101.71	26.596	
6,300.00	4,208.45	4,279.91	4,279.45	29.54	84.54	39.17	-1,055.07	4,905.03	2,605.24	2,503.46	101.78	25.596	
6,400.00	4,211.31	4,282.77	4,282.31	30.50	84.60	40.27	-1,055.07	4,905.03	2,505.31	2,403.46	101.85	24.598	
6,500.00	4,214.17	4,285.63	4,285.17	31.47	84.65	41.42	-1,055.07	4,905.03	2,405.38	2,303.47	101.92	23.602	
6,600.00	4,217.03	4,288.49	4,288.03	32.45	84.70	42.63	-1,055.07	4,905.03	2,305.46	2,203.47	101.98	22.606	
6,700.00	4,219.89	4,291.35	4,290.89	33.44	84.75	43.90	-1,055.07	4,905.03	2,205.53	2,103.48	102.05	21.612	
6,800.00	4,222.75	4,294.21	4,293.75	34.44	84.81	45.23	-1,055.07	4,905.03	2,105.61	2,003.49	102.12	20.619	
6,900.00	4,225.61	4,297.07	4,296.61	35.45	84.86	46.62	-1,055.07	4,905.03	2,005.70	1,903.51	102.19	19.628	
7,000.00	4,228.47	4,299.93	4,299.47	36.46	84.91	48.08	-1,055.07	4,905.03	1,905.79	1,803.53	102.25	18.638	
7,100.00	4,231.33	4,302.79	4,302.33	37.48	84.97	49.61	-1,055.07	4,905.03	1,805.88	1,703.56	102.32	17.649	
7,200.00	4,234.19	4,305.65	4,305.19	38.51	85.02	51.22	-1,055.07	4,905.03	1,705.98	1,603.60	102.39	16.662	
7,300.00	4,237.05	4,308.51	4,308.05	39.54	85.07	52.90	-1,055.07	4,905.03	1,606.09	1,503.64	102.45	15.677	
7,400.00	4,239.91	4,311.37	4,310.91	40.58	85.12	54.65	-1,055.07	4,905.03	1,506.21	1,403.69	102.52	14.692	
7,500.00	4,242.77	4,314.23	4,313.77	41.62	85.18	56.49	-1,055.07	4,905.03	1,406.33	1,303.76	102.58	13.710	
7,600.00	4,245.63	4,317.09	4,316.63	42.66	85.23	58.41	-1,055.07	4,905.03	1,306.48	1,203.83	102.64	12.728	
7,700.00	4,248.49	4,319.95	4,319.49	43.71	85.28	60.40	-1,055.07	4,905.03	1,206.63	1,103.93	102.70	11.749	
7,800.00	4,251.35	4,322.81	4,322.35	44.77	85.33	62.49	-1,055.07	4,905.03	1,106.81	1,004.05	102.76	10.771	
7,900.00	4,254.21	4,325.67	4,325.21	45.82	85.39	64.65	-1,055.07	4,905.03	1,007.02	904.20	102.82	9.794	
8,000.00	4,257.07	4,328.53	4,328.07	46.89	85.44	66.90	-1,055.07	4,905.03	907.26	804.38	102.88	8.819	
8,100.00	4,259.93	4,331.39	4,330.93	47.95	85.49	69.22	-1,055.07	4,905.03	807.55	704.61	102.94	7.845	
8,200.00	4,262.79	4,334.25	4,333.79	49.02	85.55	71.61	-1,055.07	4,905.03	707.92	604.91	103.01	6.872	
8,300.00	4,265.65	4,337.11	4,336.65	50.08	85.60	74.08	-1,055.07	4,905.03	608.39	505.28	103.10	5.901	
8,400.00	4,268.51	4,339.97	4,339.51	51.16	85.65	76.60	-1,055.07	4,905.03	509.02	405.78	103.25	4.930	
8,500.00	4,271.37	4,342.83	4,342.37	52.23	85.70	79.18	-1,055.07	4,905.03	409.95	306.42	103.53	3.960	
8,600.00	4,274.23	4,345.69	4,345.23	53.31	85.76	81.81	-1,055.07	4,905.03	311.44	207.24	104.21	2.989	
8,700.00	4,277.09	4,348.55	4,348.09	54.38	85.81	84.44	-1,054.81	4,905.03	214.22	108.00	106.22	2.017	
8,800.00	4,279.95	4,351.41	4,350.94	55.47	85.86	87.13	-1,054.81	4,905.03	121.63	7.39	114.24	1.065 Level 2	
8,900.00	4,282.81	4,354.26	4,353.79	56.55	85.91	89.83	-1,054.82	4,905.03	60.69	-80.99	141.68	0.428 Level 1	
8,905.60	4,282.97	4,354.42	4,353.95	56.61	85.92	89.98	-1,054.82	4,905.03	60.43	-81.92	142.35	0.424 Level 1, CC, ES, SF	
9,000.00	4,285.67	4,357.11	4,356.65	57.63	85.97	92.53	-1,054.82	4,905.03	112.05	-11.61	123.66	0.906 Level 1	
9,100.00	4,288.53	4,359.96	4,359.50	58.72	86.02	95.22	-1,054.82	4,905.03	203.50	90.04	113.45	1.794	
9,200.00	4,291.39	4,362.82	4,362.35	59.80	86.07	97.89	-1,054.82	4,905.03	300.42	190.44	109.98	2.732	
9,300.00	4,294.25	4,365.67	4,365.20	60.89	86.13	100.52	-1,054.82	4,905.03	398.84	290.41	108.43	3.678	
9,400.00	4,297.11	4,368.52	4,368.05	61.98	86.18	103.11	-1,054.82	4,905.03	497.88	390.25	107.63	4.626	
9,500.00	4,299.97	4,371.37	4,370.90	63.07	86.23	105.64	-1,054.83	4,905.03	597.22	490.05	107.17	5.573	
9,600.00	4,302.83	4,374.22	4,373.75	64.16	86.28	108.12	-1,054.83	4,905.03	696.74	589.85	106.89	6.518	
9,700.00	4,305.69	4,377.07	4,376.60	65.26	86.34	110.52	-1,054.83	4,905.03	796.37	689.64	106.73	7.462	
9,800.00	4,308.55	4,379.92	4,379.45	66.35	86.39	112.85	-1,054.84	4,905.03	896.07	789.44	106.64	8.403	
9,850.70	4,310.00	4,381.36	4,380.89	66.91	86.41	114.00	-1,054.84	4,905.03	946.64	840.03	106.61	8.880	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 4 - Wellbore #1 - Wellbore #1													Offset Site Error:
Survey Program: 190-INC-ONLY													Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,165.55	4,240.02	4,238.55	18.13	106.71	-71.27	-567.11	5,700.95	4,925.27	4,801.26	124.01	39.717	
4,900.00	4,168.41	4,242.88	4,241.41	18.55	106.78	-71.63	-567.11	5,700.95	4,825.67	4,701.55	124.12	38.879	
5,000.00	4,171.27	4,245.74	4,244.27	19.06	106.85	-71.98	-567.11	5,700.95	4,726.09	4,601.85	124.24	38.041	
5,100.00	4,174.13	4,248.60	4,247.13	19.64	106.92	-72.34	-567.11	5,700.95	4,626.52	4,502.17	124.35	37.204	
5,200.00	4,176.99	4,251.46	4,249.99	20.28	106.99	-72.70	-567.11	5,700.95	4,526.97	4,402.49	124.48	36.368	
5,300.00	4,179.85	4,254.32	4,252.85	20.97	107.06	-73.06	-567.11	5,700.95	4,427.44	4,302.84	124.60	35.533	
5,400.00	4,182.71	4,257.18	4,255.71	21.70	107.13	-73.43	-567.11	5,700.95	4,327.93	4,203.20	124.73	34.699	
5,500.00	4,185.57	4,260.04	4,258.57	22.47	107.20	-73.79	-567.11	5,700.95	4,228.44	4,103.58	124.86	33.865	
5,600.00	4,188.43	4,262.90	4,261.43	23.28	107.27	-74.16	-567.11	5,700.95	4,128.97	4,003.97	125.00	33.032	
5,700.00	4,191.29	4,265.76	4,264.29	24.11	107.34	-74.52	-567.11	5,700.95	4,029.53	3,904.39	125.14	32.200	
5,800.00	4,194.15	4,268.62	4,267.15	24.97	107.41	-74.89	-567.11	5,700.95	3,930.11	3,804.83	125.29	31.369	
5,900.00	4,197.01	4,271.48	4,270.01	25.85	107.48	-75.26	-567.11	5,700.95	3,830.72	3,705.29	125.44	30.539	
6,000.00	4,199.87	4,274.34	4,272.87	26.75	107.55	-75.63	-567.11	5,700.95	3,731.37	3,605.77	125.59	29.710	
6,100.00	4,202.73	4,277.20	4,275.73	27.66	107.62	-76.00	-567.11	5,700.95	3,632.04	3,506.28	125.76	28.882	
6,200.00	4,205.59	4,280.06	4,278.59	28.60	107.69	-76.38	-567.11	5,700.95	3,532.75	3,406.83	125.93	28.054	
6,300.00	4,208.45	4,282.92	4,281.45	29.54	107.76	-76.75	-567.11	5,700.95	3,433.50	3,307.40	126.10	27.228	
6,400.00	4,211.31	4,285.78	4,284.31	30.50	107.83	-77.13	-567.11	5,700.95	3,334.29	3,208.01	126.29	26.403	
6,500.00	4,214.17	4,288.64	4,287.17	31.47	107.90	-77.50	-567.11	5,700.95	3,235.13	3,108.65	126.48	25.578	
6,600.00	4,217.03	4,291.50	4,290.03	32.45	107.97	-77.88	-567.11	5,700.95	3,136.02	3,009.34	126.68	24.755	
6,700.00	4,219.89	4,294.36	4,292.89	33.44	108.04	-78.26	-567.11	5,700.95	3,036.96	2,910.07	126.90	23.933	
6,800.00	4,222.75	4,297.22	4,295.75	34.44	108.11	-78.64	-567.11	5,700.95	2,937.97	2,810.85	127.12	23.112	
6,900.00	4,225.61	4,300.08	4,298.61	35.45	108.18	-79.02	-567.11	5,700.95	2,839.04	2,711.68	127.36	22.292	
7,000.00	4,228.47	4,302.94	4,301.47	36.46	108.25	-79.40	-567.11	5,700.95	2,740.19	2,612.58	127.61	21.473	
7,100.00	4,231.33	4,305.80	4,304.33	37.48	108.32	-79.78	-567.11	5,700.95	2,641.42	2,513.54	127.88	20.655	
7,200.00	4,234.19	4,308.66	4,307.19	38.51	108.39	-80.17	-567.11	5,700.95	2,542.75	2,414.58	128.17	19.839	
7,300.00	4,237.05	4,311.55	4,310.08	39.54	108.46	-80.57	-566.52	5,700.95	2,444.28	2,315.80	128.48	19.024	
7,400.00	4,239.91	4,314.41	4,313.04	40.58	108.53	-80.97	-566.52	5,700.95	2,345.83	2,217.01	128.82	18.210	
7,500.00	4,242.77	4,317.46	4,315.99	41.62	108.60	-81.37	-566.52	5,700.95	2,247.52	2,118.33	129.19	17.397	
7,600.00	4,245.63	4,320.42	4,318.95	42.66	108.67	-81.76	-566.53	5,700.95	2,149.35	2,019.77	129.59	16.586	
7,700.00	4,248.49	4,323.37	4,321.90	43.71	108.75	-82.16	-566.53	5,700.95	2,051.36	1,921.34	130.02	15.777	
7,800.00	4,251.35	4,326.33	4,324.85	44.77	108.82	-82.57	-566.53	5,700.95	1,953.57	1,823.07	130.50	14.970	
7,900.00	4,254.21	4,329.28	4,327.80	45.82	108.89	-82.97	-566.53	5,700.95	1,856.01	1,724.97	131.03	14.164	
8,000.00	4,257.07	4,332.23	4,330.75	46.89	108.96	-83.37	-566.54	5,700.95	1,758.71	1,627.09	131.63	13.362	
8,100.00	4,259.93	4,335.18	4,333.71	47.95	109.03	-83.77	-566.54	5,700.95	1,661.74	1,529.45	132.29	12.561	
8,200.00	4,262.79	4,338.13	4,336.66	49.02	109.11	-84.17	-566.55	5,700.95	1,565.14	1,432.09	133.04	11.764	
8,300.00	4,265.65	4,341.08	4,339.60	50.08	109.18	-84.58	-566.55	5,700.95	1,468.98	1,335.08	133.90	10.971	
8,400.00	4,268.51	4,344.03	4,342.55	51.16	109.25	-84.98	-566.56	5,700.95	1,373.37	1,238.49	134.89	10.182	
8,500.00	4,271.37	4,346.98	4,345.50	52.23	109.32	-85.39	-566.57	5,700.95	1,278.43	1,142.40	136.03	9.398	
8,600.00	4,274.23	4,349.92	4,348.45	53.31	109.39	-85.79	-566.58	5,700.95	1,184.31	1,046.95	137.37	8.621	
8,700.00	4,277.09	4,352.87	4,351.39	54.38	109.47	-86.20	-566.59	5,700.95	1,091.23	952.29	138.94	7.854	
8,800.00	4,279.95	4,355.82	4,354.34	55.47	109.54	-86.60	-566.59	5,700.95	999.49	858.67	140.82	7.098	
8,900.00	4,282.81	4,358.76	4,357.29	56.55	109.61	-87.01	-566.60	5,700.95	909.47	766.40	143.07	6.357	
9,000.00	4,285.67	4,361.71	4,360.23	57.63	109.68	-87.41	-566.62	5,700.95	821.75	675.97	145.79	5.637	
9,100.00	4,288.53	4,364.65	4,363.17	58.72	109.75	-87.82	-566.63	5,700.95	737.16	588.08	149.08	4.945	
9,200.00	4,291.39	4,367.59	4,366.12	59.80	109.83	-88.22	-566.64	5,700.95	656.90	503.84	153.06	4.292	
9,300.00	4,294.25	4,370.53	4,369.06	60.89	109.90	-88.63	-566.65	5,700.95	582.76	424.98	157.78	3.693	
9,400.00	4,297.11	4,373.48	4,372.00	61.98	109.97	-89.04	-566.66	5,700.95	517.39	354.24	163.15	3.171	
9,500.00	4,299.97	4,376.42	4,374.94	63.07	110.04	-89.44	-566.68	5,700.95	464.49	295.81	168.67	2.754	
9,600.00	4,302.83	4,379.36	4,377.88	64.16	110.11	-89.85	-566.69	5,700.95	428.71	255.46	173.26	2.474	
9,700.00	4,305.69	4,382.30	4,380.82	65.26	110.18	-90.26	-566.71	5,700.95	414.51	239.13	175.38	2.363	
9,709.91	4,305.97	4,382.59	4,381.11	65.37	110.19	-90.30	-566.71	5,700.95	414.39	238.98	175.41	2.362 CC, ES, SF	
9,800.00	4,308.55	4,385.24	4,383.76	66.35	110.26	-90.66	-566.72	5,700.95	424.07	249.90	174.17	2.435	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC						Local Co-ordinate Reference:		Well 71H				
Project:	EDDY COUNTY, NM (NAD 83 - NME)						TVD Reference:		RKB = 20' @ 3634.00usft (AKITA 57)				
Reference Site:	SMITHDALE 29 FEDERAL						MD Reference:		RKB = 20' @ 3634.00usft (AKITA 57)				
Site Error:	0.00 usft						North Reference:		Grid				
Reference Well:	71H						Survey Calculation Method:		Minimum Curvature				
Well Error:	0.00 usft						Output errors are at		2.00 sigma				
Reference Wellbore	OH						Database:		EDM 5000.17 Single User Db				
Reference Design:	PERMIT						Offset TVD Reference:		Offset Datum				

Offset Design:SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 4 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft	
Survey Program:		190-INC-ONLY								Rule Assigned:			Offset Well Error:		0.00 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
9,850.70	4,310.00	4,386.72	4,385.25	66.91	110.29	-90.87	-566.73	5,700.95	437.64	265.21	172.42	2.538			

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 5 - Wellbore #1 - Wellbore #1														Offset Site Error:	0.00 usft
Survey Program: 288-INC-ONLY														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning		
							+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.00	0.00	84.00	84.00	0.00	1.42	108.33	-1,187.64	3,584.84	3,776.45						
100.00	100.00	184.00	184.00	0.29	3.11	108.33	-1,187.64	3,584.84	3,776.45	3,773.05	3.40	1,110.784			
200.00	200.00	284.00	284.00	0.65	4.80	108.33	-1,187.64	3,584.84	3,776.45	3,771.00	5.45	692.909			
300.00	300.00	384.00	384.00	1.00	6.56	108.33	-1,187.64	3,584.84	3,776.45	3,768.88	7.56	499.202			
400.00	399.98	483.51	483.51	1.35	8.31	-73.95	-1,187.53	3,584.84	3,775.93	3,766.27	9.66	390.991			
500.00	499.84	582.20	582.20	1.69	10.05	-74.05	-1,187.61	3,584.84	3,774.51	3,762.78	11.73	321.791			
600.00	599.45	683.45	683.45	2.04	11.83	-74.22	-1,187.64	3,584.84	3,772.13	3,758.27	13.86	272.217			
700.00	698.70	781.52	781.52	2.39	13.55	-74.46	-1,187.59	3,584.84	3,768.80	3,752.87	15.94	236.498			
800.00	797.47	881.47	881.47	2.74	15.32	-74.77	-1,187.64	3,584.84	3,764.62	3,746.56	18.06	208.412			
900.00	895.62	979.61	979.60	3.11	17.06	-75.15	-1,187.52	3,584.84	3,759.54	3,739.37	20.17	186.379			
1,000.00	993.06	1,075.98	1,075.98	3.49	18.77	-75.58	-1,187.56	3,584.84	3,753.73	3,731.48	22.26	168.659			
1,100.00	1,089.64	1,173.65	1,173.64	3.88	20.51	-76.08	-1,187.64	3,584.84	3,747.21	3,722.83	24.38	153.703			
1,200.00	1,185.27	1,269.11	1,269.10	4.28	22.21	-76.64	-1,187.45	3,584.84	3,739.97	3,713.48	26.48	141.220			
1,300.00	1,279.82	1,361.40	1,361.39	4.68	23.87	-77.24	-1,187.56	3,584.84	3,732.24	3,703.70	28.54	130.764			
1,400.00	1,373.80	1,457.81	1,457.80	5.10	25.58	-77.73	-1,187.64	3,584.84	3,724.41	3,693.74	30.67	121.428			
1,500.00	1,467.79	1,550.97	1,550.96	5.53	27.23	-78.21	-1,187.46	3,584.84	3,716.82	3,684.07	32.75	113.506			
1,600.00	1,561.77	1,645.79	1,645.77	5.95	28.92	-78.70	-1,187.64	3,584.84	3,709.61	3,674.76	34.85	106.438			
1,700.00	1,655.76	1,739.77	1,739.76	6.38	30.57	-79.19	-1,187.64	3,584.84	3,702.66	3,665.73	36.93	100.253			
1,800.00	1,749.74	1,832.75	1,832.73	6.82	32.20	-79.68	-1,187.60	3,584.84	3,696.00	3,657.00	39.00	94.771			
1,900.00	1,843.73	1,927.74	1,927.73	7.25	33.88	-80.17	-1,187.64	3,584.84	3,689.67	3,648.55	41.11	89.740			
2,000.00	1,937.71	2,021.37	2,021.36	7.69	35.55	-80.66	-1,187.55	3,584.84	3,683.61	3,640.39	43.21	85.243			
2,100.00	2,031.70	2,115.71	2,115.70	8.13	37.22	-81.16	-1,187.64	3,584.84	3,677.90	3,632.57	45.33	81.140			
2,200.00	2,125.68	2,209.70	2,209.68	8.57	38.94	-81.65	-1,187.64	3,584.84	3,672.47	3,624.99	47.49	77.336			
2,300.00	2,219.67	2,302.98	2,302.96	9.01	40.65	-82.15	-1,187.45	3,584.84	3,667.32	3,617.69	49.64	73.885			
2,400.00	2,313.65	2,397.68	2,397.65	9.45	42.38	-82.65	-1,187.64	3,584.84	3,662.56	3,610.75	51.81	70.691			
2,500.00	2,407.64	2,491.67	2,491.64	9.89	44.11	-83.15	-1,187.64	3,584.84	3,658.07	3,604.09	53.98	67.767			
2,600.00	2,501.62	2,583.97	2,583.94	10.33	45.80	-83.64	-1,187.35	3,584.84	3,653.85	3,597.73	56.12	65.109			
2,700.00	2,595.61	2,679.65	2,679.61	10.78	47.54	-84.15	-1,187.64	3,584.84	3,650.04	3,591.73	58.30	62.606			
2,800.00	2,689.59	2,773.63	2,773.59	11.22	49.21	-84.65	-1,187.64	3,584.84	3,646.49	3,586.08	60.42	60.357			
2,900.00	2,783.58	2,866.59	2,866.55	11.67	50.86	-85.15	-1,187.55	3,584.84	3,643.25	3,580.74	62.51	58.281			
3,000.00	2,877.56	2,961.61	2,961.56	12.11	52.56	-85.66	-1,187.64	3,584.84	3,640.36	3,575.70	64.66	56.302			
3,100.00	2,971.55	3,055.34	3,055.30	12.56	54.24	-86.16	-1,187.57	3,584.84	3,637.76	3,570.97	66.79	54.467			
3,200.00	3,065.53	3,149.58	3,149.53	13.00	55.93	-86.67	-1,187.64	3,584.84	3,635.49	3,566.56	68.93	52.742			
3,300.00	3,159.52	3,243.57	3,243.52	13.45	57.62	-87.17	-1,187.64	3,584.84	3,633.54	3,562.48	71.07	51.129			
3,400.00	3,253.50	3,337.55	3,337.50	13.89	59.31	-87.68	-1,187.64	3,584.84	3,631.91	3,558.71	73.20	49.615			
3,500.00	3,347.49	3,431.18	3,431.13	14.34	60.99	-88.19	-1,187.14	3,584.84	3,630.56	3,555.23	75.33	48.194			
3,600.00	3,441.72	3,525.04	3,524.99	14.78	62.68	-68.18	-1,187.35	3,584.84	3,624.05	3,546.59	77.46	46.786			
3,700.00	3,535.44	3,619.50	3,619.44	15.20	64.37	-47.70	-1,187.64	3,584.84	3,604.53	3,524.97	79.56	45.304			
3,800.00	3,626.82	3,710.88	3,710.82	15.58	65.97	-32.49	-1,187.64	3,584.84	3,572.22	3,490.67	81.54	43.808			
3,900.00	3,714.08	3,798.04	3,797.99	15.92	67.50	-21.88	-1,187.55	3,584.84	3,527.66	3,444.26	83.40	42.297			
4,000.00	3,795.54	3,879.39	3,879.33	16.21	68.92	-14.06	-1,187.63	3,584.84	3,471.66	3,386.55	85.11	40.790			
4,100.00	3,869.59	3,953.65	3,953.59	16.47	70.24	-7.56	-1,187.64	3,584.84	3,405.23	3,318.57	86.66	39.295			
4,200.00	3,934.81	4,018.85	4,018.79	16.69	71.40	-1.21	-1,187.54	3,584.84	3,329.62	3,241.63	87.99	37.841			
4,300.00	3,989.92	4,073.88	4,073.82	16.87	72.38	6.03	-1,187.57	3,584.84	3,246.30	3,157.21	89.09	36.439			
4,400.00	4,039.92	4,123.81	4,123.75	17.04	73.26	6.20	-1,187.62	3,584.84	3,159.82	3,069.77	90.05	35.089			
4,500.00	4,089.91	4,173.97	4,173.91	17.24	74.19	6.43	-1,187.64	3,584.84	3,073.34	2,982.29	91.05	33.753			
4,600.00	4,131.66	4,215.73	4,215.66	17.48	74.96	9.68	-1,187.64	3,584.84	2,982.76	2,890.86	91.91	32.455			
4,700.00	4,157.02	4,241.09	4,241.02	17.78	75.44	19.42	-1,187.64	3,584.84	2,886.33	2,793.92	92.41	31.233			
4,800.00	4,165.55	4,249.60	4,249.53	18.13	75.59	65.06	-1,187.47	3,584.84	2,786.97	2,694.40	92.57	30.105			
4,900.00	4,168.41	4,252.45	4,252.38	18.55	75.65	65.85	-1,187.47	3,584.84	2,687.21	2,594.59	92.62	29.014			
5,000.00	4,171.27	4,255.30	4,255.23	19.06	75.70	66.65	-1,187.47	3,584.84	2,587.46	2,494.80	92.66	27.924			
5,100.00	4,174.13	4,258.14	4,258.08	19.64	75.75	67.46	-1,187.48	3,584.84	2,487.73	2,395.03	92.70	26.836			

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 5 - Wellbore #1 - Wellbore #1													Offset Site Error:
Survey Program: 288-INC-ONLY													0.00 usft
Reference	Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning	Offset Well Error:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				0.00 usft	
5,200.00	4,176.99	4,260.99	4,260.93	20.28	75.81	68.28	-1,187.48	3,584.84	2,388.02	2,295.27	92.74	25.748	
5,300.00	4,179.85	4,263.84	4,263.78	20.97	75.86	69.10	-1,187.48	3,584.84	2,288.33	2,195.54	92.79	24.662	
5,400.00	4,182.71	4,266.69	4,266.63	21.70	75.91	69.94	-1,187.48	3,584.84	2,188.66	2,095.83	92.83	23.578	
5,500.00	4,185.57	4,269.54	4,269.48	22.47	75.96	70.79	-1,187.48	3,584.84	2,089.02	1,996.15	92.87	22.494	
5,600.00	4,188.43	4,272.39	4,272.32	23.28	76.02	71.64	-1,187.48	3,584.84	1,989.42	1,896.50	92.91	21.412	
5,700.00	4,191.29	4,275.23	4,275.17	24.11	76.07	72.50	-1,187.49	3,584.84	1,889.85	1,796.90	92.95	20.332	
5,800.00	4,194.15	4,278.08	4,278.02	24.97	76.12	73.38	-1,187.49	3,584.84	1,790.32	1,697.33	92.99	19.253	
5,900.00	4,197.01	4,280.93	4,280.87	25.85	76.18	74.25	-1,187.49	3,584.84	1,690.85	1,597.82	93.03	18.175	
6,000.00	4,199.87	4,283.78	4,283.71	26.75	76.23	75.14	-1,187.49	3,584.84	1,591.43	1,498.36	93.07	17.099	
6,100.00	4,202.73	4,286.62	4,286.56	27.66	76.28	76.03	-1,187.50	3,584.84	1,492.09	1,398.98	93.11	16.025	
6,200.00	4,205.59	4,289.47	4,289.41	28.60	76.34	76.94	-1,187.50	3,584.84	1,392.84	1,299.69	93.15	14.952	
6,300.00	4,208.45	4,292.31	4,292.25	29.54	76.39	77.84	-1,187.50	3,584.84	1,293.70	1,200.50	93.20	13.881	
6,400.00	4,211.31	4,295.16	4,295.10	30.50	76.44	78.76	-1,187.51	3,584.84	1,194.69	1,101.44	93.25	12.811	
6,500.00	4,214.17	4,298.01	4,297.94	31.47	76.49	79.67	-1,187.51	3,584.84	1,095.86	1,002.54	93.32	11.744	
6,600.00	4,217.03	4,300.85	4,300.79	32.45	76.55	80.60	-1,187.52	3,584.84	997.25	903.85	93.40	10.678	
6,700.00	4,219.89	4,303.70	4,303.63	33.44	76.60	81.53	-1,187.52	3,584.84	898.94	805.43	93.51	9.614	
6,800.00	4,222.75	4,306.54	4,306.48	34.44	76.65	82.46	-1,187.53	3,584.84	801.04	707.36	93.67	8.551	
6,900.00	4,225.61	4,309.39	4,309.32	35.45	76.71	83.40	-1,187.53	3,584.84	703.71	609.78	93.93	7.492	
7,000.00	4,228.47	4,312.23	4,312.17	36.46	76.76	84.34	-1,187.54	3,584.84	607.24	512.87	94.37	6.435	
7,100.00	4,231.33	4,315.07	4,315.01	37.48	76.81	85.28	-1,187.54	3,584.84	512.12	416.98	95.14	5.383	
7,200.00	4,234.19	4,317.92	4,317.85	38.51	76.87	86.23	-1,187.55	3,584.84	419.25	322.68	96.57	4.342	
7,300.00	4,237.05	4,320.76	4,320.70	39.54	76.92	87.18	-1,187.55	3,584.84	330.53	231.22	99.31	3.328	
7,400.00	4,239.91	4,323.60	4,323.54	40.58	76.97	88.13	-1,187.56	3,584.84	250.45	145.84	104.60	2.394	
7,500.00	4,242.77	4,326.45	4,326.38	41.62	77.02	89.08	-1,187.57	3,584.84	190.20	76.92	113.28	1.679	
7,582.84	4,245.14	4,328.80	4,328.74	42.48	77.07	89.87	-1,187.57	3,584.84	171.23	51.91	119.32	1.435 Level 3, CC, ES, SF	
7,600.00	4,245.63	4,329.29	4,329.23	42.66	77.08	90.03	-1,187.57	3,584.84	172.09	52.35	119.74	1.437 Level 3	
7,700.00	4,248.49	4,332.13	4,332.07	43.71	77.13	90.98	-1,187.58	3,584.84	207.45	90.87	116.58	1.779	
7,800.00	4,251.35	4,334.97	4,334.91	44.77	77.18	91.93	-1,187.59	3,584.84	276.48	165.58	110.90	2.493	
7,900.00	4,254.21	4,337.82	4,337.75	45.82	77.24	92.88	-1,187.59	3,584.84	360.32	253.49	106.83	3.373	
8,000.00	4,257.07	4,340.66	4,340.59	46.89	77.29	93.82	-1,187.60	3,584.84	450.78	346.55	104.23	4.325	
8,100.00	4,259.93	4,343.50	4,343.44	47.95	77.34	94.77	-1,187.61	3,584.84	544.57	442.03	102.55	5.311	
8,200.00	4,262.79	4,346.34	4,346.28	49.02	77.39	95.71	-1,187.62	3,584.84	640.23	538.82	101.41	6.313	
8,300.00	4,265.65	4,349.18	4,349.12	50.08	77.45	96.65	-1,187.63	3,584.84	737.04	636.41	100.63	7.325	
8,400.00	4,268.51	4,352.02	4,351.96	51.16	77.50	97.58	-1,187.63	3,584.84	834.59	734.52	100.06	8.341	
8,500.00	4,271.37	4,355.45	4,355.37	52.23	77.57	98.70	-1,187.64	3,584.84	932.64	832.98	99.67	9.358	
8,600.00	4,274.23	4,358.31	4,358.23	53.31	77.62	99.63	-1,187.64	3,584.84	1,031.07	931.69	99.37	10.376	
8,700.00	4,277.09	4,361.17	4,361.09	54.38	77.68	100.56	-1,187.64	3,584.84	1,129.76	1,030.60	99.15	11.394	
8,800.00	4,279.95	4,364.03	4,363.95	55.47	77.74	101.48	-1,187.64	3,584.84	1,228.65	1,129.66	98.99	12.412	
8,900.00	4,282.81	4,366.89	4,366.81	56.55	77.80	102.40	-1,187.64	3,584.84	1,327.71	1,228.83	98.88	13.428	
9,000.00	4,285.67	4,369.75	4,369.67	57.63	77.85	103.31	-1,187.64	3,584.84	1,426.89	1,328.09	98.80	14.443	
9,100.00	4,288.53	4,372.61	4,372.53	58.72	77.91	104.21	-1,187.64	3,584.84	1,526.18	1,427.43	98.75	15.456	
9,200.00	4,291.39	4,375.47	4,375.39	59.80	77.97	105.10	-1,187.64	3,584.84	1,625.54	1,526.83	98.72	16.467	
9,300.00	4,294.25	4,378.33	4,378.25	60.89	78.03	105.99	-1,187.64	3,584.84	1,724.98	1,626.27	98.70	17.476	
9,400.00	4,297.11	4,381.19	4,381.11	61.98	78.09	106.87	-1,187.64	3,584.84	1,824.47	1,725.76	98.71	18.484	
9,500.00	4,299.97	4,384.05	4,383.97	63.07	78.14	107.74	-1,187.64	3,584.84	1,924.01	1,825.28	98.72	19.489	
9,600.00	4,302.83	4,386.91	4,386.83	64.16	78.20	108.61	-1,187.64	3,584.84	2,023.59	1,924.84	98.75	20.492	
9,700.00	4,305.69	4,389.77	4,389.69	65.26	78.26	109.46	-1,187.64	3,584.84	2,123.21	2,024.42	98.79	21.493	
9,800.00	4,308.55	4,392.63	4,392.55	66.35	78.32	110.31	-1,187.64	3,584.84	2,222.86	2,124.02	98.83	22.491	
9,850.70	4,310.00	4,394.08	4,394.00	66.91	78.34	110.73	-1,187.64	3,584.84	2,273.38	2,174.52	98.86	22.996	

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

Anticollision Report

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Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 6 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 257-INC-ONLY													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	78.00	78.00	0.00	1.36	96.92	-515.94	4,250.93	4,282.13					
100.00	100.00	178.00	178.00	0.29	3.11	96.92	-515.94	4,250.93	4,282.13	4,278.73	3.40	1,260.360		
200.00	200.00	278.00	278.00	0.65	4.87	96.92	-515.94	4,250.93	4,282.13	4,276.61	5.51	777.014		
300.00	300.00	378.00	378.00	1.00	6.65	96.92	-515.94	4,250.93	4,282.13	4,274.47	7.65	559.614		
400.00	399.98	476.48	476.48	1.35	8.40	-85.35	-515.84	4,250.93	4,281.97	4,272.22	9.75	439.216		
500.00	499.84	577.84	577.84	1.69	10.19	-85.42	-515.94	4,250.93	4,281.56	4,269.69	11.87	360.757		
600.00	599.45	677.29	677.28	2.04	11.93	-85.56	-515.83	4,250.93	4,280.86	4,266.91	13.95	306.786		
700.00	698.70	776.01	776.00	2.39	13.65	-85.73	-515.92	4,250.93	4,279.94	4,263.90	16.03	266.917		
800.00	797.47	875.47	875.47	2.74	15.48	-85.96	-515.94	4,250.93	4,278.80	4,260.57	18.22	234.828		
900.00	895.62	973.36	973.35	3.11	17.29	-86.24	-515.85	4,250.93	4,277.46	4,257.07	20.40	209.704		
1,000.00	993.06	1,071.08	1,071.06	3.49	19.12	-86.56	-515.94	4,250.93	4,276.03	4,253.42	22.61	189.140		
1,100.00	1,089.64	1,167.66	1,167.64	3.88	21.09	-86.93	-515.94	4,250.93	4,274.50	4,249.53	24.97	171.180		
1,200.00	1,185.27	1,262.03	1,262.00	4.28	23.02	-87.33	-515.50	4,250.93	4,272.93	4,245.64	27.30	156.523		
1,300.00	1,279.82	1,357.89	1,357.82	4.68	25.01	-87.77	-515.94	4,250.93	4,271.50	4,241.81	29.70	143.845		
1,400.00	1,373.80	1,451.35	1,451.28	5.10	27.08	-88.21	-515.45	4,250.93	4,270.19	4,238.01	32.18	132.703		
1,500.00	1,467.79	1,545.91	1,545.79	5.53	29.18	-88.63	-515.94	4,250.93	4,269.23	4,234.52	34.70	123.015		
1,600.00	1,561.77	1,639.89	1,639.77	5.95	31.34	-89.07	-515.94	4,250.93	4,268.50	4,231.20	37.30	114.448		
1,700.00	1,655.76	1,732.41	1,732.27	6.38	33.47	-89.50	-515.44	4,250.93	4,268.02	4,228.16	39.86	107.083		
1,800.00	1,749.74	1,827.94	1,827.74	6.82	35.58	-89.93	-515.94	4,250.93	4,267.86	4,225.46	42.40	100.666		
1,816.87	1,765.60	1,843.79	1,843.60	6.89	35.91	-90.00	-515.94	4,250.93	4,267.85	4,225.05	42.80	99.714		
1,900.00	1,843.73	1,921.77	1,921.56	7.25	37.54	-90.37	-515.18	4,250.93	4,267.92	4,223.13	44.79	95.283		
2,000.00	1,937.71	2,014.89	2,014.68	7.69	39.49	-90.79	-515.70	4,250.93	4,268.31	4,221.13	47.17	90.479		
2,100.00	2,031.70	2,109.93	2,109.70	8.13	41.29	-91.22	-515.94	4,250.93	4,268.95	4,219.53	49.42	86.382		
2,200.00	2,125.68	2,203.86	2,203.63	8.57	43.03	-91.65	-515.68	4,250.93	4,269.86	4,218.26	51.59	82.760		
2,300.00	2,219.67	2,297.91	2,297.67	9.01	44.77	-92.08	-515.94	4,250.93	4,271.04	4,217.27	53.77	79.425		
2,400.00	2,313.65	2,391.90	2,391.65	9.45	46.55	-92.51	-515.94	4,250.93	4,272.50	4,216.50	56.00	76.300		
2,500.00	2,407.64	2,486.06	2,485.81	9.89	48.34	-92.94	-515.74	4,250.93	4,274.23	4,216.01	58.22	73.412		
2,600.00	2,501.62	2,579.88	2,579.62	10.33	50.11	-93.37	-515.94	4,250.93	4,276.23	4,215.79	60.44	70.749		
2,700.00	2,595.61	2,673.91	2,673.65	10.78	51.90	-93.81	-515.56	4,250.93	4,278.51	4,215.85	62.67	68.273		
2,800.00	2,689.59	2,768.69	2,768.43	11.22	53.70	-94.24	-515.81	4,250.93	4,281.05	4,216.14	64.91	65.957		
2,900.00	2,783.58	2,861.85	2,861.58	11.67	55.43	-94.66	-515.94	4,250.93	4,283.86	4,216.78	67.08	63.858		
3,000.00	2,877.56	2,955.93	2,955.66	12.11	57.17	-95.09	-515.60	4,250.93	4,286.96	4,217.70	69.27	61.889		
3,100.00	2,971.55	3,050.73	3,050.45	12.56	58.93	-95.52	-515.77	4,250.93	4,290.31	4,218.85	71.47	60.033		
3,200.00	3,065.53	3,143.82	3,143.53	13.00	60.61	-95.94	-515.94	4,250.93	4,293.92	4,220.34	73.59	58.353		
3,300.00	3,159.52	3,238.03	3,237.75	13.45	62.27	-96.37	-515.65	4,250.93	4,297.84	4,222.15	75.69	56.784		
3,400.00	3,253.50	3,333.35	3,333.06	13.89	63.95	-96.80	-515.88	4,250.93	4,301.98	4,224.17	77.81	55.289		
3,500.00	3,347.49	3,425.78	3,425.49	14.34	65.62	-97.22	-515.94	4,250.93	4,306.40	4,226.49	79.92	53.886		
3,600.00	3,441.72	3,520.01	3,519.72	14.78	67.32	-77.27	-515.94	4,250.93	4,305.38	4,223.32	82.06	52.467		
3,700.00	3,535.44	3,613.85	3,613.56	15.20	69.02	-57.04	-515.76	4,250.93	4,290.86	4,206.68	84.18	50.974		
3,800.00	3,626.82	3,705.55	3,705.26	15.58	70.68	-42.32	-515.82	4,250.93	4,262.99	4,176.76	86.23	49.440		
3,900.00	3,714.08	3,793.14	3,792.85	15.92	72.27	-32.49	-515.92	4,250.93	4,222.28	4,134.12	88.16	47.892		
4,000.00	3,795.54	3,873.84	3,873.54	16.21	73.79	-25.83	-515.94	4,250.93	4,169.48	4,079.49	89.99	46.331		
4,100.00	3,869.59	3,948.33	3,948.02	16.47	75.20	-21.07	-515.56	4,250.93	4,105.62	4,013.95	91.67	44.786		
4,200.00	3,934.81	4,015.36	4,015.05	16.69	76.48	-17.33	-515.72	4,250.93	4,031.76	3,938.60	93.16	43.278		
4,300.00	3,989.92	4,068.24	4,067.92	16.87	77.48	-14.02	-515.94	4,250.93	3,949.35	3,855.03	94.33	41.868		
4,400.00	4,039.92	4,118.24	4,117.92	17.04	78.40	-14.32	-515.94	4,250.93	3,863.43	3,768.05	95.38	40.506		
4,500.00	4,089.91	4,168.23	4,167.91	17.24	79.33	-14.76	-515.94	4,250.93	3,777.54	3,681.10	96.44	39.171		
4,600.00	4,131.66	4,210.52	4,210.20	17.48	80.12	-21.67	-515.66	4,250.93	3,687.64	3,590.29	97.35	37.879		
4,700.00	4,157.02	4,236.40	4,236.08	17.78	80.60	-39.25	-515.70	4,250.93	3,591.91	3,493.98	97.93	36.677		
4,800.00	4,165.55	4,245.10	4,244.78	18.13	80.76	-78.71	-515.72	4,250.93	3,493.33	3,395.16	98.17	35.584		
4,900.00	4,168.41	4,248.02	4,247.69	18.55	80.81	-79.04	-515.72	4,250.93	3,394.39	3,296.09	98.30	34.532		
5,000.00	4,171.27	4,250.93	4,250.61	19.06	80.87	-79.37	-515.73	4,250.93	3,295.50	3,197.08	98.43	33.482		

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 6 - Wellbore #1 - Wellbore #1													Offset Site Error:
Survey Program: 257-INC-ONLY													0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,174.13	4,253.85	4,253.52	19.64	80.92	-79.70	-515.74	4,250.93	3,196.69	3,098.12	98.56	32.432	
5,200.00	4,176.99	4,256.76	4,256.44	20.28	80.98	-80.03	-515.75	4,250.93	3,097.94	2,999.23	98.71	31.384	
5,300.00	4,179.85	4,259.67	4,259.35	20.97	81.03	-80.36	-515.75	4,250.93	2,999.28	2,900.41	98.86	30.337	
5,400.00	4,182.71	4,262.59	4,262.26	21.70	81.09	-80.69	-515.76	4,250.93	2,900.70	2,801.67	99.03	29.292	
5,500.00	4,185.57	4,265.50	4,265.17	22.47	81.14	-81.02	-515.77	4,250.93	2,802.23	2,703.02	99.20	28.247	
5,600.00	4,188.43	4,268.41	4,268.09	23.28	81.19	-81.36	-515.78	4,250.93	2,703.86	2,604.47	99.39	27.204	
5,700.00	4,191.29	4,271.32	4,271.00	24.11	81.25	-81.69	-515.79	4,250.93	2,605.61	2,506.02	99.59	26.163	
5,800.00	4,194.15	4,274.23	4,273.91	24.97	81.30	-82.02	-515.80	4,250.93	2,507.50	2,407.69	99.81	25.123	
5,900.00	4,197.01	4,277.14	4,276.82	25.85	81.36	-82.36	-515.81	4,250.93	2,409.54	2,309.50	100.04	24.085	
6,000.00	4,199.87	4,280.06	4,279.73	26.75	81.41	-82.69	-515.82	4,250.93	2,311.75	2,211.45	100.30	23.049	
6,100.00	4,202.73	4,282.97	4,282.64	27.66	81.46	-83.03	-515.83	4,250.93	2,214.16	2,113.58	100.58	22.014	
6,200.00	4,205.59	4,285.88	4,285.55	28.60	81.52	-83.36	-515.84	4,250.93	2,116.78	2,015.90	100.88	20.982	
6,300.00	4,208.45	4,288.79	4,288.46	29.54	81.57	-83.70	-515.85	4,250.93	2,019.66	1,918.44	101.22	19.953	
6,400.00	4,211.31	4,291.70	4,291.37	30.50	81.63	-84.04	-515.86	4,250.93	1,922.83	1,821.23	101.60	18.926	
6,500.00	4,214.17	4,294.60	4,294.28	31.47	81.68	-84.37	-515.87	4,250.93	1,826.33	1,724.32	102.02	17.902	
6,600.00	4,217.03	4,297.51	4,297.19	32.45	81.73	-84.71	-515.89	4,250.93	1,730.23	1,627.74	102.49	16.882	
6,700.00	4,219.89	4,300.42	4,300.10	33.44	81.79	-85.05	-515.90	4,250.93	1,634.59	1,531.57	103.02	15.866	
6,800.00	4,222.75	4,303.33	4,303.00	34.44	81.84	-85.39	-515.91	4,250.93	1,539.50	1,435.87	103.63	14.856	
6,900.00	4,225.61	4,306.24	4,305.91	35.45	81.90	-85.72	-515.92	4,250.93	1,445.07	1,340.74	104.33	13.851	
7,000.00	4,228.47	4,309.14	4,308.82	36.46	81.95	-86.06	-515.94	4,250.93	1,351.44	1,246.30	105.14	12.854	
7,100.00	4,231.33	4,312.05	4,311.73	37.48	82.00	-86.40	-515.95	4,250.93	1,258.77	1,152.70	106.08	11.867	
7,200.00	4,234.19	4,314.96	4,314.64	38.51	82.06	-86.74	-515.96	4,250.93	1,167.32	1,060.19	107.13	10.896	
7,300.00	4,237.05	4,317.87	4,317.55	39.54	82.12	-87.08	-515.97	4,250.93	1,077.38	968.95	108.33	9.936	
7,400.00	4,239.91	4,320.78	4,320.46	40.58	82.18	-87.42	-515.98	4,250.93	989.36	879.39	109.67	8.997	
7,500.00	4,242.77	4,323.69	4,323.37	41.62	82.24	-87.76	-515.99	4,250.93	903.83	792.03	111.11	8.084	
7,600.00	4,245.63	4,326.60	4,326.28	42.66	82.30	-88.10	-516.00	4,250.93	821.57	707.58	113.99	7.207	
7,700.00	4,248.49	4,329.51	4,329.19	43.71	82.36	-88.44	-516.01	4,250.93	743.65	627.08	116.57	6.380	
7,800.00	4,251.35	4,332.42	4,332.10	44.77	82.42	-88.78	-516.02	4,250.93	671.60	552.04	119.56	5.617	
7,900.00	4,254.21	4,335.33	4,335.01	45.82	82.48	-89.12	-516.03	4,250.93	607.50	484.59	122.90	4.943	
8,000.00	4,257.07	4,338.24	4,337.92	46.89	82.54	-89.46	-516.04	4,250.93	554.12	427.75	126.36	4.385	
8,100.00	4,259.93	4,341.15	4,340.83	47.95	82.60	-89.80	-516.05	4,250.93	514.81	385.34	129.47	3.976	
8,200.00	4,262.79	4,344.06	4,343.74	49.02	82.66	-90.14	-516.06	4,250.93	492.94	361.39	131.55	3.747	
8,260.28	4,264.51	4,346.87	4,346.55	49.66	82.72	-90.48	-516.07	4,250.93	489.24	357.21	132.04	3.705 CC, ES, SF	
8,300.00	4,265.65	4,349.78	4,349.46	50.08	82.78	-90.82	-516.08	4,250.93	490.85	358.85	132.00	3.718	
8,400.00	4,268.51	4,352.69	4,352.37	51.16	82.84	-91.16	-516.09	4,250.93	508.78	378.03	130.75	3.891	
8,500.00	4,271.37	4,355.60	4,355.28	52.23	82.90	-91.50	-516.10	4,250.93	544.77	416.51	128.26	4.247	
8,600.00	4,274.23	4,358.51	4,358.19	53.31	82.96	-91.84	-516.11	4,250.93	595.54	470.32	125.22	4.756	
8,700.00	4,277.09	4,361.42	4,361.10	54.38	83.02	-92.18	-516.12	4,250.93	657.68	535.53	122.15	5.384	
8,800.00	4,279.95	4,364.33	4,364.01	55.47	83.08	-92.52	-516.13	4,250.93	728.29	608.95	119.35	6.102	
8,900.00	4,282.81	4,367.24	4,366.92	56.55	83.14	-92.86	-516.14	4,250.93	805.15	688.23	116.91	6.887	
9,000.00	4,285.67	4,370.15	4,369.83	57.63	83.20	-93.20	-516.15	4,250.93	886.62	771.76	114.86	7.719	
9,100.00	4,288.53	4,373.06	4,372.74	58.72	83.26	-93.54	-516.16	4,250.93	971.55	858.40	113.15	8.587	
9,200.00	4,291.39	4,375.97	4,375.65	59.80	83.32	-93.88	-516.17	4,250.93	1,059.10	947.38	111.73	9.480	
9,300.00	4,294.25	4,378.88	4,378.56	60.89	83.38	-94.22	-516.18	4,250.93	1,148.69	1,038.14	110.55	10.391	
9,400.00	4,297.11	4,381.79	4,381.47	61.98	83.44	-94.56	-516.19	4,250.93	1,239.86	1,130.28	109.57	11.315	
9,500.00	4,299.97	4,384.70	4,384.38	63.07	83.50	-94.90	-516.20	4,250.93	1,332.29	1,223.52	108.77	12.249	
9,600.00	4,302.83	4,387.61	4,387.29	64.16	83.56	-95.24	-516.21	4,250.93	1,425.74	1,317.64	108.09	13.190	
9,700.00	4,305.69	4,390.52	4,390.20	65.26	83.62	-95.58	-516.22	4,250.93	1,520.01	1,412.48	107.54	14.135	
9,800.00	4,308.55	4,393.43	4,393.11	66.35	83.68	-95.92	-516.23	4,250.93	1,614.98	1,507.90	107.07	15.083	
9,850.70	4,310.00	4,396.34	4,396.02	66.91	83.74	-96.26	-516.24	4,250.93	1,663.34	1,556.47	106.87	15.565	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 7 - Wellbore #1 - Wellbore #1

Offset Site Error: 0.00 usft

Offset Well Error: 0.00 usft

Survey Program: 250-INC-ONLY		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	64.00	64.00	0.00	1.21	105.49	-1,176.30	4,243.48	4,403.50				
100.00	100.00	164.00	164.00	0.29	3.11	105.49	-1,176.30	4,243.48	4,403.50	4,400.10	3.40	1,295.996	
200.00	200.00	264.00	264.00	0.65	5.00	105.49	-1,176.30	4,243.48	4,403.50	4,397.85	5.65	779.709	
262.59	262.59	326.59	326.58	0.87	6.16	105.49	-1,176.10	4,243.48	4,403.44	4,396.41	7.03	625.997	
300.00	300.00	361.17	361.16	1.00	6.81	105.49	-1,176.14	4,243.48	4,403.46	4,395.65	7.81	563.774	
400.00	399.98	463.99	463.98	1.35	8.73	-76.78	-1,176.30	4,243.48	4,403.10	4,393.02	10.08	437.026	
500.00	499.84	562.15	562.14	1.69	10.57	-76.87	-1,176.11	4,243.48	4,401.85	4,389.60	12.26	359.180	
600.00	599.45	663.47	663.45	2.04	12.48	-77.02	-1,176.30	4,243.48	4,399.93	4,385.42	14.51	303.221	
700.00	698.70	762.61	762.58	2.39	14.36	-77.23	-1,175.91	4,243.48	4,397.09	4,380.34	16.75	262.562	
800.00	797.47	856.26	856.23	2.74	16.14	-77.48	-1,176.14	4,243.48	4,393.69	4,374.80	18.89	232.640	
900.00	895.62	959.66	959.62	3.11	18.17	-77.81	-1,176.30	4,243.48	4,389.57	4,368.29	21.28	206.283	
1,000.00	993.06	1,055.42	1,055.38	3.49	20.07	-78.18	-1,176.04	4,243.48	4,384.71	4,361.15	23.55	186.148	
1,100.00	1,089.64	1,153.71	1,153.64	3.88	22.04	-78.61	-1,176.30	4,243.48	4,379.39	4,353.48	25.92	168.987	
1,200.00	1,185.27	1,249.33	1,249.27	4.28	24.12	-79.08	-1,176.30	4,243.48	4,373.49	4,345.10	28.39	154.065	
1,300.00	1,279.82	1,336.72	1,336.65	4.68	26.01	-79.57	-1,176.10	4,243.48	4,367.09	4,336.40	30.69	142.289	
1,400.00	1,373.80	1,437.91	1,437.80	5.10	28.23	-80.02	-1,176.30	4,243.48	4,360.72	4,327.40	33.32	130.875	
1,500.00	1,467.79	1,529.99	1,529.87	5.53	30.24	-80.44	-1,175.57	4,243.48	4,354.40	4,318.64	35.76	121.773	
1,600.00	1,561.77	1,618.08	1,617.95	5.95	32.17	-80.82	-1,176.04	4,243.48	4,348.62	4,310.50	38.11	114.094	
1,700.00	1,655.76	1,719.92	1,719.76	6.38	34.33	-81.27	-1,176.30	4,243.48	4,343.03	4,302.32	40.70	106.697	
1,800.00	1,749.74	1,811.46	1,811.29	6.82	36.25	-81.69	-1,175.78	4,243.48	4,337.55	4,294.50	43.06	100.742	
1,900.00	1,843.73	1,907.92	1,907.73	7.25	38.29	-82.11	-1,176.30	4,243.48	4,332.54	4,287.01	45.53	95.168	
2,000.00	1,937.71	2,001.91	2,001.71	7.69	40.36	-82.53	-1,176.30	4,243.48	4,327.69	4,279.65	48.04	90.093	
2,100.00	2,031.70	2,092.83	2,092.63	8.13	42.37	-82.95	-1,175.96	4,243.48	4,323.05	4,272.57	50.48	85.638	
2,200.00	2,125.68	2,189.93	2,189.68	8.57	44.47	-83.38	-1,176.30	4,243.48	4,318.79	4,265.77	53.02	81.455	
2,300.00	2,219.67	2,283.50	2,283.24	9.01	46.43	-83.81	-1,175.53	4,243.48	4,314.61	4,259.19	55.43	77.842	
2,400.00	2,313.65	2,372.19	2,371.92	9.45	48.30	-84.21	-1,175.96	4,243.48	4,310.90	4,253.17	57.73	74.669	
2,500.00	2,407.64	2,471.92	2,471.64	9.89	50.36	-84.65	-1,176.30	4,243.48	4,307.43	4,247.19	60.24	71.509	
2,600.00	2,501.62	2,564.47	2,564.18	10.33	52.25	-85.07	-1,176.14	4,243.48	4,304.16	4,241.58	62.58	68.783	
2,700.00	2,595.61	2,659.92	2,659.61	10.78	54.26	-85.51	-1,176.30	4,243.48	4,301.20	4,236.17	65.03	66.141	
2,800.00	2,689.59	2,753.91	2,753.59	11.22	56.29	-85.93	-1,176.30	4,243.48	4,298.48	4,230.98	67.51	63.676	
2,900.00	2,783.58	2,845.18	2,844.85	11.67	58.26	-86.35	-1,175.74	4,243.48	4,295.98	4,226.06	69.92	61.440	
3,000.00	2,877.56	2,941.93	2,941.56	12.11	60.30	-86.79	-1,176.30	4,243.48	4,293.87	4,221.46	72.41	59.302	
3,100.00	2,971.55	3,035.29	3,034.92	12.56	62.16	-87.22	-1,175.93	4,243.48	4,291.93	4,217.22	74.71	57.447	
3,200.00	3,065.53	3,129.92	3,129.53	13.00	64.02	-87.64	-1,176.30	4,243.48	4,290.34	4,213.32	77.02	55.705	
3,300.00	3,159.52	3,223.90	3,223.52	13.45	65.73	-88.07	-1,176.30	4,243.48	4,288.98	4,209.80	79.18	54.167	
3,400.00	3,253.50	3,316.46	3,316.07	13.89	67.42	-88.50	-1,176.19	4,243.48	4,287.89	4,206.57	81.32	52.731	
3,500.00	3,347.49	3,411.88	3,411.49	14.34	69.37	-88.93	-1,176.30	4,243.48	4,287.08	4,203.36	83.71	51.210	
3,600.00	3,441.72	3,505.89	3,505.49	14.78	71.35	-89.37	-1,176.13	4,243.48	4,280.96	4,194.83	86.13	49.703	
3,700.00	3,535.44	3,599.87	3,599.44	15.20	73.37	-89.84	-1,176.30	4,243.48	4,261.78	4,173.21	88.56	48.121	
3,800.00	3,626.82	3,691.25	3,690.82	15.58	75.65	-90.31	-1,176.30	4,243.48	4,229.73	4,138.51	91.22	46.367	
3,900.00	3,714.08	3,777.57	3,777.12	15.92	77.80	-90.78	-1,175.65	4,243.48	4,185.35	4,091.64	93.71	44.663	
4,000.00	3,795.54	3,860.07	3,859.54	16.21	79.84	-91.25	-1,176.30	4,243.48	4,129.51	4,033.47	96.03	43.001	
4,100.00	3,869.59	3,934.12	3,933.59	16.47	81.62	-91.72	-1,176.30	4,243.48	4,063.16	3,965.13	98.04	41.445	
4,200.00	3,934.81	3,998.98	3,998.43	16.69	83.17	-92.19	-1,175.49	4,243.48	3,987.57	3,887.80	99.77	39.969	
4,300.00	3,989.92	4,053.49	4,052.94	16.87	84.47	-92.66	-1,175.84	4,243.48	3,904.24	3,803.05	101.20	38.580	
4,400.00	4,039.92	4,104.52	4,103.92	17.04	85.69	-93.13	-1,176.30	4,243.48	3,817.74	3,715.25	102.49	37.249	
4,500.00	4,089.91	4,154.52	4,153.91	17.24	86.86	-93.60	-1,176.30	4,243.48	3,731.22	3,627.48	103.74	35.966	
4,600.00	4,131.66	4,196.27	4,195.66	17.48	87.84	-94.07	-1,176.30	4,243.48	3,640.59	3,535.79	104.80	34.740	
4,700.00	4,157.02	4,221.61	4,221.00	17.78	88.43	-94.54	-1,175.62	4,243.48	3,544.08	3,438.65	105.43	33.616	
4,800.00	4,165.55	4,230.06	4,229.44	18.13	88.63	-94.99	-1,175.63	4,243.48	3,444.67	3,339.03	105.63	32.610	
4,900.00	4,168.41	4,232.89	4,232.28	18.55	88.69	-95.44	-1,175.63	4,243.48	3,344.83	3,239.14	105.69	31.646	
5,000.00	4,171.27	4,235.72	4,235.11	19.06	88.76	-95.89	-1,175.63	4,243.48	3,245.01	3,139.25	105.75	30.684	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 7 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 250-INC-ONLY		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	4,174.13	4,238.55	4,237.94	19.64	88.83	62.13	-1,175.64	4,243.48	3,145.19	3,039.38	105.82	29.723		
5,200.00	4,176.99	4,241.38	4,240.76	20.28	88.89	62.88	-1,175.64	4,243.48	3,045.38	2,939.51	105.88	28.763		
5,300.00	4,179.85	4,244.21	4,243.59	20.97	88.96	63.64	-1,175.65	4,243.48	2,945.59	2,839.65	105.94	27.805		
5,400.00	4,182.71	4,247.04	4,246.42	21.70	89.02	64.41	-1,175.65	4,243.48	2,845.80	2,739.80	106.00	26.847		
5,500.00	4,185.57	4,249.86	4,249.25	22.47	89.09	65.19	-1,175.66	4,243.48	2,746.03	2,639.97	106.06	25.891		
5,600.00	4,188.43	4,252.69	4,252.07	23.28	89.16	65.98	-1,175.67	4,243.48	2,646.27	2,540.15	106.12	24.936		
5,700.00	4,191.29	4,255.51	4,254.90	24.11	89.22	66.78	-1,175.68	4,243.48	2,546.53	2,440.34	106.19	23.982		
5,800.00	4,194.15	4,258.34	4,257.72	24.97	89.29	67.59	-1,175.69	4,243.48	2,446.80	2,340.55	106.25	23.029		
5,900.00	4,197.01	4,261.16	4,260.55	25.85	89.35	68.40	-1,175.70	4,243.48	2,347.09	2,240.78	106.31	22.078		
6,000.00	4,199.87	4,263.99	4,263.37	26.75	89.42	69.23	-1,175.71	4,243.48	2,247.41	2,141.04	106.37	21.128		
6,100.00	4,202.73	4,266.81	4,266.19	27.66	89.49	70.07	-1,175.72	4,243.48	2,147.75	2,041.32	106.43	20.179		
6,200.00	4,205.59	4,269.63	4,269.01	28.60	89.55	70.91	-1,175.73	4,243.48	2,048.12	1,941.63	106.50	19.232		
6,300.00	4,208.45	4,272.45	4,271.83	29.54	89.62	71.76	-1,175.74	4,243.48	1,948.53	1,841.97	106.56	18.286		
6,400.00	4,211.31	4,275.27	4,274.65	30.50	89.68	72.62	-1,175.75	4,243.48	1,848.98	1,742.35	106.62	17.342		
6,500.00	4,214.17	4,278.09	4,277.47	31.47	89.75	73.49	-1,175.77	4,243.48	1,749.47	1,642.78	106.69	16.398		
6,600.00	4,217.03	4,280.91	4,280.29	32.45	89.82	74.37	-1,175.78	4,243.48	1,650.01	1,543.26	106.75	15.457		
6,700.00	4,219.89	4,283.73	4,283.11	33.44	89.88	75.25	-1,175.80	4,243.48	1,550.62	1,443.80	106.82	14.516		
6,800.00	4,222.75	4,286.54	4,285.92	34.44	89.95	76.14	-1,175.81	4,243.48	1,451.31	1,344.42	106.89	13.577		
6,900.00	4,225.61	4,289.36	4,288.74	35.45	90.01	77.04	-1,175.83	4,243.48	1,352.10	1,245.13	106.97	12.640		
7,000.00	4,228.47	4,292.17	4,291.55	36.46	90.08	77.94	-1,175.85	4,243.48	1,253.00	1,145.94	107.06	11.703		
7,100.00	4,231.33	4,294.99	4,294.37	37.48	90.15	78.85	-1,175.86	4,243.48	1,154.06	1,046.89	107.17	10.769		
7,200.00	4,234.19	4,297.80	4,297.18	38.51	90.21	79.76	-1,175.88	4,243.48	1,055.30	948.00	107.30	9.835		
7,300.00	4,237.05	4,300.62	4,300.00	39.54	90.28	80.68	-1,175.90	4,243.48	956.79	849.32	107.47	8.903		
7,400.00	4,239.91	4,303.43	4,302.81	40.58	90.34	81.60	-1,175.92	4,243.48	858.62	750.91	107.71	7.972		
7,500.00	4,242.77	4,306.24	4,305.62	41.62	90.41	82.53	-1,175.94	4,243.48	760.92	652.87	108.05	7.042		
7,600.00	4,245.63	4,309.05	4,308.43	42.66	90.47	83.46	-1,175.96	4,243.48	663.88	555.30	108.58	6.114		
7,700.00	4,248.49	4,311.86	4,311.24	43.71	90.54	84.39	-1,175.98	4,243.48	567.87	458.43	109.44	5.189		
7,800.00	4,251.35	4,314.67	4,314.05	44.77	90.61	85.33	-1,176.01	4,243.48	473.49	362.59	110.90	4.270		
7,900.00	4,254.21	4,317.48	4,316.86	45.82	90.67	86.27	-1,176.03	4,243.48	381.96	268.46	113.50	3.365		
8,000.00	4,257.07	4,320.29	4,319.66	46.89	90.74	87.21	-1,176.05	4,243.48	295.93	177.67	118.26	2.502		
8,100.00	4,259.93	4,323.09	4,322.47	47.95	90.80	88.15	-1,176.08	4,243.48	221.91	95.23	126.67	1.752		
8,200.00	4,262.79	4,325.90	4,325.28	49.02	90.87	89.09	-1,176.10	4,243.48	175.77	38.28	137.49	1.278	Level 3	1.218 Level 2, CC, ES, SF 1.290 Level 3
8,241.81	4,263.99	4,327.07	4,326.45	49.46	90.90	89.48	-1,176.11	4,243.48	170.72	30.55	140.17	1.218		
8,300.00	4,265.65	4,328.70	4,328.08	50.08	90.93	90.03	-1,176.13	4,243.48	180.36	40.51	139.85	1.290		
8,400.00	4,268.51	4,331.51	4,330.89	51.16	91.00	90.97	-1,176.15	4,243.48	232.70	99.71	132.99	1.750		
8,500.00	4,271.37	4,334.31	4,333.69	52.23	91.07	91.91	-1,176.18	4,243.48	309.44	182.95	126.49	2.446		
8,600.00	4,274.23	4,337.12	4,336.49	53.31	91.13	92.85	-1,176.21	4,243.48	396.66	274.44	122.22	3.246		
8,700.00	4,277.09	4,339.92	4,339.29	54.38	91.20	93.78	-1,176.24	4,243.48	488.79	369.30	119.49	4.091		
8,800.00	4,279.95	4,342.72	4,342.09	55.47	91.26	94.72	-1,176.27	4,243.48	583.50	465.81	117.69	4.958		
8,900.00	4,282.81	4,347.48	4,346.81	56.55	91.38	96.28	-1,176.30	4,243.48	679.71	563.20	116.51	5.834		
9,000.00	4,285.67	4,350.34	4,349.67	57.63	91.45	97.23	-1,176.30	4,243.48	776.87	661.22	115.65	6.718		
9,100.00	4,288.53	4,353.20	4,352.53	58.72	91.52	98.17	-1,176.30	4,243.48	874.65	759.63	115.03	7.604		
9,200.00	4,291.39	4,356.06	4,355.39	59.80	91.59	99.11	-1,176.30	4,243.48	972.88	858.31	114.57	8.491		
9,300.00	4,294.25	4,358.92	4,358.25	60.89	91.66	100.04	-1,176.30	4,243.48	1,071.43	957.19	114.24	9.379		
9,400.00	4,297.11	4,361.78	4,361.11	61.98	91.73	100.96	-1,176.30	4,243.48	1,170.22	1,056.23	113.99	10.266		
9,500.00	4,299.97	4,364.64	4,363.97	63.07	91.80	101.88	-1,176.30	4,243.48	1,269.19	1,155.38	113.81	11.152		
9,600.00	4,302.83	4,367.50	4,366.83	64.16	91.87	102.80	-1,176.30	4,243.48	1,368.30	1,254.63	113.67	12.037		
9,700.00	4,305.69	4,370.36	4,369.69	65.26	91.94	103.71	-1,176.30	4,243.48	1,467.53	1,353.95	113.58	12.920		
9,800.00	4,308.55	4,373.22	4,372.55	66.35	92.01	104.61	-1,176.30	4,243.48	1,566.86	1,453.33	113.52	13.802		
9,850.70	4,310.00	4,374.67	4,374.00	66.91	92.05	105.06	-1,176.30	4,243.48	1,617.24	1,503.74	113.50	14.249		

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 8 - Wellbore #1 - Wellbore #1													Offset Site Error:
Survey Program: 428-INC-ONLY													0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	75.00	75.00	0.00	1.35	98.35	-527.10	3,590.59	3,629.07				
100.00	100.00	175.00	175.00	0.29	3.14	98.35	-527.10	3,590.59	3,629.07	3,625.64	3.43	1,057.723	
200.00	200.00	275.00	275.00	0.65	4.94	98.35	-527.10	3,590.59	3,629.07	3,623.49	5.59	649.662	
300.00	300.00	375.00	375.00	1.00	6.74	98.35	-527.10	3,590.59	3,629.07	3,621.33	7.74	468.803	
400.00	399.98	474.98	474.98	1.35	8.53	-83.92	-527.10	3,590.59	3,628.89	3,619.01	9.88	367.322	
500.00	499.84	574.31	574.30	1.69	10.32	-84.02	-526.95	3,590.59	3,628.32	3,616.32	12.00	302.360	
600.00	599.45	674.46	674.45	2.04	12.12	-84.17	-527.10	3,590.59	3,627.44	3,613.29	14.15	256.441	
700.00	698.70	773.21	773.20	2.39	13.89	-84.38	-526.97	3,590.59	3,626.19	3,609.92	16.27	222.830	
800.00	797.47	872.48	872.47	2.74	15.68	-84.66	-527.10	3,590.59	3,624.70	3,606.27	18.43	196.699	
900.00	895.62	970.50	970.49	3.11	17.47	-84.99	-526.92	3,590.59	3,622.92	3,602.34	20.58	176.006	
1,000.00	993.06	1,066.87	1,066.86	3.49	19.23	-85.37	-527.06	3,590.59	3,621.00	3,598.28	22.72	159.381	
1,100.00	1,089.64	1,164.66	1,164.64	3.88	20.99	-85.81	-527.10	3,590.59	3,618.94	3,594.07	24.87	145.525	
1,200.00	1,185.27	1,258.87	1,258.85	4.28	22.68	-86.28	-527.02	3,590.59	3,616.83	3,589.87	26.96	134.157	
1,300.00	1,279.82	1,354.84	1,354.82	4.68	24.45	-86.82	-527.10	3,590.59	3,614.77	3,585.63	29.14	124.066	
1,400.00	1,373.80	1,448.65	1,448.63	5.10	26.19	-87.33	-527.01	3,590.59	3,612.90	3,581.61	31.29	115.457	
1,500.00	1,467.79	1,542.82	1,542.79	5.53	27.96	-87.83	-527.10	3,590.59	3,611.38	3,577.89	33.49	107.845	
1,600.00	1,561.77	1,636.80	1,636.77	5.95	29.91	-88.34	-527.10	3,590.59	3,610.16	3,574.30	35.87	100.655	
1,700.00	1,655.76	1,729.46	1,729.42	6.38	31.84	-88.85	-526.95	3,590.59	3,609.27	3,571.04	38.22	94.429	
1,800.00	1,749.74	1,824.82	1,824.74	6.82	33.85	-89.36	-527.10	3,590.59	3,608.71	3,568.04	40.67	88.729	
1,900.00	1,843.73	1,918.80	1,918.73	7.25	35.85	-89.87	-527.10	3,590.59	3,608.47	3,565.36	43.10	83.718	
1,920.94	1,863.41	1,938.36	1,938.26	7.34	36.27	-89.99	-526.04	3,590.59	3,608.41	3,564.80	43.61	82.743	
2,000.00	1,937.71	2,012.12	2,012.02	7.69	37.83	-90.39	-526.30	3,590.59	3,608.52	3,563.00	45.52	79.270	
2,100.00	2,031.70	2,106.84	2,106.70	8.13	39.85	-90.89	-527.10	3,590.59	3,608.95	3,560.98	47.97	75.231	
2,200.00	2,125.68	2,200.82	2,200.67	8.57	41.83	-91.41	-526.72	3,590.59	3,609.67	3,559.28	50.39	71.628	
2,300.00	2,219.67	2,294.74	2,294.58	9.01	43.81	-91.91	-527.08	3,590.59	3,610.73	3,557.91	52.82	68.363	
2,400.00	2,313.65	2,388.84	2,388.65	9.45	45.89	-92.43	-526.62	3,590.59	3,612.10	3,556.77	55.33	65.277	
2,500.00	2,407.64	2,482.86	2,482.64	9.89	47.97	-92.93	-527.10	3,590.59	3,613.79	3,555.94	57.86	62.462	
2,600.00	2,501.62	2,576.85	2,576.62	10.33	50.06	-93.44	-527.10	3,590.59	3,615.81	3,555.42	60.39	59.875	
2,700.00	2,595.61	2,671.87	2,671.63	10.78	52.18	-93.95	-526.85	3,590.59	3,618.16	3,555.21	62.95	57.480	
2,800.00	2,689.59	2,764.87	2,764.59	11.22	54.19	-94.45	-527.10	3,590.59	3,620.81	3,555.41	65.40	55.363	
2,900.00	2,783.58	2,858.85	2,858.58	11.67	56.20	-94.96	-527.10	3,590.59	3,623.79	3,555.93	67.86	53.405	
3,000.00	2,877.56	2,953.47	2,953.18	12.11	58.23	-95.48	-526.08	3,590.59	3,627.15	3,556.83	70.32	51.579	
3,100.00	2,971.55	3,048.89	3,048.60	12.56	60.27	-95.99	-526.58	3,590.59	3,630.74	3,557.93	72.81	49.868	
3,200.00	3,065.53	3,140.88	3,140.53	13.00	62.14	-96.47	-527.10	3,590.59	3,634.64	3,559.53	75.11	48.390	
3,300.00	3,159.52	3,235.74	3,235.40	13.45	63.89	-96.98	-526.77	3,590.59	3,638.92	3,561.62	77.30	47.075	
3,400.00	3,253.50	3,328.86	3,328.50	13.89	65.57	-97.48	-527.10	3,590.59	3,643.45	3,564.03	79.43	45.870	
3,500.00	3,347.49	3,422.92	3,422.56	14.34	67.22	-97.98	-527.01	3,590.59	3,648.34	3,566.83	81.51	44.757	
3,600.00	3,441.72	3,517.74	3,517.38	14.78	68.88	-78.11	-527.10	3,590.59	3,647.80	3,564.19	83.61	43.631	
3,700.00	3,535.44	3,610.79	3,610.44	15.20	70.51	-57.98	-527.10	3,590.59	3,633.77	3,548.12	85.66	42.422	
3,800.00	3,626.82	3,703.20	3,702.84	15.58	72.13	-43.38	-526.87	3,590.59	3,606.46	3,518.79	87.67	41.138	
3,900.00	3,714.08	3,789.45	3,789.08	15.92	73.63	-33.70	-527.10	3,590.59	3,566.24	3,476.72	89.52	39.838	
4,000.00	3,795.54	3,870.90	3,870.54	16.21	74.99	-27.25	-527.10	3,590.59	3,513.94	3,422.75	91.19	38.535	
4,100.00	3,869.59	3,945.42	3,945.06	16.47	76.23	-22.76	-527.04	3,590.59	3,450.49	3,357.79	92.70	37.223	
4,200.00	3,934.81	4,010.17	4,009.81	16.69	77.32	-19.41	-527.10	3,590.59	3,377.04	3,283.03	94.01	35.924	
4,300.00	3,989.92	4,065.28	4,064.92	16.87	78.27	-16.71	-527.10	3,590.59	3,294.99	3,199.87	95.13	34.637	
4,400.00	4,039.92	4,115.35	4,114.99	17.04	79.13	-17.14	-527.01	3,590.59	3,209.39	3,113.27	96.12	33.389	
4,500.00	4,089.91	4,165.73	4,165.36	17.24	79.99	-17.74	-527.04	3,590.59	3,123.82	3,026.70	97.12	32.163	
4,600.00	4,131.66	4,207.80	4,207.43	17.48	80.72	-25.85	-527.08	3,590.59	3,034.24	2,936.25	97.99	30.966	
4,700.00	4,157.02	4,232.39	4,232.02	17.78	81.19	-45.01	-527.10	3,590.59	2,938.94	2,840.37	98.57	29.816	
4,800.00	4,165.55	4,240.92	4,240.55	18.13	81.36	-80.71	-527.10	3,590.59	2,840.85	2,742.01	98.83	28.743	
4,900.00	4,168.41	4,243.78	4,243.41	18.55	81.42	-81.03	-527.10	3,590.59	2,742.43	2,643.45	98.98	27.706	
5,000.00	4,171.27	4,246.64	4,246.27	19.06	81.48	-81.36	-527.10	3,590.59	2,644.14	2,545.00	99.14	26.671	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 8 - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 428-INC-ONLY		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	4,174.13	4,249.50	4,249.13	19.64	81.53	-81.69	-527.10	3,590.59	2,545.97	2,446.66	99.31	25.637	
5,200.00	4,176.99	4,252.36	4,251.99	20.28	81.59	-82.02	-527.10	3,590.59	2,447.95	2,348.46	99.49	24.605	
5,300.00	4,179.85	4,255.22	4,254.85	20.97	81.65	-82.34	-527.10	3,590.59	2,350.09	2,250.40	99.68	23.575	
5,400.00	4,182.71	4,258.08	4,257.71	21.70	81.71	-82.67	-527.10	3,590.59	2,252.41	2,152.52	99.90	22.547	
5,500.00	4,185.57	4,260.94	4,260.57	22.47	81.77	-83.00	-527.10	3,590.59	2,154.95	2,054.82	100.13	21.522	
5,600.00	4,188.43	4,263.80	4,263.43	23.28	81.82	-83.33	-527.10	3,590.59	2,057.72	1,957.34	100.38	20.499	
5,700.00	4,191.29	4,266.66	4,266.29	24.11	81.88	-83.66	-527.10	3,590.59	1,960.77	1,860.11	100.67	19.478	
5,800.00	4,194.15	4,269.52	4,269.15	24.97	81.94	-83.99	-527.10	3,590.59	1,864.14	1,763.16	100.98	18.461	
5,900.00	4,197.01	4,272.38	4,272.01	25.85	82.00	-84.33	-527.10	3,590.59	1,767.87	1,666.55	101.33	17.447	
6,000.00	4,199.87	4,275.24	4,274.87	26.75	82.06	-84.66	-527.10	3,590.59	1,672.04	1,570.32	101.72	16.437	
6,100.00	4,202.73	4,278.10	4,277.73	27.66	82.11	-84.99	-527.10	3,590.59	1,576.73	1,474.56	102.17	15.432	
6,200.00	4,205.59	4,280.96	4,280.59	28.60	82.17	-85.32	-527.10	3,590.59	1,482.02	1,379.34	102.69	14.433	
6,300.00	4,208.45	4,283.82	4,283.45	29.54	82.23	-85.66	-527.10	3,590.59	1,388.06	1,284.78	103.28	13.440	
6,400.00	4,211.31	4,286.68	4,286.31	30.50	82.29	-85.99	-527.10	3,590.59	1,294.98	1,191.02	103.97	12.456	
6,500.00	4,214.17	4,289.54	4,289.17	31.47	82.35	-86.32	-527.10	3,590.59	1,203.02	1,098.24	104.78	11.482	
6,600.00	4,217.03	4,292.40	4,292.03	32.45	82.40	-86.66	-527.10	3,590.59	1,112.44	1,006.70	105.73	10.521	
6,700.00	4,219.89	4,295.26	4,294.89	33.44	82.46	-86.99	-527.10	3,590.59	1,023.60	916.73	106.87	9.578	
6,800.00	4,222.75	4,298.12	4,297.75	34.44	82.52	-87.32	-527.10	3,590.59	937.00	828.78	108.23	8.658	
6,900.00	4,225.61	4,300.98	4,300.61	35.45	82.58	-87.66	-527.10	3,590.59	853.34	743.48	109.85	7.768	
7,000.00	4,228.47	4,303.84	4,303.47	36.46	82.64	-87.99	-527.10	3,590.59	773.55	661.75	111.80	6.919	
7,100.00	4,231.33	4,306.70	4,306.33	37.48	82.70	-88.33	-527.10	3,590.59	698.96	584.87	114.09	6.126	
7,200.00	4,234.19	4,309.56	4,309.19	38.51	82.75	-88.66	-527.10	3,590.59	631.43	514.72	116.71	5.410	
7,300.00	4,237.05	4,312.42	4,312.05	39.54	82.81	-89.00	-527.10	3,590.59	573.45	453.91	119.55	4.797	
7,400.00	4,239.91	4,315.28	4,314.91	40.58	82.87	-89.33	-527.10	3,590.59	528.18	405.89	122.29	4.319	
7,500.00	4,242.77	4,318.14	4,317.77	41.62	82.93	-89.67	-527.10	3,590.59	499.08	374.65	124.43	4.011	
7,599.58	4,245.62	4,320.99	4,320.62	42.66	82.99	-90.00	-527.10	3,590.59	489.05	363.65	125.41	3.900 CC	
7,600.00	4,245.63	4,321.00	4,320.63	42.66	82.99	-90.00	-527.10	3,590.59	489.05	363.64	125.41	3.900 ES, SF	
7,700.00	4,248.49	4,323.86	4,323.49	43.71	83.04	-90.34	-527.10	3,590.59	499.25	374.29	124.96	3.995	
7,800.00	4,251.35	4,326.72	4,326.35	44.77	83.10	-90.67	-527.10	3,590.59	528.50	405.20	123.30	4.286	
7,900.00	4,254.21	4,329.58	4,329.21	45.82	83.16	-91.01	-527.10	3,590.59	573.89	452.92	120.97	4.744	
8,000.00	4,257.07	4,332.44	4,332.07	46.89	83.22	-91.34	-527.10	3,590.59	631.96	513.48	118.48	5.334	
8,100.00	4,259.93	4,335.30	4,334.93	47.95	83.28	-91.68	-527.10	3,590.59	699.56	583.42	116.15	6.023	
8,200.00	4,262.79	4,338.16	4,337.79	49.02	83.33	-92.01	-527.10	3,590.59	774.20	660.10	114.10	6.785	
8,300.00	4,265.65	4,341.02	4,340.65	50.08	83.39	-92.34	-527.10	3,590.59	854.03	741.66	112.37	7.600	
8,400.00	4,268.51	4,343.88	4,343.51	51.16	83.45	-92.68	-527.10	3,590.59	937.72	826.79	110.93	8.453	
8,500.00	4,271.37	4,346.74	4,346.37	52.23	83.51	-93.01	-527.10	3,590.59	1,024.34	914.59	109.75	9.333	
8,600.00	4,274.23	4,349.60	4,349.23	53.31	83.57	-93.35	-527.10	3,590.59	1,113.19	1,004.41	108.78	10.233	
8,700.00	4,277.09	4,352.46	4,352.09	54.38	83.62	-93.68	-527.10	3,590.59	1,203.79	1,095.80	107.99	11.148	
8,800.00	4,279.95	4,355.32	4,354.95	55.47	83.68	-94.01	-527.10	3,590.59	1,295.76	1,188.43	107.34	12.072	
8,900.00	4,282.81	4,358.18	4,357.81	56.55	83.74	-94.35	-527.10	3,590.59	1,388.84	1,282.04	106.80	13.004	
9,000.00	4,285.67	4,361.04	4,360.67	57.63	83.80	-94.68	-527.10	3,590.59	1,482.82	1,376.45	106.37	13.941	
9,100.00	4,288.53	4,363.90	4,363.53	58.72	83.86	-95.01	-527.10	3,590.59	1,577.53	1,471.52	106.01	14.881	
9,200.00	4,291.39	4,366.76	4,366.39	59.80	83.92	-95.34	-527.10	3,590.59	1,672.85	1,567.13	105.72	15.824	
9,300.00	4,294.25	4,369.62	4,369.25	60.89	83.97	-95.68	-527.10	3,590.59	1,768.68	1,663.20	105.48	16.768	
9,400.00	4,297.11	4,372.48	4,372.11	61.98	84.03	-96.01	-527.10	3,590.59	1,864.95	1,759.66	105.29	17.713	
9,500.00	4,299.97	4,375.34	4,374.97	63.07	84.09	-96.34	-527.10	3,590.59	1,961.59	1,856.45	105.14	18.658	
9,600.00	4,302.83	4,378.20	4,377.83	64.16	84.15	-96.67	-527.10	3,590.59	2,058.54	1,953.52	105.02	19.602	
9,700.00	4,305.69	4,381.06	4,380.69	65.26	84.21	-97.00	-527.10	3,590.59	2,155.77	2,050.84	104.92	20.546	
9,800.00	4,308.55	4,383.92	4,383.55	66.35	84.26	-97.33	-527.10	3,590.59	2,253.23	2,148.38	104.85	21.489	
9,850.70	4,310.00	4,385.37	4,385.00	66.91	84.29	-97.50	-527.10	3,590.59	2,302.73	2,197.90	104.83	21.967	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 9 - Wellbore #1 - Wellbore #1													Offset Site Error:
Survey Program: 257-INC-ONLY													0.00 usft
Reference	Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning	Offset Well Error:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				0.00 usft	
0.00	0.00	65.00	65.00	0.00	1.27	87.88	133.29	3,598.03	3,600.50				
100.00	100.00	165.00	165.00	0.29	3.23	87.88	133.29	3,598.03	3,600.50	3,596.98	3.52	1,022.390	
200.00	200.00	265.01	265.00	0.65	5.20	87.88	133.29	3,598.03	3,600.50	3,594.65	5.85	615.694	
300.00	300.00	365.52	365.51	1.00	7.26	87.88	133.50	3,598.03	3,600.51	3,592.24	8.27	435.630	
306.26	306.26	371.88	371.86	1.03	7.39	-94.37	133.47	3,598.03	3,600.51	3,592.09	8.42	427.789	
400.00	399.98	465.14	465.11	1.35	9.30	-94.39	133.50	3,598.03	3,600.64	3,589.99	10.65	338.176	
500.00	499.84	564.88	564.84	1.69	11.32	-94.46	133.29	3,598.03	3,601.04	3,588.04	13.00	277.060	
600.00	599.45	665.20	665.15	2.04	13.31	-94.59	133.52	3,598.03	3,601.74	3,586.39	15.34	234.778	
700.00	698.70	763.76	763.70	2.39	15.24	-94.76	133.29	3,598.03	3,602.73	3,585.10	17.62	204.418	
800.00	797.47	862.81	862.75	2.74	17.16	-94.98	133.65	3,598.03	3,604.09	3,584.18	19.90	181.067	
900.00	895.62	960.70	960.62	3.11	19.06	-95.24	133.29	3,598.03	3,605.80	3,583.63	22.17	162.658	
1,000.00	993.06	1,058.13	1,058.06	3.49	20.90	-95.54	133.29	3,598.03	3,607.97	3,583.58	24.39	147.945	
1,100.00	1,089.64	1,155.33	1,155.25	3.88	22.73	-95.89	133.65	3,598.03	3,610.66	3,584.05	26.61	135.682	
1,200.00	1,185.27	1,250.36	1,250.27	4.28	24.53	-96.26	133.29	3,598.03	3,613.87	3,585.07	28.80	125.482	
1,300.00	1,279.82	1,345.06	1,344.96	4.68	26.27	-96.67	133.51	3,598.03	3,617.76	3,586.81	30.96	116.869	
1,400.00	1,373.80	1,438.90	1,438.80	5.10	28.00	-97.17	133.29	3,598.03	3,622.12	3,589.02	33.10	109.430	
1,500.00	1,467.79	1,532.89	1,532.79	5.53	29.69	-97.68	133.29	3,598.03	3,626.81	3,591.60	35.21	102.995	
1,600.00	1,561.77	1,628.38	1,628.28	5.95	31.41	-98.19	133.38	3,598.03	3,631.83	3,594.47	37.36	97.218	
1,700.00	1,655.76	1,720.86	1,720.76	6.38	33.15	-98.68	133.29	3,598.03	3,637.14	3,597.62	39.52	92.039	
1,800.00	1,749.74	1,815.29	1,815.18	6.82	34.94	-99.19	133.47	3,598.03	3,642.80	3,601.06	41.74	87.278	
1,900.00	1,843.73	1,908.85	1,908.73	7.25	36.72	-99.68	133.29	3,598.03	3,648.72	3,604.77	43.95	83.024	
2,000.00	1,937.71	2,002.84	2,002.71	7.69	38.59	-100.18	133.29	3,598.03	3,654.97	3,608.73	46.25	79.027	
2,100.00	2,031.70	2,099.31	2,099.18	8.13	40.51	-100.69	133.62	3,598.03	3,661.59	3,612.99	48.60	75.339	
2,200.00	2,125.68	2,190.83	2,190.68	8.57	42.30	-101.17	133.29	3,598.03	3,668.41	3,617.58	50.82	72.181	
2,300.00	2,219.67	2,285.01	2,284.86	9.01	44.08	-101.67	133.67	3,598.03	3,675.65	3,622.60	53.04	69.297	
2,400.00	2,313.65	2,382.28	2,382.13	9.45	45.93	-102.17	133.41	3,598.03	3,683.08	3,627.76	55.32	66.576	
2,500.00	2,407.64	2,472.80	2,472.64	9.89	47.55	-102.64	133.29	3,598.03	3,690.83	3,633.46	57.38	64.325	
2,600.00	2,501.62	2,567.76	2,567.60	10.33	49.23	-103.13	133.56	3,598.03	3,698.97	3,639.48	59.49	62.183	
2,700.00	2,595.61	2,660.77	2,660.61	10.78	50.87	-103.61	133.29	3,598.03	3,707.28	3,645.73	61.56	60.224	
2,800.00	2,689.59	2,754.76	2,754.59	11.22	52.45	-104.09	133.29	3,598.03	3,715.95	3,652.38	63.57	58.453	
2,900.00	2,783.58	2,849.70	2,849.54	11.67	54.05	-104.58	133.33	3,598.03	3,724.92	3,659.32	65.60	56.780	
3,000.00	2,877.56	2,942.73	2,942.56	12.11	55.62	-105.05	133.29	3,598.03	3,734.17	3,666.56	67.61	55.235	
3,100.00	2,971.55	3,037.32	3,037.15	12.56	57.22	-105.53	133.36	3,598.03	3,743.73	3,674.09	69.64	53.760	
3,200.00	3,065.53	3,130.70	3,130.53	13.00	58.81	-106.00	133.29	3,598.03	3,753.54	3,681.89	71.65	52.386	
3,300.00	3,159.52	3,224.87	3,224.70	13.45	60.41	-106.48	133.38	3,598.03	3,763.67	3,689.99	73.68	51.080	
3,400.00	3,253.50	3,320.25	3,320.08	13.89	62.03	-106.95	133.29	3,598.03	3,774.05	3,698.31	75.73	49.833	
3,500.00	3,347.49	3,412.66	3,412.49	14.34	63.68	-107.41	133.29	3,598.03	3,784.72	3,706.91	77.81	48.642	
3,600.00	3,441.72	3,507.69	3,507.52	14.78	65.37	-87.52	133.37	3,598.03	3,789.96	3,710.04	79.93	47.418	
3,700.00	3,535.44	3,600.61	3,600.44	15.20	67.07	-67.54	133.29	3,598.03	3,781.61	3,699.57	82.03	46.098	
3,800.00	3,626.82	3,691.99	3,691.82	15.58	68.82	-53.31	133.29	3,598.03	3,759.83	3,675.65	84.18	44.665	
3,900.00	3,714.08	3,782.73	3,782.55	15.92	70.55	-44.30	133.46	3,598.03	3,725.11	3,638.82	86.28	43.173	
4,000.00	3,795.54	3,860.73	3,860.54	16.21	72.05	-38.80	133.29	3,598.03	3,677.94	3,589.82	88.11	41.742	
4,100.00	3,869.59	3,934.78	3,934.59	16.47	73.47	-35.75	133.29	3,598.03	3,619.38	3,529.55	89.83	40.293	
4,200.00	3,934.81	4,003.20	4,003.00	16.69	74.78	-34.59	133.65	3,598.03	3,550.62	3,459.22	91.40	38.848	
4,300.00	3,989.92	4,062.16	4,061.96	16.87	75.91	-35.15	133.40	3,598.03	3,472.63	3,379.88	92.75	37.440	
4,400.00	4,039.92	4,105.13	4,104.92	17.04	76.70	-35.77	133.29	3,598.03	3,390.99	3,297.26	93.73	36.179	
4,500.00	4,089.91	4,155.12	4,154.91	17.24	77.59	-36.76	133.29	3,598.03	3,309.64	3,214.81	94.82	34.904	
4,600.00	4,131.66	4,196.87	4,196.66	17.48	78.33	-48.52	133.29	3,598.03	3,224.71	3,128.93	95.78	33.668	
4,700.00	4,157.02	4,222.93	4,222.72	17.78	78.80	-66.86	133.58	3,598.03	3,134.75	3,038.30	96.45	32.502	
4,800.00	4,165.55	4,231.84	4,231.63	18.13	78.96	-86.04	133.57	3,598.03	3,042.37	2,945.57	96.80	31.429	
4,900.00	4,168.41	4,234.83	4,234.62	18.55	79.01	-86.19	133.57	3,598.03	2,950.06	2,853.00	97.06	30.393	
5,000.00	4,171.27	4,237.82	4,237.61	19.06	79.06	-86.34	133.57	3,598.03	2,858.27	2,760.92	97.35	29.361	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 9 - Wellbore #1 - Wellbore #1													Offset Site Error:
Survey Program: 257-INC-ONLY													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
+N/-S (usft)	+E/-W (usft)												
5,100.00	4,174.13	4,240.81	4,240.60	19.64	79.12	-86.49	133.56	3,598.03	2,767.04	2,669.37	97.66	28.332	
5,200.00	4,176.99	4,243.80	4,243.59	20.28	79.17	-86.64	133.56	3,598.03	2,676.43	2,578.42	98.01	27.307	
5,300.00	4,179.85	4,246.78	4,246.57	20.97	79.22	-86.79	133.55	3,598.03	2,586.52	2,488.12	98.39	26.287	
5,400.00	4,182.71	4,249.77	4,249.56	21.70	79.28	-86.93	133.55	3,598.03	2,497.37	2,398.55	98.82	25.273	
5,500.00	4,185.57	4,252.76	4,252.55	22.47	79.33	-87.08	133.55	3,598.03	2,409.06	2,309.78	99.28	24.265	
5,600.00	4,188.43	4,255.74	4,255.53	23.28	79.38	-87.23	133.54	3,598.03	2,321.70	2,221.91	99.80	23.264	
5,700.00	4,191.29	4,258.73	4,258.52	24.11	79.44	-87.38	133.53	3,598.03	2,235.40	2,135.04	100.36	22.273	
5,800.00	4,194.15	4,261.71	4,261.50	24.97	79.49	-87.53	133.53	3,598.03	2,150.28	2,049.29	100.99	21.292	
5,900.00	4,197.01	4,264.70	4,264.49	25.85	79.54	-87.68	133.52	3,598.03	2,066.49	1,964.81	101.68	20.323	
6,000.00	4,199.87	4,267.68	4,267.47	26.75	79.60	-87.82	133.52	3,598.03	1,984.20	1,881.75	102.45	19.368	
6,100.00	4,202.73	4,270.67	4,270.46	27.66	79.65	-87.97	133.51	3,598.03	1,903.60	1,800.31	103.29	18.429	
6,200.00	4,205.59	4,273.65	4,273.44	28.60	79.70	-88.12	133.50	3,598.03	1,824.91	1,720.70	104.22	17.511	
6,300.00	4,208.45	4,276.63	4,276.42	29.54	79.76	-88.27	133.50	3,598.03	1,748.40	1,643.17	105.23	16.615	
6,400.00	4,211.31	4,279.62	4,279.41	30.50	79.81	-88.42	133.49	3,598.03	1,674.37	1,568.03	106.34	15.745	
6,500.00	4,214.17	4,282.60	4,282.39	31.47	79.86	-88.57	133.48	3,598.03	1,603.15	1,495.60	107.54	14.907	
6,600.00	4,217.03	4,285.58	4,285.37	32.45	79.92	-88.72	133.47	3,598.03	1,535.13	1,426.29	108.85	14.104	
6,700.00	4,219.89	4,288.56	4,288.35	33.44	79.97	-88.86	133.46	3,598.03	1,470.77	1,360.53	110.24	13.341	
6,800.00	4,222.75	4,291.55	4,291.33	34.44	80.02	-89.01	133.45	3,598.03	1,410.56	1,298.85	111.72	12.626	
6,900.00	4,225.61	4,294.53	4,294.31	35.45	80.08	-89.16	133.44	3,598.03	1,355.06	1,241.80	113.26	11.964	
7,000.00	4,228.47	4,297.51	4,297.30	36.46	80.13	-89.31	133.43	3,598.03	1,304.87	1,190.02	114.85	11.361	
7,100.00	4,231.33	4,300.49	4,300.28	37.48	80.18	-89.46	133.42	3,598.03	1,260.62	1,144.16	116.45	10.825	
7,200.00	4,234.19	4,303.47	4,303.26	38.51	80.24	-89.61	133.41	3,598.03	1,222.95	1,104.93	118.02	10.362	
7,300.00	4,237.05	4,306.45	4,306.24	39.54	80.29	-89.76	133.40	3,598.03	1,192.50	1,072.99	119.51	9.978	
7,400.00	4,239.91	4,309.43	4,309.21	40.58	80.34	-89.90	133.39	3,598.03	1,169.81	1,048.96	120.86	9.679	
7,500.00	4,242.77	4,312.41	4,312.19	41.62	80.39	-90.05	133.38	3,598.03	1,155.36	1,033.35	122.02	9.469	
7,600.00	4,245.63	4,315.38	4,315.17	42.66	80.45	-90.20	133.37	3,598.03	1,149.46	1,026.51	122.94	9.349	
7,618.13	4,246.15	4,315.92	4,315.71	42.85	80.46	-90.23	133.37	3,598.03	1,149.32	1,026.23	123.08	9.338 CC, ES	
7,700.00	4,248.49	4,318.36	4,318.15	43.71	80.50	-90.35	133.36	3,598.03	1,152.22	1,028.62	123.61	9.322 SF	
7,800.00	4,251.35	4,321.34	4,321.13	44.77	80.55	-90.50	133.35	3,598.03	1,163.60	1,039.61	124.00	9.384	
7,900.00	4,254.21	4,324.32	4,324.10	45.82	80.61	-90.65	133.33	3,598.03	1,183.35	1,059.22	124.12	9.534	
8,000.00	4,257.07	4,327.29	4,327.08	46.89	80.66	-90.79	133.32	3,598.03	1,211.04	1,087.04	124.00	9.766	
8,100.00	4,259.93	4,330.27	4,330.06	47.95	80.71	-90.94	133.31	3,598.03	1,246.17	1,122.49	123.68	10.076	
8,200.00	4,262.79	4,333.25	4,333.03	49.02	80.77	-91.09	133.29	3,598.03	1,288.10	1,164.91	123.19	10.456	
8,300.00	4,265.65	4,336.22	4,336.01	50.08	80.82	-91.24	133.28	3,598.03	1,336.22	1,213.64	122.58	10.901	
8,400.00	4,268.51	4,339.20	4,338.99	51.16	80.87	-91.39	133.27	3,598.03	1,389.87	1,267.98	121.88	11.403	
8,500.00	4,271.37	4,336.59	4,336.37	52.23	80.82	-91.26	133.29	3,598.03	1,448.45	1,327.43	121.03	11.968	
8,600.00	4,274.23	4,339.45	4,339.23	53.31	80.87	-91.40	133.29	3,598.03	1,511.38	1,391.13	120.25	12.568	
8,700.00	4,277.09	4,342.31	4,342.09	54.38	80.92	-91.54	133.29	3,598.03	1,578.13	1,458.65	119.48	13.208	
8,800.00	4,279.95	4,345.17	4,344.95	55.47	80.97	-91.68	133.29	3,598.03	1,648.25	1,529.53	118.72	13.883	
8,900.00	4,282.81	4,348.03	4,347.81	56.55	81.02	-91.83	133.29	3,598.03	1,721.31	1,603.33	117.99	14.589	
9,000.00	4,285.67	4,350.89	4,350.67	57.63	81.07	-91.97	133.29	3,598.03	1,796.97	1,679.69	117.28	15.322	
9,100.00	4,288.53	4,353.75	4,353.53	58.72	81.12	-92.11	133.29	3,598.03	1,874.90	1,758.29	116.62	16.078	
9,200.00	4,291.39	4,356.60	4,356.39	59.80	81.17	-92.25	133.29	3,598.03	1,954.84	1,838.85	115.99	16.854	
9,300.00	4,294.25	4,359.46	4,359.25	60.89	81.22	-92.40	133.29	3,598.03	2,036.55	1,921.15	115.40	17.647	
9,400.00	4,297.11	4,362.32	4,362.11	61.98	81.26	-92.54	133.29	3,598.03	2,119.83	2,004.97	114.85	18.457	
9,500.00	4,299.97	4,365.18	4,364.97	63.07	81.31	-92.68	133.29	3,598.03	2,204.49	2,090.14	114.34	19.279	
9,600.00	4,302.83	4,368.04	4,367.83	64.16	81.36	-92.82	133.29	3,598.03	2,290.38	2,176.51	113.87	20.114	
9,700.00	4,305.69	4,370.90	4,370.69	65.26	81.41	-92.96	133.29	3,598.03	2,377.38	2,263.94	113.43	20.958	
9,800.00	4,308.55	4,373.76	4,373.55	66.35	81.46	-93.11	133.29	3,598.03	2,465.35	2,352.32	113.03	21.812	
9,850.70	4,310.00	4,375.21	4,375.00	66.91	81.48	-93.18	133.29	3,598.03	2,510.30	2,397.46	112.84	22.247	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE12 - Wellbore #1 - Wellbore #1														Offset Site Error:	0.00 usft
Survey Program: 251-INC-ONLY														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning		
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.00	0.00	47.00	47.00	0.00	1.06	78.39	736.73	3,586.58	3,661.47						
100.00	100.00	147.00	147.00	0.29	3.32	78.39	736.73	3,586.58	3,661.47	3,657.85	3.61	1,014.088			
200.00	200.00	247.00	247.00	0.65	5.58	78.39	736.73	3,586.58	3,661.47	3,655.24	6.23	587.699			
300.00	300.00	347.02	347.00	1.00	8.99	78.39	736.73	3,586.58	3,661.47	3,651.47	9.99	366.493			
400.00	399.98	448.53	448.50	1.35	12.49	-103.88	737.66	3,586.58	3,662.07	3,648.24	13.83	264.728			
500.00	499.84	553.80	553.75	1.69	16.12	-103.93	737.06	3,586.58	3,663.22	3,645.42	17.80	205.801			
600.00	599.45	646.82	646.45	2.04	19.98	-104.01	736.73	3,586.58	3,665.25	3,643.25	22.00	166.578			
700.00	698.70	746.31	745.70	2.39	24.28	-104.14	736.73	3,586.58	3,668.24	3,641.58	26.66	137.584			
800.00	797.47	845.67	845.01	2.74	28.17	-104.33	738.58	3,586.58	3,672.52	3,641.61	30.91	118.808			
900.00	895.62	966.10	965.36	3.11	32.88	-104.56	736.84	3,586.58	3,677.05	3,641.05	35.99	102.163			
1,000.00	993.06	1,040.99	1,040.06	3.49	35.36	-104.70	736.73	3,586.58	3,682.76	3,643.92	38.84	94.807			
1,100.00	1,089.64	1,144.18	1,143.21	3.88	38.74	-104.99	737.92	3,586.58	3,689.88	3,647.27	42.61	86.603			
1,200.00	1,185.27	1,233.40	1,232.27	4.28	41.64	-105.21	736.73	3,586.58	3,697.53	3,651.63	45.91	80.543			
1,300.00	1,279.82	1,327.95	1,326.82	4.68	44.57	-105.50	736.73	3,586.58	3,706.62	3,657.38	49.23	75.285			
1,400.00	1,373.80	1,432.65	1,431.47	5.10	47.80	-106.05	737.46	3,586.58	3,716.63	3,663.75	52.88	70.282			
1,500.00	1,467.79	1,516.09	1,514.79	5.53	50.26	-106.46	736.73	3,586.58	3,726.53	3,670.78	55.75	66.840			
1,600.00	1,561.77	1,610.10	1,608.77	5.95	52.83	-106.95	737.90	3,586.58	3,737.23	3,678.50	58.74	63.626			
1,700.00	1,655.76	1,720.77	1,719.42	6.38	55.85	-107.49	737.02	3,586.58	3,747.70	3,685.52	62.18	60.271			
1,800.00	1,749.74	1,798.17	1,796.74	6.82	57.75	-107.88	736.73	3,586.58	3,758.53	3,694.03	64.50	58.268			
1,900.00	1,843.73	1,895.28	1,893.84	7.25	60.06	-108.37	737.47	3,586.58	3,769.98	3,702.74	67.24	56.069			
2,000.00	1,937.71	2,001.01	1,999.55	7.69	62.58	-108.88	736.64	3,586.58	3,781.26	3,711.08	70.18	53.880			
2,100.00	2,031.70	2,080.20	2,078.70	8.13	64.63	-109.27	736.73	3,586.58	3,793.03	3,720.38	72.65	52.210			
2,200.00	2,125.68	2,174.18	2,172.68	8.57	67.04	-109.73	736.73	3,586.58	3,805.08	3,729.59	75.49	50.407			
2,300.00	2,219.67	2,269.27	2,267.74	9.01	69.49	-110.21	738.29	3,586.58	3,817.90	3,739.55	78.35	48.726			
2,400.00	2,313.65	2,369.44	2,367.91	9.45	72.06	-110.69	737.97	3,586.58	3,830.39	3,749.04	81.35	47.084			
2,500.00	2,407.64	2,469.98	2,468.43	9.89	74.64	-111.17	737.16	3,586.58	3,842.98	3,758.62	84.36	45.556			
2,600.00	2,501.62	2,550.32	2,548.62	10.33	76.75	-111.54	736.73	3,586.58	3,855.90	3,769.02	86.88	44.380			
2,700.00	2,595.61	2,644.30	2,642.61	10.78	79.25	-111.99	736.73	3,586.58	3,869.26	3,779.45	89.81	43.083			
2,800.00	2,689.59	2,738.29	2,736.59	11.22	81.76	-112.43	736.73	3,586.58	3,882.87	3,790.14	92.74	41.870			
2,900.00	2,783.58	2,841.83	2,840.09	11.67	84.52	-112.94	738.19	3,586.58	3,897.29	3,801.37	95.92	40.632			
3,000.00	2,877.56	2,946.28	2,944.52	12.11	87.30	-113.41	737.15	3,586.58	3,911.06	3,811.94	99.12	39.457			
3,100.00	2,971.55	3,020.44	3,018.55	12.56	89.20	-113.75	736.73	3,586.58	3,925.21	3,823.76	101.44	38.695			
3,200.00	3,065.53	3,114.43	3,112.53	13.00	91.55	-114.18	736.73	3,586.58	3,939.81	3,835.60	104.21	37.808			
3,300.00	3,159.52	3,208.41	3,206.52	13.45	93.89	-114.61	736.73	3,586.58	3,954.65	3,847.68	106.97	36.970			
3,400.00	3,253.50	3,309.14	3,307.21	13.89	96.41	-115.08	738.34	3,586.58	3,970.40	3,860.50	109.90	36.127			
3,500.00	3,347.49	3,412.56	3,410.62	14.34	98.99	-115.54	737.63	3,586.58	3,985.46	3,872.55	112.90	35.300			
3,600.00	3,441.72	3,490.79	3,488.72	14.78	100.94	-95.40	736.73	3,586.58	3,995.00	3,879.75	115.26	34.661			
3,700.00	3,535.44	3,584.51	3,582.44	15.20	102.89	-75.42	736.73	3,586.58	3,991.65	3,874.03	117.62	33.937			
3,800.00	3,626.82	3,675.89	3,673.82	15.58	104.79	-61.35	736.73	3,586.58	3,975.06	3,855.14	119.92	33.149			
3,900.00	3,714.08	3,767.14	3,765.05	15.92	106.69	-52.67	738.12	3,586.58	3,946.23	3,824.05	122.19	32.296			
4,000.00	3,795.54	3,857.03	3,854.93	16.21	108.55	-47.77	737.71	3,586.58	3,904.40	3,779.99	124.41	31.384			
4,100.00	3,869.59	3,938.86	3,936.75	16.47	110.26	-45.53	736.97	3,586.58	3,851.03	3,724.60	126.43	30.460			
4,200.00	3,934.81	3,983.96	3,981.81	16.69	111.32	-45.15	736.73	3,586.58	3,787.47	3,659.69	127.78	29.641			
4,300.00	3,989.92	4,039.07	4,036.92	16.87	112.75	-46.94	736.73	3,586.58	3,714.98	3,585.51	129.47	28.695			
4,400.00	4,039.92	4,089.07	4,086.92	17.04	114.04	-47.71	736.73	3,586.58	3,638.85	3,507.85	130.99	27.779			
4,500.00	4,089.91	4,139.06	4,136.91	17.24	115.34	-48.74	736.73	3,586.58	3,563.19	3,430.65	132.54	26.883			
4,600.00	4,131.66	4,180.81	4,178.66	17.48	116.42	-59.91	736.73	3,586.58	3,484.49	3,350.59	133.90	26.023			
4,700.00	4,157.02	4,206.18	4,204.02	17.78	117.07	-74.33	736.73	3,586.58	3,401.35	3,266.52	134.83	25.227			
4,800.00	4,165.55	4,214.70	4,212.55	18.13	117.29	-87.37	736.73	3,586.58	3,316.45	3,181.12	135.33	24.506			
4,900.00	4,168.41	4,217.56	4,215.41	18.55	117.37	-87.46	736.73	3,586.58	3,232.02	3,096.32	135.71	23.816			
5,000.00	4,171.27	4,220.42	4,218.27	19.06	117.44	-87.56	736.73	3,586.58	3,148.50	3,012.39	136.12	23.131			
5,100.00	4,174.13	4,223.28	4,221.13	19.64	117.52	-87.65	736.73	3,586.58	3,065.97	2,929.40	136.57	22.450			

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE12 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 251-INC-ONLY													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)						
5,200.00	4,176.99	4,226.14	4,223.99	20.28	117.59	-87.74	736.73	3,586.58	2,984.51	2,847.44	137.06	21.775		
5,300.00	4,179.85	4,229.00	4,226.85	20.97	117.66	-87.84	736.73	3,586.58	2,904.19	2,766.60	137.60	21.106		
5,400.00	4,182.71	4,231.86	4,229.71	21.70	117.74	-87.93	736.73	3,586.58	2,825.14	2,686.95	138.18	20.445		
5,500.00	4,185.57	4,234.72	4,232.57	22.47	117.81	-88.02	736.73	3,586.58	2,747.44	2,608.62	138.82	19.791		
5,600.00	4,188.43	4,237.65	4,235.50	23.28	117.89	-88.12	737.58	3,586.58	2,671.79	2,532.28	139.51	19.151		
5,700.00	4,191.29	4,240.63	4,238.47	24.11	117.96	-88.22	737.58	3,586.58	2,597.21	2,456.95	140.26	18.517		
5,800.00	4,194.15	4,243.61	4,241.45	24.97	118.04	-88.31	737.58	3,586.58	2,524.38	2,383.31	141.06	17.895		
5,900.00	4,197.01	4,246.58	4,244.43	25.85	118.12	-88.41	737.57	3,586.58	2,453.46	2,311.53	141.93	17.287		
6,000.00	4,199.87	4,249.56	4,247.40	26.75	118.20	-88.51	737.57	3,586.58	2,384.62	2,241.77	142.85	16.693		
6,100.00	4,202.73	4,252.54	4,250.38	27.66	118.27	-88.60	737.57	3,586.58	2,318.05	2,174.21	143.84	16.116		
6,200.00	4,205.59	4,255.51	4,253.36	28.60	118.35	-88.70	737.57	3,586.58	2,253.94	2,109.06	144.88	15.557		
6,300.00	4,208.45	4,258.49	4,256.33	29.54	118.43	-88.80	737.57	3,586.58	2,192.52	2,046.54	145.98	15.019		
6,400.00	4,211.31	4,261.46	4,259.31	30.50	118.50	-88.90	737.57	3,586.58	2,134.02	1,986.88	147.14	14.503		
6,500.00	4,214.17	4,264.44	4,262.28	31.47	118.58	-88.99	737.57	3,586.58	2,078.68	1,930.33	148.35	14.012		
6,600.00	4,217.03	4,267.42	4,265.26	32.45	118.66	-89.09	737.56	3,586.58	2,026.76	1,877.15	149.61	13.547		
6,700.00	4,219.89	4,270.39	4,268.23	33.44	118.73	-89.19	737.56	3,586.58	1,978.53	1,827.63	150.90	13.112		
6,800.00	4,222.75	4,273.37	4,271.21	34.44	118.81	-89.28	737.56	3,586.58	1,934.27	1,782.06	152.22	12.707		
6,900.00	4,225.61	4,276.34	4,274.18	35.45	118.89	-89.38	737.56	3,586.58	1,894.26	1,740.71	153.55	12.337		
7,000.00	4,228.47	4,279.31	4,277.16	36.46	118.97	-89.48	737.55	3,586.58	1,858.76	1,703.88	154.88	12.002		
7,100.00	4,231.33	4,282.29	4,280.13	37.48	119.04	-89.58	737.55	3,586.58	1,828.05	1,671.86	156.19	11.704		
7,200.00	4,234.19	4,285.26	4,283.11	38.51	119.12	-89.67	737.55	3,586.58	1,802.36	1,644.89	157.47	11.446		
7,300.00	4,237.05	4,288.24	4,286.08	39.54	119.20	-89.77	737.55	3,586.58	1,781.92	1,623.22	158.69	11.229		
7,400.00	4,239.91	4,291.21	4,289.05	40.58	119.27	-89.87	737.54	3,586.58	1,766.90	1,607.05	159.85	11.053		
7,500.00	4,242.77	4,294.18	4,292.03	41.62	119.35	-89.96	737.54	3,586.58	1,757.45	1,596.53	160.92	10.921		
7,600.00	4,245.63	4,297.16	4,295.00	42.66	119.43	-90.06	737.53	3,586.58	1,753.66	1,591.77	161.89	10.832		
7,616.66	4,246.11	4,297.65	4,295.49	42.84	119.44	-90.08	737.53	3,586.58	1,753.58	1,591.53	162.05	10.822 CC, ES		
7,700.00	4,248.49	4,300.13	4,297.97	43.71	119.50	-90.16	737.53	3,586.58	1,755.56	1,592.80	162.75	10.787		
7,800.00	4,251.35	4,303.10	4,300.94	44.77	119.58	-90.26	737.53	3,586.58	1,763.13	1,599.64	163.49	10.784 SF		
7,900.00	4,254.21	4,306.07	4,303.92	45.82	119.66	-90.35	737.52	3,586.58	1,776.31	1,612.19	164.11	10.824		
8,000.00	4,257.07	4,309.05	4,306.89	46.89	119.73	-90.45	737.52	3,586.58	1,794.96	1,630.35	164.60	10.905		
8,100.00	4,259.93	4,312.02	4,309.86	47.95	119.81	-90.55	737.51	3,586.58	1,818.92	1,653.94	164.98	11.025		
8,200.00	4,262.79	4,314.99	4,312.83	49.02	119.89	-90.64	737.51	3,586.58	1,847.98	1,682.75	165.23	11.184		
8,300.00	4,265.65	4,317.96	4,315.80	50.08	119.97	-90.74	737.50	3,586.58	1,881.92	1,716.53	165.39	11.379		
8,400.00	4,268.51	4,320.93	4,318.78	51.16	120.04	-90.84	737.50	3,586.58	1,920.46	1,755.01	165.44	11.608		
8,500.00	4,271.37	4,323.90	4,321.75	52.23	120.12	-90.94	737.49	3,586.58	1,963.33	1,797.91	165.42	11.869		
8,600.00	4,274.23	4,326.88	4,324.72	53.31	120.20	-91.03	737.48	3,586.58	2,010.27	1,844.95	165.32	12.160		
8,700.00	4,277.09	4,329.85	4,327.69	54.38	120.27	-91.13	737.48	3,586.58	2,060.99	1,895.83	165.16	12.479		
8,800.00	4,279.95	4,332.82	4,330.66	55.47	120.35	-91.23	737.47	3,586.58	2,115.22	1,950.27	164.96	12.823		
8,900.00	4,282.81	4,335.79	4,333.63	56.55	120.43	-91.32	737.47	3,586.58	2,172.70	2,007.99	164.71	13.191		
9,000.00	4,285.67	4,338.76	4,336.60	57.63	120.50	-91.42	737.46	3,586.58	2,233.17	2,068.74	164.43	13.581		
9,100.00	4,288.53	4,341.73	4,339.57	58.72	120.58	-91.52	737.45	3,586.58	2,296.41	2,132.28	164.13	13.991		
9,200.00	4,291.39	4,344.70	4,342.54	59.80	120.66	-91.61	737.45	3,586.58	2,362.18	2,198.37	163.81	14.420		
9,300.00	4,294.25	4,347.67	4,345.51	60.89	120.73	-91.71	737.44	3,586.58	2,430.29	2,266.80	163.49	14.865		
9,400.00	4,297.11	4,350.63	4,348.48	61.98	120.81	-91.81	737.43	3,586.58	2,500.53	2,337.38	163.16	15.326		
9,500.00	4,299.97	4,353.60	4,351.44	63.07	120.89	-91.90	737.42	3,586.58	2,572.75	2,409.92	162.82	15.801		
9,600.00	4,302.83	4,356.57	4,354.41	64.16	120.96	-92.00	737.42	3,586.58	2,646.76	2,484.27	162.49	16.288		
9,700.00	4,305.69	4,359.54	4,357.38	65.26	121.04	-92.10	737.41	3,586.58	2,722.44	2,560.27	162.17	16.788		
9,800.00	4,308.55	4,362.51	4,360.35	66.35	121.12	-92.20	737.40	3,586.58	2,799.64	2,637.79	161.85	17.298		
9,850.70	4,310.00	4,364.01	4,361.85	66.91	121.16	-92.24	737.39	3,586.58	2,839.32	2,677.63	161.69	17.560		

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design:SMITHDALE 29 FEDERAL - OFFSET: STALEY STATE 21 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft		
Survey Program:	253-INC-ONLY		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning	Offset Well Error:	0.00 usft
Reference	Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset		+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	0.00	78.86	74.77	379.62	386.96						
100.00	100.00	94.00	94.00	94.00	0.29	1.73	78.86	74.77	379.62	386.91	384.89	2.02	191.648			
200.00	200.00	194.00	194.00	194.00	0.65	3.57	78.86	74.77	379.62	386.91	382.69	4.22	91.686			
300.00	300.00	294.01	294.00	294.00	1.00	5.50	78.86	74.77	379.62	386.91	380.41	6.51	59.451 CC			
400.00	399.98	394.27	394.26	394.26	1.35	7.56	-103.65	74.94	379.62	387.36	378.45	8.91	43.475			
500.00	499.84	493.87	493.84	493.84	1.69	9.71	-104.35	74.77	379.62	388.59	377.19	11.40	34.098			
600.00	599.45	593.84	593.81	593.81	2.04	11.93	-105.61	75.24	379.62	390.95	376.99	13.96	28.008 ES			
700.00	698.70	692.78	692.70	692.70	2.39	14.14	-107.17	74.77	379.62	394.30	377.78	16.52	23.869			
800.00	797.47	791.54	791.47	791.47	2.74	16.37	-109.20	74.77	379.62	399.24	380.12	19.12	20.885			
900.00	895.62	890.58	890.49	890.49	3.11	18.62	-111.66	75.26	379.62	406.16	384.44	21.73	18.696			
1,000.00	993.06	987.19	987.06	987.06	3.49	20.75	-114.24	74.77	379.62	414.95	390.72	24.23	17.123			
1,100.00	1,089.64	1,083.78	1,083.64	1,083.64	3.88	22.81	-117.12	74.77	379.62	426.49	399.83	26.67	15.993			
1,200.00	1,185.27	1,179.41	1,179.27	1,179.27	4.28	24.84	-120.14	74.77	379.62	440.99	411.91	29.08	15.163			
1,300.00	1,279.82	1,274.94	1,274.78	1,274.78	4.68	26.87	-123.37	75.85	379.62	459.38	427.88	31.50	14.583			
1,400.00	1,373.80	1,370.27	1,370.11	1,370.11	5.10	28.90	-126.64	75.28	379.62	479.45	445.55	33.91	14.141			
1,500.00	1,467.79	1,462.00	1,461.79	1,461.79	5.53	30.79	-129.54	74.77	379.62	501.00	464.84	36.17	13.852			
1,600.00	1,561.77	1,555.98	1,555.77	1,555.77	5.95	32.63	-132.33	74.77	379.62	524.18	485.80	38.38	13.659			
1,700.00	1,655.76	1,649.97	1,649.76	1,649.76	6.38	34.47	-134.89	74.77	379.62	548.50	507.92	40.58	13.517			
1,800.00	1,749.74	1,744.98	1,744.76	1,744.76	6.82	36.33	-137.32	75.50	379.62	574.35	531.55	42.80	13.419			
1,900.00	1,843.73	1,840.33	1,840.10	1,840.10	7.25	38.20	-139.48	75.13	379.62	600.30	555.28	45.03	13.332			
2,000.00	1,937.71	1,931.96	1,931.71	1,931.71	7.69	39.95	-141.39	74.77	379.62	626.99	579.86	47.13	13.302			
2,100.00	2,031.70	2,025.95	2,025.70	2,025.70	8.13	41.68	-143.21	74.77	379.62	654.63	605.42	49.21	13.302			
2,200.00	2,125.68	2,119.93	2,119.68	2,119.68	8.57	43.40	-144.90	74.77	379.62	682.86	631.57	51.29	13.314			
2,300.00	2,219.67	2,214.52	2,214.27	2,214.27	9.01	45.14	-146.50	75.57	379.62	712.27	658.90	53.38	13.345			
2,400.00	2,313.65	2,309.90	2,309.64	2,309.64	9.45	46.89	-147.94	75.37	379.62	741.33	685.85	55.48	13.363			
2,500.00	2,407.64	2,405.43	2,405.17	2,405.17	9.89	48.65	-149.27	74.96	379.62	770.61	713.02	57.58	13.383			
2,600.00	2,501.62	2,495.90	2,495.62	2,495.62	10.33	50.23	-150.45	74.77	379.62	800.41	740.91	59.51	13.450			
2,700.00	2,595.61	2,589.88	2,589.61	2,589.61	10.78	51.83	-151.59	74.77	379.62	830.71	769.26	61.45	13.518			
2,800.00	2,689.59	2,683.87	2,683.59	2,683.59	11.22	53.43	-152.66	74.77	379.62	861.30	797.90	63.40	13.585			
2,900.00	2,783.58	2,778.80	2,778.52	2,778.52	11.67	55.04	-153.68	75.16	379.62	892.50	827.14	65.36	13.654			
3,000.00	2,877.56	2,873.91	2,873.63	2,873.63	12.11	56.66	-154.61	74.99	379.62	923.43	856.10	67.33	13.715			
3,100.00	2,971.55	2,965.83	2,965.55	2,965.55	12.56	58.26	-155.46	74.77	379.62	954.53	885.26	69.27	13.780			
3,200.00	3,065.53	3,059.82	3,059.53	3,059.53	13.00	60.00	-156.28	74.77	379.62	986.01	914.65	71.36	13.817			
3,300.00	3,159.52	3,153.80	3,153.52	3,153.52	13.45	61.75	-157.04	74.77	379.62	1,017.67	944.21	73.45	13.854			
3,400.00	3,253.50	3,247.99	3,247.71	3,247.71	13.89	63.50	-157.77	75.00	379.62	1,049.69	974.14	75.55	13.894			
3,500.00	3,347.49	3,342.60	3,342.31	3,342.31	14.34	65.26	-158.45	74.95	379.62	1,081.60	1,003.94	77.66	13.928			
3,600.00	3,441.72	3,437.49	3,437.20	3,437.20	14.78	67.02	-137.24	74.85	379.62	1,110.40	1,030.64	79.76	13.921			
3,700.00	3,535.44	3,529.75	3,529.44	3,529.44	15.20	68.81	-116.68	74.77	379.62	1,131.70	1,049.82	81.88	13.821			
3,800.00	3,626.82	3,621.13	3,620.82	3,620.82	15.58	70.66	-102.66	74.77	379.62	1,145.87	1,061.82	84.05	13.634			
3,900.00	3,714.08	3,708.40	3,708.08	3,708.08	15.92	72.43	-94.42	74.77	379.62	1,153.59	1,067.49	86.11	13.397			
4,000.00	3,795.54	3,791.69	3,791.37	3,791.37	16.21	74.12	-90.17	75.72	379.62	1,156.90	1,068.83	88.07	13.136			
4,100.00	3,869.59	3,868.48	3,868.15	3,868.15	16.47	75.67	-88.45	75.51	379.62	1,155.11	1,065.21	89.90	12.850			
4,200.00	3,934.81	3,936.13	3,935.80	3,935.80	16.69	77.04	-88.26	75.17	379.62	1,150.80	1,059.27	91.53	12.573			
4,300.00	3,989.92	3,993.29	3,992.95	3,992.95	16.87	78.20	-88.94	74.77	379.62	1,145.69	1,052.73	92.96	12.324			
4,366.94	4,023.39	4,017.76	4,017.39	4,017.39	16.98	78.67	-90.00	74.77	379.62	1,144.19	1,050.58	93.61	12.223			
4,400.00	4,039.92	4,034.29	4,033.92	4,033.92	17.04	78.98	-90.72	74.77	379.62	1,144.55	1,050.53	94.02	12.173			
4,500.00	4,089.91	4,084.28	4,083.91	4,083.91	17.24	79.94	-92.86	74.77	379.62	1,149.98	1,054.66	95.31	12.065			
4,600.00	4,131.66	4,126.03	4,125.66	4,125.66	17.48	80.74	-93.47	74.77	379.62	1,162.58	1,066.12	96.46	12.053 SF			
4,700.00	4,157.02	4,151.39	4,151.02	4,151.02	17.78	81.22	-92.55	74.77	379.62	1,183.52	1,086.24	97.27	12.167			
4,800.00	4,165.55	4,159.92	4,159.55	4,159.55	18.13	81.39	-90.58	74.77	379.62	1,212.78	1,115.06	97.73	12.410			
4,900.00	4,168.41	4,162.78	4,162.41	4,162.41	18.55	81.44	-90.72	74.77	379.62	1,249.49	1,151.44	98.05	12.743			
5,000.00	4,171.27	4,165.64	4,165.27	4,165.27	19.06	81.50	-90.86	74.77	379.62	1,292.90	1,194.53	98.37	13.143			

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: STALEY STATE 21 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program:		253-INC-ONLY		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:			Offset Well Error:		0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	4,174.13	4,168.50	4,168.13	19.64	81.55	-91.01	74.77	379.62	1,342.36	1,243.68	98.68	13.604		
5,200.00	4,176.99	4,171.36	4,170.99	20.28	81.61	-91.15	74.77	379.62	1,397.23	1,298.27	98.96	14.119		
5,300.00	4,179.85	4,174.22	4,173.85	20.97	81.66	-91.29	74.77	379.62	1,456.90	1,357.69	99.22	14.684		
5,400.00	4,182.71	4,177.08	4,176.71	21.70	81.72	-91.43	74.77	379.62	1,520.81	1,421.35	99.46	15.291		
5,500.00	4,185.57	4,179.94	4,179.57	22.47	81.77	-91.58	74.77	379.62	1,588.44	1,488.76	99.68	15.936		
5,600.00	4,188.43	4,182.80	4,182.43	23.28	81.83	-91.72	74.77	379.62	1,659.34	1,559.46	99.88	16.613		
5,700.00	4,191.29	4,185.66	4,185.29	24.11	81.88	-91.86	74.77	379.62	1,733.11	1,633.04	100.06	17.320		
5,800.00	4,194.15	4,188.52	4,188.15	24.97	81.94	-92.01	74.77	379.62	1,809.39	1,709.15	100.23	18.052		
5,900.00	4,197.01	4,191.38	4,191.01	25.85	81.99	-92.15	74.77	379.62	1,887.88	1,787.49	100.39	18.805		
6,000.00	4,199.87	4,194.24	4,193.87	26.75	82.04	-92.29	74.77	379.62	1,968.32	1,867.79	100.54	19.578		
6,100.00	4,202.73	4,197.10	4,196.73	27.66	82.10	-92.44	74.77	379.62	2,050.48	1,949.81	100.68	20.367		
6,200.00	4,205.59	4,199.96	4,199.59	28.60	82.15	-92.58	74.77	379.62	2,134.16	2,033.36	100.81	21.171		
6,300.00	4,208.45	4,202.82	4,202.45	29.54	82.21	-92.72	74.77	379.62	2,219.19	2,118.26	100.93	21.988		
6,400.00	4,211.31	4,205.68	4,205.31	30.50	82.26	-92.86	74.77	379.62	2,305.41	2,204.37	101.05	22.815		
6,500.00	4,214.17	4,208.54	4,208.17	31.47	82.32	-93.01	74.77	379.62	2,392.71	2,291.55	101.16	23.653		
6,600.00	4,217.03	4,211.40	4,211.03	32.45	82.37	-93.15	74.77	379.62	2,480.96	2,379.69	101.27	24.499		
6,700.00	4,219.89	4,214.26	4,213.89	33.44	82.43	-93.29	74.77	379.62	2,570.06	2,468.69	101.37	25.352		
6,800.00	4,222.75	4,217.12	4,216.75	34.44	82.48	-93.43	74.77	379.62	2,659.94	2,558.46	101.48	26.212		
6,900.00	4,225.61	4,219.98	4,219.61	35.45	82.54	-93.58	74.77	379.62	2,750.52	2,648.94	101.58	27.077		
7,000.00	4,228.47	4,222.84	4,222.47	36.46	82.59	-93.72	74.77	379.62	2,841.72	2,740.04	101.68	27.948		
7,100.00	4,231.33	4,225.70	4,225.33	37.48	82.65	-93.86	74.77	379.62	2,933.49	2,831.72	101.78	28.823		
7,200.00	4,234.19	4,228.56	4,228.19	38.51	82.70	-94.01	74.77	379.62	3,025.79	2,923.91	101.87	29.701		
7,300.00	4,237.05	4,231.45	4,231.08	39.54	82.76	-94.15	75.60	379.62	3,118.85	3,016.87	101.98	30.584		
7,400.00	4,239.91	4,234.41	4,234.03	40.58	82.81	-94.29	75.60	379.62	3,212.03	3,109.96	102.07	31.468		
7,500.00	4,242.77	4,237.36	4,236.99	41.62	82.87	-94.44	75.60	379.62	3,305.62	3,203.45	102.17	32.354		
7,600.00	4,245.63	4,240.32	4,239.94	42.66	82.93	-94.59	75.60	379.62	3,399.56	3,297.30	102.27	33.242		
7,700.00	4,248.49	4,243.27	4,242.90	43.71	82.98	-94.73	75.60	379.62	3,493.85	3,391.48	102.36	34.131		
7,800.00	4,251.35	4,246.22	4,245.85	44.77	83.04	-94.88	75.60	379.62	3,588.43	3,485.97	102.46	35.022		
7,900.00	4,254.21	4,249.18	4,248.80	45.82	83.10	-95.03	75.59	379.62	3,683.31	3,580.75	102.56	35.914		
8,000.00	4,257.07	4,252.13	4,251.76	46.89	83.15	-95.17	75.59	379.62	3,778.44	3,675.78	102.65	36.807		
8,100.00	4,259.93	4,255.09	4,254.71	47.95	83.21	-95.32	75.59	379.62	3,873.82	3,771.06	102.75	37.701		
8,200.00	4,262.79	4,258.04	4,257.66	49.02	83.27	-95.47	75.59	379.62	3,969.42	3,866.57	102.85	38.594		
8,300.00	4,265.65	4,260.99	4,260.61	50.08	83.32	-95.61	75.59	379.62	4,065.23	3,962.28	102.95	39.488		
8,400.00	4,268.51	4,263.94	4,263.57	51.16	83.38	-95.76	75.58	379.62	4,161.24	4,058.19	103.05	40.382		
8,500.00	4,271.37	4,266.90	4,266.52	52.23	83.44	-95.90	75.58	379.62	4,257.42	4,154.28	103.14	41.276		
8,600.00	4,274.23	4,269.85	4,269.47	53.31	83.49	-96.05	75.58	379.62	4,353.78	4,250.54	103.24	42.170		
8,700.00	4,277.09	4,272.80	4,272.42	54.38	83.55	-96.20	75.57	379.62	4,450.30	4,346.96	103.34	43.063		
8,800.00	4,279.95	4,275.75	4,275.37	55.47	83.60	-96.34	75.57	379.62	4,546.97	4,443.52	103.44	43.956		
8,900.00	4,282.81	4,278.70	4,278.32	56.55	83.66	-96.49	75.56	379.62	4,643.77	4,540.23	103.55	44.848		
9,000.00	4,285.67	4,281.65	4,281.27	57.63	83.72	-96.63	75.56	379.62	4,740.71	4,637.06	103.65	45.739		
9,100.00	4,288.53	4,284.60	4,284.22	58.72	83.77	-96.78	75.56	379.62	4,837.77	4,734.02	103.75	46.629		
9,200.00	4,291.39	4,287.55	4,287.17	59.80	83.83	-96.93	75.55	379.62	4,934.94	4,831.09	103.85	47.519		

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: STALEY STATE 25 - Wellbore #1 - Wellbore #1													Offset Site Error:	
Survey Program: 420-INC-ONLY													Offset Well Error:	
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-19.08	725.27	-250.89	767.84					
100.00	100.00	75.10	75.10	0.29	1.38	-19.08	725.27	-250.89	767.44	765.77	1.67	460.130		
200.00	200.00	175.10	175.10	0.65	3.22	-19.08	725.27	-250.89	767.44	763.57	3.87	198.543		
300.00	300.00	275.10	275.10	1.00	5.06	-19.08	725.27	-250.89	767.44	761.38	6.06	126.581 CC		
400.00	399.98	375.08	375.08	1.35	6.90	158.71	725.27	-250.89	769.06	760.82	8.24	93.282 ES		
500.00	499.84	474.95	474.94	1.69	8.75	158.82	725.27	-250.89	773.94	763.51	10.44	74.149		
600.00	599.45	574.56	574.55	2.04	10.61	158.99	725.27	-250.89	782.08	769.43	12.65	61.834		
700.00	698.70	674.47	674.46	2.39	12.48	159.24	725.82	-250.89	794.00	779.13	14.87	53.403		
800.00	797.47	775.12	775.10	2.74	14.36	159.53	725.61	-250.89	808.47	791.37	17.10	47.268		
900.00	895.62	870.75	870.72	3.11	16.14	159.85	725.27	-250.89	826.07	806.83	19.24	42.945		
1,000.00	993.06	968.18	968.16	3.49	17.87	160.23	725.27	-250.89	847.28	825.95	21.33	39.723		
1,100.00	1,089.64	1,065.09	1,065.06	3.88	19.60	160.64	725.69	-250.89	872.15	848.74	23.41	37.249		
1,200.00	1,185.27	1,162.64	1,162.61	4.28	21.34	161.08	725.54	-250.89	899.76	874.26	25.51	35.272		
1,300.00	1,279.82	1,254.95	1,254.92	4.68	23.00	161.51	725.27	-250.89	930.50	902.98	27.52	33.812		
1,400.00	1,373.80	1,348.94	1,348.90	5.10	24.72	162.15	725.27	-250.89	963.14	933.57	29.58	32.562		
1,500.00	1,467.79	1,443.01	1,442.97	5.53	26.44	162.75	725.44	-250.89	996.05	964.41	31.64	31.480		
1,600.00	1,561.77	1,537.86	1,537.82	5.95	28.17	163.31	725.39	-250.89	1,028.84	995.12	33.72	30.511		
1,700.00	1,655.76	1,630.90	1,630.86	6.38	29.88	163.83	725.27	-250.89	1,061.64	1,025.87	35.77	29.677		
1,800.00	1,749.74	1,724.89	1,724.84	6.82	31.71	164.33	725.27	-250.89	1,094.63	1,056.68	37.95	28.842		
1,900.00	1,843.73	1,818.93	1,818.87	7.25	33.55	164.80	725.86	-250.89	1,128.27	1,088.14	40.14	28.112		
2,000.00	1,937.71	1,916.44	1,916.39	7.69	35.45	165.26	725.70	-250.89	1,161.25	1,118.86	42.39	27.395		
2,100.00	2,031.70	2,014.18	2,014.12	8.13	37.36	165.68	725.24	-250.89	1,194.01	1,149.36	44.65	26.743		
2,200.00	2,125.68	2,100.86	2,100.78	8.57	38.98	166.05	725.27	-250.89	1,227.25	1,180.64	46.61	26.332		
2,300.00	2,219.67	2,194.85	2,194.77	9.01	40.73	166.42	725.27	-250.89	1,260.53	1,211.82	48.71	25.877		
2,400.00	2,313.65	2,288.83	2,288.75	9.45	42.49	166.77	725.27	-250.89	1,293.87	1,243.05	50.82	25.460		
2,500.00	2,407.64	2,382.82	2,382.74	9.89	44.25	167.11	725.27	-250.89	1,327.24	1,274.32	52.93	25.077		
2,600.00	2,501.62	2,477.97	2,477.87	10.33	46.03	167.45	726.70	-250.89	1,362.07	1,307.01	55.06	24.740		
2,700.00	2,595.61	2,574.21	2,574.12	10.78	47.83	167.76	726.54	-250.89	1,395.37	1,338.16	57.21	24.391		
2,800.00	2,689.59	2,670.58	2,670.48	11.22	49.63	168.05	726.22	-250.89	1,428.54	1,369.18	59.36	24.064		
2,900.00	2,783.58	2,767.05	2,766.95	11.67	51.43	168.33	725.75	-250.89	1,461.60	1,400.08	61.52	23.758		
3,000.00	2,877.56	2,852.78	2,852.66	12.11	53.02	168.57	725.27	-250.89	1,494.65	1,431.20	63.45	23.555		
3,100.00	2,971.55	2,946.77	2,946.65	12.56	54.68	168.82	725.27	-250.89	1,528.22	1,462.76	65.46	23.345		
3,200.00	3,065.53	3,040.75	3,040.63	13.00	56.34	169.06	725.27	-250.89	1,561.82	1,494.35	67.47	23.148		
3,300.00	3,159.52	3,136.43	3,136.30	13.45	58.03	169.30	725.50	-250.89	1,595.66	1,526.15	69.51	22.955		
3,400.00	3,253.50	3,232.40	3,232.27	13.89	59.72	169.53	725.34	-250.89	1,629.15	1,557.59	71.56	22.766		
3,500.00	3,347.49	3,322.72	3,322.59	14.34	61.35	169.73	725.27	-250.89	1,662.74	1,589.20	73.54	22.610		
3,600.00	3,441.72	3,416.95	3,416.82	14.78	63.08	-167.37	725.27	-250.89	1,695.98	1,620.37	75.61	22.430		
3,700.00	3,535.44	3,511.66	3,511.53	15.20	64.81	-144.68	725.53	-250.89	1,728.08	1,650.40	77.68	22.247		
3,800.00	3,626.82	3,605.12	3,604.99	15.58	66.52	-128.24	725.42	-250.89	1,758.12	1,678.42	79.71	22.057		
3,900.00	3,714.08	3,689.32	3,689.18	15.92	68.05	-117.24	725.27	-250.89	1,786.44	1,704.90	81.54	21.910		
4,000.00	3,795.54	3,770.78	3,770.64	16.21	69.53	-109.98	725.27	-250.89	1,813.46	1,730.17	83.29	21.773		
4,100.00	3,869.59	3,844.83	3,844.69	16.47	70.86	-105.02	725.27	-250.89	1,839.46	1,754.56	84.90	21.666		
4,200.00	3,934.81	3,912.26	3,912.12	16.69	72.08	-101.52	725.75	-250.89	1,865.41	1,779.02	86.39	21.592		
4,300.00	3,989.92	3,970.18	3,970.03	16.87	73.13	-98.98	725.63	-250.89	1,890.79	1,803.07	87.72	21.556 SF		
4,400.00	4,039.92	4,022.72	4,022.57	17.04	74.08	-100.38	725.45	-250.89	1,918.13	1,829.16	88.97	21.560		
4,500.00	4,089.91	4,065.16	4,065.01	17.24	74.85	-101.41	725.27	-250.89	1,948.92	1,858.88	90.04	21.645		
4,600.00	4,131.66	4,106.91	4,106.76	17.48	75.59	-98.77	725.27	-250.89	1,984.91	1,893.81	91.10	21.788		
4,700.00	4,157.02	4,132.28	4,132.12	17.78	76.04	-94.93	725.27	-250.89	2,026.99	1,935.14	91.85	22.068		
4,800.00	4,165.55	4,140.80	4,140.65	18.13	76.19	-90.93	725.27	-250.89	2,074.17	1,981.90	92.27	22.479		
4,900.00	4,168.41	4,143.66	4,143.51	18.55	76.24	-91.02	725.27	-250.89	2,125.19	2,032.60	92.59	22.954		
5,000.00	4,171.27	4,146.52	4,146.37	19.06	76.29	-91.11	725.27	-250.89	2,179.60	2,086.70	92.91	23.460		
5,100.00	4,174.13	4,149.38	4,149.23	19.64	76.34	-91.20	725.27	-250.89	2,237.16	2,143.93	93.23	23.996		

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: STALEY STATE 25 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 420-INC-ONLY													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,200.00	4,176.99	4,152.24	4,152.09	20.28	76.39	-91.29	725.27	-250.89	2,297.63	2,204.08	93.55	24.561		
5,300.00	4,179.85	4,155.10	4,154.95	20.97	76.44	-91.38	725.27	-250.89	2,360.78	2,266.91	93.86	25.151		
5,400.00	4,182.71	4,157.96	4,157.81	21.70	76.49	-91.47	725.27	-250.89	2,426.40	2,332.23	94.17	25.765		
5,500.00	4,185.57	4,160.82	4,160.67	22.47	76.54	-91.56	725.27	-250.89	2,494.31	2,399.84	94.47	26.402		
5,600.00	4,188.43	4,163.68	4,163.53	23.28	76.59	-91.65	725.27	-250.89	2,564.32	2,469.55	94.76	27.060		
5,700.00	4,191.29	4,166.54	4,166.39	24.11	76.64	-91.74	725.27	-250.89	2,636.26	2,541.21	95.05	27.737		
5,800.00	4,194.15	4,169.40	4,169.25	24.97	76.69	-91.83	725.27	-250.89	2,709.97	2,614.65	95.32	28.431		
5,900.00	4,197.01	4,172.26	4,172.11	25.85	76.74	-91.92	725.27	-250.89	2,785.32	2,689.75	95.58	29.142		
6,000.00	4,199.87	4,175.12	4,174.97	26.75	76.79	-92.02	725.27	-250.89	2,862.18	2,766.35	95.83	29.867		
6,100.00	4,202.73	4,177.98	4,177.83	27.66	76.84	-92.11	725.27	-250.89	2,940.43	2,844.36	96.07	30.606		
6,200.00	4,205.59	4,180.84	4,180.69	28.60	76.89	-92.20	725.27	-250.89	3,019.97	2,923.66	96.31	31.358		
6,300.00	4,208.45	4,183.70	4,183.55	29.54	76.95	-92.29	725.27	-250.89	3,100.68	3,004.15	96.53	32.121		
6,400.00	4,211.31	4,186.56	4,186.41	30.50	77.00	-92.38	725.27	-250.89	3,182.49	3,085.74	96.75	32.895		
6,500.00	4,214.17	4,189.42	4,189.27	31.47	77.05	-92.47	725.27	-250.89	3,265.30	3,168.35	96.96	33.678		
6,600.00	4,217.03	4,192.28	4,192.13	32.45	77.10	-92.56	725.27	-250.89	3,349.06	3,251.90	97.16	34.470		
6,700.00	4,219.89	4,195.14	4,194.99	33.44	77.15	-92.65	725.27	-250.89	3,433.68	3,336.32	97.35	35.270		
6,800.00	4,222.75	4,198.00	4,197.85	34.44	77.20	-92.74	725.27	-250.89	3,519.10	3,421.56	97.54	36.078		
6,900.00	4,225.61	4,200.86	4,200.71	35.45	77.25	-92.83	725.27	-250.89	3,605.27	3,507.55	97.72	36.892		
7,000.00	4,228.47	4,203.72	4,203.57	36.46	77.30	-92.92	725.27	-250.89	3,692.14	3,594.24	97.90	37.713		
7,100.00	4,231.33	4,206.58	4,206.43	37.48	77.35	-93.01	725.27	-250.89	3,779.66	3,681.58	98.07	38.539		
7,200.00	4,234.19	4,209.44	4,209.29	38.51	77.40	-93.10	725.27	-250.89	3,867.77	3,769.53	98.24	39.370		
7,300.00	4,237.05	4,212.30	4,212.15	39.54	77.45	-93.19	725.27	-250.89	3,956.45	3,858.05	98.41	40.205		
7,400.00	4,239.91	4,215.16	4,215.01	40.58	77.50	-93.28	725.27	-250.89	4,045.66	3,947.09	98.57	41.045		
7,500.00	4,242.77	4,218.02	4,217.87	41.62	77.55	-93.37	725.27	-250.89	4,135.36	4,036.64	98.72	41.889		
7,600.00	4,245.63	4,220.88	4,220.73	42.66	77.60	-93.46	725.27	-250.89	4,225.52	4,126.64	98.87	42.736		
7,700.00	4,248.49	4,223.74	4,223.59	43.71	77.65	-93.55	725.27	-250.89	4,316.11	4,217.08	99.02	43.587		
7,800.00	4,251.35	4,226.60	4,226.45	44.77	77.70	-93.64	725.27	-250.89	4,407.10	4,307.93	99.17	44.440		
7,900.00	4,254.21	4,229.46	4,229.31	45.82	77.76	-93.74	725.27	-250.89	4,498.48	4,399.17	99.31	45.295		
8,000.00	4,257.07	4,232.32	4,232.17	46.89	77.81	-93.83	725.27	-250.89	4,590.21	4,490.76	99.46	46.153		
8,100.00	4,259.93	4,235.18	4,235.03	47.95	77.86	-93.92	725.27	-250.89	4,682.29	4,582.69	99.60	47.013		
8,200.00	4,262.79	4,238.04	4,237.89	49.02	77.91	-94.01	725.27	-250.89	4,774.67	4,674.94	99.73	47.875		
8,300.00	4,265.65	4,240.90	4,240.75	50.08	77.96	-94.10	725.27	-250.89	4,867.36	4,767.49	99.87	48.738		
8,400.00	4,268.51	4,243.76	4,243.61	51.16	78.01	-94.19	725.27	-250.89	4,960.33	4,860.33	100.00	49.602		

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: STALEY STATE 3 - Wellbore #1 - Wellbore #1													Offset Site Error:
Survey Program: 539-INC-ONLY													Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	26.25	741.83	365.76	827.42				
100.00	100.00	77.00	77.00	0.29	1.34	26.25	741.83	365.76	827.10	825.47	1.63	508.773	
200.00	200.00	177.00	177.00	0.65	3.08	26.25	741.83	365.76	827.10	823.38	3.72	222.161	
300.00	300.00	277.00	277.00	1.00	4.82	26.25	741.83	365.76	827.10	821.28	5.82	142.107 CC	
400.00	399.98	376.98	376.98	1.35	6.56	-156.03	741.83	365.76	828.69	820.79	7.90	104.874 ES	
500.00	499.84	476.84	476.84	1.69	8.29	-156.14	741.83	365.76	833.48	823.50	9.98	83.531	
600.00	599.45	576.45	576.45	2.04	10.05	-156.31	741.83	365.76	841.46	829.38	12.08	69.647	
700.00	698.70	675.70	675.70	2.39	11.83	-156.55	741.83	365.76	852.64	838.42	14.22	59.953	
800.00	797.47	774.48	774.48	2.74	13.61	-156.86	742.09	365.76	867.27	850.91	16.36	53.025	
900.00	895.62	873.38	873.38	3.11	15.39	-157.21	742.04	365.76	884.84	866.35	18.49	47.848	
1,000.00	993.06	971.59	971.59	3.49	17.16	-157.59	741.90	365.76	905.56	884.95	20.62	43.921	
1,100.00	1,089.64	1,066.65	1,066.64	3.88	18.90	-158.00	741.83	365.76	929.57	906.87	22.71	40.934	
1,200.00	1,185.27	1,162.28	1,162.27	4.28	20.66	-158.45	741.83	365.76	956.89	932.06	24.82	38.548	
1,300.00	1,279.82	1,256.83	1,256.82	4.68	22.40	-158.91	741.83	365.76	987.43	960.51	26.92	36.678	
1,400.00	1,373.80	1,352.32	1,352.30	5.10	24.15	-159.62	742.31	365.76	1,020.06	991.04	29.02	35.151	
1,500.00	1,467.79	1,447.98	1,447.96	5.53	25.91	-160.27	742.08	365.76	1,052.15	1,021.03	31.12	33.806	
1,600.00	1,561.77	1,538.80	1,538.77	5.95	27.59	-160.85	741.83	365.76	1,084.33	1,051.18	33.15	32.710	
1,700.00	1,655.76	1,632.79	1,632.76	6.38	29.37	-161.42	741.83	365.76	1,116.86	1,081.59	35.27	31.667	
1,800.00	1,749.74	1,726.77	1,726.74	6.82	31.14	-161.96	741.83	365.76	1,149.47	1,112.08	37.39	30.743	
1,900.00	1,843.73	1,822.19	1,822.15	7.25	32.94	-162.48	742.31	365.76	1,182.63	1,143.09	39.54	29.911	
2,000.00	1,937.71	1,918.25	1,918.21	7.69	34.75	-162.97	742.10	365.76	1,215.22	1,173.52	41.70	29.141	
2,100.00	2,031.70	2,008.76	2,008.70	8.13	36.48	-163.41	741.83	365.76	1,247.82	1,204.05	43.78	28.505	
2,200.00	2,125.68	2,102.74	2,102.68	8.57	38.36	-163.84	741.83	365.76	1,280.75	1,234.74	46.01	27.838	
2,300.00	2,219.67	2,196.73	2,196.67	9.01	40.25	-164.26	741.83	365.76	1,313.74	1,265.50	48.24	27.234	
2,400.00	2,313.65	2,290.71	2,290.65	9.45	42.13	-164.65	741.83	365.76	1,346.78	1,296.31	50.47	26.684	
2,500.00	2,407.64	2,384.70	2,384.64	9.89	44.01	-165.02	741.83	365.76	1,379.89	1,327.18	52.70	26.182	
2,600.00	2,501.62	2,478.68	2,478.62	10.33	45.89	-165.38	741.83	365.76	1,413.04	1,358.10	54.94	25.721	
2,700.00	2,595.61	2,573.98	2,573.91	10.78	47.80	-165.74	743.46	365.76	1,447.81	1,390.61	57.20	25.312	
2,800.00	2,689.59	2,669.76	2,669.69	11.22	49.72	-166.07	743.32	365.76	1,480.92	1,421.45	59.47	24.902	
2,900.00	2,783.58	2,765.63	2,765.55	11.67	51.64	-166.38	743.05	365.76	1,513.95	1,452.20	61.74	24.520	
3,000.00	2,877.56	2,861.59	2,861.51	12.11	53.56	-166.68	742.66	365.76	1,546.91	1,482.89	64.02	24.163	
3,100.00	2,971.55	2,957.63	2,957.54	12.56	55.49	-166.97	742.16	365.76	1,579.79	1,513.49	66.30	23.829	
3,200.00	3,065.53	3,042.71	3,042.53	13.00	57.22	-167.21	741.83	365.76	1,612.83	1,544.47	68.37	23.591	
3,300.00	3,159.52	3,136.70	3,136.52	13.45	59.18	-167.47	741.83	365.76	1,646.25	1,575.58	70.68	23.293	
3,400.00	3,253.50	3,230.68	3,230.50	13.89	61.14	-167.73	741.83	365.76	1,679.71	1,606.72	72.99	23.014	
3,500.00	3,347.49	3,328.38	3,328.19	14.34	63.17	-167.99	742.86	365.76	1,714.19	1,638.81	75.38	22.740	
3,600.00	3,441.72	3,428.58	3,428.38	14.78	65.26	-145.99	742.47	365.76	1,744.90	1,667.08	77.83	22.421	
3,700.00	3,535.44	3,528.45	3,528.24	15.20	67.34	-124.54	741.73	365.76	1,769.30	1,689.04	80.26	22.045	
3,800.00	3,626.82	3,604.07	3,603.82	15.58	68.93	-109.24	741.83	365.76	1,788.37	1,706.22	82.15	21.770	
3,900.00	3,714.08	3,691.34	3,691.08	15.92	70.76	-99.79	741.83	365.76	1,801.69	1,717.40	84.29	21.375	
4,000.00	3,795.54	3,775.32	3,775.05	16.21	72.52	-94.26	742.78	365.76	1,810.81	1,724.46	86.35	20.970	
4,100.00	3,869.59	3,855.05	3,854.78	16.47	74.19	-91.30	742.54	365.76	1,814.44	1,726.12	88.32	20.543	
4,200.00	3,934.81	3,925.31	3,925.03	16.69	75.66	-89.94	742.12	365.76	1,814.51	1,724.41	90.10	20.140	
4,300.00	3,989.92	3,967.24	3,966.92	16.87	76.54	-89.13	741.83	365.76	1,812.23	1,720.97	91.25	19.859	
4,361.18	4,020.51	3,994.00	3,993.67	16.97	77.10	-89.86	741.83	365.76	1,811.39	1,719.38	92.01	19.686	
4,400.00	4,039.92	3,994.00	3,993.67	17.04	77.10	-89.86	741.83	365.76	1,811.81	1,719.71	92.09	19.673 SF	
4,500.00	4,089.91	3,994.00	3,993.67	17.24	77.10	-89.84	741.83	365.76	1,816.70	1,724.41	92.30	19.684	
4,600.00	4,131.66	3,994.00	3,993.67	17.48	77.10	-88.80	741.83	365.76	1,827.00	1,734.51	92.49	19.754	
4,700.00	4,157.02	3,994.00	3,993.67	17.78	77.10	-87.26	741.83	365.76	1,842.30	1,749.56	92.74	19.866	
4,800.00	4,165.55	3,994.00	3,993.67	18.13	77.10	-85.67	741.83	365.76	1,862.04	1,768.99	93.05	20.010	
4,900.00	4,168.41	3,994.00	3,993.67	18.55	77.10	-85.67	741.83	365.76	1,886.53	1,793.12	93.42	20.195	
5,000.00	4,171.27	3,994.00	3,993.67	19.06	77.10	-85.67	741.83	365.76	1,915.93	1,822.14	93.79	20.427	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: STALEY STATE 3 - Wellbore #1 - Wellbore #1													Offset Site Error:
Survey Program: 539-INC-ONLY													Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,174.13	3,994.00	3,993.67	19.64	77.10	-85.67	741.83	365.76	1,950.02	1,855.84	94.18	20.706	
5,200.00	4,176.99	3,994.00	3,993.67	20.28	77.10	-85.67	741.83	365.76	1,988.56	1,894.00	94.56	21.029	
5,300.00	4,179.85	3,994.00	3,993.67	20.97	77.10	-85.67	741.83	365.76	2,031.30	1,936.36	94.94	21.395	
5,400.00	4,182.71	3,994.00	3,993.67	21.70	77.10	-85.67	741.83	365.76	2,077.97	1,982.66	95.31	21.802	
5,500.00	4,185.57	3,994.00	3,993.67	22.47	77.10	-85.67	741.83	365.76	2,128.32	2,032.66	95.66	22.248	
5,600.00	4,188.43	3,994.00	3,993.67	23.28	77.10	-85.67	741.83	365.76	2,182.10	2,086.09	96.00	22.730	
5,700.00	4,191.29	3,994.00	3,993.67	24.11	77.10	-85.67	741.83	365.76	2,239.05	2,142.73	96.32	23.246	
5,800.00	4,194.15	3,994.00	3,993.67	24.97	77.10	-85.67	741.83	365.76	2,298.94	2,202.32	96.62	23.793	
5,900.00	4,197.01	3,994.00	3,993.67	25.85	77.10	-85.67	741.83	365.76	2,361.55	2,264.64	96.91	24.369	
6,000.00	4,199.87	3,994.00	3,993.67	26.75	77.10	-85.67	741.83	365.76	2,426.67	2,329.50	97.17	24.973	
6,100.00	4,202.73	3,994.00	3,993.67	27.66	77.10	-85.67	741.83	365.76	2,494.09	2,396.68	97.42	25.602	
6,200.00	4,205.59	3,994.00	3,993.67	28.60	77.10	-85.67	741.83	365.76	2,563.65	2,466.00	97.65	26.254	
6,300.00	4,208.45	3,994.00	3,993.67	29.54	77.10	-85.67	741.83	365.76	2,635.16	2,537.30	97.86	26.927	
6,400.00	4,211.31	3,994.00	3,993.67	30.50	77.10	-85.67	741.83	365.76	2,708.48	2,610.42	98.06	27.620	
6,500.00	4,214.17	3,994.00	3,993.67	31.47	77.10	-85.67	741.83	365.76	2,783.46	2,685.22	98.25	28.331	
6,600.00	4,217.03	3,994.00	3,993.67	32.45	77.10	-85.67	741.83	365.76	2,859.98	2,761.55	98.42	29.058	
6,700.00	4,219.89	3,994.00	3,993.67	33.44	77.10	-85.67	741.83	365.76	2,937.90	2,839.32	98.58	29.801	
6,800.00	4,222.75	3,994.00	3,993.67	34.44	77.10	-85.67	741.83	365.76	3,017.13	2,918.39	98.74	30.558	
6,900.00	4,225.61	3,994.00	3,993.67	35.45	77.10	-85.67	741.83	365.76	3,097.55	2,998.68	98.88	31.327	
7,000.00	4,228.47	3,994.00	3,993.67	36.46	77.10	-85.67	741.83	365.76	3,179.09	3,080.08	99.01	32.109	
7,100.00	4,231.33	3,994.00	3,993.67	37.48	77.10	-85.67	741.83	365.76	3,261.66	3,162.53	99.13	32.902	
7,200.00	4,234.19	3,994.00	3,993.67	38.51	77.10	-85.67	741.83	365.76	3,345.18	3,245.93	99.25	33.704	
7,300.00	4,237.05	3,994.00	3,993.67	39.54	77.10	-85.67	741.83	365.76	3,429.58	3,330.22	99.36	34.516	
7,400.00	4,239.91	3,994.00	3,993.67	40.58	77.10	-85.67	741.83	365.76	3,514.80	3,415.33	99.47	35.336	
7,500.00	4,242.77	3,994.00	3,993.67	41.62	77.10	-85.67	741.83	365.76	3,600.78	3,501.21	99.57	36.165	
7,600.00	4,245.63	3,994.00	3,993.67	42.66	77.10	-85.67	741.83	365.76	3,687.46	3,587.80	99.66	37.000	
7,700.00	4,248.49	3,994.00	3,993.67	43.71	77.10	-85.67	741.83	365.76	3,774.81	3,675.06	99.75	37.843	
7,800.00	4,251.35	3,994.00	3,993.67	44.77	77.10	-85.67	741.83	365.76	3,862.77	3,762.93	99.84	38.691	
7,900.00	4,254.21	3,994.00	3,993.67	45.82	77.10	-85.67	741.83	365.76	3,951.30	3,851.38	99.92	39.545	
8,000.00	4,257.07	3,994.00	3,993.67	46.89	77.10	-85.67	741.83	365.76	4,040.37	3,940.37	100.00	40.404	
8,100.00	4,259.93	3,994.00	3,993.67	47.95	77.10	-85.67	741.83	365.76	4,129.93	4,029.86	100.07	41.269	
8,200.00	4,262.79	3,994.00	3,993.67	49.02	77.10	-85.67	741.83	365.76	4,219.97	4,119.82	100.15	42.137	
8,300.00	4,265.65	3,994.00	3,993.67	50.08	77.10	-85.67	741.83	365.76	4,310.44	4,210.23	100.22	43.010	
8,400.00	4,268.51	3,994.00	3,993.67	51.16	77.10	-85.67	741.83	365.76	4,401.33	4,301.04	100.29	43.887	
8,500.00	4,271.37	3,994.00	3,993.67	52.23	77.10	-85.67	741.83	365.76	4,492.61	4,392.25	100.36	44.767	
8,600.00	4,274.23	3,994.00	3,993.67	53.31	77.10	-85.67	741.83	365.76	4,584.25	4,483.82	100.42	45.650	
8,700.00	4,277.09	3,994.00	3,993.67	54.38	77.10	-85.67	741.83	365.76	4,676.23	4,575.74	100.49	46.536	
8,800.00	4,279.95	3,994.00	3,993.67	55.47	77.10	-85.67	741.83	365.76	4,768.53	4,667.98	100.55	47.425	
8,900.00	4,282.81	3,994.00	3,993.67	56.55	77.10	-85.67	741.83	365.76	4,861.14	4,760.53	100.61	48.316	
9,000.00	4,285.67	3,994.00	3,993.67	57.63	77.10	-85.67	741.83	365.76	4,954.04	4,853.37	100.67	49.210	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design:SMITHDALE 29 FEDERAL - OFFSET: STALEY STATE 7 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft	
Survey Program: 425-INC-ONLY				Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	-59.27	177.17	-298.05	347.20						
100.00	100.00	82.00	82.00	0.29	1.39	-59.27	177.17	-298.05	346.73	345.05	1.68	206.691			
200.00	200.00	182.00	182.00	0.65	3.09	-59.27	177.17	-298.05	346.73	343.00	3.73	92.906			
300.00	300.00	282.00	282.00	1.00	4.78	-59.27	177.17	-298.05	346.73	340.95	5.79	59.920 CC			
400.00	399.98	381.98	381.98	1.35	6.48	118.73	177.17	-298.05	347.57	339.74	7.82	44.421 ES			
500.00	499.84	481.84	481.84	1.69	8.21	119.43	177.17	-298.05	350.11	340.22	9.89	35.395			
600.00	599.45	581.45	581.45	2.04	9.96	120.58	177.17	-298.05	354.49	342.49	11.99	29.561			
700.00	698.70	680.70	680.70	2.39	11.71	122.13	177.17	-298.05	360.86	346.77	14.09	25.607			
800.00	797.47	779.47	779.47	2.74	13.45	124.02	177.17	-298.05	369.48	353.29	16.19	22.822			
900.00	895.62	877.62	877.62	3.11	15.17	126.19	177.17	-298.05	380.59	362.31	18.28	20.819			
1,000.00	993.06	975.06	975.06	3.49	16.89	128.57	177.17	-298.05	394.48	374.11	20.37	19.368			
1,100.00	1,089.64	1,071.64	1,071.64	3.88	18.60	131.08	177.17	-298.05	411.39	388.95	22.45	18.329			
1,200.00	1,185.27	1,167.27	1,167.27	4.28	20.29	133.64	177.17	-298.05	431.58	407.07	24.51	17.611			
1,300.00	1,279.82	1,262.06	1,262.06	4.68	21.97	136.23	177.42	-298.05	455.40	428.84	26.56	17.149			
1,400.00	1,373.80	1,356.38	1,356.38	5.10	23.64	138.97	177.31	-298.05	481.24	452.66	28.58	16.836			
1,500.00	1,467.79	1,449.79	1,449.79	5.53	25.29	141.42	177.17	-298.05	508.02	477.42	30.60	16.603			
1,600.00	1,561.77	1,543.78	1,543.77	5.95	26.98	143.65	177.17	-298.05	535.74	503.11	32.64	16.415			
1,700.00	1,655.76	1,637.76	1,637.76	6.38	28.66	145.67	177.17	-298.05	564.17	529.50	34.68	16.270			
1,800.00	1,749.74	1,732.05	1,732.04	6.82	30.35	147.52	177.41	-298.05	593.42	556.70	36.72	16.161			
1,900.00	1,843.73	1,826.54	1,826.53	7.25	32.04	149.18	177.31	-298.05	622.89	584.12	38.76	16.069			
2,000.00	1,937.71	1,919.73	1,919.71	7.69	33.72	150.68	177.17	-298.05	652.76	611.97	40.79	16.004			
2,100.00	2,031.70	2,013.71	2,013.70	8.13	35.43	152.06	177.17	-298.05	683.16	640.30	42.85	15.942			
2,200.00	2,125.68	2,107.70	2,107.68	8.57	37.15	153.33	177.17	-298.05	713.89	668.97	44.92	15.893			
2,300.00	2,219.67	2,202.01	2,201.99	9.01	38.87	154.52	177.75	-298.05	745.46	698.47	46.99	15.865			
2,400.00	2,313.65	2,297.14	2,297.12	9.45	40.61	155.60	177.63	-298.05	776.65	727.57	49.08	15.826			
2,500.00	2,407.64	2,392.38	2,392.36	9.89	42.35	156.60	177.36	-298.05	807.93	756.77	51.16	15.791			
2,600.00	2,501.62	2,483.66	2,483.62	10.33	44.00	157.48	177.17	-298.05	839.48	786.31	53.16	15.790			
2,700.00	2,595.61	2,577.64	2,577.61	10.78	45.70	158.34	177.17	-298.05	871.39	816.19	55.21	15.785			
2,800.00	2,689.59	2,671.63	2,671.59	11.22	47.39	159.13	177.17	-298.05	903.47	846.23	57.25	15.782			
2,900.00	2,783.58	2,767.11	2,767.07	11.67	49.11	159.89	177.61	-298.05	936.12	876.81	59.32	15.782			
3,000.00	2,877.56	2,862.81	2,862.76	12.11	50.83	160.59	177.37	-298.05	968.26	906.86	61.39	15.771 SF			
3,100.00	2,971.55	2,953.59	2,953.55	12.56	52.47	161.21	177.17	-298.05	1,000.54	937.17	63.37	15.789			
3,200.00	3,065.53	3,047.58	3,047.53	13.00	54.16	161.82	177.17	-298.05	1,033.13	967.72	65.41	15.794			
3,300.00	3,159.52	3,141.57	3,141.52	13.45	55.86	162.39	177.17	-298.05	1,065.82	998.36	67.46	15.800			
3,400.00	3,253.50	3,236.21	3,236.17	13.89	57.56	162.93	177.42	-298.05	1,098.84	1,029.32	69.51	15.808			
3,500.00	3,347.49	3,331.13	3,331.08	14.34	59.27	163.44	177.32	-298.05	1,131.60	1,060.03	71.57	15.810			
3,600.00	3,441.72	3,423.78	3,423.72	14.78	60.95	-173.49	177.17	-298.05	1,164.51	1,090.92	73.59	15.824			
3,700.00	3,535.44	3,517.50	3,517.44	15.20	62.70	-150.72	177.17	-298.05	1,197.58	1,121.89	75.68	15.823			
3,800.00	3,626.82	3,608.88	3,608.82	15.58	64.42	-134.22	177.17	-298.05	1,230.36	1,152.64	77.72	15.832			
3,900.00	3,714.08	3,696.40	3,696.34	15.92	66.05	-123.25	177.75	-298.05	1,263.52	1,183.86	79.66	15.862			
4,000.00	3,795.54	3,779.52	3,779.46	16.21	67.61	-115.99	177.68	-298.05	1,296.26	1,214.75	81.51	15.904			
4,100.00	3,869.59	3,855.13	3,855.07	16.47	69.03	-110.93	177.51	-298.05	1,329.71	1,246.51	83.20	15.982			
4,200.00	3,934.81	3,921.72	3,921.66	16.69	70.27	-107.11	177.29	-298.05	1,364.53	1,279.81	84.72	16.107			
4,300.00	3,989.92	3,962.00	3,961.91	16.87	71.03	-103.43	177.17	-298.05	1,401.45	1,315.74	85.70	16.353			
4,400.00	4,039.92	3,962.00	3,961.91	17.04	71.03	-103.43	177.17	-298.05	1,442.94	1,357.16	85.78	16.821			
4,500.00	4,089.91	3,962.00	3,961.91	17.24	71.03	-103.27	177.17	-298.05	1,490.00	1,404.21	85.79	17.368			
4,600.00	4,131.66	3,962.00	3,961.91	17.48	71.03	-97.01	177.17	-298.05	1,543.64	1,457.84	85.79	17.992			
4,700.00	4,157.02	3,962.00	3,961.91	17.78	71.03	-89.57	177.17	-298.05	1,603.39	1,517.52	85.87	18.672			
4,800.00	4,165.55	3,962.00	3,961.91	18.13	71.03	-82.99	177.17	-298.05	1,666.92	1,580.88	86.04	19.373			
4,900.00	4,168.41	3,962.00	3,961.91	18.55	71.03	-82.99	177.17	-298.05	1,733.55	1,647.30	86.25	20.098			
5,000.00	4,171.27	3,962.00	3,961.91	19.06	71.03	-82.99	177.17	-298.05	1,803.26	1,716.80	86.46	20.857			
5,100.00	4,174.13	3,962.00	3,961.91	19.64	71.03	-82.99	177.17	-298.05	1,875.72	1,789.06	86.66	21.645			

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: STALEY STATE 7 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program: 425-INC-ONLY												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
+N/-S (usft)	+E/-W (usft)	Between Ellipses (usft)	Between Centres (usft)	Ellipses (usft)	Centres (usft)	Minimum Separation (usft)	Separation Factor	Warning					
5,200.00	4,176.99	3,962.00	3,961.91	20.28	71.03	-82.99	177.17	-298.05	1,950.61	1,863.76	86.85	22.460	
5,300.00	4,179.85	3,962.00	3,961.91	20.97	71.03	-82.99	177.17	-298.05	2,027.67	1,940.64	87.03	23.298	
5,400.00	4,182.71	3,962.00	3,961.91	21.70	71.03	-82.99	177.17	-298.05	2,106.66	2,019.46	87.21	24.157	
5,500.00	4,185.57	3,962.00	3,961.91	22.47	71.03	-82.99	177.17	-298.05	2,187.37	2,100.00	87.37	25.035	
5,600.00	4,188.43	3,962.00	3,961.91	23.28	71.03	-82.99	177.17	-298.05	2,269.62	2,182.09	87.53	25.930	
5,700.00	4,191.29	3,962.00	3,961.91	24.11	71.03	-82.99	177.17	-298.05	2,353.24	2,265.56	87.67	26.841	
5,800.00	4,194.15	3,962.00	3,961.91	24.97	71.03	-82.99	177.17	-298.05	2,438.09	2,350.28	87.81	27.764	
5,900.00	4,197.01	3,962.00	3,961.91	25.85	71.03	-82.99	177.17	-298.05	2,524.06	2,436.11	87.95	28.700	
6,000.00	4,199.87	3,962.00	3,961.91	26.75	71.03	-82.99	177.17	-298.05	2,611.02	2,522.95	88.07	29.647	
6,100.00	4,202.73	3,962.00	3,961.91	27.66	71.03	-82.99	177.17	-298.05	2,698.89	2,610.70	88.19	30.603	
6,200.00	4,205.59	3,962.00	3,961.91	28.60	71.03	-82.99	177.17	-298.05	2,787.57	2,699.27	88.30	31.568	
6,300.00	4,208.45	3,962.00	3,961.91	29.54	71.03	-82.99	177.17	-298.05	2,877.00	2,788.59	88.41	32.541	
6,400.00	4,211.31	3,962.00	3,961.91	30.50	71.03	-82.99	177.17	-298.05	2,967.10	2,878.59	88.51	33.521	
6,500.00	4,214.17	3,962.00	3,961.91	31.47	71.03	-82.99	177.17	-298.05	3,057.82	2,969.21	88.61	34.508	
6,600.00	4,217.03	3,962.00	3,961.91	32.45	71.03	-82.99	177.17	-298.05	3,149.10	3,060.39	88.71	35.500	
6,700.00	4,219.89	3,962.00	3,961.91	33.44	71.03	-82.99	177.17	-298.05	3,240.90	3,152.10	88.80	36.497	
6,800.00	4,222.75	3,962.00	3,961.91	34.44	71.03	-82.99	177.17	-298.05	3,333.16	3,244.28	88.89	37.499	
6,900.00	4,225.61	3,962.00	3,961.91	35.45	71.03	-82.99	177.17	-298.05	3,425.86	3,336.89	88.97	38.505	
7,000.00	4,228.47	3,962.00	3,961.91	36.46	71.03	-82.99	177.17	-298.05	3,518.96	3,429.91	89.05	39.515	
7,100.00	4,231.33	3,962.00	3,961.91	37.48	71.03	-82.99	177.17	-298.05	3,612.43	3,523.30	89.13	40.528	
7,200.00	4,234.19	3,962.00	3,961.91	38.51	71.03	-82.99	177.17	-298.05	3,706.24	3,617.03	89.21	41.544	
7,300.00	4,237.05	3,962.00	3,961.91	39.54	71.03	-82.99	177.17	-298.05	3,800.37	3,711.08	89.29	42.563	
7,400.00	4,239.91	3,962.00	3,961.91	40.58	71.03	-82.99	177.17	-298.05	3,894.79	3,805.43	89.36	43.584	
7,500.00	4,242.77	3,962.00	3,961.91	41.62	71.03	-82.99	177.17	-298.05	3,989.48	3,900.04	89.44	44.607	
7,600.00	4,245.63	3,962.00	3,961.91	42.66	71.03	-82.99	177.17	-298.05	4,084.42	3,994.92	89.51	45.632	
7,700.00	4,248.49	3,962.00	3,961.91	43.71	71.03	-82.99	177.17	-298.05	4,179.60	4,090.03	89.58	46.659	
7,800.00	4,251.35	3,962.00	3,961.91	44.77	71.03	-82.99	177.17	-298.05	4,275.00	4,185.36	89.65	47.687	
7,900.00	4,254.21	3,962.00	3,961.91	45.82	71.03	-82.99	177.17	-298.05	4,370.61	4,280.89	89.72	48.716	
8,000.00	4,257.07	3,962.00	3,961.91	46.89	71.03	-82.99	177.17	-298.05	4,466.41	4,376.62	89.78	49.747	
8,100.00	4,259.93	3,962.00	3,961.91	47.95	71.03	-82.99	177.17	-298.05	4,562.38	4,472.53	89.85	50.778	
8,200.00	4,262.79	3,962.00	3,961.91	49.02	71.03	-82.99	177.17	-298.05	4,658.53	4,568.62	89.92	51.810	
8,300.00	4,265.65	3,962.00	3,961.91	50.08	71.03	-82.99	177.17	-298.05	4,754.84	4,664.86	89.98	52.842	
8,400.00	4,268.51	3,962.00	3,961.91	51.16	71.03	-82.99	177.17	-298.05	4,851.29	4,761.25	90.05	53.875	
8,500.00	4,271.37	3,962.00	3,961.91	52.23	71.03	-82.99	177.17	-298.05	4,947.89	4,857.78	90.11	54.908	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: STATE GAS COM B 1 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 300-UNKNOWN													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	81.99	81.99	0.00	3.28	83.22	467.67	3,933.40	3,961.10					
100.00	100.00	181.99	181.99	0.29	7.28	83.22	467.67	3,933.40	3,961.10	3,953.54	7.57	523.501		
200.00	200.00	281.99	281.99	0.65	11.28	83.22	467.67	3,933.40	3,961.10	3,949.18	11.92	332.169		
300.00	300.00	381.99	381.99	1.00	15.28	83.22	467.67	3,933.40	3,961.10	3,944.82	16.28	243.260		
400.00	399.98	481.97	481.97	1.35	19.28	-99.04	467.67	3,933.40	3,961.38	3,940.75	20.62	192.072		
500.00	499.84	581.83	581.83	1.69	23.27	-99.10	467.67	3,933.40	3,962.21	3,937.25	24.96	158.774		
600.00	599.45	681.44	681.44	2.04	27.26	-99.20	467.67	3,933.40	3,963.60	3,934.31	29.29	135.343		
700.00	698.70	780.69	780.69	2.39	31.23	-99.33	467.67	3,933.40	3,965.57	3,931.96	33.61	117.990		
800.00	797.47	879.46	879.46	2.74	35.18	-99.50	467.67	3,933.40	3,968.16	3,930.24	37.92	104.643		
900.00	895.62	977.62	977.62	3.11	39.10	-99.70	467.67	3,933.40	3,971.40	3,929.19	42.22	94.073		
1,000.00	993.06	1,075.05	1,075.05	3.49	43.00	-99.94	467.67	3,933.40	3,975.34	3,928.85	46.49	85.509		
1,100.00	1,089.64	1,171.64	1,171.64	3.88	46.87	-100.20	467.67	3,933.40	3,980.02	3,929.28	50.74	78.440		
1,200.00	1,185.27	1,267.26	1,267.26	4.28	50.69	-100.49	467.67	3,933.40	3,985.50	3,930.54	54.96	72.515		
1,300.00	1,279.82	1,361.81	1,361.81	4.68	54.47	-100.80	467.67	3,933.40	3,991.84	3,932.69	59.15	67.488		
1,400.00	1,373.80	1,455.79	1,455.79	5.10	58.23	-101.25	467.67	3,933.40	3,998.78	3,935.45	63.32	63.149		
1,500.00	1,467.79	1,549.78	1,549.78	5.53	61.99	-101.70	467.67	3,933.40	4,005.99	3,938.49	67.50	59.348		
1,600.00	1,561.77	1,643.76	1,643.76	5.95	65.75	-102.15	467.67	3,933.40	4,013.48	3,941.80	71.68	55.990		
1,700.00	1,655.76	1,737.75	1,737.75	6.38	69.51	-102.60	467.67	3,933.40	4,021.25	3,945.38	75.87	53.005		
1,800.00	1,749.74	1,831.73	1,831.73	6.82	73.27	-103.05	467.67	3,933.40	4,029.29	3,949.24	80.05	50.334		
1,900.00	1,843.73	1,925.72	1,925.72	7.25	77.03	-103.49	467.67	3,933.40	4,037.60	3,953.37	84.24	47.931		
2,000.00	1,937.71	2,019.70	2,019.70	7.69	80.79	-103.94	467.67	3,933.40	4,046.19	3,957.76	88.42	45.758		
2,100.00	2,031.70	2,113.69	2,113.69	8.13	84.55	-104.38	467.67	3,933.40	4,055.04	3,962.43	92.61	43.785		
2,200.00	2,125.68	2,207.67	2,207.67	8.57	88.31	-104.82	467.67	3,933.40	4,064.17	3,967.37	96.80	41.984		
2,300.00	2,219.67	2,301.66	2,301.66	9.01	92.07	-105.26	467.67	3,933.40	4,073.56	3,972.57	100.99	40.336		
2,400.00	2,313.65	2,395.64	2,395.64	9.45	95.83	-105.70	467.67	3,933.40	4,083.21	3,978.03	105.18	38.821		
2,500.00	2,407.64	2,489.63	2,489.63	9.89	99.59	-106.13	467.67	3,933.40	4,093.12	3,983.76	109.37	37.425		
2,600.00	2,501.62	2,583.61	2,583.61	10.33	103.34	-106.56	467.67	3,933.40	4,103.30	3,989.74	113.56	36.134		
2,700.00	2,595.61	2,677.60	2,677.60	10.78	107.10	-106.99	467.67	3,933.40	4,113.74	3,995.99	117.75	34.937		
2,800.00	2,689.59	2,771.58	2,771.58	11.22	110.86	-107.42	467.67	3,933.40	4,124.43	4,002.49	121.93	33.825		
2,900.00	2,783.58	2,865.57	2,865.57	11.67	114.62	-107.85	467.67	3,933.40	4,135.37	4,009.25	126.12	32.789		
3,000.00	2,877.56	2,959.55	2,959.55	12.11	118.38	-108.27	467.67	3,933.40	4,146.57	4,016.26	130.31	31.821		
3,100.00	2,971.55	3,053.54	3,053.54	12.56	122.14	-108.70	467.67	3,933.40	4,158.02	4,023.52	134.50	30.916		
3,200.00	3,065.53	3,147.52	3,147.52	13.00	125.90	-109.12	467.67	3,933.40	4,169.71	4,031.03	138.68	30.067		
3,300.00	3,159.52	3,241.51	3,241.51	13.45	129.66	-109.54	467.67	3,933.40	4,181.66	4,038.79	142.87	29.270		
3,400.00	3,253.50	3,335.50	3,335.50	13.89	133.42	-109.95	467.67	3,933.40	4,193.84	4,046.79	147.05	28.520		
3,500.00	3,347.49	3,429.48	3,429.48	14.34	137.18	-110.37	467.67	3,933.40	4,206.27	4,055.04	151.23	27.813		
3,600.00	3,441.72	3,523.71	3,523.71	14.78	140.95	-90.38	467.67	3,933.40	4,213.25	4,057.82	155.42	27.108		
3,700.00	3,535.44	3,617.43	3,617.43	15.20	144.70	-70.38	467.67	3,933.40	4,206.70	4,047.11	159.59	26.360		
3,800.00	3,626.82	3,708.81	3,708.81	15.58	148.35	-56.19	467.67	3,933.40	4,186.72	4,023.08	163.64	25.585		
3,900.00	3,714.08	3,796.08	3,796.08	15.92	151.84	-47.24	467.67	3,933.40	4,153.74	3,986.24	167.50	24.798		
4,000.00	3,795.54	3,877.53	3,877.53	16.21	155.10	-41.92	467.67	3,933.40	4,108.40	3,937.30	171.10	24.012		
4,100.00	3,869.59	3,951.58	3,951.58	16.47	158.06	-39.11	467.67	3,933.40	4,051.57	3,877.21	174.37	23.236		
4,200.00	3,934.81	4,016.80	4,016.80	16.69	160.67	-38.26	467.67	3,933.40	3,984.36	3,807.12	177.25	22.479		
4,300.00	3,989.92	4,071.91	4,071.91	16.87	162.88	-39.25	467.67	3,933.40	3,908.05	3,728.36	179.69	21.749		
4,400.00	4,039.92	4,121.91	4,121.91	17.04	164.88	-39.93	467.67	3,933.40	3,828.02	3,646.13	181.89	21.045		
4,500.00	4,089.91	4,171.90	4,171.90	17.24	166.88	-40.88	467.67	3,933.40	3,748.28	3,564.17	184.11	20.359		
4,600.00	4,131.66	4,213.65	4,213.65	17.48	168.55	-52.57	467.67	3,933.40	3,665.08	3,479.06	186.01	19.703		
4,700.00	4,157.02	4,239.02	4,239.02	17.78	169.56	-69.61	467.67	3,933.40	3,576.89	3,389.64	187.25	19.102		
4,800.00	4,165.55	4,247.54	4,247.54	18.13	169.90	-86.50	467.67	3,933.40	3,486.50	3,298.68	187.81	18.564		
4,900.00	4,168.41	4,250.40	4,250.40	18.55	170.02	-86.61	467.67	3,933.40	3,396.23	3,208.07	188.16	18.050		
5,000.00	4,171.27	4,253.26	4,253.26	19.06	170.13	-86.72	467.67	3,933.40	3,306.52	3,117.98	188.54	17.538		
5,100.00	4,174.13	4,256.12	4,256.12	19.64	170.24	-86.83	467.67	3,933.40	3,217.41	3,028.47	188.94	17.029		

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: STATE GAS COM B 1 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 300-UNKNOWN													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N-S (usft)	+E-W (usft)						
5,200.00	4,176.99	4,258.98	4,258.98	20.28	170.36	-86.95	467.67	3,933.40	3,128.96	2,939.59	189.38	16.522		
5,300.00	4,179.85	4,261.84	4,261.84	20.97	170.47	-87.06	467.67	3,933.40	3,041.22	2,851.38	189.85	16.019		
5,400.00	4,182.71	4,264.70	4,264.70	21.70	170.59	-87.17	467.67	3,933.40	2,954.26	2,763.91	190.36	15.520		
5,500.00	4,185.57	4,267.56	4,267.56	22.47	170.70	-87.28	467.67	3,933.40	2,868.15	2,677.24	190.91	15.024		
5,600.00	4,188.43	4,270.42	4,270.42	23.28	170.82	-87.39	467.67	3,933.40	2,782.96	2,591.46	191.50	14.532		
5,700.00	4,191.29	4,273.28	4,273.28	24.11	170.93	-87.50	467.67	3,933.40	2,698.78	2,506.64	192.14	14.046		
5,800.00	4,194.15	4,276.14	4,276.14	24.97	171.05	-87.61	467.67	3,933.40	2,615.72	2,422.88	192.84	13.564		
5,900.00	4,197.01	4,279.00	4,279.00	25.85	171.16	-87.72	467.67	3,933.40	2,533.88	2,340.29	193.59	13.089		
6,000.00	4,199.87	4,281.86	4,281.86	26.75	171.27	-87.83	467.67	3,933.40	2,453.38	2,258.98	194.39	12.621		
6,100.00	4,202.73	4,284.72	4,284.72	27.66	171.39	-87.94	467.67	3,933.40	2,374.36	2,179.09	195.27	12.160		
6,200.00	4,205.59	4,287.58	4,287.58	28.60	171.50	-88.05	467.67	3,933.40	2,296.97	2,100.77	196.20	11.707		
6,300.00	4,208.45	4,290.44	4,290.44	29.54	171.62	-88.16	467.67	3,933.40	2,221.38	2,024.17	197.21	11.264		
6,400.00	4,211.31	4,293.30	4,293.30	30.50	171.73	-88.27	467.67	3,933.40	2,147.79	1,949.50	198.29	10.832		
6,500.00	4,214.17	4,296.16	4,296.16	31.47	171.85	-88.38	467.67	3,933.40	2,076.40	1,876.96	199.44	10.411		
6,600.00	4,217.03	4,299.02	4,299.02	32.45	171.96	-88.49	467.67	3,933.40	2,007.45	1,806.79	200.66	10.004		
6,700.00	4,219.89	4,301.88	4,301.88	33.44	172.08	-88.60	467.67	3,933.40	1,941.21	1,739.25	201.96	9.612		
6,800.00	4,222.75	4,304.74	4,304.74	34.44	172.19	-88.72	467.67	3,933.40	1,877.94	1,674.62	203.33	9.236		
6,900.00	4,225.61	4,307.60	4,307.60	35.45	172.30	-88.83	467.67	3,933.40	1,817.98	1,613.22	204.76	8.878		
7,000.00	4,228.47	4,310.46	4,310.46	36.46	172.42	-88.94	467.67	3,933.40	1,761.65	1,555.40	206.25	8.541		
7,100.00	4,231.33	4,313.32	4,313.32	37.48	172.53	-89.05	467.67	3,933.40	1,709.32	1,501.52	207.79	8.226		
7,200.00	4,234.19	4,316.18	4,316.18	38.51	172.65	-89.16	467.67	3,933.40	1,661.35	1,451.99	209.36	7.935		
7,300.00	4,237.05	4,319.04	4,319.04	39.54	172.76	-89.27	467.67	3,933.40	1,618.15	1,407.21	210.94	7.671		
7,400.00	4,239.91	4,321.90	4,321.90	40.58	172.88	-89.38	467.67	3,933.40	1,580.09	1,367.59	212.51	7.435		
7,500.00	4,242.77	4,324.76	4,324.76	41.62	172.99	-89.49	467.67	3,933.40	1,547.57	1,333.53	214.04	7.230		
7,600.00	4,245.63	4,327.62	4,327.62	42.66	173.10	-89.60	467.67	3,933.40	1,520.93	1,305.44	215.50	7.058		
7,700.00	4,248.49	4,330.48	4,330.48	43.71	173.22	-89.71	467.67	3,933.40	1,500.50	1,283.63	216.86	6.919		
7,800.00	4,251.35	4,333.34	4,333.34	44.77	173.33	-89.82	467.67	3,933.40	1,486.51	1,268.41	218.10	6.816		
7,900.00	4,254.21	4,336.20	4,336.20	45.82	173.45	-89.93	467.67	3,933.40	1,479.17	1,259.98	219.19	6.748		
7,959.02	4,255.90	4,337.89	4,337.89	46.45	173.52	-90.00	467.67	3,933.40	1,477.99	1,258.24	219.75	6.726 CC, ES		
8,000.00	4,257.07	4,339.06	4,339.06	46.89	173.56	-90.05	467.67	3,933.40	1,478.56	1,258.45	220.10	6.718 SF		
8,100.00	4,259.93	4,341.92	4,341.92	47.95	173.68	-90.16	467.67	3,933.40	1,484.69	1,263.86	220.84	6.723		
8,200.00	4,262.79	4,344.78	4,344.78	49.02	173.79	-90.27	467.67	3,933.40	1,497.49	1,276.11	221.38	6.764		
8,300.00	4,265.65	4,347.64	4,347.64	50.08	173.91	-90.38	467.67	3,933.40	1,516.78	1,295.04	221.74	6.840		
8,400.00	4,268.51	4,350.50	4,350.50	51.16	174.02	-90.49	467.67	3,933.40	1,542.32	1,320.40	221.93	6.950		
8,500.00	4,271.37	4,353.36	4,353.36	52.23	174.13	-90.60	467.67	3,933.40	1,573.81	1,351.86	221.95	7.091		
8,600.00	4,274.23	4,356.22	4,356.22	53.31	174.25	-90.71	467.67	3,933.40	1,610.89	1,389.05	221.84	7.262		
8,700.00	4,277.09	4,359.08	4,359.08	54.38	174.36	-90.82	467.67	3,933.40	1,653.20	1,431.59	221.61	7.460		
8,800.00	4,279.95	4,361.94	4,361.94	55.47	174.48	-90.93	467.67	3,933.40	1,700.33	1,479.05	221.29	7.684		
8,900.00	4,282.81	4,364.80	4,364.80	56.55	174.59	-91.04	467.67	3,933.40	1,751.91	1,531.02	220.89	7.931		
9,000.00	4,285.67	4,367.66	4,367.66	57.63	174.71	-91.15	467.67	3,933.40	1,807.54	1,587.11	220.43	8.200		
9,100.00	4,288.53	4,370.52	4,370.52	58.72	174.82	-91.26	467.67	3,933.40	1,866.88	1,646.94	219.94	8.488		
9,200.00	4,291.39	4,373.38	4,373.38	59.80	174.94	-91.38	467.67	3,933.40	1,929.57	1,710.15	219.42	8.794		
9,300.00	4,294.25	4,376.24	4,376.24	60.89	175.05	-91.49	467.67	3,933.40	1,995.30	1,776.40	218.90	9.115		
9,400.00	4,297.11	4,379.10	4,379.10	61.98	175.16	-91.60	467.67	3,933.40	2,063.78	1,845.42	218.36	9.451		
9,500.00	4,299.97	4,381.96	4,381.96	63.07	175.28	-91.71	467.67	3,933.40	2,134.75	1,916.91	217.84	9.800		
9,600.00	4,302.83	4,384.82	4,384.82	64.16	175.39	-91.82	467.67	3,933.40	2,207.96	1,990.64	217.32	10.160		
9,700.00	4,305.69	4,387.68	4,387.68	65.26	175.51	-91.93	467.67	3,933.40	2,283.20	2,066.38	216.82	10.530		
9,800.00	4,308.55	4,390.54	4,390.54	66.35	175.62	-92.04	467.67	3,933.40	2,360.28	2,143.93	216.34	10.910		
9,850.70	4,310.00	4,391.99	4,391.99	66.91	175.68	-92.10	467.67	3,933.40	2,400.00	2,183.89	216.11	11.106		

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: STATE GAS COM V 1 - Wellbore #1 - Wellbore #1													Offset Site Error:
Survey Program: 395-INC-ONLY													0.00 usft
Rule Assigned:													Offset Well Error:
													0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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
0.00	0.00	0.00	0.00	0.00	0.00	-131.70	-377.31	-423.50	567.20	567.20	2.51	225.551	
100.00	100.00	99.99	99.99	0.29	2.23	-131.70	-377.31	-423.50	567.20	564.68	5.10	111.187	
200.00	200.00	199.99	199.99	0.65	4.46	-131.70	-377.31	-423.50	567.20	562.10	7.69	73.778	
300.00	300.00	299.99	299.99	1.00	6.68	-131.70	-377.31	-423.50	567.20	559.51	10.26	55.174	
400.00	399.98	400.00	399.97	1.35	8.91	46.20	-377.31	-423.50	565.99	555.73	12.81	43.898	
500.00	499.84	499.86	499.83	1.69	11.13	46.64	-377.31	-423.50	562.38	549.57	15.37	36.208	
600.00	599.45	599.48	599.44	2.04	13.34	47.38	-377.31	-423.50	556.42	541.06	17.90	30.572	
700.00	698.70	697.99	697.94	2.39	15.52	48.54	-375.98	-423.50	547.38	529.47	20.42	26.311	
800.00	797.47	795.42	795.36	2.74	17.68	49.88	-376.40	-423.50	537.35	516.93	22.94	22.917	
900.00	895.62	892.43	892.36	3.11	19.83	51.55	-377.22	-423.50	525.65	502.71	25.37	20.174	
1,000.00	993.06	993.18	993.05	3.49	21.90	53.76	-377.31	-423.50	511.83	486.46	27.71	17.923	
1,100.00	1,089.64	1,089.76	1,089.64	3.88	23.86	56.37	-377.31	-423.50	496.66	468.95	30.04	15.978	
1,200.00	1,185.27	1,185.39	1,185.25	4.28	25.80	59.58	-376.07	-423.50	480.02	449.98	32.36	14.335	
1,300.00	1,279.82	1,279.36	1,279.22	4.68	27.71	63.16	-376.21	-423.50	463.81	431.45	34.67	12.944	
1,400.00	1,373.80	1,372.98	1,372.83	5.10	29.61	66.80	-376.61	-423.50	448.79	414.12	37.00	11.781	
1,500.00	1,467.79	1,466.80	1,466.64	5.53	31.52	70.62	-377.29	-423.50	435.96	398.95	39.38	10.798	
1,600.00	1,561.77	1,561.96	1,561.76	5.95	33.46	74.77	-377.31	-423.50	425.22	385.84	41.74	9.989	
1,700.00	1,655.76	1,655.86	1,655.66	6.38	35.37	79.10	-376.81	-423.50	416.93	375.19	44.10	9.331	
1,800.00	1,749.74	1,749.77	1,749.57	6.82	37.29	83.45	-377.11	-423.50	411.46	367.36	46.46	8.797	
1,900.00	1,843.73	1,843.95	1,843.72	7.25	39.21	87.91	-377.31	-423.50	408.73	362.27	47.55	8.589 CC	
1,946.40	1,887.34	1,887.56	1,887.33	7.45	40.10	90.00	-377.31	-423.50	408.42	360.87	48.81	8.375 ES	
2,000.00	1,937.71	1,937.94	1,937.70	7.69	41.13	92.41	-377.31	-423.50	408.83	360.02	51.16	8.050	
2,100.00	2,031.70	2,032.19	2,031.95	8.13	43.05	96.97	-376.69	-423.50	411.88	360.72	53.51	7.803	
2,200.00	2,125.68	2,126.82	2,126.57	8.57	44.98	101.32	-377.27	-423.50	417.51	364.01	55.81	7.631	
2,300.00	2,219.67	2,219.93	2,219.66	9.01	46.88	105.53	-377.31	-423.50	425.90	370.09	58.11	7.517	
2,400.00	2,313.65	2,313.92	2,313.64	9.45	48.80	109.62	-377.31	-423.50	436.82	378.71	60.40	7.457	
2,500.00	2,407.64	2,408.07	2,407.79	9.89	50.72	113.61	-376.52	-423.50	450.43	390.03	62.70	7.429 SF	
2,600.00	2,501.62	2,502.70	2,502.42	10.33	52.66	117.28	-376.71	-423.50	465.76	403.07	64.98	7.431	
2,700.00	2,595.61	2,597.50	2,597.21	10.78	54.59	120.71	-377.15	-423.50	482.86	417.88	67.10	7.479	
2,800.00	2,689.59	2,689.92	2,689.58	11.22	56.37	123.86	-377.31	-423.50	501.81	434.72	69.19	7.550	
2,900.00	2,783.58	2,783.90	2,783.57	11.67	58.13	126.85	-377.31	-423.50	522.40	453.21	71.28	7.646	
3,000.00	2,877.56	2,878.12	2,877.78	12.11	59.90	129.71	-376.28	-423.50	545.07	473.78	73.40	7.740	
3,100.00	2,971.55	2,973.58	2,973.24	12.56	61.69	132.30	-376.50	-423.50	568.10	494.70	75.53	7.838	
3,200.00	3,065.53	3,069.30	3,068.94	13.00	63.48	134.68	-377.07	-423.50	591.94	516.41	77.40	7.970	
3,300.00	3,159.52	3,159.87	3,159.51	13.45	65.05	136.78	-377.31	-423.50	616.91	539.51	79.28	8.110	
3,400.00	3,253.50	3,253.86	3,253.50	13.89	66.60	138.81	-377.31	-423.50	642.91	563.63	81.15	8.252	
3,500.00	3,347.49	3,347.84	3,347.48	14.34	68.15	140.69	-377.31	-423.50	669.64	588.49	83.04	8.424	
3,600.00	3,441.72	3,442.08	3,441.72	14.78	69.71	164.45	-376.94	-423.50	699.49	616.46	84.92	8.644	
3,700.00	3,535.44	3,536.17	3,535.80	15.20	71.27	-172.12	-376.97	-423.50	734.08	649.15	86.76	8.908	
3,800.00	3,626.82	3,627.94	3,627.57	15.58	72.79	-154.95	-377.05	-423.50	772.91	686.14	88.52	9.215	
3,900.00	3,714.08	3,715.60	3,715.23	15.92	74.24	-143.24	-377.18	-423.50	815.76	727.24	90.15	9.570	
4,000.00	3,795.54	3,795.90	3,795.53	16.21	75.58	-134.97	-377.31	-423.50	862.79	772.63	91.73	9.968	
4,100.00	3,869.59	3,869.95	3,869.58	16.47	76.88	-128.66	-377.31	-423.50	914.37	822.64	93.12	10.423	
4,200.00	3,934.81	3,935.17	3,934.80	16.69	78.02	-123.20	-377.31	-423.50	970.61	877.49	94.32	10.937	
4,300.00	3,989.92	3,990.28	3,989.91	16.87	78.99	-118.07	-377.31	-423.50	1,031.54	937.22	95.40	11.491	
4,400.00	4,039.92	4,040.28	4,039.91	17.04	79.87	-120.74	-377.31	-423.50	1,096.32	1,000.92	96.48	12.064	
4,500.00	4,089.91	4,090.27	4,089.90	17.24	80.75	-123.04	-377.31	-423.50	1,163.95	1,067.47	97.39	12.705	
4,600.00	4,131.66	4,132.02	4,131.66	17.48	81.48	-115.92	-377.31	-423.50	1,237.33	1,139.94	97.96	13.452	
4,700.00	4,157.02	4,157.39	4,157.02	17.78	81.93	-104.90	-377.31	-423.50	1,317.84	1,219.88	98.19	14.287	
4,800.00	4,165.55	4,165.91	4,165.54	18.13	82.08	-92.81	-377.31	-423.50	1,402.92	1,304.72	98.31	15.158	
4,900.00	4,168.41	4,168.77	4,168.40	18.55	82.13	-93.05	-377.31	-423.50	1,490.17	1,391.86	98.42	16.043	
5,000.00	4,171.27	4,171.63	4,171.26	19.06	82.18	-93.28	-377.31	-423.50	1,578.92	1,480.51			

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Offset Design: SMITHDALE 29 FEDERAL - OFFSET: STATE GAS COM V 1 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program: 395-INC-ONLY												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
+N/-S (usft)	+E/-W (usft)	Between Ellipses (usft)	Between Centres (usft)	Ellipses (usft)	Centres (usft)	Minimum Separation (usft)	Separation Factor	Warning					
5,100.00	4,174.13	4,174.49	4,174.12	19.64	82.23	-93.51	-377.31	-423.50	1,668.95	1,570.42	98.52	16.940	
5,200.00	4,176.99	4,177.35	4,176.98	20.28	82.28	-93.74	-377.31	-423.50	1,760.04	1,661.42	98.62	17.846	
5,300.00	4,179.85	4,180.21	4,179.84	20.97	82.33	-93.97	-377.31	-423.50	1,852.05	1,753.33	98.72	18.760	
5,400.00	4,182.71	4,183.07	4,182.70	21.70	82.38	-94.20	-377.31	-423.50	1,944.85	1,846.02	98.82	19.680	
5,500.00	4,185.57	4,185.93	4,185.56	22.47	82.43	-94.43	-377.31	-423.50	2,038.32	1,939.40	98.92	20.606	
5,600.00	4,188.43	4,188.79	4,188.42	23.28	82.48	-94.66	-377.31	-423.50	2,132.38	2,033.37	99.01	21.537	
5,700.00	4,191.29	4,191.65	4,191.28	24.11	82.53	-94.89	-377.31	-423.50	2,226.96	2,127.85	99.11	22.471	
5,800.00	4,194.15	4,194.51	4,194.14	24.97	82.58	-95.12	-377.31	-423.50	2,321.98	2,222.78	99.20	23.408	
5,900.00	4,197.01	4,197.37	4,197.00	25.85	82.63	-95.35	-377.31	-423.50	2,417.41	2,318.12	99.29	24.347	
6,000.00	4,199.87	4,200.23	4,199.86	26.75	82.68	-95.58	-377.31	-423.50	2,513.18	2,413.80	99.38	25.289	
6,100.00	4,202.73	4,203.09	4,202.72	27.66	82.73	-95.81	-377.31	-423.50	2,609.27	2,509.80	99.47	26.232	
6,200.00	4,205.59	4,205.95	4,205.58	28.60	82.78	-96.04	-377.31	-423.50	2,705.64	2,606.08	99.56	27.176	
6,300.00	4,208.45	4,208.81	4,208.44	29.54	82.83	-96.27	-377.31	-423.50	2,802.27	2,702.62	99.65	28.121	
6,400.00	4,211.31	4,211.67	4,211.30	30.50	82.88	-96.50	-377.31	-423.50	2,899.11	2,799.37	99.74	29.067	
6,500.00	4,214.17	4,214.53	4,214.16	31.47	82.93	-96.73	-377.31	-423.50	2,996.17	2,896.34	99.83	30.013	
6,600.00	4,217.03	4,217.39	4,217.02	32.45	82.98	-96.96	-377.31	-423.50	3,093.41	2,993.49	99.92	30.959	
6,700.00	4,219.89	4,220.26	4,219.89	33.44	83.03	-97.19	-376.83	-423.50	3,190.91	3,090.90	100.01	31.906	
6,800.00	4,222.75	4,223.13	4,222.76	34.44	83.08	-97.41	-376.83	-423.50	3,288.47	3,188.36	100.10	32.851	
6,900.00	4,225.61	4,226.00	4,225.63	35.45	83.13	-97.64	-376.83	-423.50	3,386.16	3,285.97	100.19	33.797	
7,000.00	4,228.47	4,228.87	4,228.49	36.46	83.18	-97.87	-376.83	-423.50	3,483.99	3,383.70	100.28	34.741	
7,100.00	4,231.33	4,231.73	4,231.36	37.48	83.23	-98.10	-376.83	-423.50	3,581.93	3,481.55	100.37	35.685	
7,200.00	4,234.19	4,234.60	4,234.23	38.51	83.28	-98.33	-376.83	-423.50	3,679.98	3,579.51	100.47	36.629	
7,300.00	4,237.05	4,237.47	4,237.10	39.54	83.33	-98.56	-376.83	-423.50	3,778.13	3,677.57	100.56	37.571	
7,400.00	4,239.91	4,240.34	4,239.97	40.58	83.38	-98.78	-376.83	-423.50	3,876.37	3,775.72	100.65	38.512	
7,500.00	4,242.77	4,243.21	4,242.84	41.62	83.43	-99.01	-376.83	-423.50	3,974.70	3,873.96	100.75	39.453	
7,600.00	4,245.63	4,246.08	4,245.71	42.66	83.48	-99.24	-376.84	-423.50	4,073.11	3,972.27	100.84	40.392	
7,700.00	4,248.49	4,248.95	4,248.58	43.71	83.53	-99.46	-376.84	-423.50	4,171.59	4,070.66	100.94	41.329	
7,800.00	4,251.35	4,251.82	4,251.45	44.77	83.58	-99.69	-376.84	-423.50	4,270.14	4,169.11	101.03	42.266	
7,900.00	4,254.21	4,254.69	4,254.32	45.82	83.63	-99.92	-376.84	-423.50	4,368.76	4,267.63	101.13	43.201	
8,000.00	4,257.07	4,257.55	4,257.18	46.89	83.68	-100.14	-376.84	-423.50	4,467.43	4,366.21	101.22	44.135	
8,100.00	4,259.93	4,260.42	4,260.05	47.95	83.73	-100.37	-376.84	-423.50	4,566.16	4,464.84	101.32	45.067	
8,200.00	4,262.79	4,263.29	4,262.92	49.02	83.79	-100.59	-376.84	-423.50	4,664.95	4,563.53	101.42	45.997	
8,300.00	4,265.65	4,266.16	4,265.79	50.08	83.84	-100.82	-376.84	-423.50	4,763.78	4,662.26	101.52	46.926	
8,400.00	4,268.51	4,269.03	4,268.66	51.16	83.89	-101.04	-376.84	-423.50	4,862.66	4,761.04	101.62	47.853	
8,500.00	4,271.37	4,271.90	4,271.53	52.23	83.94	-101.26	-376.84	-423.50	4,961.58	4,859.86	101.72	48.779	

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB = 20' @ 3634.00usft (AKITA 57) Coordinates are relative to: 71H

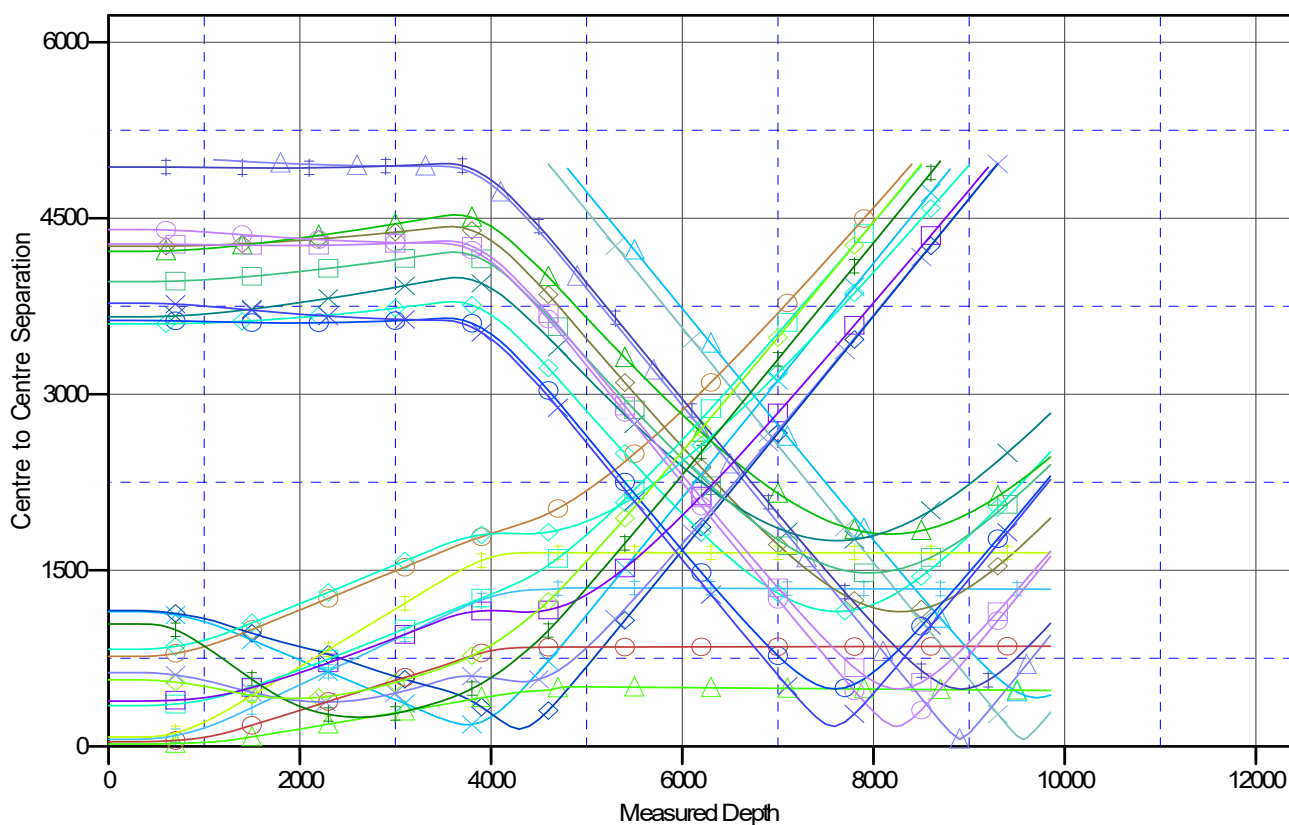
Offset Depths are relative to Offset Datum

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Central Meridian is -104.33334

Grid Convergence at Surface is: 0.07°

Ladder Plot



LEGEND

FFSET: OULAW STATE 9, Wellbore #1, Wellbore #1 V0
FFSET: OULAW STATE 1, Wellbore #1, Wellbore #1 V0
FFSET: OULAW STATE 4, Wellbore #1, Wellbore #1 V0
71H, OH, PERMIT V0
FFSET: ANTHONY 2, Wellbore #1, Wellbore #1 V0
FFSET: OULAW STATE 3, Wellbore #1, Wellbore #1 V0
FFSET: STALEY STATE 25, Wellbore #1, Wellbore #1 V0
FFSET: OULAW STATE 10, Wellbore #1, Wellbore #1 V0
FFSET: ANTHONY 1, Wellbore #1, Wellbore #1 V0

FFSET: ANTHONY STATE 3, Wellbore #1, Wellbore #1 V0
FFSET: OULAW STATE 11, Wellbore #1, Wellbore #1 V0
FFSET: OULAW STATE 12, Wellbore #1, Wellbore #1 V0
70H, OH, PERMIT V0
FFSET: STALEY STATE 7, Wellbore #1, Wellbore #1 V0
91H, OH, PERMIT V0
50H, OH, PERMIT V0
FFSET: OULAW STATE 2, Wellbore #1, Wellbore #1 V0
FFSET: STAE GAS COM B 1, Wellbore #1, Wellbore #1 V0

FFSET: OULAW STATE 7, Wellbore #1, Wellbore #1 V0
FFSET: STALEY STATE 3, Wellbore #1, Wellbore #1 V0
FFSET: STALEY STATE 21, Wellbore #1, Wellbore #1 V0
FFSET: ANTHONY STATE 4, PLANNED DEV SURVEY, PLANNED DEV S
FFSET: OULAW STATE 8, Wellbore #1, Wellbore #1 V0
FFSET: STAE GAS COM V 1, Wellbore #1, Wellbore #1 V0
FFSET: OULAW STATE 6, Wellbore #1, Wellbore #1 V0
FFSET: OULAW STATE 5, Wellbore #1, Wellbore #1 V0

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

Anticollision Report

Company:	SPUR ENERGY PARTNERS, LLC	Local Co-ordinate Reference:	Well 71H
Project:	EDDY COUNTY, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Reference Site:	SMITHDALE 29 FEDERAL	MD Reference:	RKB = 20' @ 3634.00usft (AKITA 57)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	71H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.17 Single User Db
Reference Design:	PERMIT	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB = 20' @ 3634.00usft (AKITA 57) Coordinates are relative to: 71H

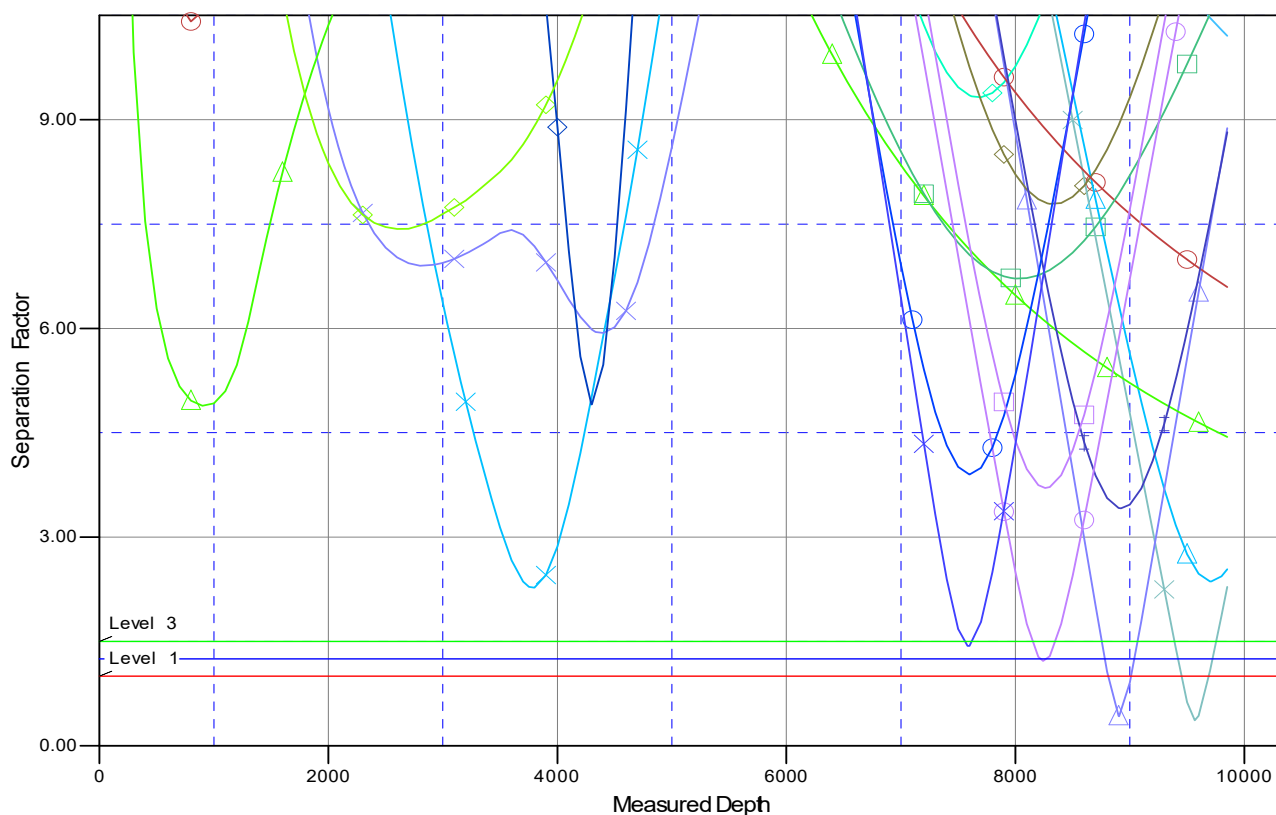
Offset Depths are relative to Offset Datum

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Central Meridian is -104.33334

Grid Convergence at Surface is: 0.07°

Separation Factor Plot



LEGEND

FFSET: OULAW STATE 9, Wellbore #1, Wellbore #1 V0
FFSET: OULAW STATE 1, Wellbore #1, Wellbore #1 V0
FFSET: OULAW STATE 4, Wellbore #1, Wellbore #1 V0
71H, OH, PERMIT V0
FFSET: ANTHONY 2, Wellbore #1, Wellbore #1 V0
FFSET: OULAW STATE 3, Wellbore #1, Wellbore #1 V0
FFSET: STALEY STATE 25, Wellbore #1, Wellbore #1 V0
FFSET: OULAW STATE 10, Wellbore #1, Wellbore #1 V0
FFSET: ANTHONY 1, Wellbore #1, Wellbore #1 V0

FFSET: ANTHONY STATE 3, Wellbore #1, Wellbore #1 V0
FFSET: OULAW STATE 11, Wellbore #1, Wellbore #1 V0
FFSET: OULAW STATE12, Wellbore #1, Wellbore #1 V0
71H, OH, PERMIT V0
FFSET: STALEY STATE 7, Wellbore #1, Wellbore #1 V0
91H, OH, PERMIT V0
50H, OH, PERMIT V0
FFSET: OULAW STATE 2, Wellbore #1, Wellbore #1 V0
FFSET: STAE GAS COM B 1, Wellbore #1, Wellbore #1 V0

FFSET: OULAW STATE 7, Wellbore #1, Wellbore #1 V0
FFSET: STALEY STATE 3, Wellbore #1, Wellbore #1 V0
FFSET: STALEY STATE 21, Wellbore #1, Wellbore #1 V0
FFSET: ANTHONY STATE 4, PLANNED DEV SURVEY, PLANNED DEV S
FFSET: OULAW STATE 8, Wellbore #1, Wellbore #1 V0
FFSET: STAE GAS COM V 1, Wellbore #1, Wellbore #1 V0
FFSET: OULAW STATE 6, Wellbore #1, Wellbore #1 V0
FFSET: OULAW STATE 5, Wellbore #1, Wellbore #1 V0

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

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COMPASS 5000.17 Build 06



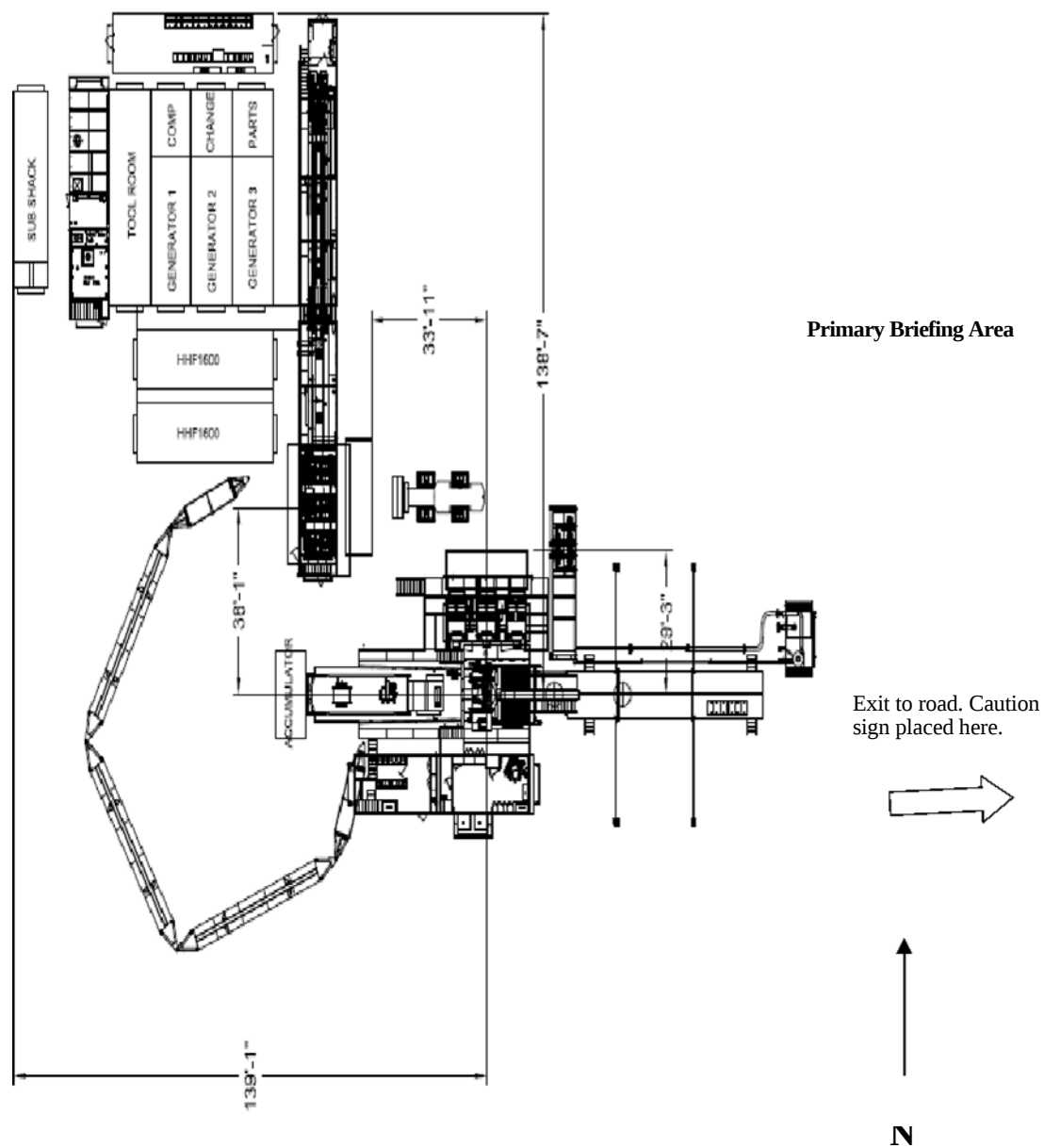
Permian Drilling Hydrogen Sulfide Drilling Operations Plan Smithdale 29 Federal Com Development

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

1. Escape

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

Secondary Briefing Area



WIND: Prevailing winds are from the Southwest

Secondary Egress

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 H₂S 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 (H₂S).

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. H₂S 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 H₂S 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 H₂S 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 H₂S gas

If a spill or leak releases H₂S 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 H₂S 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 H₂S 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 Sherri's Department	Eunice	575-384-2020
Lea County Sherri's Department	Hobbs	575-393-2515
Lea County Sherri'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	IVAR THE BONELESS FED 11H - BATTERY
FIRECRACKER STATE TB	JC FEDERAL 13 TNK BTY
FLEMMING STATE OIL BATTERY	JC FEDERAL 2 (SOUR) TNK BTY
FOLK FEDERAL B TNK BTY	JC FEDERAL 27 TNK BTY
FOLK FEDERAL TNK BTY	JENKINS B FEDERAL TNK BTY
FOLK STATE TANK BATTERY	JG STATE 16 1 TANK BATTERY
FORAN STATE OIL BATTERY	JG STATE 16 7 TANK BATTERY
GC FEDERAL 11 TNK BTY	JON BOB 1
GC FEDERAL 27 TNK BTY	JUNIPER STATE TNK BTY
GC FEDERAL TNK BTY	KIOWA OIL BATTERY
GILLESPIE STATE OIL BATTERY	KOOL AID STATE
GISSLER FEDERAL 13H TANK BATT	LAKEWOOD NORTH TANK BATTERY
GJ WEST COOP SOUTH TB	LAKEWOOD SOUTH TANK BATTERY
GJ WEST COOP UNIT 092 BTY	LARA MICHELLE STATE OIL BTTY
GJ WEST COOP UNIT 191 BTY	LEAKER CC STATE TB
GJ WEST COOP UNIT 210 BTY	LEE 3 FEE 6H - TK BATT
GJ WEST COOP UNIT CENTRAL	LIVE OAK TANK BATTERY
GJ WEST COOP UNIT N TNK BTY	MALCO 23 FEDERAL COM #13H
GOLD STAR TNK BTY	MAPLE STATE
GOODMAN 22 TANK BATTERY	MARACAS 22 STATE TANK BATTERY
GRAVE DIGGER FEDERAL COM TANK BATTERY	MARY FEDERAL OIL BATTERY
GRAVE DIGGER ST COM #3H TANK BATTERY	MAYARO 22 STATE TANK BATTERY
GRAVE DIGGER STATE COM #8H SWB	MC FEDERAL 14 TANK BATTERY
HALBERD 27 ST 3H BATTERY	MC FEDERAL 6 DEVONIAN
HANOVER STATE #3 (YESO)	MC FEDERAL PADDOCK TNK BTY
HARPER STATE TNK BTY	MC SOUTHEAST BATTERY
HARVARD FEDERAL TNK BTY	MC STATE OIL BATTERY
HATFIELD B TB	MCCOY STATE TB
HEARSE 36 ST COM TANK BATTERY	MCINTYRE A EAST TANK BATTERY
HOBGOBLIN 7 FED COM 4H TK BAT	MCINTYRE B 10
HOLDER CB 11 TNK BTY	MCINTYRE B 4
HOLDER CB FEDERAL 6&7 TNK BTY	MCINTYRE B TNK BTY
HOLIDAY	MCINTYRE DK 15 TNK BTY
HOUMA STATE TNK BTY	MCINTYRE DK FEDERAL 28H SWB
HT 18 FED 01.05.04 TANK BATTERY	MEADOWHAWK 5 FEDERAL 3
HT 18 FEDERAL 8	MELROSE FEDERAL TNK BTY
HUBER 10,11,12 FEDERAL OIL TANK BATTERY	MERAK 7 FEDERAL 8 TANK BATTERY
HUBER 3 FEDERAL OIL TANK BATTERY	MESILLA STATE 3 & 5 TNK BTY
HUBER 5 FEDERAL OIL TANK BATTERY	MESILLA STATE TNK BTY
HYDRUS 10 FED 03.07.08.11 TANK BATTERY	MESQUITE STATE TANK BATTERY
HYDRUS 10 FED 04.05 TANK BATTERY	MIMOSA STATE TNK BTY
HYDRUS 10 FED 06.09.10.12 TANK BATTERY	MIRANDA FEDERAL B TNK BTY
IMPERIAL STATE TNK BTY	MIRANDA FEDERAL TB

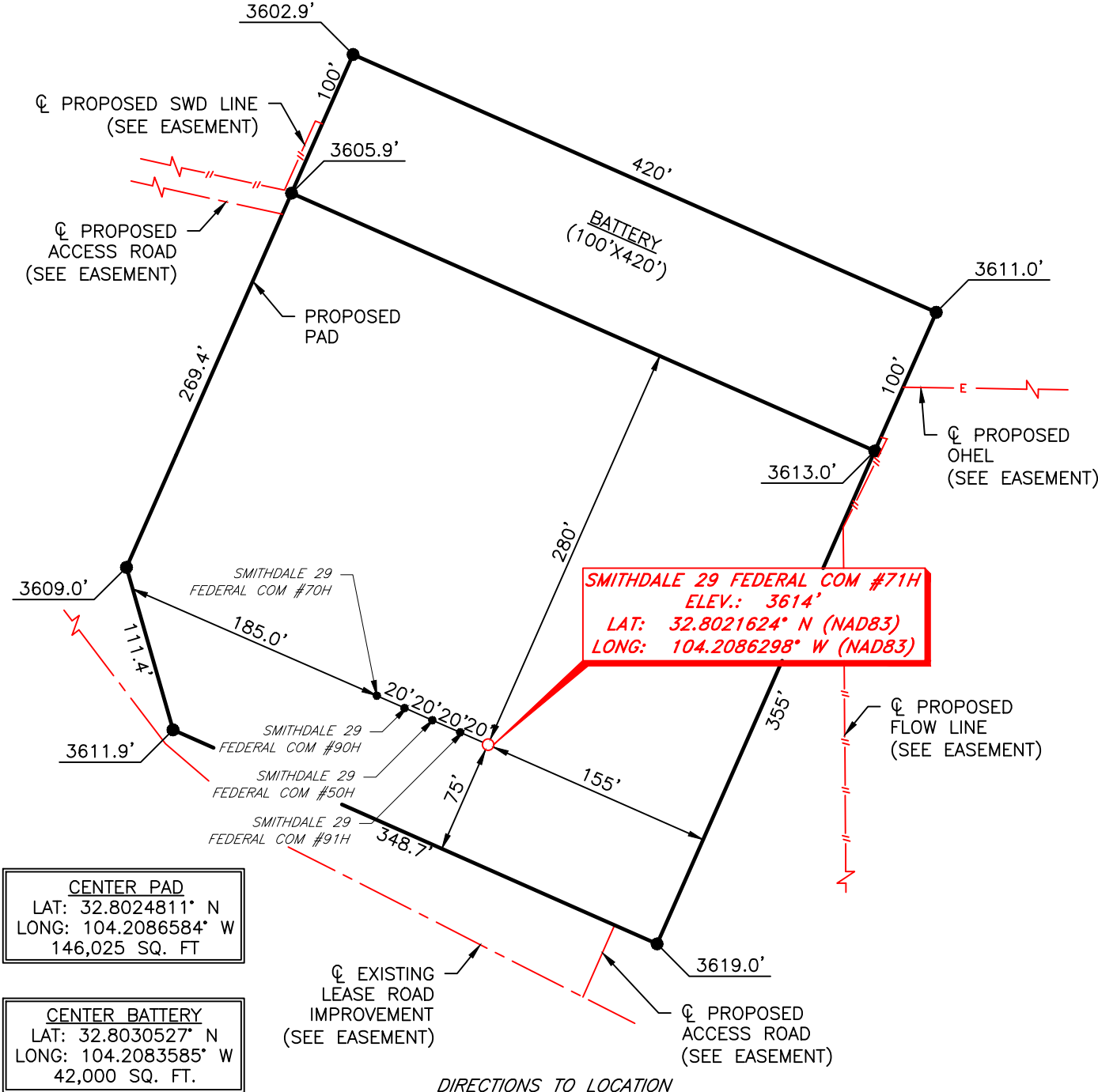
ATTACHMENT 1: SPUR FACILITIES WITH ROE REVIEW

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

SPUR ENERGY PARTNERS LLC.
SMITHDALE 29 FEDERAL COM #71H
(1570' FSL & 689' FEL)
SECTION 30, T17S, R28E
N. M. P. M., EDDY CO., NEW MEXICO



DIRECTIONS TO LOCATION

From the intersection of U.S. Hwy 82 (Lovington Hwy) & CR #206 (Illinois Camp Rd.);
Go Northwest on U.S. Hwy 82 approx. 1.2 miles to a lease road on the right;
Turn right and North approx. 0.2 miles to a lease road on the right;
Turn right and go East/Northeast approx. 0.2 miles to a "Y";
Turn right at "Y" and go Southeast approx. 0.2 miles to a proposed road on the left;
Turn left and go North approx. 140 feet to location on the left.

I, Dale E. Bell, New Mexico Professional Surveyor No. 14400, do hereby certify that this Plat and the actual survey on the ground upon which it is based were performed by me or under my direct supervision; that I am responsible for this survey, said survey and plat meets the Minimum Standards for Land Surveying in the State of New Mexico and that it is true and correct to the best of my knowledge and belief.

Dale E. Bell NM PS 14400



SCALE: 1" = 100'
0 50 100
BEARINGS ARE
NAD 83 GRID - NM EAST
DISTANCES ARE
GROUND.

1	NAME CHANGE	12/17/24
NO.	REVISION	DATE
JOB NO.: LS24100889D1		
DWG. NO.: 24100889D1-4		



701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 100'
DATE: 10/31/2024
SURVEYED BY: AM/JH
DRAWN BY: RQ
APPROVED BY: DEB
SHEET: 1 OF 1



RIG # 57_{1,150 HP Double Mast Drilling Rig}

SUBSTRUCTURE

One Piece Step Down

Floor Height: 18' 9" (on 4' pony sub moving system)

Clear Height (beneath rotary beams): 15' 5"

Rotary Capacity: 400,000 lbf

Max Pipe Setback: 400,000 lbf

Note: All floor heights above are based on the substructure sitting on 6" mats & 4' pony sub moving system

MAST

106' telescoping, Drill Line: 1-1/8"

Static Hook Load: 440,000 lbf

Racking Capacity: 18,000' of 4" DP, 12,500' of 5" DP

DRAWWORKS

TSM 850 425,000lbs w/ 10 Lines

Input Power: 1,150 hp AC traction motor

Main Brake: 1,150 hp AC traction motor (Dynamic)

Aux Parking Brake: Eaton brake & drum / band brake system

TOP DRIVE

Tesco EXI 600 AC 350 Ton: Max speed 220 rpm,

Continuous Drill Torque: 30,000 ft-lbs

Max Torque (Make / Break): 45,000 ft-lbs

600 hp AC induction motor & drive system with PLC

250 Ton 5 x 36" Becket Block Assembly

IRON ROUGHNECK

NOV ST-90C Conn Range: 4 1/4" to 8 1/2"

Spin Speed: 75 rpm nominal on 5" drill pipe

Spin Torque: 1,750 ft-lbs

Maximum Make-up torque: 60,000 ft-lbs

Maximum Break-out torque: 80,000 ft-lbs

ROTARY TABLE

National 27 1/2" 500 Ton with hydraulic drive to position tools only

27 1/2" Diameter opening

POWER SYSTEM

VFD, MCC, Eaton Drives, Current Power Systems Controls, three Caterpillar C32 gen sets, 1220 BHP.

MUD PUMP #1

HHF1600 Triplex Rated Power: 1600 hp

Stroke: 12"

Input Power: 1500 hp AC traction motor

Pressure Rating: 5000 psi

MUD PUMP #2

HHF1600 Triplex Rated Power: 1600 hp

Stroke: 12"

Input Power: 1500 hp AC traction motor

Pressure Rating: 5000 psi

MUD TANKS

Two Tank system w/ 1200 bbls total capacity

Shakers: Three MI Swaco Mongoose 4 panel dual motion

Mud Gas Separator: MI Swaco 4' OD x 12' tall

Pill Tank: 54 bbls

MUD SYSTEM

5000 psi Max Pressure

5" Main plumbing and standpipe

SCALPING TANK

Main Tank: 186 bbls capacity

Trip Tank: 24 bbls capacity

Shakers: Three NOV Venom shakers dual motion

BOP (NACE)

11" x 5000 psi WP Spherical Annular

11" x 5000 psi WP Double Ram

11" x 5000 psi WP Single Ram (Optional)

MANIFOLD

3-1/8" 5,000 psi c/w two 3 1/8" manual chokes

ACCUMULATOR

CTI: 160 gal 6 station 3000 psi, c/w N2 Backup & electric triplex pump

CATWALK

Ja-co Power Catwalk, tubular max length 47' 6", max OD 13 5/8", max weight 10,000lbs

TUBULARS

Drill Pipe: Supplied as needed, per availability

Drill Collars & heavywate: Supplied as needed, per availability

MISC.

Water Tank: 409 bbls; Fuel Tank 189 bbls; Screw Compressor

Boiler: 125 hp with Full Winterization

MOVING SYSTEM:

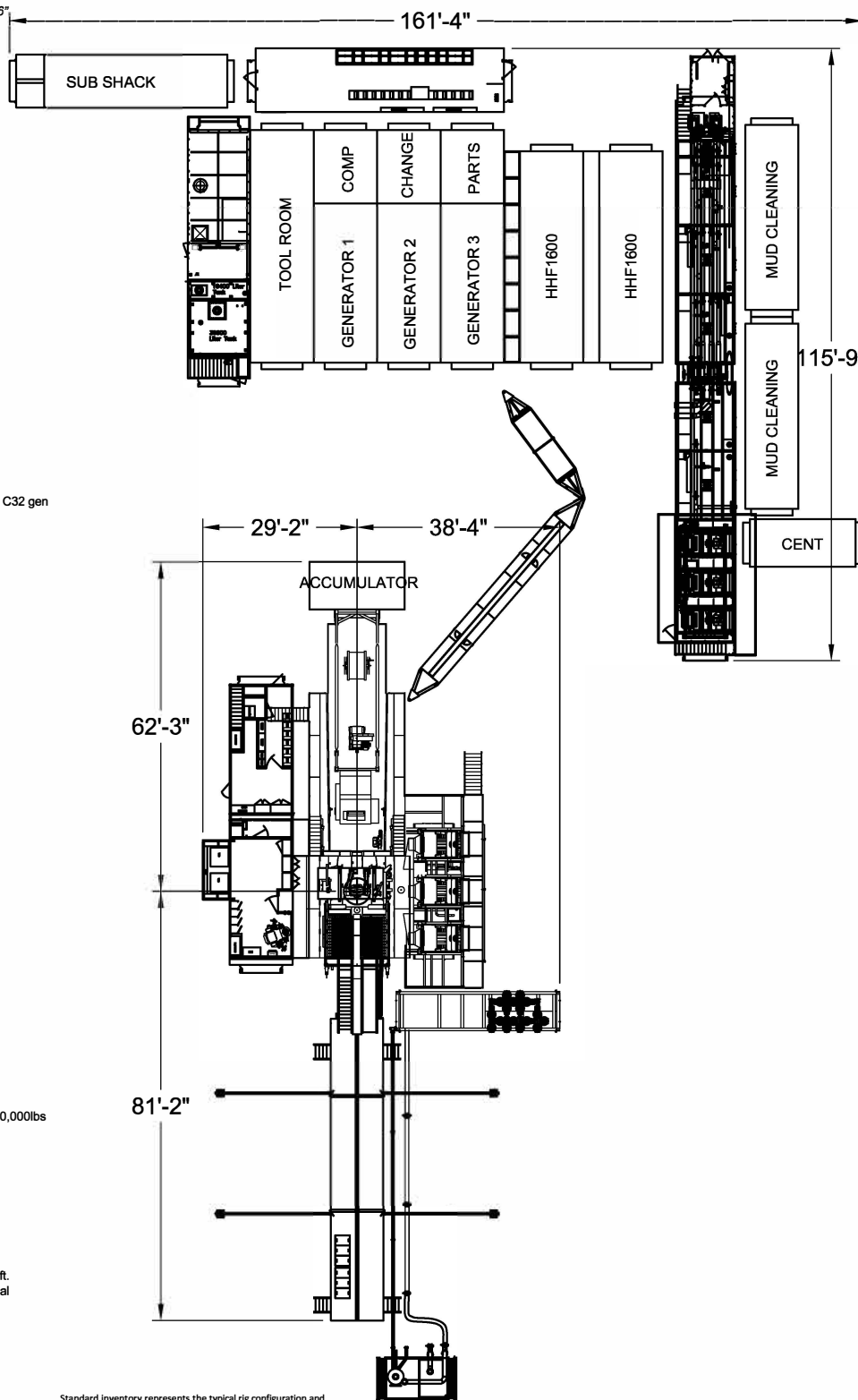
Walking beam hydraulic pony sub moving system for linear motion & side shift.

350' of Utility Suitcase style [50' lengths] connection for hydraulic and electrical supply.

TOOL/ STORAGE/ CAMP

Parts Storage Room and Tool House Room

Rig Manage Trailer: 14' x 44' skid mounted

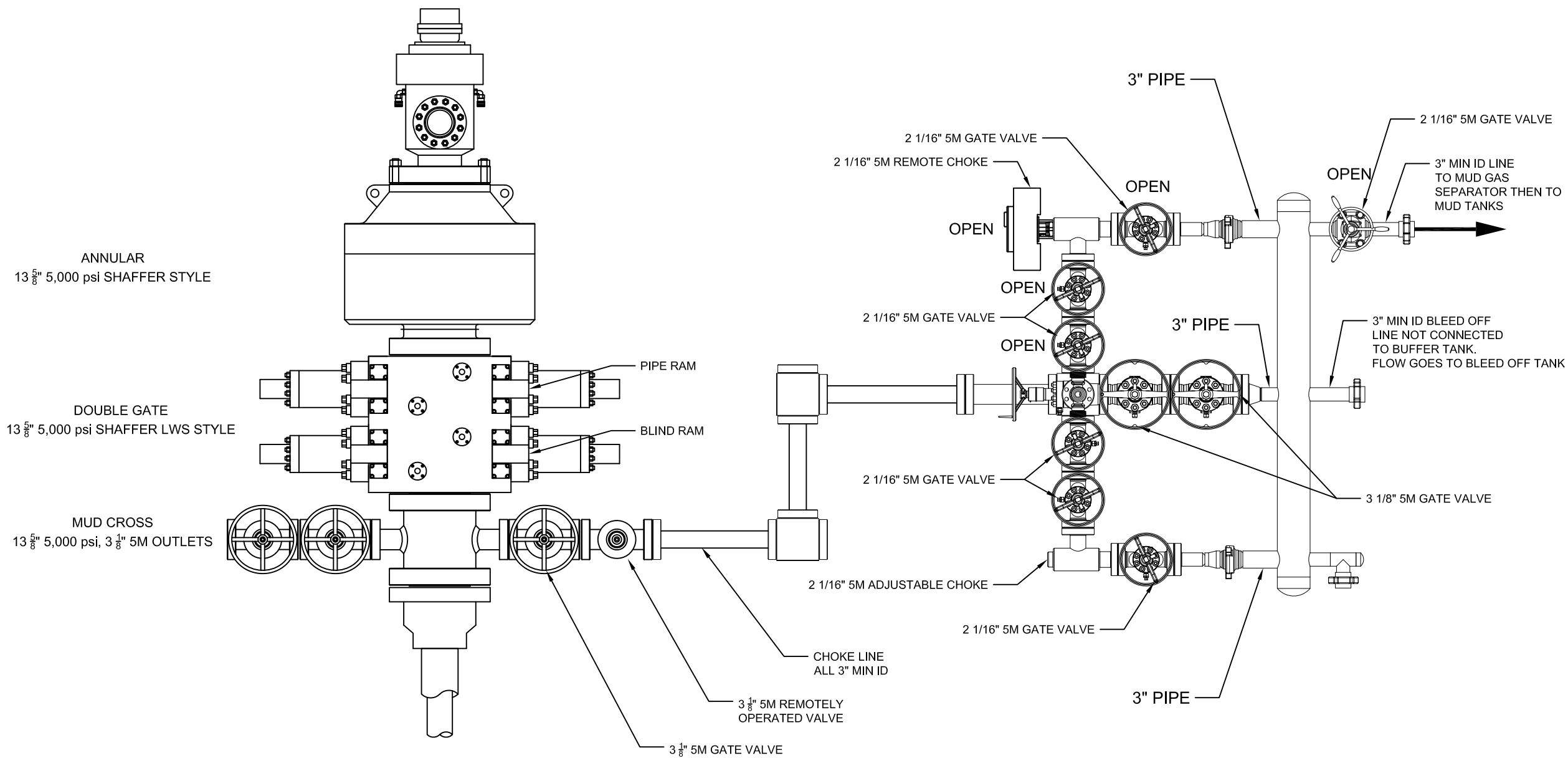


Standard inventory represents the typical rig configuration and inventory available, but specifications are subject to slight modifications from time to time due to customer requirements.

All ratings quoted herein are manufacturer specifications. AKITA's normal operating parameters are 90% of manufacturer mast ratings and 80% of mud pump manufacturer pressure rating. Operation of rig equipment beyond these parameters requires approval from AKITA field office management.

© AKITA DRILLING August, 2020

TRANSCEND RIG 4	Contractor Specification
Make	Schram
Model	TXD 130
Year of Manufacture	2006
Truck Mounted	YES
Rated Drilling Depth	130,000# hook load
Rated Depth with Tubing	
Derrick Height	69' 9"
Derrick Type	Telescoping Hydraulic
Derrick Capacity	130,000#
Elevators	N/A
Drawworks	760 HP Detroit
Wire Diameter	Hydraulic
Workfloor Max Height	8'
Tongs	Hydraulic Iron Roughneck
Slips	Manual Slips
Included Tubing Handling Tools	• 13 3/8" handling tools
Included Rod Handling Tools	85jts of 4.5" drill pipe
BOP Class Compatibility	
Weight Indicator	Hydraulic
Rig Safety Equipment	Eye wash station, fire extengushers, wind sock
Pad Size Requirements/Limitations	60' x 60'
Guy Line Spacing	N/A
Other Supplied Rig Equipment	Standard Rig Hand Tools: • (2) 36" pipe wrenches • (2) 24" pipe wrenches • (2) 18" pipe wrenches • (1) 24" crescent wrench • (2) 12" crescent wrenches • (1) 4 lb shop hammer • (1) 12 lb sledge hammer • (1) 4 foot pry bar • Vehicles for Contractor personnel • Air Impact Wrench with Sockets • Mud Scales (as needed)



Notes
-
-
-

No.	Revision	Date
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AKITA
DRILLING LTD.
2302 8th Street, Nisku Alberta
T9E 7Z2 Tel: (780) 955-6700

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Date	5-6-2021	Scale	NTS
Des / Chk'd By	BG	File Name	R57 13 5M dou..
Project	R57		

RIG 57 BOP SCHEMATIC



POWERING PROGRESS™

MTR DATA BOOK

CL2013

CUSTOMER: GATES CANADA INC**DATE:** 12/19/2017**Purchase Order:** D235455 (PO 45750)**Sales Order #:** 509128**Product Description:** 5K 3 1/2 in. 17 FT. Fire Rated Choke & Kill Gates Hose Assembly c/w 3 1/8
5K Flange with Safety Clamps & Slings Attached**Hose S/N:** H-121917-14**PART NUMBER:** FR5K3.517.0CK31/85KFLG S/C**CONTENTS INCLUDED****GMCO FITTINGS**

17-309-1

INSERT STEM

15-095-1A

FERRULE

3 1/8 in. 5K FIXED FLANGE X 3 1/8 in. 5K FLOAT FLANGE

V4131

FIXED FLANGE

V5054

FLOAT FLANGE

WELDING SPECIFICATIONS

Certification and Procedure for welding

NDE RESULTS

1622371-03/1622371-01 Ultrasonic Test Results and Imaging

Safety Clamps

34145/34144

TEST CHART

Chart Recording of Hydrostatic Test

TEST CERTIFICATE

Document Product Details & Positive Results of Hydrostatic Testing

CERTIFICATE OF CONFORMANCE

A Declaration of the conformity with the type approval

IMAGES

Images of the product prior to shipping.

PACKING LIST

Details of Shipping Contents, Dimensions and Weights



GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr. Suite 190
Houston, TX. 77086

PHONE: +1 (281) 602-4100
FAX: +1 (281) 602-4147
EMAIL: gesna.quality@gates.com
WEB: www.gates.com/ollandgas

PRESSURE TEST CERTIFICATE

Customer:	GATES CANADA INC	Test Date:	12/19/2017
Customer Ref.:	D235455 (PO 45750)	Hose Serial No.:	H-121917-14
Invoice No.:	509128	Created By:	Cristian Rivera

Product Description: 5K 3 1/2 in. 17 FT. Fire Rated Choke & Kill c/w 3 1/8 5K Flange with Safety Clamps & Slings Attached

End Fitting 1:	3 1/8 in. 5K FIXED FLG	End Fitting 2:	3 1/8 in. 5K FLOAT FLG
Oracle Star No.:	68903550-9725917	Assembly Code:	15M5019042016H-121917-14
CUSTOMER P/N:	FR5K3.517.0CK31/85KFLG S/C	Test Pressure:	7,500 psi.
		Working Pressure:	5,000 psi.

Gates Engineering & Services North America certifies that:

The following hose assembly has successfully passed all pressure testing requirements set forth in Gates specifications: GTS-04-052 (for 5K assemblies) or GTS-04-053 (10K assemblies) or GTS-04-048 (15K assemblies), which include reference to Specification API 16C (2nd Edition); sections 7.5.4, 7.5.9, and 10.8.7. A test graph will accompany this test certificate to illustrate conformity to test requirements. This hose assembly was pressure tested using equipment and instrumentation that has been calibrated in accordance with the requirements set-forth in the GESNA management system.

Quality: QUALITY
 Date : 8/5/2021
 Signature :

Production: PRODUCTION
 Date : 8/5/2021
 Signature :

F-PRD-005B

Revision 6_05032021

**BLACK GOLD®**

GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr.
Houston, TX. 77086

PHONE: +1 (281) 602-4100
FAX: +1 (281) 602-4147
EMAIL: gesna.quality@gates.com
WEB: www.gates.com/ollandgas

CERTIFICATE OF CONFORMANCE

This is to certify that all parts and materials included in this shipment have manufactured and/or processed in accordance with various Gates and API assembly and test specifications. Records of required tests are on-file and subject to examination. Test reports and subsequent test graphs have been made available with this shipment. Additional supporting documentation related to materials, welding, weld inspections, and heat-treatment activities are available upon request.

CUSTOMER: GATES CANADA INC
CUSTOMER P.O.#: D235455 (PO 45750)
PART DESCRIPTION: FR5K3.517.0CK31/85KFLG S/C

PART DESCRIPTION: 5K 3 1/2 in. 17 FT. Fire Rated Choke & Kill c/w 3 1/8 5K Flange with Safety Clamps & Slings Attached

SALES ORDER #: 509128
QUANTITY: 1
SERIAL #: H-121917-14

SIGNATURE: _____

A handwritten signature in black ink, appearing to read "J. Rivera", written over a horizontal line.

TITLE: _____

QUALITY ASSURANCE

DATE: _____

8/5/2021

Gates E&S

North America

7603 Prairie Oak dr.

Houston, TX

Hydrostatic Test

Customer= **GATES CANADA**

Date of test= **12/19/17**

Serial # = **H-121917-13,-14**

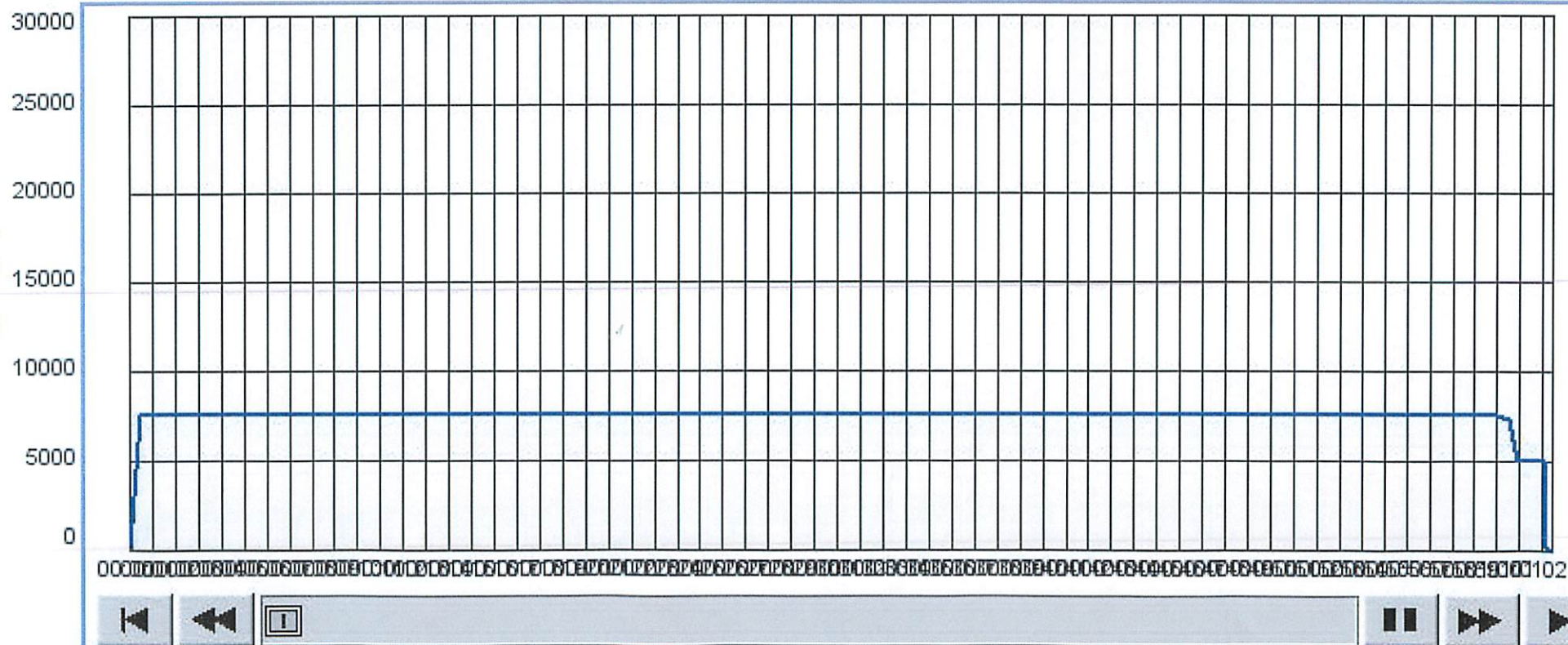
Description = **3.5 5K 3 1/8 FLG 5K**

Technician= **CHRIS OLIVO**

12/19/2017 16:53:26

17:55:52

P
S
I
G





1385 Hwy. 35 Bypass S. O: (361) 790-7910
 P.O. Box 2350 F: (361) 790-7927
 Rockport, TX 78381

tedwards@edwardsfabrication.com
 www.edwardsfabrication.com

CERTIFICATE OF TEST

Client:
 Gates E & S North America
 134 44th Street
 Corpus Christi, TX 78405

Purchase Order: 1592198/0

Certificate Number			Date of Examination	
34145			04/27/17	
ID#	Part Number	Description	SWL*	Proofload
34145	E3.5S	3.5" E Safety Clamp	6016 lbs.	12031 lbs.

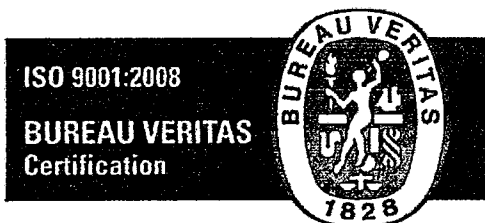
The Safety Clamp unit identified on this certificate has been load tested completely assembled; including the clamp body, (2) 3/4" shackles, 5/8" x 48" wire rope sling and anchor tab. Thus, all components are tested at the "Proof" load. Do not disassemble. Do not interchange any part or parts of this tested unit with parts of other Safety Clamp units. DO NOT WELD, CUT, ADD-TO, TAKE AWAY ANY COMPONENTS OR MAKE ANY MODIFICATION TO THIS CLAMP UNIT. Doing so voids this test certificate.

Cutting/Removing either one or both stainless steel Tamper-proof hardware cables renders this Test Certificate VOID.

* Safe Work Load

THIS PRODUCT IS MANUFACTURED IN THE U.S.A.

We hereby verify that the above information is correct
 as contained in the records of Edwards Fabrication L.L.C.



Edwards Fabrication L.L.C. is certified as
 having a Quality Management System.

Thomas F. Edwards
 President
 Edwards Fabrication L.L.C.



1385 Hwy. 35 Bypass S. O: (361) 790-7910
 P.O. Box 2350 F: (361) 790-7927
 Rockport, TX 78381

tedwards@edwardsfabrication.com
 www.edwardsfabrication.com

CERTIFICATE OF TEST

Client:
 Gates E & S North America
 134 44th Street
 Corpus Christi, TX 78405

Purchase Order: 1592198/0

Certificate Number				Date of Examination	
34144				04/27/17	
ID#	Part Number	Description	SWL*	Proofload	
34144	E3.5S	3.5" E Safety Clamp	6014 lbs.	12027 lbs.	

The Safety Clamp unit identified on this certificate has been load tested completely assembled; including the clamp body, (2) 3/4" shackles, 5/8" x 48" wire rope sling and anchor tab. Thus, all components are tested at the "Proof" load. Do not disassemble. Do not interchange any part or parts of this tested unit with parts of other Safety Clamp units. DO NOT WELD, CUT, ADD-TO, TAKE AWAY ANY COMPONENTS OR MAKE ANY MODIFICATION TO THIS CLAMP UNIT. Doing so voids this test certificate.

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Edwards Fabrication L.L.C. is certified as
 having a Quality Management System.

Thomas F. Edwards
 President
 Edwards Fabrication L.L.C.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

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

CONDITIONS

Action 445722

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 445722
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
schapman01	Cement is required to circulate on both surface and intermediate1 strings of casing.	3/26/2025
schapman01	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	3/26/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	4/10/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	4/10/2025
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.	4/10/2025
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.	4/10/2025