

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: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER<br>1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other<br>1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone |                                       | 5. Lease Serial No.<br><br>6. If Indian, Allottee or Tribe Name<br><br>7. If Unit or CA Agreement, Name and No.<br><br>8. Lease Name and Well No. |
| 2. Name of Operator                                                                                                                                                                                                                                                                                                                                            |                                       | 9. API Well No.<br><span style="color: red;">30-015-56427</span>                                                                                  |
| 3a. Address                                                                                                                                                                                                                                                                                                                                                    | 3b. Phone No. (include area code)     | 10. Field and Pool, or Exploratory                                                                                                                |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *)<br>At surface<br>At proposed prod. zone                                                                                                                                                                                                                         |                                       | 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.<br>2. A Drilling Plan.<br>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).<br>5. Operator certification.<br>6. Such other site specific information and/or plans as may be requested by the BLM. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                         |                      |      |
|-------------------------|----------------------|------|
| 25. Signature           | Name (Printed/Typed) | Date |
| Title                   |                      |      |
| Approved by (Signature) | Name (Printed/Typed) | Date |
| 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<br><br>Submit Electronically<br>Via OCD Permitting | State of New Mexico<br>Energy, Minerals & Natural Resources Department<br>OIL CONSERVATION DIVISION | Revised July 9, 2024 |                                                       |
|                                                          |                                                                                                     | Submittal<br>Type:   | <input checked="" type="checkbox"/> Initial Submittal |
|                                                          |                                                                                                     |                      | <input type="checkbox"/> Amended Report               |
|                                                          |                                                                                                     |                      | <input type="checkbox"/> As Drilled                   |

WELL LOCATION INFORMATION

|                                                                                                                                                        |                                            |                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| API Number<br>30-015-56427                                                                                                                             | Pool Code<br>96830 96836                   | Pool Name<br>Artesia; Glorieta-Yeso (O)<br>RED LAKE; GLORIETA-YESO, NORTHEAST                                                                                     |
| Property Code<br>337174                                                                                                                                | Property Name<br>SMITHDALE 29 FEDERAL COM  | Well Number<br>90H                                                                                                                                                |
| OGRID No.<br>328947                                                                                                                                    | Operator Name<br>SPUR ENERGY PARTNERS LLC. | Ground Level Elevation<br>3613'                                                                                                                                   |
| Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal |                                            | Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal |

Surface Location

|         |               |                 |              |     |                          |                         |                          |                            |                |
|---------|---------------|-----------------|--------------|-----|--------------------------|-------------------------|--------------------------|----------------------------|----------------|
| UL<br>I | Section<br>30 | Township<br>17S | Range<br>28E | Lot | Ft. from N/S<br>1594 FSL | Ft. from E/W<br>744 FEL | Latitude<br>32.8022291°N | Longitude<br>104.2088083°W | County<br>EDDY |
|---------|---------------|-----------------|--------------|-----|--------------------------|-------------------------|--------------------------|----------------------------|----------------|

Bottom Hole Location

|         |               |                 |              |     |                          |                        |                          |                            |                |
|---------|---------------|-----------------|--------------|-----|--------------------------|------------------------|--------------------------|----------------------------|----------------|
| UL<br>I | Section<br>29 | Township<br>17S | Range<br>28E | Lot | Ft. from N/S<br>1800 FSL | Ft. from E/W<br>50 FEL | Latitude<br>32.8030240°N | Longitude<br>104.1895519°W | County<br>EDDY |
|---------|---------------|-----------------|--------------|-----|--------------------------|------------------------|--------------------------|----------------------------|----------------|

|                           |                                   |                              |                                                                                                               |                             |
|---------------------------|-----------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------|
| Dedicated Acres<br>320    | Infill or Defining Well<br>INFILL | Defining Well API<br>PENDING | Overlapping Spacing Unit (Y/N)<br>N                                                                           | Consolidation Code<br>C & F |
| Order Numbers.<br>PENDING |                                   |                              | Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                             |

Kick Off Point (KOP)

|         |               |                 |              |     |                          |                         |                          |                            |                |
|---------|---------------|-----------------|--------------|-----|--------------------------|-------------------------|--------------------------|----------------------------|----------------|
| UL<br>I | Section<br>30 | Township<br>17S | Range<br>28E | Lot | Ft. from N/S<br>1761 FSL | Ft. from E/W<br>825 FEL | Latitude<br>32.8026873°N | Longitude<br>104.2090693°W | County<br>EDDY |
|---------|---------------|-----------------|--------------|-----|--------------------------|-------------------------|--------------------------|----------------------------|----------------|

First Take Point (FTP)

|         |               |                 |              |     |                          |                         |                          |                            |                |
|---------|---------------|-----------------|--------------|-----|--------------------------|-------------------------|--------------------------|----------------------------|----------------|
| UL<br>L | Section<br>29 | Township<br>17S | Range<br>28E | Lot | Ft. from N/S<br>1800 FSL | Ft. from E/W<br>100 FWL | Latitude<br>32.8028104°N | Longitude<br>104.2060574°W | County<br>EDDY |
|---------|---------------|-----------------|--------------|-----|--------------------------|-------------------------|--------------------------|----------------------------|----------------|

Last Take Point (LTP)

|         |               |                 |              |     |                          |                         |                          |                            |                |
|---------|---------------|-----------------|--------------|-----|--------------------------|-------------------------|--------------------------|----------------------------|----------------|
| UL<br>I | Section<br>29 | Township<br>17S | Range<br>28E | Lot | Ft. from N/S<br>1800 FSL | Ft. from E/W<br>100 FEL | Latitude<br>32.8030219°N | Longitude<br>104.1897146°W | County<br>EDDY |
|---------|---------------|-----------------|--------------|-----|--------------------------|-------------------------|--------------------------|----------------------------|----------------|

|                                                |                                                                                                    |                                     |
|------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------|
| Unitized Area or Area of Uniform Interest<br>Y | Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical | Ground Floor Elevation:<br>3613' GF |
|------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------|

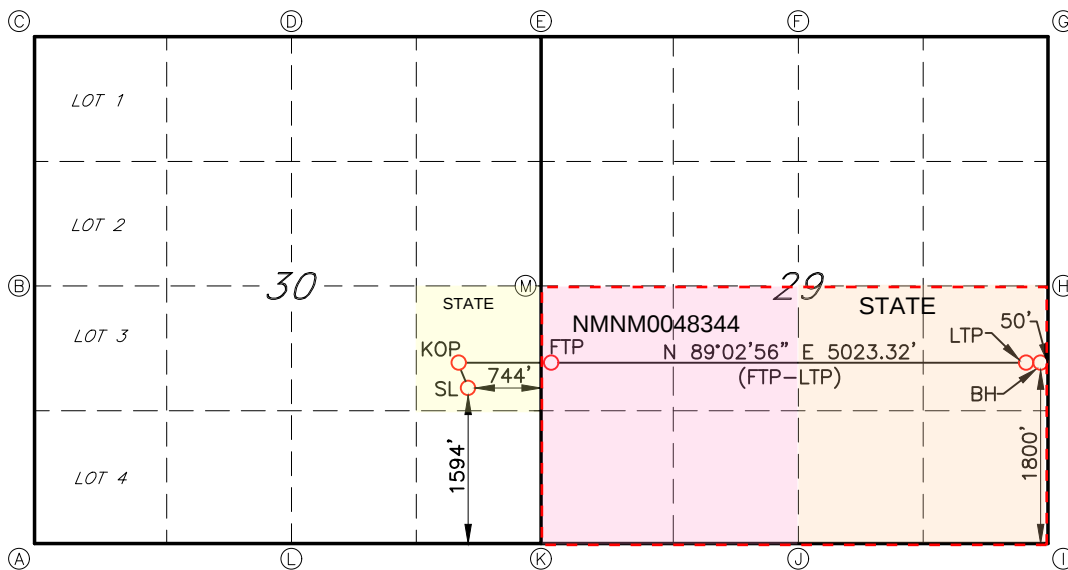
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>OPERATOR CERTIFICATIONS</b><br><br><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><br><br><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><br><br><i>Sarah Chapman</i> 01/06/2025<br>Signature Date<br><br>SARAH CHAPMAN<br>Printed Name<br>SCHAPMAN@SPURENERGY.COM<br>Email Address |  | <b>SURVEYOR CERTIFICATIONS</b><br><br><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><br><br><br>Signature and Seal of Professional Surveyor<br><br>Certificate Number<br>14400<br>Date of Survey<br>10/31/2024 |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

# 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 #90H



GEODETIC DATA  
NAD 83 GRID - NM EAST

SURFACE LOCATION (SL)  
N: 655606.0 - E: 579598.9

LAT: 32.8022291° N  
LONG: 104.2088083° W

KICK OFF POINT (KOP)  
1761' FSL & 825' FEL (SEC.30)  
N: 655772.6 - E: 579518.5

LAT: 32.8026873° N  
LONG: 104.2090693° W

FIRST TAKE POINT (FTP)  
1800' FSL & 100' FWL (SEC.29)  
N: 655818.4 - E: 580443.9

LAT: 32.8028104° N  
LONG: 104.2060574° W

LAST TAKE POINT (LTP)  
1800' FSL & 100' FEL (SEC.29)  
N: 655901.8 - E: 585465.2

LAT: 32.8030219° N  
LONG: 104.1897146° W

BOTTOM HOLE (BH)  
N: 655902.6 - E: 585515.2

LAT: 32.8030240° N  
LONG: 104.1895519° 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

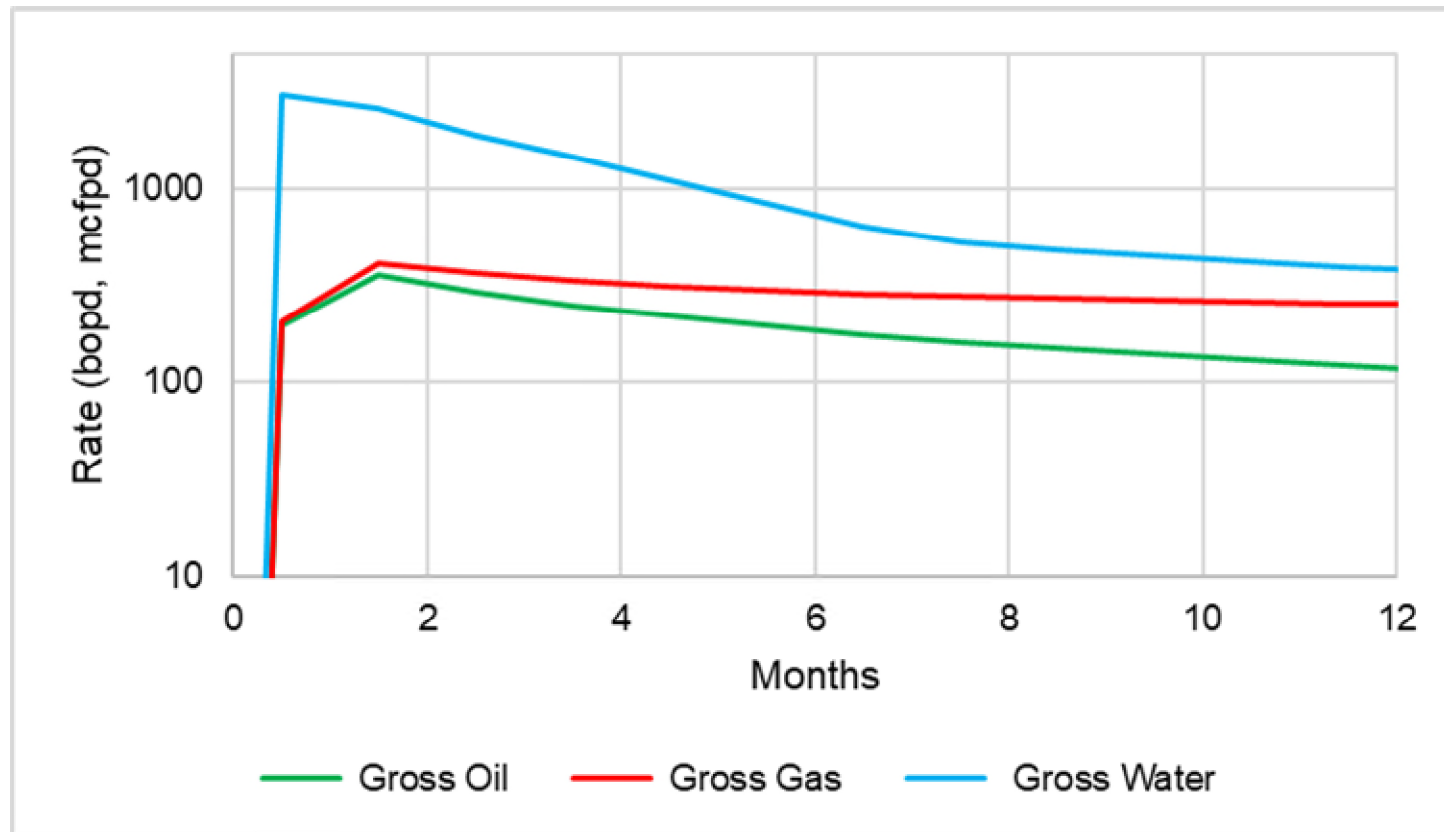
K: FOUND BRASS CAP "1941"  
N: 654017.3 - E: 580331.9

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             |
| <b>OIL CONSERVATION DIVISION</b><br>(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 90H

### 1. Geologic Formations

|               |         |
|---------------|---------|
| TVD of Target | 4,635'  |
| MD at TD      | 10,099' |

| 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 |

\*H<sub>2</sub>S, 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<br>Formation Set<br>Interval | Hole Size (in) | Casing Interval |         | Csg. Size<br>(in) | Weight<br>(lbs) | Grade | Conn. | SF       | SF Burst | Body SF<br>Tension | Joint SF<br>Tension |
|-------------------------------------|----------------|-----------------|---------|-------------------|-----------------|-------|-------|----------|----------|--------------------|---------------------|
|                                     |                | From (ft)       | To (ft) |                   |                 |       |       | Collapse |          |                    |                     |
| 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               | 4775    | 7                 | 32              | L-80  | BK-HT | 1.125    | 1.2      | 1.4                | 1.4                 |
| Yeso                                | 8.75           | 4775            | 10099   | 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 90H**

|                                                                                                                                                  | 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 <sup>rd</sup> 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 <sup>nd</sup> 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        | 3775        | 100%     |
| Production (Tail) | 3775     | 10099       | 25%      |

| Casing String     | # Sks | Wt.<br>(lb/gal) | Yld<br>(ft3/sack) | H2O<br>(gal/sk) | 500#<br>Comp.<br>Strength<br>(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) | 414   | 11.4            | 2.42              | 15.29           | N/A                                  | Clas C Premium Plus Cement |
| Production (Tail) | 1202  | 13.2            | 1.56              | 9.81            | N/A                                  | Clas C Premium Plus Cement |

**Spur Energy Partners LLC – Smithdale 29 Federal Com 90H****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    | 2146 psi                     |
| Abnormal Temperature          | No                           |
| BH Temperature at deepest TVD | 118°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.<br>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 90H**

|   |                                                                                                                                                                                                                                                                                                              |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.<br>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 3<sup>rd</sup> 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      | 10099   | 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 90H

### 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 <sub>2</sub> S) monitors will be installed prior to drilling out the surface shoe. If H <sub>2</sub> 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 <sub>2</sub> S is present    |
| Y                                                                                                                                                                                                                                                                                                                                                            | H <sub>2</sub> S Plan attached |

**Total estimated cuttings volume:** 896.9 bbls.

**Spur Energy Partners LLC – Smithdale 29 Federal Com 90H****9. Other facets of operation**

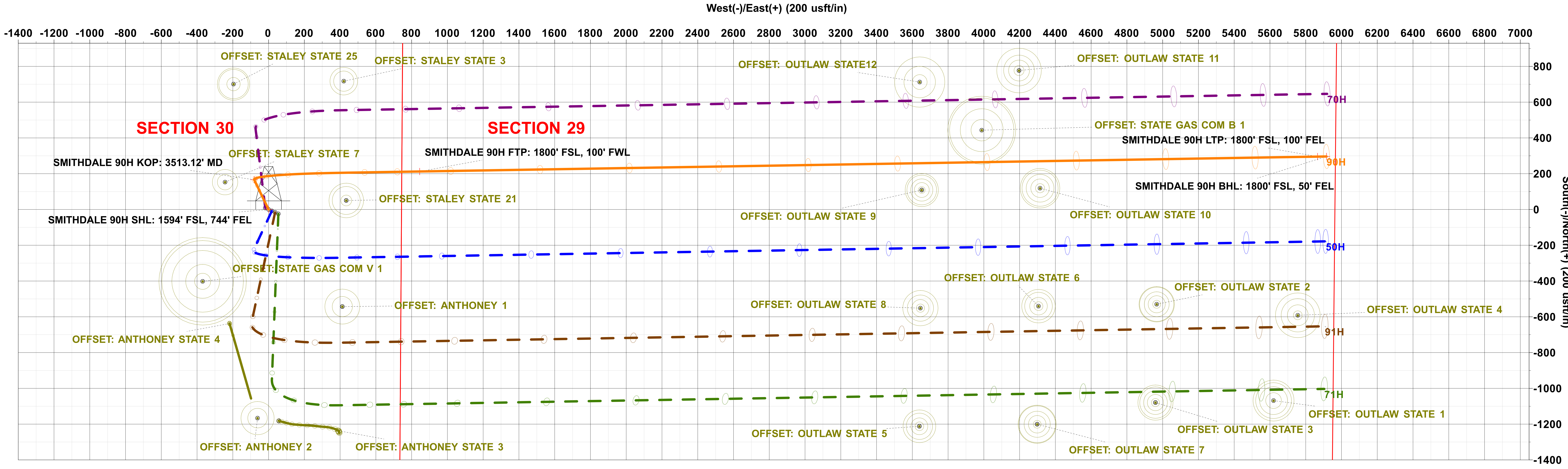
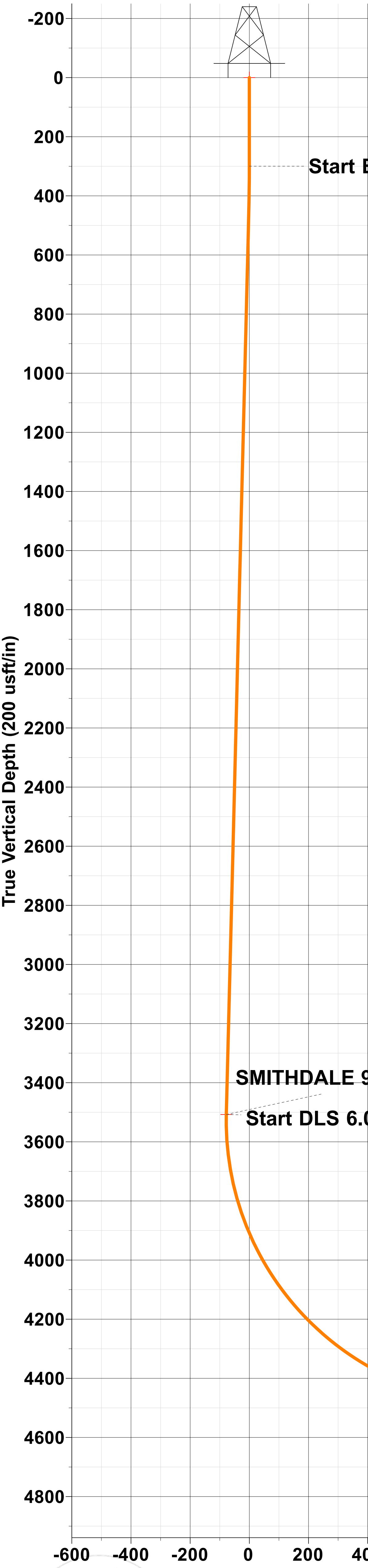
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Yes/No</b> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 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**

| <b>Name</b>        | <b>Title</b>        | <b>Office Phone</b> | <b>Mobile Phone</b> |
|--------------------|---------------------|---------------------|---------------------|
| 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        |

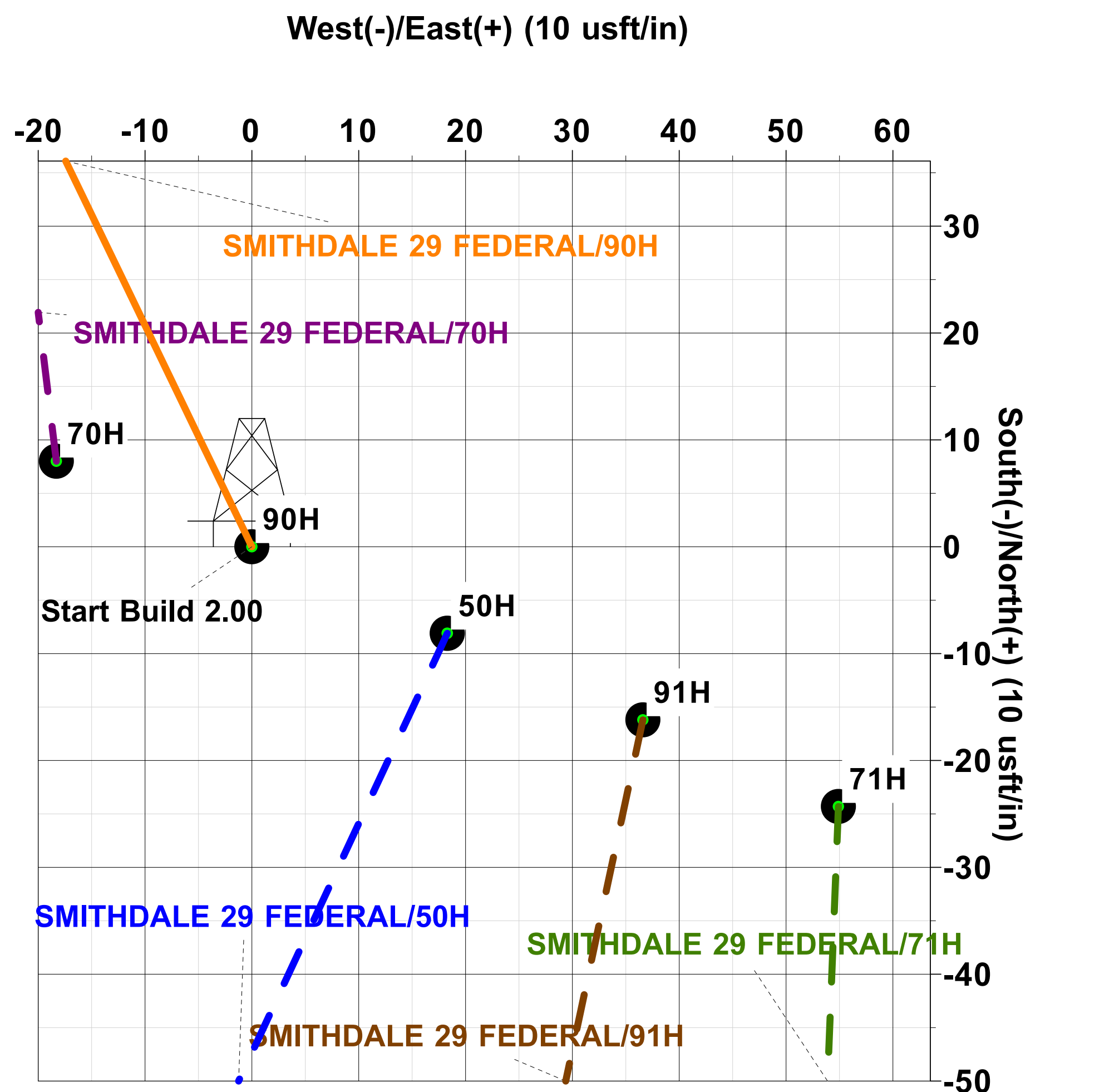
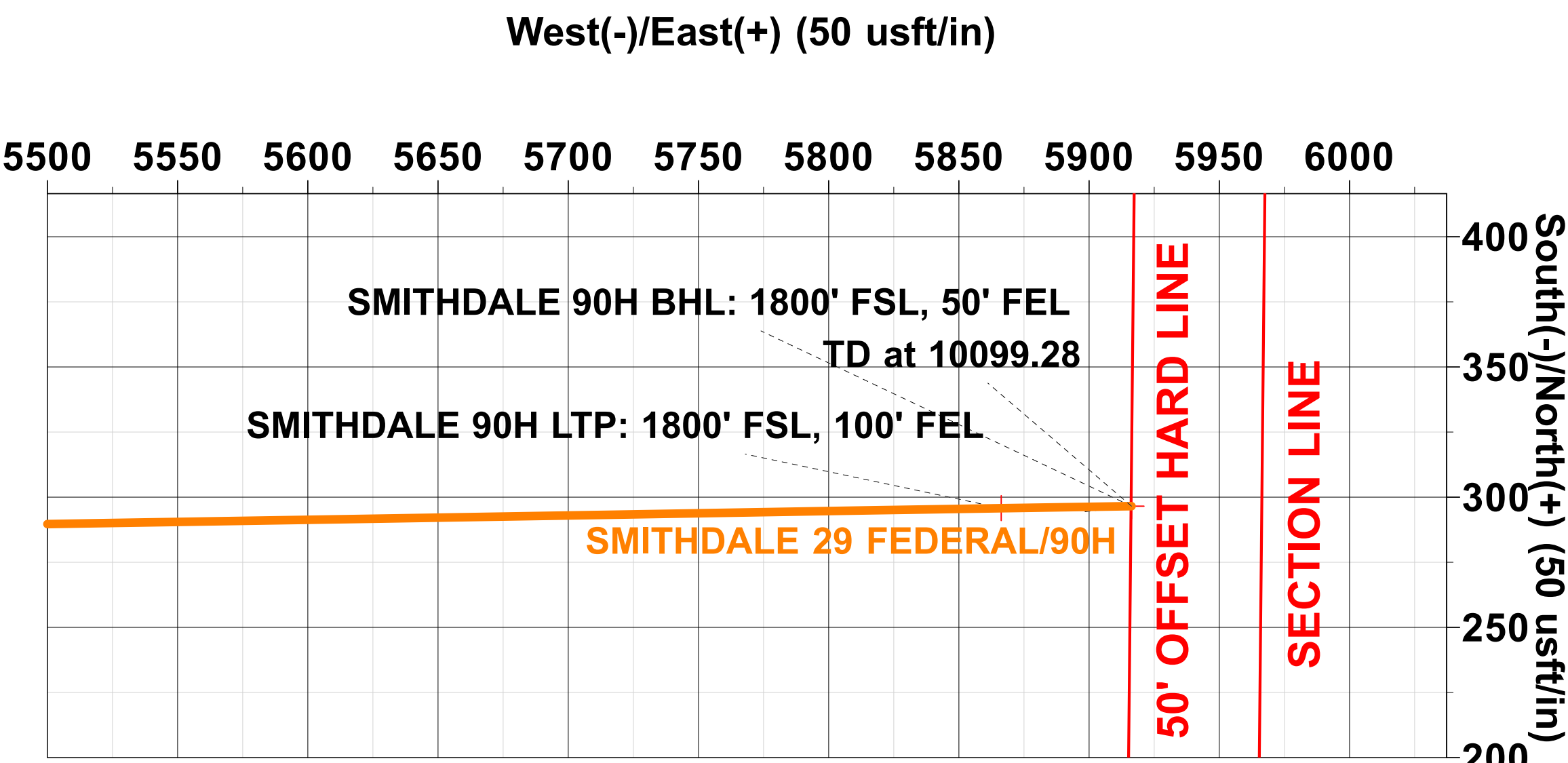
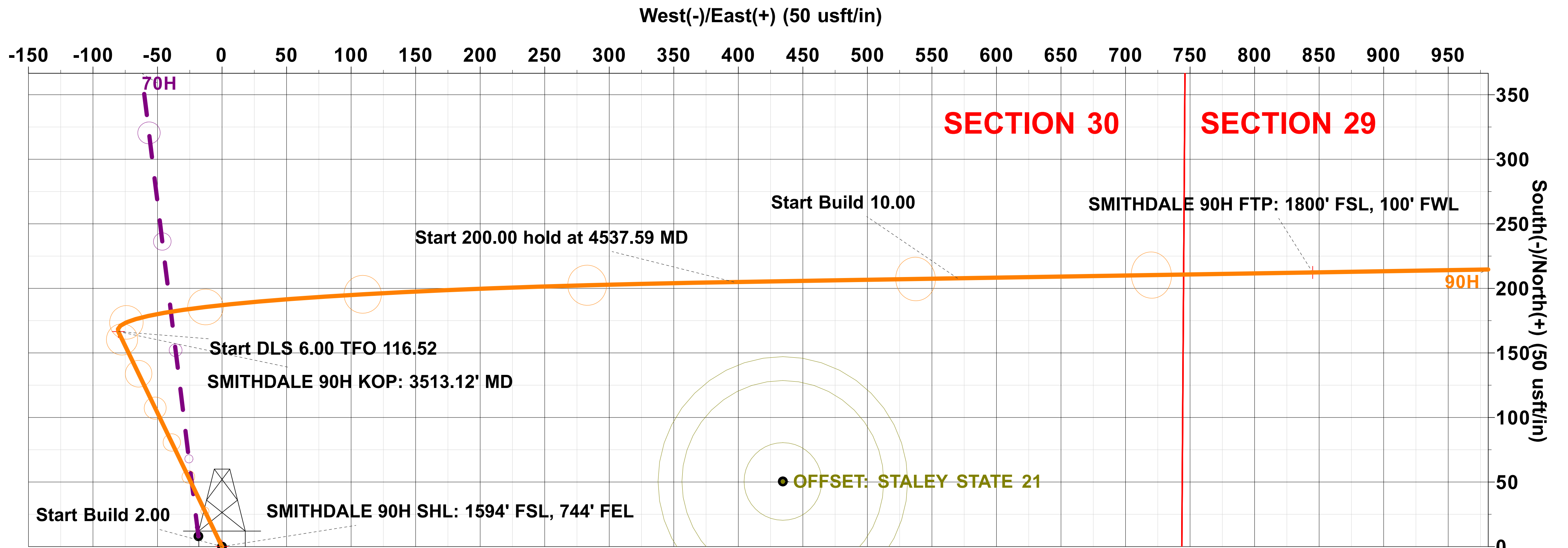


| WELL DETAILS: 90H |          |           |        |                                    |        |          |       |            |
|-------------------|----------|-----------|--------|------------------------------------|--------|----------|-------|------------|
| Rig Name:         |          | AKITA 57  |        | RKB = 20' @ 3633.00usft (AKITA 57) |        |          |       |            |
|                   |          |           |        | 3613.00                            |        |          |       |            |
| +N/-S             | +E/-W    | Northing  |        | Easting                            |        | Latitude |       | Longitude  |
| 0.00              | 0.00     | 655606.00 |        | 579598.90                          |        | 32.80223 |       | -104.20881 |
| 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                 | 469.46   | 3.39      | 334.24 | 469.36                             | 4.51   | -2.18    | 2.00  | -2.10      |
| 4                 | 3513.12  | 3.39      | 334.24 | 3507.69                            | 166.56 | -80.37   | 0.00  | -77.60     |
| 5                 | 4537.59  | 60.00     | 89.05  | 4358.35                            | 204.96 | 396.67   | 6.00  | 400.02     |
| 6                 | 4737.59  | 60.00     | 89.05  | 4458.35                            | 207.83 | 569.85   | 0.00  | 573.22     |
| 7                 | 5026.29  | 88.87     | 89.05  | 4535.00                            | 212.40 | 845.00   | 10.00 | 848.41     |
| 8                 | 10049.26 | 88.87     | 89.05  | 4634.01                            | 295.77 | 5866.30  | 0.00  | 5870.40    |
| 9                 | 10099.28 | 88.87     | 89.05  | 4635.00                            | 296.60 | 5916.30  | 0.00  | 5920.40    |

| DESIGN TARGET DETAILS                  |         |        |         |           |           |  |  |
|----------------------------------------|---------|--------|---------|-----------|-----------|--|--|
| Name                                   | TVD     | +N/-S  | +E/-W   | Northing  | Easting   |  |  |
| SMITHDALE 90H BHL: 1800' FSL, 50' FEL  | 4635.00 | 296.60 | 5916.30 | 655902.60 | 585515.20 |  |  |
| SMITHDALE 90H FTP: 1800' FSL, 100' FWL | 4535.00 | 212.40 | 845.00  | 655818.40 | 580443.90 |  |  |
| SMITHDALE 90H KOP: 3513.12' MD         | 3507.69 | 166.56 | -80.37  | 655772.56 | 579518.53 |  |  |
| SMITHDALE 90H LTP: 1800' FSL, 100' FEL | 4634.01 | 295.80 | 5866.30 | 655901.80 | 585465.20 |  |  |
| SMITHDALE 90H SHL: 1594' FSL, 744' FEL | 0.00    | 0.00   | 0.00    | 655606.00 | 579598.90 |  |  |

Project: EDDY COUNTY, NM (NAD 83 - NME)  
Site: SMITHDALE 29 FEDERAL  
Well: 90H  
Wellbore: OH  
Design: PERMIT

PROJECT DETAILS: EDDY COUNTY, NM (NAD 83 - NME)  
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: New Mexico Eastern Zone  
System Datum: Mean Sea Level



Plan: PERMIT (90H/OH)

Created By: PROTOTYPE WELL PLANNING / Date: 7:47, December 18 2024

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# **SPUR ENERGY PARTNERS, LLC**

**EDDY COUNTY, NM (NAD 83 - NME)**

**SMITHDALE 29 FEDERAL**

**90H**

**OH**

**Plan: PERMIT**

## **Standard Planning Report**

**17 December, 2024**

Planning Report

|           |                                |                              |                                    |
|-----------|--------------------------------|------------------------------|------------------------------------|
| Database: | EDM 5000.17 Single User Db     | Local Co-ordinate Reference: | Well 90H                           |
| Company:  | SPUR ENERGY PARTNERS, LLC      | TVD Reference:               | RKB = 20' @ 3633.00usft (AKITA 57) |
| Project:  | EDDY COUNTY, NM (NAD 83 - NME) | MD Reference:                | RKB = 20' @ 3633.00usft (AKITA 57) |
| Site:     | SMITHDALE 29 FEDERAL           | North Reference:             | Grid                               |
| Well:     | 90H                            | 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                 | 90H   |           |                     |                 |               |               |
| Well Position        | +N/-S | 0.00 usft | Northing:           | 655,606.00 usft | Latitude:     | 32.80223      |
|                      | +E/-W | 0.00 usft | Easting:            | 579,598.90 usft | Longitude:    | -104.20881    |
| Position Uncertainty |       | 0.00 usft | Wellhead Elevation: | usft            | Ground Level: | 3,613.00 usft |
| Grid Convergence:    |       | 0.07 °    |                     |                 |               |               |

|                   |                            |                 |                 |                  |      |
|-------------------|----------------------------|-----------------|-----------------|------------------|------|
| Design            | PERMIT                     |                 |                 |                  |      |
| Audit Notes:      |                            |                 |                 |                  |      |
| Version:          |                            | Phase:          | PLAN            | Tie On Depth:    | 0.00 |
| Vertical Section: | Depth From (TVD)<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Direction<br>(°) |      |
|                   | 0.00                       | 0.00            | 0.00            | 89.05            |      |

|                          |                    |                   |             |                       |  |
|--------------------------|--------------------|-------------------|-------------|-----------------------|--|
| Plan Survey Tool Program | Date               | 12/17/2024        |             |                       |  |
| Depth From<br>(usft)     | Depth To<br>(usft) | Survey (Wellbore) | Tool Name   | Remarks               |  |
| 1                        | 0.00               | 10,099.28         | PERMIT (OH) | MWD+IFR1+SAG+FDIR     |  |
|                          |                    |                   |             | OWSG MWD + IFR1 + Sag |  |

|                             |                    |                |                             |                 |                 |                               |                              |                             |            |                 |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|------------------------------|-----------------------------|------------|-----------------|
| Plan Sections               |                    |                |                             |                 |                 |                               |                              |                             |            |                 |
| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) | TFO<br>(°) | 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       |                 |
| 469.46                      | 3.39               | 334.24         | 469.36                      | 4.51            | -2.18           | 2.00                          | 2.00                         | 0.00                        | 334.24     |                 |
| 3,513.12                    | 3.39               | 334.24         | 3,507.69                    | 166.56          | -80.37          | 0.00                          | 0.00                         | 0.00                        | 0.00       |                 |
| 4,537.59                    | 60.00              | 89.05          | 4,358.35                    | 204.96          | 396.67          | 6.00                          | 5.53                         | 11.21                       | 116.52     |                 |
| 4,737.59                    | 60.00              | 89.05          | 4,458.35                    | 207.83          | 569.85          | 0.00                          | 0.00                         | 0.00                        | 0.00       |                 |
| 5,026.29                    | 88.87              | 89.05          | 4,535.00                    | 212.40          | 845.00          | 10.00                         | 10.00                        | 0.00                        | 0.00       | SMITHDALE 90H F |
| 10,049.26                   | 88.87              | 89.05          | 4,634.01                    | 295.77          | 5,866.30        | 0.00                          | 0.00                         | 0.00                        | 0.00       | SMITHDALE 90H L |
| 10,099.28                   | 88.87              | 89.05          | 4,635.00                    | 296.60          | 5,916.30        | 0.00                          | 0.00                         | 0.00                        | 0.00       | SMITHDALE 90H E |

## Planning Report

|                  |                                |                                     |                                    |
|------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Database:</b> | EDM 5000.17 Single User Db     | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Company:</b>  | SPUR ENERGY PARTNERS, LLC      | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Project:</b>  | EDDY COUNTY, NM (NAD 83 - NME) | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site:</b>     | SMITHDALE 29 FEDERAL           | <b>North Reference:</b>             | Grid                               |
| <b>Well:</b>     | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Wellbore:</b> | OH                             |                                     |                                    |
| <b>Design:</b>   | 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                  |
| <b>SMITHDALE 90H SHL: 1594' FSL, 744' FEL</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 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            | 334.24      | 399.98                | 1.57         | -0.76        | -0.73                   | 2.00                    | 2.00                   | 0.00                  |
| 469.46                                        | 3.39            | 334.24      | 469.36                | 4.51         | -2.18        | -2.10                   | 2.00                    | 2.00                   | 0.00                  |
| 500.00                                        | 3.39            | 334.24      | 499.85                | 6.14         | -2.96        | -2.86                   | 0.00                    | 0.00                   | 0.00                  |
| 600.00                                        | 3.39            | 334.24      | 599.67                | 11.46        | -5.53        | -5.34                   | 0.00                    | 0.00                   | 0.00                  |
| 700.00                                        | 3.39            | 334.24      | 699.50                | 16.79        | -8.10        | -7.82                   | 0.00                    | 0.00                   | 0.00                  |
| 800.00                                        | 3.39            | 334.24      | 799.32                | 22.11        | -10.67       | -10.30                  | 0.00                    | 0.00                   | 0.00                  |
| 900.00                                        | 3.39            | 334.24      | 899.15                | 27.44        | -13.24       | -12.78                  | 0.00                    | 0.00                   | 0.00                  |
| 1,000.00                                      | 3.39            | 334.24      | 998.97                | 32.76        | -15.81       | -15.26                  | 0.00                    | 0.00                   | 0.00                  |
| 1,100.00                                      | 3.39            | 334.24      | 1,098.80              | 38.08        | -18.38       | -17.74                  | 0.00                    | 0.00                   | 0.00                  |
| 1,200.00                                      | 3.39            | 334.24      | 1,198.62              | 43.41        | -20.95       | -20.22                  | 0.00                    | 0.00                   | 0.00                  |
| 1,300.00                                      | 3.39            | 334.24      | 1,298.45              | 48.73        | -23.52       | -22.70                  | 0.00                    | 0.00                   | 0.00                  |
| 1,400.00                                      | 3.39            | 334.24      | 1,398.27              | 54.06        | -26.08       | -25.18                  | 0.00                    | 0.00                   | 0.00                  |
| 1,500.00                                      | 3.39            | 334.24      | 1,498.10              | 59.38        | -28.65       | -27.66                  | 0.00                    | 0.00                   | 0.00                  |
| 1,600.00                                      | 3.39            | 334.24      | 1,597.92              | 64.71        | -31.22       | -30.15                  | 0.00                    | 0.00                   | 0.00                  |
| 1,700.00                                      | 3.39            | 334.24      | 1,697.75              | 70.03        | -33.79       | -32.63                  | 0.00                    | 0.00                   | 0.00                  |
| 1,800.00                                      | 3.39            | 334.24      | 1,797.57              | 75.35        | -36.36       | -35.11                  | 0.00                    | 0.00                   | 0.00                  |
| 1,900.00                                      | 3.39            | 334.24      | 1,897.40              | 80.68        | -38.93       | -37.59                  | 0.00                    | 0.00                   | 0.00                  |
| 2,000.00                                      | 3.39            | 334.24      | 1,997.22              | 86.00        | -41.50       | -40.07                  | 0.00                    | 0.00                   | 0.00                  |
| 2,100.00                                      | 3.39            | 334.24      | 2,097.05              | 91.33        | -44.07       | -42.55                  | 0.00                    | 0.00                   | 0.00                  |
| 2,200.00                                      | 3.39            | 334.24      | 2,196.87              | 96.65        | -46.64       | -45.03                  | 0.00                    | 0.00                   | 0.00                  |
| 2,300.00                                      | 3.39            | 334.24      | 2,296.70              | 101.98       | -49.21       | -47.51                  | 0.00                    | 0.00                   | 0.00                  |
| 2,400.00                                      | 3.39            | 334.24      | 2,396.52              | 107.30       | -51.78       | -49.99                  | 0.00                    | 0.00                   | 0.00                  |
| 2,500.00                                      | 3.39            | 334.24      | 2,496.35              | 112.62       | -54.34       | -52.47                  | 0.00                    | 0.00                   | 0.00                  |
| 2,600.00                                      | 3.39            | 334.24      | 2,596.18              | 117.95       | -56.91       | -54.95                  | 0.00                    | 0.00                   | 0.00                  |
| 2,700.00                                      | 3.39            | 334.24      | 2,696.00              | 123.27       | -59.48       | -57.43                  | 0.00                    | 0.00                   | 0.00                  |
| 2,800.00                                      | 3.39            | 334.24      | 2,795.83              | 128.60       | -62.05       | -59.91                  | 0.00                    | 0.00                   | 0.00                  |
| 2,900.00                                      | 3.39            | 334.24      | 2,895.65              | 133.92       | -64.62       | -62.39                  | 0.00                    | 0.00                   | 0.00                  |
| 3,000.00                                      | 3.39            | 334.24      | 2,995.48              | 139.24       | -67.19       | -64.87                  | 0.00                    | 0.00                   | 0.00                  |
| 3,100.00                                      | 3.39            | 334.24      | 3,095.30              | 144.57       | -69.76       | -67.35                  | 0.00                    | 0.00                   | 0.00                  |
| 3,200.00                                      | 3.39            | 334.24      | 3,195.13              | 149.89       | -72.33       | -69.83                  | 0.00                    | 0.00                   | 0.00                  |
| 3,300.00                                      | 3.39            | 334.24      | 3,294.95              | 155.22       | -74.90       | -72.31                  | 0.00                    | 0.00                   | 0.00                  |
| 3,400.00                                      | 3.39            | 334.24      | 3,394.78              | 160.54       | -77.47       | -74.79                  | 0.00                    | 0.00                   | 0.00                  |
| 3,500.00                                      | 3.39            | 334.24      | 3,494.60              | 165.87       | -80.04       | -77.27                  | 0.00                    | 0.00                   | 0.00                  |
| 3,513.11                                      | 3.39            | 334.24      | 3,507.69              | 166.56       | -80.37       | -77.60                  | 0.00                    | 0.00                   | 0.00                  |
| <b>SMITHDALE 90H KOP: 3513.12' MD</b>         |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,550.00                                      | 3.11            | 13.78       | 3,544.52              | 168.52       | -80.61       | -77.80                  | 6.00                    | -0.75                  | 107.18                |
| 3,600.00                                      | 4.78            | 51.51       | 3,594.41              | 171.13       | -78.65       | -75.81                  | 6.00                    | 3.34                   | 75.46                 |
| 3,650.00                                      | 7.35            | 66.55       | 3,644.13              | 173.70       | -74.09       | -71.20                  | 6.00                    | 5.14                   | 30.10                 |
| 3,700.00                                      | 10.16           | 73.60       | 3,693.54              | 176.22       | -66.92       | -63.99                  | 6.00                    | 5.61                   | 14.10                 |
| 3,750.00                                      | 13.05           | 77.59       | 3,742.52              | 178.68       | -57.18       | -54.21                  | 6.00                    | 5.79                   | 7.97                  |
| 3,800.00                                      | 15.98           | 80.14       | 3,790.92              | 181.07       | -44.88       | -41.87                  | 6.00                    | 5.86                   | 5.10                  |
| 3,850.00                                      | 18.93           | 81.92       | 3,838.61              | 183.39       | -30.06       | -27.02                  | 6.00                    | 5.91                   | 3.55                  |
| 3,900.00                                      | 21.90           | 83.23       | 3,885.46              | 185.63       | -12.77       | -9.69                   | 6.00                    | 5.93                   | 2.62                  |
| 3,950.00                                      | 24.87           | 84.24       | 3,931.35              | 187.79       | 6.96         | 10.07                   | 6.00                    | 5.95                   | 2.02                  |
| 4,000.00                                      | 27.85           | 85.05       | 3,976.15              | 189.85       | 29.06        | 32.20                   | 6.00                    | 5.96                   | 1.61                  |
| 4,050.00                                      | 30.83           | 85.71       | 4,019.73              | 191.82       | 53.48        | 56.65                   | 6.00                    | 5.96                   | 1.32                  |
| 4,100.00                                      | 33.82           | 86.27       | 4,061.97              | 193.68       | 80.15        | 83.35                   | 6.00                    | 5.97                   | 1.11                  |
| 4,150.00                                      | 36.81           | 86.74       | 4,102.77              | 195.44       | 108.99       | 112.22                  | 6.00                    | 5.97                   | 0.95                  |
| 4,200.00                                      | 39.79           | 87.16       | 4,142.00              | 197.09       | 139.93       | 143.18                  | 6.00                    | 5.98                   | 0.83                  |

## Planning Report

|                  |                                |                                     |                                    |
|------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Database:</b> | EDM 5000.17 Single User Db     | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Company:</b>  | SPUR ENERGY PARTNERS, LLC      | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Project:</b>  | EDDY COUNTY, NM (NAD 83 - NME) | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site:</b>     | SMITHDALE 29 FEDERAL           | <b>North Reference:</b>             | Grid                               |
| <b>Well:</b>     | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Wellbore:</b> | OH                             |                                     |                                    |
| <b>Design:</b>   | 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) |
| 4,250.00                               | 42.79           | 87.52       | 4,179.57              | 198.62       | 172.89       | 176.16                  | 6.00                    | 5.98                   | 0.73                  |
| 4,300.00                               | 45.78           | 87.85       | 4,215.36              | 200.02       | 207.76       | 211.05                  | 6.00                    | 5.98                   | 0.65                  |
| 4,350.00                               | 48.77           | 88.14       | 4,249.28              | 201.31       | 244.46       | 247.77                  | 6.00                    | 5.98                   | 0.59                  |
| 4,400.00                               | 51.76           | 88.41       | 4,281.24              | 202.46       | 282.89       | 286.21                  | 6.00                    | 5.99                   | 0.54                  |
| 4,450.00                               | 54.76           | 88.66       | 4,311.15              | 203.49       | 322.94       | 326.27                  | 6.00                    | 5.99                   | 0.49                  |
| 4,500.00                               | 57.75           | 88.89       | 4,338.92              | 204.38       | 364.50       | 367.84                  | 6.00                    | 5.99                   | 0.46                  |
| 4,537.59                               | 60.00           | 89.05       | 4,358.35              | 204.96       | 396.67       | 400.02                  | 6.00                    | 5.99                   | 0.43                  |
| 4,600.00                               | 60.00           | 89.05       | 4,389.56              | 205.85       | 450.72       | 454.07                  | 0.00                    | 0.00                   | 0.00                  |
| 4,700.00                               | 60.00           | 89.05       | 4,439.56              | 207.29       | 537.31       | 540.67                  | 0.00                    | 0.00                   | 0.00                  |
| 4,737.59                               | 60.00           | 89.05       | 4,458.35              | 207.83       | 569.85       | 573.22                  | 0.00                    | 0.00                   | 0.00                  |
| 4,750.00                               | 61.24           | 89.05       | 4,464.44              | 208.01       | 580.67       | 584.04                  | 10.00                   | 10.00                  | 0.00                  |
| 4,800.00                               | 66.24           | 89.05       | 4,486.55              | 208.76       | 625.49       | 628.86                  | 10.00                   | 10.00                  | 0.00                  |
| 4,850.00                               | 71.24           | 89.05       | 4,504.68              | 209.53       | 672.06       | 675.45                  | 10.00                   | 10.00                  | 0.00                  |
| 4,900.00                               | 76.24           | 89.05       | 4,518.67              | 210.33       | 720.04       | 723.43                  | 10.00                   | 10.00                  | 0.00                  |
| 4,950.00                               | 81.24           | 89.05       | 4,528.43              | 211.14       | 769.06       | 772.45                  | 10.00                   | 10.00                  | 0.00                  |
| 5,000.00                               | 86.24           | 89.05       | 4,533.88              | 211.96       | 818.74       | 822.14                  | 10.00                   | 10.00                  | 0.00                  |
| 5,026.29                               | 88.87           | 89.05       | 4,535.00              | 212.40       | 845.00       | 848.41                  | 10.00                   | 10.00                  | 0.00                  |
| SMITHDALE 90H FTP: 1800' FSL, 100' FWL |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,100.00                               | 88.87           | 89.05       | 4,536.45              | 213.62       | 918.68       | 922.10                  | 0.00                    | 0.00                   | 0.00                  |
| 5,200.00                               | 88.87           | 89.05       | 4,538.42              | 215.28       | 1,018.65     | 1,022.08                | 0.00                    | 0.00                   | 0.00                  |
| 5,300.00                               | 88.87           | 89.05       | 4,540.40              | 216.94       | 1,118.62     | 1,122.06                | 0.00                    | 0.00                   | 0.00                  |
| 5,400.00                               | 88.87           | 89.05       | 4,542.37              | 218.60       | 1,218.58     | 1,222.04                | 0.00                    | 0.00                   | 0.00                  |
| 5,500.00                               | 88.87           | 89.05       | 4,544.34              | 220.26       | 1,318.55     | 1,322.02                | 0.00                    | 0.00                   | 0.00                  |
| 5,600.00                               | 88.87           | 89.05       | 4,546.31              | 221.92       | 1,418.52     | 1,422.00                | 0.00                    | 0.00                   | 0.00                  |
| 5,700.00                               | 88.87           | 89.05       | 4,548.28              | 223.58       | 1,518.48     | 1,521.98                | 0.00                    | 0.00                   | 0.00                  |
| 5,800.00                               | 88.87           | 89.05       | 4,550.25              | 225.24       | 1,618.45     | 1,621.96                | 0.00                    | 0.00                   | 0.00                  |
| 5,900.00                               | 88.87           | 89.05       | 4,552.22              | 226.90       | 1,718.42     | 1,721.94                | 0.00                    | 0.00                   | 0.00                  |
| 6,000.00                               | 88.87           | 89.05       | 4,554.19              | 228.56       | 1,818.38     | 1,821.92                | 0.00                    | 0.00                   | 0.00                  |
| 6,100.00                               | 88.87           | 89.05       | 4,556.17              | 230.22       | 1,918.35     | 1,921.90                | 0.00                    | 0.00                   | 0.00                  |
| 6,200.00                               | 88.87           | 89.05       | 4,558.14              | 231.88       | 2,018.32     | 2,021.89                | 0.00                    | 0.00                   | 0.00                  |
| 6,300.00                               | 88.87           | 89.05       | 4,560.11              | 233.54       | 2,118.28     | 2,121.87                | 0.00                    | 0.00                   | 0.00                  |
| 6,400.00                               | 88.87           | 89.05       | 4,562.08              | 235.20       | 2,218.25     | 2,221.85                | 0.00                    | 0.00                   | 0.00                  |
| 6,500.00                               | 88.87           | 89.05       | 4,564.05              | 236.86       | 2,318.22     | 2,321.83                | 0.00                    | 0.00                   | 0.00                  |
| 6,600.00                               | 88.87           | 89.05       | 4,566.02              | 238.52       | 2,418.19     | 2,421.81                | 0.00                    | 0.00                   | 0.00                  |
| 6,700.00                               | 88.87           | 89.05       | 4,567.99              | 240.18       | 2,518.15     | 2,521.79                | 0.00                    | 0.00                   | 0.00                  |
| 6,800.00                               | 88.87           | 89.05       | 4,569.96              | 241.84       | 2,618.12     | 2,621.77                | 0.00                    | 0.00                   | 0.00                  |
| 6,900.00                               | 88.87           | 89.05       | 4,571.94              | 243.50       | 2,718.09     | 2,721.75                | 0.00                    | 0.00                   | 0.00                  |
| 7,000.00                               | 88.87           | 89.05       | 4,573.91              | 245.16       | 2,818.05     | 2,821.73                | 0.00                    | 0.00                   | 0.00                  |
| 7,100.00                               | 88.87           | 89.05       | 4,575.88              | 246.82       | 2,918.02     | 2,921.71                | 0.00                    | 0.00                   | 0.00                  |
| 7,200.00                               | 88.87           | 89.05       | 4,577.85              | 248.48       | 3,017.99     | 3,021.69                | 0.00                    | 0.00                   | 0.00                  |
| 7,300.00                               | 88.87           | 89.05       | 4,579.82              | 250.14       | 3,117.95     | 3,121.67                | 0.00                    | 0.00                   | 0.00                  |
| 7,400.00                               | 88.87           | 89.05       | 4,581.79              | 251.80       | 3,217.92     | 3,221.65                | 0.00                    | 0.00                   | 0.00                  |
| 7,500.00                               | 88.87           | 89.05       | 4,583.76              | 253.46       | 3,317.89     | 3,321.63                | 0.00                    | 0.00                   | 0.00                  |
| 7,600.00                               | 88.87           | 89.05       | 4,585.73              | 255.12       | 3,417.85     | 3,421.61                | 0.00                    | 0.00                   | 0.00                  |
| 7,700.00                               | 88.87           | 89.05       | 4,587.70              | 256.78       | 3,517.82     | 3,521.59                | 0.00                    | 0.00                   | 0.00                  |
| 7,800.00                               | 88.87           | 89.05       | 4,589.68              | 258.44       | 3,617.79     | 3,621.57                | 0.00                    | 0.00                   | 0.00                  |
| 7,900.00                               | 88.87           | 89.05       | 4,591.65              | 260.10       | 3,717.75     | 3,721.55                | 0.00                    | 0.00                   | 0.00                  |
| 8,000.00                               | 88.87           | 89.05       | 4,593.62              | 261.76       | 3,817.72     | 3,821.54                | 0.00                    | 0.00                   | 0.00                  |
| 8,100.00                               | 88.87           | 89.05       | 4,595.59              | 263.42       | 3,917.69     | 3,921.52                | 0.00                    | 0.00                   | 0.00                  |
| 8,200.00                               | 88.87           | 89.05       | 4,597.56              | 265.08       | 4,017.65     | 4,021.50                | 0.00                    | 0.00                   | 0.00                  |
| 8,300.00                               | 88.87           | 89.05       | 4,599.53              | 266.74       | 4,117.62     | 4,121.48                | 0.00                    | 0.00                   | 0.00                  |
| 8,400.00                               | 88.87           | 89.05       | 4,601.50              | 268.40       | 4,217.59     | 4,221.46                | 0.00                    | 0.00                   | 0.00                  |
| 8,500.00                               | 88.87           | 89.05       | 4,603.47              | 270.06       | 4,317.55     | 4,321.44                | 0.00                    | 0.00                   | 0.00                  |
| 8,600.00                               | 88.87           | 89.05       | 4,605.45              | 271.72       | 4,417.52     | 4,421.42                | 0.00                    | 0.00                   | 0.00                  |

## Planning Report

|                  |                                |                                     |                                    |
|------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Database:</b> | EDM 5000.17 Single User Db     | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Company:</b>  | SPUR ENERGY PARTNERS, LLC      | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Project:</b>  | EDDY COUNTY, NM (NAD 83 - NME) | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site:</b>     | SMITHDALE 29 FEDERAL           | <b>North Reference:</b>             | Grid                               |
| <b>Well:</b>     | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Wellbore:</b> | OH                             |                                     |                                    |
| <b>Design:</b>   | PERMIT                         |                                     |                                    |

| Planned Survey                                |                 |             |                       |              |              |                         |                         |                        |                       |
|-----------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)                         | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 8,700.00                                      | 88.87           | 89.05       | 4,607.42              | 273.38       | 4,517.49     | 4,521.40                | 0.00                    | 0.00                   | 0.00                  |
| 8,800.00                                      | 88.87           | 89.05       | 4,609.39              | 275.03       | 4,617.45     | 4,621.38                | 0.00                    | 0.00                   | 0.00                  |
| 8,900.00                                      | 88.87           | 89.05       | 4,611.36              | 276.69       | 4,717.42     | 4,721.36                | 0.00                    | 0.00                   | 0.00                  |
| 9,000.00                                      | 88.87           | 89.05       | 4,613.33              | 278.35       | 4,817.39     | 4,821.34                | 0.00                    | 0.00                   | 0.00                  |
| 9,100.00                                      | 88.87           | 89.05       | 4,615.30              | 280.01       | 4,917.36     | 4,921.32                | 0.00                    | 0.00                   | 0.00                  |
| 9,200.00                                      | 88.87           | 89.05       | 4,617.27              | 281.67       | 5,017.32     | 5,021.30                | 0.00                    | 0.00                   | 0.00                  |
| 9,300.00                                      | 88.87           | 89.05       | 4,619.24              | 283.33       | 5,117.29     | 5,121.28                | 0.00                    | 0.00                   | 0.00                  |
| 9,400.00                                      | 88.87           | 89.05       | 4,621.22              | 284.99       | 5,217.26     | 5,221.26                | 0.00                    | 0.00                   | 0.00                  |
| 9,500.00                                      | 88.87           | 89.05       | 4,623.19              | 286.65       | 5,317.22     | 5,321.24                | 0.00                    | 0.00                   | 0.00                  |
| 9,600.00                                      | 88.87           | 89.05       | 4,625.16              | 288.31       | 5,417.19     | 5,421.22                | 0.00                    | 0.00                   | 0.00                  |
| 9,700.00                                      | 88.87           | 89.05       | 4,627.13              | 289.97       | 5,517.16     | 5,521.21                | 0.00                    | 0.00                   | 0.00                  |
| 9,800.00                                      | 88.87           | 89.05       | 4,629.10              | 291.63       | 5,617.12     | 5,621.19                | 0.00                    | 0.00                   | 0.00                  |
| 9,900.00                                      | 88.87           | 89.05       | 4,631.07              | 293.29       | 5,717.09     | 5,721.17                | 0.00                    | 0.00                   | 0.00                  |
| 10,000.00                                     | 88.87           | 89.05       | 4,633.04              | 294.95       | 5,817.06     | 5,821.15                | 0.00                    | 0.00                   | 0.00                  |
| 10,049.26                                     | 88.87           | 89.05       | 4,634.01              | 295.77       | 5,866.30     | 5,870.40                | 0.00                    | 0.00                   | 0.00                  |
| <b>SMITHDALE 90H LTP: 1800' FSL, 100' FEL</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,099.28                                     | 88.87           | 89.05       | 4,635.00              | 296.60       | 5,916.30     | 5,920.40                | 0.00                    | 0.00                   | 0.00                  |
| <b>SMITHDALE 90H BHL: 1800' FSL, 50' FEL</b>  |                 |             |                       |              |              |                         |                         |                        |                       |

| Design Targets                                                                                                                |               |              |            |              |              |                 |                |          |            |
|-------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|----------|------------|
| Target Name<br>- hit/miss target<br>- Shape                                                                                   | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude  |
| SMITHDALE 90H SHI<br>- plan hits target center<br>- Point                                                                     | 0.00          | 0.00         | 0.00       | 0.00         | 0.00         | 655,606.00      | 579,598.90     | 32.80223 | -104.20881 |
| SMITHDALE 90H KO<br>- plan hits target center<br>- Point                                                                      | 0.00          | 0.00         | 3,507.69   | 166.56       | -80.37       | 655,772.57      | 579,518.53     | 32.80269 | -104.20907 |
| SMITHDALE 90H FTF<br>- plan hits target center<br>- Point                                                                     | 0.00          | 0.01         | 4,535.00   | 212.40       | 845.00       | 655,818.40      | 580,443.90     | 32.80281 | -104.20606 |
| SMITHDALE 90H LTF<br>- plan misses target center by 0.03usft at 10049.26usft MD (4634.01 TVD, 295.77 N, 5866.30 E)<br>- Point | 0.00          | 0.01         | 4,634.01   | 295.80       | 5,866.30     | 655,901.80      | 585,465.20     | 32.80302 | -104.18972 |
| SMITHDALE 90H BHI<br>- plan hits target center<br>- Point                                                                     | 0.00          | 0.01         | 4,635.00   | 296.60       | 5,916.30     | 655,902.60      | 585,515.20     | 32.80302 | -104.18955 |

# **SPUR ENERGY PARTNERS, LLC**

**EDDY COUNTY, NM (NAD 83 - NME)  
SMITHDALE 29 FEDERAL  
90H**

**OH  
PERMIT**

## **Anticollision Report**

**18 December, 2024**

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | Offset Datum                       |

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

|                            |                  |                                         |
|----------------------------|------------------|-----------------------------------------|
| <b>Survey Tool Program</b> | <b>Date</b>      | 12/18/2024                              |
| <b>From (usft)</b>         | <b>To (usft)</b> | <b>Survey (Wellbore)</b>                |
| 0.00                       | 10,099.28        | PERMIT (OH)                             |
|                            |                  | <b>Tool Name</b>                        |
|                            |                  | MWD+IFR1+SAG+FDIR                       |
|                            |                  | <b>Description</b>                      |
|                            |                  | OWSG MWD + IFR1 + Sag + FDIR Correction |

| 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                               |                                 |                              |                                 |                                  |                   |                     |
| 50H - OH - PERMIT                                  | 300.00                          | 300.00                       | 20.01                           | 18.01                            | 9.969             | CC, ES              |
| 50H - OH - PERMIT                                  | 10,099.28                       | 9,544.30                     | 726.61                          | 629.86                           | 7.510             | SF                  |
| 70H - OH - PERMIT                                  | 532.31                          | 530.45                       | 18.23                           | 14.57                            | 4.981             | CC, ES              |
| 70H - OH - PERMIT                                  | 10,099.28                       | 9,757.94                     | 460.26                          | 349.19                           | 4.144             | SF                  |
| 71H - OH - PERMIT                                  | 266.33                          | 267.33                       | 60.04                           | 58.27                            | 33.927            | CC                  |
| 71H - OH - PERMIT                                  | 300.00                          | 300.99                       | 60.04                           | 58.03                            | 29.857            | ES                  |
| 71H - OH - PERMIT                                  | 10,099.28                       | 9,850.70                     | 1,339.93                        | 1,208.22                         | 10.174            | SF                  |
| 91H - OH - PERMIT                                  | 266.33                          | 267.33                       | 40.02                           | 38.26                            | 22.618            | CC                  |
| 91H - OH - PERMIT                                  | 300.00                          | 301.00                       | 40.03                           | 38.01                            | 19.905            | ES                  |
| 91H - OH - PERMIT                                  | 10,099.28                       | 10,167.99                    | 949.75                          | 813.95                           | 6.994             | SF                  |
| OFFSET: ANTHONEY 1 - Wellbore #1 - Wellbore #1     | 300.00                          | 307.00                       | 681.82                          | 675.44                           | 106.813           | CC                  |
| OFFSET: ANTHONEY 1 - Wellbore #1 - Wellbore #1     | 4,538.73                        | 4,364.29                     | 747.10                          | 645.53                           | 7.356             | ES                  |
| OFFSET: ANTHONEY 1 - Wellbore #1 - Wellbore #1     | 4,600.00                        | 4,393.69                     | 748.88                          | 646.43                           | 7.310             | SF                  |
| OFFSET: ANTHONEY 2 - Wellbore #1 - Wellbore #1     | 300.00                          | 322.00                       | 1,167.85                        | 1,161.21                         | 175.721           | CC                  |
| OFFSET: ANTHONEY 2 - Wellbore #1 - Wellbore #1     | 400.00                          | 421.98                       | 1,169.38                        | 1,160.63                         | 133.544           | ES                  |
| OFFSET: ANTHONEY 2 - Wellbore #1 - Wellbore #1     | 4,400.00                        | 4,299.89                     | 1,410.21                        | 1,313.49                         | 14.580            | SF                  |
| OFFSET: ANTHONEY STATE 3 - Wellbore #1 - Wellbore  | 304.45                          | 331.27                       | 1,182.65                        | 1,172.55                         | 117.148           | CC                  |
| OFFSET: ANTHONEY STATE 3 - Wellbore #1 - Wellbore  | 400.00                          | 427.21                       | 1,184.12                        | 1,171.05                         | 90.623            | ES                  |
| OFFSET: ANTHONEY STATE 3 - Wellbore #1 - Wellbore  | 4,900.00                        | 4,581.00                     | 1,483.83                        | 1,450.64                         | 44.710            | SF                  |
| OFFSET: ANTHONEY STATE 4 - PLANNED DEV SURV        | 2,194.41                        | 2,313.61                     | 756.67                          | 737.81                           | 40.114            | CC                  |
| OFFSET: ANTHONEY STATE 4 - PLANNED DEV SURV        | 2,200.00                        | 2,317.76                     | 756.67                          | 737.78                           | 40.048            | ES                  |
| OFFSET: ANTHONEY STATE 4 - PLANNED DEV SURV        | 3,800.00                        | 3,878.40                     | 836.59                          | 810.63                           | 32.218            | SF                  |
| OFFSET: OUTLAW STATE 1 - Wellbore #1 - Wellbore #1 | 9,780.51                        | 4,697.62                     | 1,359.19                        | 1,186.30                         | 7.862             | CC                  |
| OFFSET: OUTLAW STATE 1 - Wellbore #1 - Wellbore #1 | 9,800.00                        | 4,697.96                     | 1,359.33                        | 1,186.23                         | 7.853             | ES                  |
| OFFSET: OUTLAW STATE 1 - Wellbore #1 - Wellbore #1 | 9,900.00                        | 4,699.69                     | 1,364.43                        | 1,190.48                         | 7.844             | SF                  |
| OFFSET: OUTLAW STATE 10 - Wellbore #1 - Wellbore # | 8,494.43                        | 4,673.78                     | 150.51                          | -4.58                            | 0.970             | Level 1, CC, ES, SF |
| OFFSET: OUTLAW STATE 11 - Wellbore #1 - Wellbore # | 8,387.83                        | 4,652.80                     | 508.70                          | 343.59                           | 3.081             | CC, ES              |
| OFFSET: OUTLAW STATE 11 - Wellbore #1 - Wellbore # | 8,400.00                        | 4,653.04                     | 508.84                          | 343.59                           | 3.079             | SF                  |
| OFFSET: OUTLAW STATE 2 - Wellbore #1 - Wellbore #1 | 9,136.07                        | 4,680.42                     | 810.05                          | 659.56                           | 5.383             | CC, ES              |
| OFFSET: OUTLAW STATE 2 - Wellbore #1 - Wellbore #1 | 9,200.00                        | 4,681.66                     | 812.57                          | 661.58                           | 5.382             | SF                  |
| OFFSET: OUTLAW STATE 3 - Wellbore #1 - Wellbore #1 | 9,120.01                        | 4,688.18                     | 1,359.90                        | 1,210.31                         | 9.090             | CC, ES              |
| OFFSET: OUTLAW STATE 3 - Wellbore #1 - Wellbore #1 | 9,200.00                        | 4,689.76                     | 1,362.25                        | 1,211.89                         | 9.060             | SF                  |
| OFFSET: OUTLAW STATE 4 - Wellbore #1 - Wellbore #1 | 9,924.00                        | 4,707.18                     | 885.22                          | 700.60                           | 4.795             | CC, ES, SF          |
| OFFSET: OUTLAW STATE 5 - Wellbore #1 - Wellbore #1 | 7,797.54                        | 4,674.76                     | 1,470.54                        | 1,343.16                         | 11.544            | CC                  |
| OFFSET: OUTLAW STATE 5 - Wellbore #1 - Wellbore #1 | 7,800.00                        | 4,674.81                     | 1,470.54                        | 1,343.13                         | 11.542            | ES                  |
| OFFSET: OUTLAW STATE 5 - Wellbore #1 - Wellbore #1 | 7,900.00                        | 4,676.78                     | 1,474.10                        | 1,345.74                         | 11.484            | SF                  |
| OFFSET: OUTLAW STATE 6 - Wellbore #1 - Wellbore #1 | 8,474.82                        | 4,682.32                     | 809.99                          | 670.66                           | 5.813             | CC, ES              |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | Offset Datum                       |

## Summary

| Site Name                                           | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning             |
|-----------------------------------------------------|---------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|---------------------|
| SMITHDALE 29 FEDERAL                                |                                 |                              |                                 |                                  |                   |                     |
| Offset: OUTLAW STATE 6 - Wellbore #1 - Wellbore #1  | 8,500.00                        | 4,682.82                     | 810.38                          | 670.81                           | 5.806             | SF                  |
| Offset: OUTLAW STATE 7 - Wellbore #1 - Wellbore #1  | 8,456.41                        | 4,668.37                     | 1,470.13                        | 1,320.69                         | 9.837             | CC, ES              |
| Offset: OUTLAW STATE 7 - Wellbore #1 - Wellbore #1  | 8,600.00                        | 4,671.20                     | 1,477.13                        | 1,326.36                         | 9.798             | SF                  |
| Offset: OUTLAW STATE 8 - Wellbore #1 - Wellbore #1  | 7,814.22                        | 4,664.19                     | 810.10                          | 676.63                           | 6.070             | CC, ES, SF          |
| Offset: OUTLAW STATE 9 - Wellbore #1 - Wellbore #1  | 7,832.66                        | 4,656.54                     | 150.01                          | 20.00                            | 1.154             | Level 2, CC, ES, SF |
| Offset: OUTLAW STATE 12 - Wellbore #1 - Wellbore #  | 7,831.23                        | 4,640.67                     | 453.54                          | 280.89                           | 2.627             | CC, ES, SF          |
| Offset: STALEY STATE 21 - Wellbore #1 - Wellbore #1 | 4,578.45                        | 4,374.49                     | 154.64                          | 52.84                            | 1.519             | CC, ES, SF          |
| Offset: STALEY STATE 25 - Wellbore #1 - Wellbore #1 | 3,723.40                        | 3,692.77                     | 540.29                          | 458.94                           | 6.641             | CC                  |
| Offset: STALEY STATE 25 - Wellbore #1 - Wellbore #1 | 3,800.00                        | 3,767.16                     | 541.41                          | 458.45                           | 6.526             | ES                  |
| Offset: STALEY STATE 25 - Wellbore #1 - Wellbore #1 | 4,000.00                        | 3,953.59                     | 558.84                          | 471.86                           | 6.424             | SF                  |
| Offset: STALEY STATE 3 - Wellbore #1 - Wellbore #1  | 4,200.00                        | 3,994.00                     | 604.67                          | 514.61                           | 6.714             | SF                  |
| Offset: STALEY STATE 3 - Wellbore #1 - Wellbore #1  | 4,300.00                        | 3,994.00                     | 594.15                          | 506.81                           | 6.803             | ES                  |
| Offset: STALEY STATE 3 - Wellbore #1 - Wellbore #1  | 4,337.61                        | 3,994.00                     | 593.29                          | 507.25                           | 6.896             | CC                  |
| Offset: STALEY STATE 7 - Wellbore #1 - Wellbore #1  | 3,523.15                        | 3,500.77                     | 163.38                          | 88.44                            | 2.180             | CC, ES              |
| Offset: STALEY STATE 7 - Wellbore #1 - Wellbore #1  | 3,600.00                        | 3,577.47                     | 165.51                          | 88.85                            | 2.159             | SF                  |
| Offset: STATE GAS COM B 1 - Wellbore #1 - Wellbore  | 8,173.61                        | 4,680.03                     | 178.76                          | -55.73                           | 0.762             | Level 1, CC, ES, SF |
| Offset: STATE GAS COM V 1 - Wellbore #1 - Wellbore  | 300.00                          | 300.99                       | 545.12                          | 537.41                           | 70.702            | CC                  |
| Offset: STATE GAS COM V 1 - Wellbore #1 - Wellbore  | 700.00                          | 699.60                       | 551.28                          | 533.29                           | 30.641            | ES                  |
| Offset: STATE GAS COM V 1 - Wellbore #1 - Wellbore  | 3,700.00                        | 3,693.97                     | 651.70                          | 564.63                           | 7.485             | SF                  |

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

| Survey Program: 0-MWD+IFR1+SAG+FDIR |                       |                       |                       |                  |               |                       |              |              |                        |                                  |                           |                   | Offset Site Error: 0.00 usft |                              |  |
|-------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|--------------|--------------|------------------------|----------------------------------|---------------------------|-------------------|------------------------------|------------------------------|--|
| Reference                           |                       |                       |                       | Offset           |               | Semi Major Axis       |              |              |                        | 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) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning                      |                              |  |
| 0.00                                | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | 113.88                | -8.10        | 18.30        | 20.01                  |                                  |                           |                   |                              |                              |  |
| 100.00                              | 100.00                | 100.00                | 100.00                | 0.29             | 0.29          | 113.88                | -8.10        | 18.30        | 20.01                  | 19.44                            | 0.57                      | 34.892            |                              |                              |  |
| 200.00                              | 200.00                | 200.00                | 200.00                | 0.65             | 0.65          | 113.88                | -8.10        | 18.30        | 20.01                  | 18.72                            | 1.29                      | 15.508            |                              |                              |  |
| 300.00                              | 300.00                | 300.00                | 300.00                | 1.00             | 1.00          | 113.88                | -8.10        | 18.30        | 20.01                  | 18.01                            | 2.01                      | 9.969             | CC, ES                       |                              |  |
| 400.00                              | 399.98                | 399.91                | 399.89                | 1.36             | 1.35          | 147.29                | -9.68        | 17.56        | 21.50                  | 18.79                            | 2.71                      | 7.939             |                              |                              |  |
| 500.00                              | 499.85                | 499.25                | 499.09                | 1.73             | 1.69          | 163.92                | -14.38       | 15.37        | 27.53                  | 24.12                            | 3.41                      | 8.071             |                              |                              |  |
| 600.00                              | 599.67                | 597.96                | 597.43                | 2.08             | 2.03          | 178.43                | -22.06       | 11.79        | 37.80                  | 33.69                            | 4.11                      | 9.196             |                              |                              |  |
| 700.00                              | 699.50                | 696.96                | 695.97                | 2.44             | 2.38          | -172.64               | -30.73       | 7.75         | 50.22                  | 45.41                            | 4.81                      | 10.438            |                              |                              |  |
| 800.00                              | 799.32                | 795.96                | 794.50                | 2.80             | 2.73          | -167.32               | -39.40       | 3.71         | 63.35                  | 57.84                            | 5.51                      | 11.491            |                              |                              |  |
| 900.00                              | 899.15                | 894.95                | 893.03                | 3.15             | 3.08          | -163.84               | -48.07       | -0.33        | 76.84                  | 70.63                            | 6.22                      | 12.359            |                              |                              |  |
| 1,000.00                            | 998.97                | 993.95                | 991.57                | 3.51             | 3.44          | -161.40               | -56.74       | -4.38        | 90.53                  | 83.61                            | 6.92                      | 13.077            |                              |                              |  |
| 1,100.00                            | 1,098.80              | 1,092.95              | 1,090.10              | 3.87             | 3.80          | -159.61               | -65.41       | -8.42        | 104.33                 | 96.70                            | 7.63                      | 13.674            |                              |                              |  |
| 1,200.00                            | 1,198.62              | 1,191.94              | 1,188.64              | 4.23             | 4.16          | -158.23               | -74.08       | -12.46       | 118.21                 | 109.88                           | 8.34                      | 14.178            |                              |                              |  |
| 1,300.00                            | 1,298.45              | 1,290.94              | 1,287.17              | 4.59             | 4.52          | -157.15               | -82.75       | -16.50       | 132.15                 | 123.10                           | 9.05                      | 14.607            |                              |                              |  |
| 1,400.00                            | 1,398.27              | 1,389.94              | 1,385.70              | 4.95             | 4.88          | -156.27               | -91.42       | -20.54       | 146.12                 | 136.36                           | 9.76                      | 14.977            |                              |                              |  |
| 1,500.00                            | 1,498.10              | 1,488.93              | 1,484.24              | 5.31             | 5.24          | -155.54               | -100.08      | -24.58       | 160.12                 | 149.65                           | 10.47                     | 15.299            |                              |                              |  |
| 1,600.00                            | 1,597.92              | 1,587.93              | 1,582.77              | 5.67             | 5.60          | -154.94               | -108.75      | -28.62       | 174.14                 | 162.96                           | 11.18                     | 15.582            |                              |                              |  |
| 1,700.00                            | 1,697.75              | 1,686.93              | 1,681.30              | 6.03             | 5.97          | -154.42               | -117.42      | -32.66       | 188.18                 | 176.29                           | 11.89                     | 15.831            |                              |                              |  |
| 1,800.00                            | 1,797.57              | 1,785.92              | 1,779.84              | 6.39             | 6.33          | -153.97               | -126.09      | -36.71       | 202.22                 | 189.63                           | 12.60                     | 16.053            |                              |                              |  |
| 1,900.00                            | 1,897.40              | 1,884.92              | 1,878.37              | 6.74             | 6.69          | -153.58               | -134.76      | -40.75       | 216.28                 | 202.98                           | 13.31                     | 16.252            |                              |                              |  |
| 2,000.00                            | 1,997.22              | 1,983.92              | 1,976.90              | 7.10             | 7.05          | -153.24               | -143.43      | -44.79       | 230.35                 | 216.33                           | 14.02                     | 16.431            |                              |                              |  |
| 2,100.00                            | 2,097.05              | 2,082.91              | 2,075.44              | 7.46             | 7.42          | -152.94               | -152.10      | -48.83       | 244.43                 | 229.70                           | 14.73                     | 16.593            |                              |                              |  |
| 2,200.00                            | 2,196.87              | 2,181.91              | 2,173.97              | 7.82             | 7.78          | -152.67               | -160.77      | -52.87       | 258.51                 | 243.07                           | 15.44                     | 16.740            |                              |                              |  |
| 2,300.00                            | 2,296.70              | 2,280.91              | 2,272.51              | 8.18             | 8.14          | -152.43               | -169.44      | -56.91       | 272.60                 | 256.44                           | 16.15                     | 16.875            |                              |                              |  |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | 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 |                    |           |
| 2,400.00                                               | 2,396.52              | 2,379.90              | 2,371.04              | 8.54             | 8.51          | -152.22                | -178.10        | -60.95       | 286.69                 | 269.82                  | 16.87                     | 16.998            |                    |           |
| 2,500.00                                               | 2,496.35              | 2,478.90              | 2,469.57              | 8.90             | 8.87          | -152.02                | -186.77        | -64.99       | 300.78                 | 283.20                  | 17.58                     | 17.111            |                    |           |
| 2,600.00                                               | 2,596.18              | 2,577.90              | 2,568.11              | 9.26             | 9.23          | -151.84                | -195.44        | -69.04       | 314.88                 | 296.59                  | 18.29                     | 17.216            |                    |           |
| 2,700.00                                               | 2,696.00              | 2,676.89              | 2,666.64              | 9.62             | 9.60          | -151.68                | -204.11        | -73.08       | 328.98                 | 309.98                  | 19.00                     | 17.313            |                    |           |
| 2,800.00                                               | 2,795.83              | 2,775.89              | 2,765.17              | 9.98             | 9.96          | -151.53                | -212.78        | -77.12       | 343.08                 | 323.37                  | 19.71                     | 17.403            |                    |           |
| 2,900.00                                               | 2,895.65              | 2,874.89              | 2,863.71              | 10.34            | 10.32         | -151.39                | -221.45        | -81.16       | 357.19                 | 336.76                  | 20.43                     | 17.487            |                    |           |
| 3,000.00                                               | 2,995.48              | 2,975.32              | 2,963.69              | 10.70            | 10.69         | -151.35                | -230.21        | -84.70       | 371.23                 | 350.08                  | 21.15                     | 17.554            |                    |           |
| 3,100.00                                               | 3,095.30              | 3,078.35              | 3,066.21              | 11.06            | 11.06         | -152.57                | -238.63        | -79.85       | 384.44                 | 362.56                  | 21.87                     | 17.575            |                    |           |
| 3,200.00                                               | 3,195.13              | 3,178.83              | 3,165.18              | 11.42            | 11.39         | -155.23                | -246.06        | -64.49       | 397.16                 | 374.60                  | 22.57                     | 17.600            |                    |           |
| 3,300.00                                               | 3,294.95              | 3,274.73              | 3,257.71              | 11.78            | 11.70         | -158.96                | -252.35        | -40.21       | 410.74                 | 387.53                  | 23.21                     | 17.697            |                    |           |
| 3,400.00                                               | 3,394.78              | 3,364.61              | 3,341.85              | 12.14            | 11.97         | -163.38                | -257.48        | -9.14        | 426.87                 | 403.08                  | 23.78                     | 17.948            |                    |           |
| 3,500.00                                               | 3,494.60              | 3,447.56              | 3,416.65              | 12.49            | 12.21         | -168.09                | -261.52        | 26.44        | 447.29                 | 423.05                  | 24.24                     | 18.449            |                    |           |
| 3,600.00                                               | 3,594.41              | 3,525.12              | 3,483.58              | 12.85            | 12.42         | 109.04                 | -264.66        | 65.45        | 472.19                 | 447.62                  | 24.57                     | 19.221            |                    |           |
| 3,700.00                                               | 3,693.54              | 3,600.00              | 3,545.03              | 13.19            | 12.61         | 81.81                  | -267.09        | 108.14       | 499.22                 | 474.47                  | 24.75                     | 20.167            |                    |           |
| 3,800.00                                               | 3,790.92              | 3,674.00              | 3,602.32              | 13.52            | 12.79         | 70.71                  | -268.89        | 154.91       | 527.21                 | 502.37                  | 24.85                     | 21.218            |                    |           |
| 3,900.00                                               | 3,885.46              | 3,750.00              | 3,657.24              | 13.84            | 13.03         | 63.54                  | -270.12        | 207.41       | 555.22                 | 530.32                  | 24.91                     | 22.291            |                    |           |
| 4,000.00                                               | 3,976.15              | 3,816.67              | 3,701.87              | 14.17            | 13.27         | 58.46                  | -270.66        | 256.91       | 582.43                 | 557.65                  | 24.78                     | 23.508            |                    |           |
| 4,100.00                                               | 4,061.97              | 3,886.23              | 3,744.66              | 14.50            | 13.54         | 54.33                  | -270.70        | 311.74       | 608.26                 | 583.60                  | 24.65                     | 24.672            |                    |           |
| 4,200.00                                               | 4,142.00              | 3,950.00              | 3,780.31              | 14.84            | 13.80         | 51.07                  | -270.26        | 364.59       | 632.23                 | 607.81                  | 24.42                     | 25.886            |                    |           |
| 4,300.00                                               | 4,215.36              | 4,038.50              | 3,825.10              | 15.20            | 14.21         | 48.01                  | -269.06        | 440.90       | 653.22                 | 628.60                  | 24.62                     | 26.533            |                    |           |
| 4,400.00                                               | 4,281.24              | 4,136.53              | 3,874.12              | 15.57            | 14.70         | 45.90                  | -267.65        | 525.78       | 667.64                 | 642.56                  | 25.08                     | 26.622            |                    |           |
| 4,500.00                                               | 4,338.92              | 4,212.80              | 3,911.67              | 15.98            | 15.10         | 44.84                  | -266.55        | 592.15       | 675.38                 | 650.09                  | 25.29                     | 26.703            |                    |           |
| 4,600.00                                               | 4,389.56              | 4,266.65              | 3,934.02              | 16.42            | 15.41         | 44.34                  | -265.73        | 641.12       | 682.76                 | 657.59                  | 25.17                     | 27.127            |                    |           |
| 4,700.00                                               | 4,439.56              | 4,319.12              | 3,951.28              | 16.90            | 15.71         | 43.77                  | -264.91        | 690.65       | 696.35                 | 671.36                  | 24.98                     | 27.871            |                    |           |
| 4,800.00                                               | 4,486.55              | 4,369.90              | 3,963.61              | 17.42            | 16.01         | 42.31                  | -264.09        | 739.88       | 714.24                 | 689.48                  | 24.77                     | 28.838            |                    |           |
| 4,900.00                                               | 4,518.67              | 4,420.48              | 3,971.50              | 17.96            | 16.31         | 40.99                  | -263.26        | 789.82       | 727.01                 | 702.29                  | 24.73                     | 29.400            |                    |           |
| 5,000.00                                               | 4,533.88              | 4,472.61              | 3,975.00              | 18.51            | 16.62         | 40.35                  | -262.40        | 841.80       | 733.42                 | 708.48                  | 24.94                     | 29.411            |                    |           |
| 5,100.00                                               | 4,536.45              | 4,569.54              | 3,977.10              | 19.06            | 17.22         | 40.31                  | -260.79        | 938.70       | 733.72                 | 707.99                  | 25.73                     | 28.513            |                    |           |
| 5,200.00                                               | 4,538.42              | 4,669.54              | 3,979.27              | 19.66            | 17.89         | 40.32                  | -259.13        | 1,038.66     | 733.57                 | 706.93                  | 26.63                     | 27.543            |                    |           |
| 5,300.00                                               | 4,540.40              | 4,769.54              | 3,981.44              | 20.30            | 18.61         | 40.33                  | -257.47        | 1,138.62     | 733.42                 | 705.82                  | 27.60                     | 26.576            |                    |           |
| 5,400.00                                               | 4,542.37              | 4,869.54              | 3,983.61              | 20.99            | 19.36         | 40.34                  | -255.81        | 1,238.59     | 733.27                 | 704.65                  | 28.62                     | 25.622            |                    |           |
| 5,500.00                                               | 4,544.34              | 4,969.54              | 3,985.78              | 21.71            | 20.14         | 40.35                  | -254.15        | 1,338.55     | 733.11                 | 703.42                  | 29.69                     | 24.690            |                    |           |
| 5,600.00                                               | 4,546.31              | 5,069.54              | 3,987.95              | 22.46            | 20.96         | 40.36                  | -252.49        | 1,438.51     | 732.96                 | 702.15                  | 30.81                     | 23.788            |                    |           |
| 5,700.00                                               | 4,548.28              | 5,169.54              | 3,990.12              | 23.25            | 21.81         | 40.37                  | -250.83        | 1,538.47     | 732.81                 | 700.84                  | 31.97                     | 22.919            |                    |           |
| 5,800.00                                               | 4,550.25              | 5,269.54              | 3,992.28              | 24.06            | 22.68         | 40.38                  | -249.17        | 1,638.44     | 732.66                 | 699.49                  | 33.17                     | 22.087            |                    |           |
| 5,900.00                                               | 4,552.22              | 5,369.54              | 3,994.45              | 24.90            | 23.57         | 40.39                  | -247.51        | 1,738.40     | 732.51                 | 698.11                  | 34.40                     | 21.291            |                    |           |
| 6,000.00                                               | 4,554.19              | 5,469.54              | 3,996.62              | 25.76            | 24.48         | 40.40                  | -245.85        | 1,838.36     | 732.36                 | 696.69                  | 35.67                     | 20.533            |                    |           |
| 6,100.00                                               | 4,556.17              | 5,569.54              | 3,998.79              | 26.64            | 25.41         | 40.41                  | -244.19        | 1,938.32     | 732.21                 | 695.25                  | 36.96                     | 19.813            |                    |           |
| 6,200.00                                               | 4,558.14              | 5,669.54              | 4,000.96              | 27.53            | 26.35         | 40.42                  | -242.53        | 2,038.29     | 732.06                 | 693.79                  | 38.27                     | 19.129            |                    |           |
| 6,300.00                                               | 4,560.11              | 5,769.54              | 4,003.13              | 28.45            | 27.31         | 40.43                  | -240.87        | 2,138.25     | 731.91                 | 692.30                  | 39.61                     | 18.480            |                    |           |
| 6,400.00                                               | 4,562.08              | 5,869.54              | 4,005.30              | 29.38            | 28.28         | 40.44                  | -239.21        | 2,238.21     | 731.76                 | 690.79                  | 40.96                     | 17.865            |                    |           |
| 6,500.00                                               | 4,564.05              | 5,969.54              | 4,007.47              | 30.32            | 29.26         | 40.45                  | -237.55        | 2,338.17     | 731.61                 | 689.27                  | 42.33                     | 17.281            |                    |           |
| 6,600.00                                               | 4,566.02              | 6,069.54              | 4,009.64              | 31.27            | 30.26         | 40.46                  | -235.89        | 2,438.14     | 731.45                 | 687.73                  | 43.72                     | 16.729            |                    |           |
| 6,700.00                                               | 4,567.99              | 6,169.54              | 4,011.80              | 32.24            | 31.26         | 40.47                  | -234.23        | 2,538.10     | 731.30                 | 686.17                  | 45.13                     | 16.204            |                    |           |
| 6,800.00                                               | 4,569.96              | 6,269.54              | 4,013.97              | 33.21            | 32.26         | 40.48                  | -232.57        | 2,638.06     | 731.15                 | 684.60                  | 46.55                     | 15.707            |                    |           |
| 6,900.00                                               | 4,571.94              | 6,369.54              | 4,016.14              | 34.20            | 33.28         | 40.49                  | -230.91        | 2,738.02     | 731.00                 | 683.02                  | 47.98                     | 15.236            |                    |           |
| 7,000.00                                               | 4,573.91              | 6,469.54              | 4,018.31              | 35.19            | 34.31         | 40.50                  | -229.25        | 2,837.99     | 730.85                 | 681.43                  | 49.42                     | 14.788            |                    |           |
| 7,100.00                                               | 4,575.88              | 6,569.54              | 4,020.48              | 36.19            | 35.33         | 40.51                  | -227.59        | 2,937.95     | 730.70                 | 679.83                  | 50.88                     | 14.363            |                    |           |
| 7,200.00                                               | 4,577.85              | 6,669.54              | 4,022.65              | 37.20            | 36.37         | 40.52                  | -225.93        | 3,037.91     | 730.55                 | 678.21                  | 52.34                     | 13.958            |                    |           |
| 7,300.00                                               | 4,579.82              | 6,769.54              | 4,024.82              | 38.21            | 37.41         | 40.53                  | -224.27        | 3,137.87     | 730.40                 | 676.59                  | 53.81                     | 13.574            |                    |           |
| 7,400.00                                               | 4,581.79              | 6,869.54              | 4,026.99              | 39.23            | 38.46         | 40.54                  | -222.61        | 3,237.84     | 730.25                 | 674.96                  | 55.29                     | 13.208            |                    |           |
| 7,500.00                                               | 4,583.76              | 6,969.54              | 4,029.16              | 40.26            | 39.51         | 40.55                  | -220.95        | 3,337.80     | 730.10                 | 673.32                  | 56.78                     | 12.859            |                    |           |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design: SMITHDALE 29 FEDERAL - 50H - OH - PERMIT |                       |                       |                       |                |        |                       |                        |              |              |                        |                         |          | Offset Site Error: | 0.00 usft |
|---------------------------------------------------------|-----------------------|-----------------------|-----------------------|----------------|--------|-----------------------|------------------------|--------------|--------------|------------------------|-------------------------|----------|--------------------|-----------|
| Survey Program: 0-MWD+IFR1+SAG+FDIR                     |                       |                       |                       |                |        |                       |                        |              |              |                        |                         |          | Offset Well Error: | 0.00 usft |
| 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) |          | Separation (usft)  | Factor    |
| 7,600.00                                                | 4,585.73              | 7,069.54              | 4,031.32              | 41.29          | 40.56  | 40.56                 | -219.29                | 3,437.76     | 729.95       | 671.68                 | 58.27                   | 12.527   |                    |           |
| 7,700.00                                                | 4,587.70              | 7,169.54              | 4,033.49              | 42.33          | 41.62  | 40.57                 | -217.63                | 3,537.72     | 729.80       | 670.02                 | 59.77                   | 12.209   |                    |           |
| 7,800.00                                                | 4,589.68              | 7,269.54              | 4,035.66              | 43.37          | 42.68  | 40.58                 | -215.97                | 3,637.69     | 729.65       | 668.37                 | 61.28                   | 11.907   |                    |           |
| 7,900.00                                                | 4,591.65              | 7,369.53              | 4,037.83              | 44.41          | 43.75  | 40.59                 | -214.31                | 3,737.65     | 729.50       | 666.70                 | 62.79                   | 11.617   |                    |           |
| 8,000.00                                                | 4,593.62              | 7,469.53              | 4,040.00              | 45.46          | 44.81  | 40.60                 | -212.65                | 3,837.61     | 729.35       | 665.03                 | 64.31                   | 11.341   |                    |           |
| 8,100.00                                                | 4,595.59              | 7,569.53              | 4,042.17              | 46.52          | 45.88  | 40.61                 | -210.98                | 3,937.57     | 729.20       | 663.36                 | 65.84                   | 11.076   |                    |           |
| 8,200.00                                                | 4,597.56              | 7,669.53              | 4,044.34              | 47.57          | 46.96  | 40.62                 | -209.32                | 4,037.54     | 729.05       | 661.68                 | 67.36                   | 10.822   |                    |           |
| 8,300.00                                                | 4,599.53              | 7,769.53              | 4,046.51              | 48.63          | 48.03  | 40.63                 | -207.66                | 4,137.50     | 728.89       | 660.00                 | 68.90                   | 10.580   |                    |           |
| 8,400.00                                                | 4,601.50              | 7,869.53              | 4,048.68              | 49.69          | 49.11  | 40.64                 | -206.00                | 4,237.46     | 728.74       | 658.31                 | 70.43                   | 10.347   |                    |           |
| 8,500.00                                                | 4,603.47              | 7,969.53              | 4,050.84              | 50.76          | 50.19  | 40.65                 | -204.34                | 4,337.42     | 728.59       | 656.62                 | 71.97                   | 10.123   |                    |           |
| 8,600.00                                                | 4,605.45              | 8,069.53              | 4,053.01              | 51.83          | 51.27  | 40.66                 | -202.68                | 4,437.39     | 728.44       | 654.92                 | 73.52                   | 9.908    |                    |           |
| 8,700.00                                                | 4,607.42              | 8,169.53              | 4,055.18              | 52.90          | 52.36  | 40.67                 | -201.02                | 4,537.35     | 728.29       | 653.23                 | 75.07                   | 9.702    |                    |           |
| 8,800.00                                                | 4,609.39              | 8,269.53              | 4,057.35              | 53.97          | 53.44  | 40.68                 | -199.36                | 4,637.31     | 728.14       | 651.52                 | 76.62                   | 9.503    |                    |           |
| 8,900.00                                                | 4,611.36              | 8,369.53              | 4,059.52              | 55.04          | 54.53  | 40.69                 | -197.70                | 4,737.27     | 727.99       | 649.82                 | 78.17                   | 9.313    |                    |           |
| 9,000.00                                                | 4,613.33              | 8,469.53              | 4,061.69              | 56.12          | 55.62  | 40.70                 | -196.04                | 4,837.24     | 727.84       | 648.11                 | 79.73                   | 9.129    |                    |           |
| 9,100.00                                                | 4,615.30              | 8,569.53              | 4,063.86              | 57.20          | 56.71  | 40.71                 | -194.38                | 4,937.20     | 727.69       | 646.40                 | 81.29                   | 8.952    |                    |           |
| 9,200.00                                                | 4,617.27              | 8,669.53              | 4,066.03              | 58.28          | 57.80  | 40.72                 | -192.72                | 5,037.16     | 727.54       | 644.69                 | 82.85                   | 8.781    |                    |           |
| 9,300.00                                                | 4,619.24              | 8,769.53              | 4,068.20              | 59.36          | 58.90  | 40.73                 | -191.06                | 5,137.12     | 727.39       | 642.97                 | 84.42                   | 8.616    |                    |           |
| 9,400.00                                                | 4,621.22              | 8,869.53              | 4,070.36              | 60.45          | 59.99  | 40.74                 | -189.40                | 5,237.09     | 727.24       | 641.25                 | 85.99                   | 8.457    |                    |           |
| 9,500.00                                                | 4,623.19              | 8,969.53              | 4,072.53              | 61.53          | 61.09  | 40.75                 | -187.74                | 5,337.05     | 727.09       | 639.53                 | 87.56                   | 8.304    |                    |           |
| 9,600.00                                                | 4,625.16              | 9,069.53              | 4,074.70              | 62.62          | 62.18  | 40.76                 | -186.08                | 5,437.01     | 726.94       | 637.81                 | 89.13                   | 8.156    |                    |           |
| 9,700.00                                                | 4,627.13              | 9,169.53              | 4,076.87              | 63.71          | 63.28  | 40.77                 | -184.42                | 5,536.97     | 726.79       | 636.08                 | 90.71                   | 8.012    |                    |           |
| 9,800.00                                                | 4,629.10              | 9,269.53              | 4,079.04              | 64.80          | 64.38  | 40.78                 | -182.76                | 5,636.94     | 726.64       | 634.36                 | 92.29                   | 7.874    |                    |           |
| 9,900.00                                                | 4,631.07              | 9,369.53              | 4,081.21              | 65.89          | 65.48  | 40.80                 | -181.10                | 5,736.90     | 726.49       | 632.63                 | 93.87                   | 7.740    |                    |           |
| 10,000.00                                               | 4,633.04              | 9,469.53              | 4,083.38              | 66.98          | 66.58  | 40.81                 | -179.44                | 5,836.86     | 726.34       | 630.90                 | 95.45                   | 7.610    |                    |           |
| 10,075.82                                               | 4,634.54              | 9,544.30              | 4,085.00              | 67.81          | 67.40  | 40.81                 | -178.20                | 5,911.60     | 726.23       | 629.59                 | 96.64                   | 7.515    |                    |           |
| 10,099.28                                               | 4,635.00              | 9,544.30              | 4,085.00              | 68.06          | 67.40  | 40.81                 | -178.20                | 5,911.60     | 726.61       | 629.86                 | 96.75                   | 7.510 SF |                    |           |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design: SMITHDALE 29 FEDERAL - 70H - 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          | -66.39                | 8.00                                | -18.30       | 20.00                  |                         |                   |              |                    |
| 100.00                                                  | 100.00                | 99.00                 | 99.00                 | 0.29             | 0.28          | -66.39                | 8.00                                | -18.30       | 19.97                  | 19.40                   | 0.57              | 34.997       |                    |
| 200.00                                                  | 200.00                | 199.00                | 199.00                | 0.65             | 0.64          | -66.39                | 8.00                                | -18.30       | 19.97                  | 18.69                   | 1.29              | 15.519       |                    |
| 300.00                                                  | 300.00                | 299.00                | 299.00                | 1.00             | 1.00          | -66.39                | 8.00                                | -18.30       | 19.97                  | 17.97                   | 2.00              | 9.967        |                    |
| 400.00                                                  | 399.98                | 398.65                | 398.63                | 1.36             | 1.36          | -39.67                | 9.69                                | -18.51       | 19.52                  | 16.80                   | 2.72              | 7.181        |                    |
| 500.00                                                  | 499.85                | 498.27                | 498.11                | 1.73             | 1.72          | -36.02                | 14.81                               | -19.13       | 18.36                  | 14.93                   | 3.43              | 5.353        |                    |
| 532.31                                                  | 532.10                | 530.45                | 530.20                | 1.84             | 1.84          | -33.35                | 17.20                               | -19.43       | 18.23                  | 14.57                   | 3.66              | 4.981 CC, ES |                    |
| 600.00                                                  | 599.67                | 597.79                | 597.26                | 2.08             | 2.08          | -25.12                | 23.35                               | -20.18       | 18.92                  | 14.78                   | 4.14              | 4.569        |                    |
| 700.00                                                  | 699.50                | 696.98                | 695.71                | 2.44             | 2.44          | -10.43                | 35.26                               | -21.64       | 23.07                  | 18.22                   | 4.85              | 4.760        |                    |
| 800.00                                                  | 799.32                | 795.68                | 793.21                | 2.80             | 2.80          | 1.39                  | 50.45                               | -23.50       | 31.52                  | 25.98                   | 5.54              | 5.686        |                    |
| 900.00                                                  | 899.15                | 895.01                | 891.10                | 3.15             | 3.15          | 8.48                  | 67.17                               | -25.55       | 42.19                  | 35.93                   | 6.25              | 6.745        |                    |
| 1,000.00                                                | 998.97                | 994.34                | 988.99                | 3.51             | 3.51          | 12.67                 | 83.89                               | -27.60       | 53.23                  | 46.26                   | 6.97              | 7.641        |                    |
| 1,100.00                                                | 1,098.80              | 1,093.67              | 1,086.88              | 3.87             | 3.87          | 15.41                 | 100.61                              | -29.64       | 64.46                  | 56.78                   | 7.68              | 8.395        |                    |
| 1,200.00                                                | 1,198.62              | 1,193.00              | 1,184.77              | 4.23             | 4.23          | 17.34                 | 117.32                              | -31.69       | 75.79                  | 67.40                   | 8.39              | 9.030        |                    |
| 1,300.00                                                | 1,298.45              | 1,292.33              | 1,282.66              | 4.59             | 4.60          | 18.77                 | 134.04                              | -33.74       | 87.18                  | 78.08                   | 9.11              | 9.573        |                    |
| 1,400.00                                                | 1,398.27              | 1,391.65              | 1,380.55              | 4.95             | 4.96          | 19.86                 | 150.76                              | -35.79       | 98.62                  | 88.80                   | 9.82              | 10.040       |                    |
| 1,500.00                                                | 1,498.10              | 1,490.98              | 1,478.44              | 5.31             | 5.33          | 20.73                 | 167.48                              | -37.84       | 110.08                 | 99.54                   | 10.54             | 10.446       |                    |
| 1,600.00                                                | 1,597.92              | 1,590.31              | 1,576.33              | 5.67             | 5.70          | 21.43                 | 184.20                              | -39.88       | 121.56                 | 110.31                  | 11.25             | 10.803       |                    |
| 1,700.00                                                | 1,697.75              | 1,689.64              | 1,674.22              | 6.03             | 6.06          | 22.02                 | 200.92                              | -41.93       | 133.06                 | 121.09                  | 11.97             | 11.117       |                    |
| 1,800.00                                                | 1,797.57              | 1,788.97              | 1,772.11              | 6.39             | 6.43          | 22.51                 | 217.64                              | -43.98       | 144.57                 | 131.89                  | 12.69             | 11.397       |                    |
| 1,900.00                                                | 1,897.40              | 1,888.30              | 1,870.00              | 6.74             | 6.80          | 22.92                 | 234.36                              | -46.03       | 156.09                 | 142.69                  | 13.40             | 11.647       |                    |
| 2,000.00                                                | 1,997.22              | 1,987.62              | 1,967.89              | 7.10             | 7.16          | 23.28                 | 251.08                              | -48.08       | 167.62                 | 153.50                  | 14.12             | 11.873       |                    |
| 2,100.00                                                | 2,097.05              | 2,086.95              | 2,065.78              | 7.46             | 7.53          | 23.60                 | 267.79                              | -50.12       | 179.15                 | 164.31                  | 14.83             | 12.077       |                    |
| 2,200.00                                                | 2,196.87              | 2,186.28              | 2,163.67              | 7.82             | 7.90          | 23.87                 | 284.51                              | -52.17       | 190.68                 | 175.13                  | 15.55             | 12.262       |                    |
| 2,300.00                                                | 2,296.70              | 2,285.61              | 2,261.56              | 8.18             | 8.27          | 24.12                 | 301.23                              | -54.22       | 202.22                 | 185.95                  | 16.27             | 12.431       |                    |
| 2,400.00                                                | 2,396.52              | 2,384.94              | 2,359.45              | 8.54             | 8.64          | 24.34                 | 317.95                              | -56.27       | 213.76                 | 196.78                  | 16.98             | 12.586       |                    |
| 2,500.00                                                | 2,496.35              | 2,484.27              | 2,457.34              | 8.90             | 9.00          | 24.53                 | 334.67                              | -58.32       | 225.31                 | 207.61                  | 17.70             | 12.729       |                    |
| 2,600.00                                                | 2,596.18              | 2,583.60              | 2,555.23              | 9.26             | 9.37          | 24.71                 | 351.39                              | -60.36       | 236.86                 | 218.44                  | 18.42             | 12.860       |                    |
| 2,700.00                                                | 2,696.00              | 2,682.92              | 2,653.12              | 9.62             | 9.74          | 24.87                 | 368.11                              | -62.41       | 248.41                 | 229.27                  | 19.13             | 12.982       |                    |
| 2,800.00                                                | 2,795.83              | 2,782.25              | 2,751.01              | 9.98             | 10.11         | 25.01                 | 384.83                              | -64.46       | 259.96                 | 240.11                  | 19.85             | 13.095       |                    |
| 2,900.00                                                | 2,895.65              | 2,881.58              | 2,848.90              | 10.34            | 10.48         | 25.15                 | 401.55                              | -66.51       | 271.51                 | 250.94                  | 20.57             | 13.200       |                    |
| 3,000.00                                                | 2,995.48              | 2,980.91              | 2,946.79              | 10.70            | 10.84         | 25.27                 | 418.26                              | -68.56       | 283.07                 | 261.78                  | 21.29             | 13.298       |                    |
| 3,100.00                                                | 3,095.30              | 3,080.24              | 3,044.68              | 11.06            | 11.21         | 25.38                 | 434.98                              | -70.61       | 294.62                 | 272.62                  | 22.00             | 13.390       |                    |
| 3,200.00                                                | 3,195.13              | 3,179.64              | 3,142.65              | 11.42            | 11.58         | 25.49                 | 451.71                              | -72.65       | 306.18                 | 283.46                  | 22.72             | 13.476       |                    |
| 3,300.00                                                | 3,294.95              | 3,281.24              | 3,242.76              | 11.78            | 11.96         | 26.62                 | 468.35                              | -69.05       | 317.34                 | 293.89                  | 23.45             | 13.530       |                    |
| 3,400.00                                                | 3,394.78              | 3,380.60              | 3,339.90              | 12.14            | 12.31         | 29.47                 | 483.65                              | -55.17       | 328.33                 | 304.17                  | 24.16             | 13.588       |                    |
| 3,500.00                                                | 3,494.60              | 3,475.77              | 3,431.26              | 12.49            | 12.64         | 33.64                 | 497.25                              | -32.38       | 340.55                 | 315.73                  | 24.82             | 13.721       |                    |
| 3,600.00                                                | 3,594.41              | 3,566.65              | 3,516.11              | 12.85            | 12.94         | -38.20                | 509.15                              | -2.18        | 355.08                 | 329.68                  | 25.40             | 13.982       |                    |
| 3,700.00                                                | 3,693.54              | 3,655.18              | 3,595.77              | 13.19            | 13.21         | -55.24                | 519.62                              | 34.91        | 371.02                 | 345.15                  | 25.87             | 14.339       |                    |
| 3,800.00                                                | 3,790.92              | 3,741.66              | 3,670.08              | 13.52            | 13.47         | -57.25                | 528.68                              | 78.15        | 387.72                 | 361.47                  | 26.25             | 14.768       |                    |
| 3,900.00                                                | 3,885.46              | 3,826.34              | 3,738.89              | 13.84            | 13.71         | -56.30                | 536.37                              | 126.85       | 404.60                 | 378.06                  | 26.54             | 15.248       |                    |
| 4,000.00                                                | 3,976.15              | 3,909.44              | 3,802.09              | 14.17            | 13.97         | -54.54                | 542.72                              | 180.39       | 421.15                 | 394.42                  | 26.73             | 15.757       |                    |
| 4,100.00                                                | 4,061.97              | 3,991.15              | 3,859.59              | 14.50            | 14.25         | -52.60                | 547.76                              | 238.19       | 436.92                 | 410.08                  | 26.85             | 16.276       |                    |
| 4,200.00                                                | 4,142.00              | 4,071.64              | 3,911.31              | 14.84            | 14.56         | -50.71                | 551.51                              | 299.73       | 451.57                 | 424.66                  | 26.91             | 16.782       |                    |
| 4,300.00                                                | 4,215.36              | 4,150.00              | 3,956.62              | 15.20            | 14.88         | -48.98                | 554.00                              | 363.58       | 464.77                 | 437.85                  | 26.92             | 17.266       |                    |
| 4,400.00                                                | 4,281.24              | 4,236.92              | 4,001.25              | 15.57            | 15.28         | -47.34                | 555.51                              | 438.13       | 476.00                 | 448.89                  | 27.11             | 17.561       |                    |
| 4,500.00                                                | 4,338.92              | 4,336.45              | 4,051.02              | 15.98            | 15.78         | -46.50                | 556.94                              | 524.32       | 481.82                 | 454.15                  | 27.68             | 17.409       |                    |
| 4,600.00                                                | 4,389.56              | 4,423.64              | 4,094.24              | 16.42            | 16.24         | -46.46                | 558.19                              | 600.02       | 482.76                 | 454.56                  | 28.20             | 17.121       |                    |
| 4,700.00                                                | 4,439.56              | 4,486.34              | 4,120.39              | 16.90            | 16.59         | -45.96                | 559.14                              | 656.97       | 489.23                 | 461.03                  | 28.20             | 17.346       |                    |
| 4,800.00                                                | 4,486.55              | 4,550.00              | 4,140.41              | 17.42            | 16.96         | -44.56                | 560.14                              | 717.36       | 501.04                 | 472.89                  | 28.14             | 17.802       |                    |
| 4,900.00                                                | 4,518.67              | 4,600.00              | 4,151.36              | 17.96            | 17.25         | -43.54                | 560.95                              | 766.12       | 509.16                 | 481.07                  | 28.09             | 18.125       |                    |
| 5,000.00                                                | 4,533.88              | 4,668.75              | 4,159.40              | 18.51            | 17.65         | -43.08                | 562.08                              | 834.35       | 512.17                 | 483.64                  | 28.53             | 17.954       |                    |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design: SMITHDALE 29 FEDERAL - 70H - OH - PERMIT |                       |                       |                       |                  |               |                       |                        |              |                         |                         |                           |                   | Offset Site Error: 0.00 usft |
|---------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|--------------|-------------------------|-------------------------|---------------------------|-------------------|------------------------------|
| Survey Program: 0-MWD+IFR1+SAG+FDIR                     |                       | 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) |                           |                   |                              |
| 5,100.00                                                | 4,536.45              | 4,760.21              | 4,162.70              | 19.06            | 18.21         | -43.17                | 563.60                 | 925.73       | 511.35                  | 482.00                  | 29.35                     | 17.424            |                              |
| 5,200.00                                                | 4,538.42              | 4,860.20              | 4,166.15              | 19.66            | 18.85         | -43.28                | 565.26                 | 1,025.65     | 510.27                  | 479.95                  | 30.32                     | 16.830            |                              |
| 5,300.00                                                | 4,540.40              | 4,960.19              | 4,169.60              | 20.30            | 19.53         | -43.40                | 566.92                 | 1,125.57     | 509.20                  | 477.84                  | 31.36                     | 16.239            |                              |
| 5,400.00                                                | 4,542.37              | 5,060.18              | 4,173.04              | 20.99            | 20.26         | -43.51                | 568.58                 | 1,225.48     | 508.12                  | 475.67                  | 32.46                     | 15.656            |                              |
| 5,500.00                                                | 4,544.34              | 5,160.17              | 4,176.49              | 21.71            | 21.02         | -43.62                | 570.23                 | 1,325.40     | 507.05                  | 473.44                  | 33.61                     | 15.086            |                              |
| 5,600.00                                                | 4,546.31              | 5,260.16              | 4,179.94              | 22.46            | 21.81         | -43.74                | 571.89                 | 1,425.31     | 505.99                  | 471.17                  | 34.82                     | 14.533            |                              |
| 5,700.00                                                | 4,548.28              | 5,360.15              | 4,183.39              | 23.25            | 22.63         | -43.86                | 573.55                 | 1,525.23     | 504.92                  | 468.85                  | 36.07                     | 13.998            |                              |
| 5,800.00                                                | 4,550.25              | 5,460.13              | 4,186.83              | 24.06            | 23.47         | -43.97                | 575.21                 | 1,625.15     | 503.86                  | 466.49                  | 37.37                     | 13.484            |                              |
| 5,900.00                                                | 4,552.22              | 5,560.12              | 4,190.28              | 24.90            | 24.34         | -44.09                | 576.87                 | 1,725.06     | 502.79                  | 464.09                  | 38.70                     | 12.991            |                              |
| 6,000.00                                                | 4,554.19              | 5,660.11              | 4,193.73              | 25.76            | 25.23         | -44.21                | 578.53                 | 1,824.98     | 501.73                  | 461.66                  | 40.07                     | 12.520            |                              |
| 6,100.00                                                | 4,556.17              | 5,760.10              | 4,197.17              | 26.64            | 26.14         | -44.32                | 580.19                 | 1,924.89     | 500.68                  | 459.20                  | 41.48                     | 12.070            |                              |
| 6,200.00                                                | 4,558.14              | 5,860.09              | 4,200.62              | 27.53            | 27.06         | -44.44                | 581.84                 | 2,024.81     | 499.62                  | 456.70                  | 42.92                     | 11.642            |                              |
| 6,300.00                                                | 4,560.11              | 5,960.08              | 4,204.07              | 28.45            | 28.00         | -44.56                | 583.50                 | 2,124.72     | 498.57                  | 454.19                  | 44.38                     | 11.234            |                              |
| 6,400.00                                                | 4,562.08              | 6,060.07              | 4,207.52              | 29.38            | 28.95         | -44.68                | 585.16                 | 2,224.64     | 497.51                  | 451.65                  | 45.87                     | 10.846            |                              |
| 6,500.00                                                | 4,564.05              | 6,160.06              | 4,210.96              | 30.32            | 29.91         | -44.80                | 586.82                 | 2,324.56     | 496.47                  | 449.08                  | 47.38                     | 10.478            |                              |
| 6,600.00                                                | 4,566.02              | 6,260.05              | 4,214.41              | 31.27            | 30.89         | -44.92                | 588.48                 | 2,424.47     | 495.42                  | 446.50                  | 48.92                     | 10.127            |                              |
| 6,700.00                                                | 4,567.99              | 6,360.04              | 4,217.86              | 32.24            | 31.87         | -45.04                | 590.14                 | 2,524.39     | 494.37                  | 443.89                  | 50.48                     | 9.794             |                              |
| 6,800.00                                                | 4,569.96              | 6,460.03              | 4,221.30              | 33.21            | 32.86         | -45.16                | 591.80                 | 2,624.30     | 493.33                  | 441.27                  | 52.06                     | 9.477             |                              |
| 6,900.00                                                | 4,571.94              | 6,560.01              | 4,224.75              | 34.20            | 33.86         | -45.28                | 593.45                 | 2,724.22     | 492.29                  | 438.64                  | 53.65                     | 9.175             |                              |
| 7,000.00                                                | 4,573.91              | 6,660.00              | 4,228.20              | 35.19            | 34.87         | -45.41                | 595.11                 | 2,824.14     | 491.25                  | 435.98                  | 55.27                     | 8.889             |                              |
| 7,100.00                                                | 4,575.88              | 6,759.99              | 4,231.65              | 36.19            | 35.89         | -45.53                | 596.77                 | 2,924.05     | 490.22                  | 433.32                  | 56.90                     | 8.616             |                              |
| 7,200.00                                                | 4,577.85              | 6,859.98              | 4,235.09              | 37.20            | 36.91         | -45.65                | 598.43                 | 3,023.97     | 489.18                  | 430.64                  | 58.54                     | 8.356             |                              |
| 7,300.00                                                | 4,579.82              | 6,959.97              | 4,238.54              | 38.21            | 37.94         | -45.78                | 600.09                 | 3,123.88     | 488.15                  | 427.94                  | 60.21                     | 8.108             |                              |
| 7,400.00                                                | 4,581.79              | 7,059.96              | 4,241.99              | 39.23            | 38.97         | -45.90                | 601.75                 | 3,223.80     | 487.12                  | 425.24                  | 61.88                     | 7.872             |                              |
| 7,500.00                                                | 4,583.76              | 7,159.95              | 4,245.43              | 40.26            | 40.01         | -46.03                | 603.41                 | 3,323.72     | 486.09                  | 422.52                  | 63.57                     | 7.646             |                              |
| 7,600.00                                                | 4,585.73              | 7,259.94              | 4,248.88              | 41.29            | 41.06         | -46.15                | 605.06                 | 3,423.63     | 485.07                  | 419.80                  | 65.27                     | 7.431             |                              |
| 7,700.00                                                | 4,587.70              | 7,359.93              | 4,252.33              | 42.33            | 42.10         | -46.28                | 606.72                 | 3,523.55     | 484.05                  | 417.06                  | 66.99                     | 7.226             |                              |
| 7,800.00                                                | 4,589.68              | 7,459.92              | 4,255.78              | 43.37            | 43.16         | -46.40                | 608.38                 | 3,623.46     | 483.03                  | 414.31                  | 68.72                     | 7.029             |                              |
| 7,900.00                                                | 4,591.65              | 7,559.91              | 4,259.22              | 44.41            | 44.21         | -46.53                | 610.04                 | 3,723.38     | 482.01                  | 411.56                  | 70.45                     | 6.842             |                              |
| 8,000.00                                                | 4,593.62              | 7,659.89              | 4,262.67              | 45.46            | 45.27         | -46.66                | 611.70                 | 3,823.29     | 481.00                  | 408.79                  | 72.20                     | 6.662             |                              |
| 8,100.00                                                | 4,595.59              | 7,759.88              | 4,266.12              | 46.52            | 46.33         | -46.79                | 613.36                 | 3,923.21     | 479.98                  | 406.02                  | 73.96                     | 6.489             |                              |
| 8,200.00                                                | 4,597.56              | 7,859.87              | 4,269.56              | 47.57            | 47.40         | -46.92                | 615.02                 | 4,023.13     | 478.97                  | 403.24                  | 75.73                     | 6.324             |                              |
| 8,300.00                                                | 4,599.53              | 7,959.86              | 4,273.01              | 48.63            | 48.47         | -47.05                | 616.67                 | 4,123.04     | 477.96                  | 400.45                  | 77.52                     | 6.166             |                              |
| 8,400.00                                                | 4,601.50              | 8,059.85              | 4,276.46              | 49.69            | 49.54         | -47.17                | 618.33                 | 4,222.96     | 476.96                  | 397.65                  | 79.31                     | 6.014             |                              |
| 8,500.00                                                | 4,603.47              | 8,159.84              | 4,279.91              | 50.76            | 50.61         | -47.31                | 619.99                 | 4,322.87     | 475.96                  | 394.85                  | 81.11                     | 5.868             |                              |
| 8,600.00                                                | 4,605.45              | 8,259.83              | 4,283.35              | 51.83            | 51.68         | -47.44                | 621.65                 | 4,422.79     | 474.96                  | 392.04                  | 82.92                     | 5.728             |                              |
| 8,700.00                                                | 4,607.42              | 8,359.82              | 4,286.80              | 52.90            | 52.76         | -47.57                | 623.31                 | 4,522.71     | 473.96                  | 389.22                  | 84.74                     | 5.593             |                              |
| 8,800.00                                                | 4,609.39              | 8,459.81              | 4,290.25              | 53.97            | 53.84         | -47.70                | 624.97                 | 4,622.62     | 472.96                  | 386.40                  | 86.57                     | 5.464             |                              |
| 8,900.00                                                | 4,611.36              | 8,559.80              | 4,293.69              | 55.04            | 54.92         | -47.83                | 626.63                 | 4,722.54     | 471.97                  | 383.57                  | 88.40                     | 5.339             |                              |
| 9,000.00                                                | 4,613.33              | 8,659.79              | 4,297.14              | 56.12            | 56.00         | -47.97                | 628.28                 | 4,822.45     | 470.98                  | 380.73                  | 90.25                     | 5.219             |                              |
| 9,100.00                                                | 4,615.30              | 8,759.77              | 4,300.59              | 57.20            | 57.09         | -48.10                | 629.94                 | 4,922.37     | 469.99                  | 377.89                  | 92.10                     | 5.103             |                              |
| 9,200.00                                                | 4,617.27              | 8,859.76              | 4,304.04              | 58.28            | 58.17         | -48.23                | 631.60                 | 5,022.29     | 469.01                  | 375.04                  | 93.97                     | 4.991             |                              |
| 9,300.00                                                | 4,619.24              | 8,959.75              | 4,307.48              | 59.36            | 59.26         | -48.37                | 633.26                 | 5,122.20     | 468.02                  | 372.19                  | 95.84                     | 4.883             |                              |
| 9,400.00                                                | 4,621.22              | 9,059.74              | 4,310.93              | 60.45            | 60.35         | -48.50                | 634.92                 | 5,222.12     | 467.04                  | 369.33                  | 97.72                     | 4.780             |                              |
| 9,500.00                                                | 4,623.19              | 9,159.73              | 4,314.38              | 61.53            | 61.44         | -48.64                | 636.58                 | 5,322.03     | 466.07                  | 366.46                  | 99.61                     | 4.679             |                              |
| 9,600.00                                                | 4,625.16              | 9,259.72              | 4,317.82              | 62.62            | 62.53         | -48.78                | 638.24                 | 5,421.95     | 465.09                  | 363.59                  | 101.50                    | 4.582             |                              |
| 9,700.00                                                | 4,627.13              | 9,359.71              | 4,321.27              | 63.71            | 63.63         | -48.91                | 639.89                 | 5,521.87     | 464.12                  | 360.71                  | 103.40                    | 4.488             |                              |
| 9,800.00                                                | 4,629.10              | 9,459.70              | 4,324.72              | 64.80            | 64.72         | -49.05                | 641.55                 | 5,621.78     | 463.15                  | 357.83                  | 105.32                    | 4.398             |                              |
| 9,900.00                                                | 4,631.07              | 9,559.69              | 4,328.17              | 65.89            | 65.82         | -49.19                | 643.21                 | 5,721.70     | 462.18                  | 354.95                  | 107.23                    | 4.310             |                              |
| 10,000.00                                               | 4,633.04              | 9,659.68              | 4,331.61              | 66.98            | 66.91         | -49.33                | 644.87                 | 5,821.61     | 461.22                  | 352.06                  | 109.16                    | 4.225             |                              |
| 10,099.28                                               | 4,635.00              | 9,757.94              | 4,335.00              | 68.06            | 67.99         | -49.46                | 646.50                 | 5,919.80     | 460.26                  | 349.19                  | 111.07                    | 4.144 SF          |                              |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design: SMITHDALE 29 FEDERAL - 71H - 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                  | 1.00                  | 1.00                  | 0.00             | 0.00          | 113.88                | -24.30                              | 54.90        | 60.04                  |                         |                   |           |                    |
| 100.00                                                  | 100.00                | 101.00                | 101.00                | 0.29             | 0.29          | 113.88                | -24.30                              | 54.90        | 60.04                  | 59.46                   | 0.58              | 104.026   |                    |
| 200.00                                                  | 200.00                | 201.00                | 201.00                | 0.65             | 0.65          | 113.88                | -24.30                              | 54.90        | 60.04                  | 58.74                   | 1.29              | 46.394    |                    |
| 266.33                                                  | 266.33                | 267.33                | 267.33                | 0.88             | 0.89          | 113.88                | -24.30                              | 54.90        | 60.04                  | 58.27                   | 1.77              | 33.927 CC |                    |
| 300.00                                                  | 300.00                | 300.99                | 300.99                | 1.00             | 1.01          | 113.88                | -24.30                              | 54.90        | 60.04                  | 58.03                   | 2.01              | 29.857 ES |                    |
| 400.00                                                  | 399.98                | 400.00                | 399.98                | 1.36             | 1.35          | 142.14                | -26.04                              | 54.83        | 62.08                  | 59.37                   | 2.71              | 22.920    |                    |
| 500.00                                                  | 499.85                | 498.57                | 498.42                | 1.73             | 1.68          | 148.59                | -31.17                              | 54.63        | 68.67                  | 65.26                   | 3.41              | 20.165    |                    |
| 600.00                                                  | 599.67                | 596.15                | 595.62                | 2.08             | 2.02          | 156.10                | -39.58                              | 54.30        | 78.81                  | 74.71                   | 4.10              | 19.226    |                    |
| 700.00                                                  | 699.50                | 692.70                | 691.47                | 2.44             | 2.36          | 163.28                | -51.15                              | 53.85        | 92.39                  | 87.60                   | 4.79              | 19.287    |                    |
| 800.00                                                  | 799.32                | 788.01                | 785.65                | 2.80             | 2.70          | 169.61                | -65.73                              | 53.28        | 109.64                 | 104.17                  | 5.47              | 20.039    |                    |
| 900.00                                                  | 899.15                | 881.91                | 877.92                | 3.15             | 3.05          | 174.93                | -83.15                              | 52.60        | 130.61                 | 124.47                  | 6.14              | 21.275    |                    |
| 1,000.00                                                | 998.97                | 974.23                | 968.03                | 3.51             | 3.39          | 179.31                | -103.22                             | 51.81        | 155.18                 | 148.39                  | 6.79              | 22.853    |                    |
| 1,100.00                                                | 1,098.80              | 1,064.83              | 1,055.77              | 3.87             | 3.74          | -177.13               | -125.71                             | 50.93        | 183.22                 | 175.80                  | 7.43              | 24.668    |                    |
| 1,200.00                                                | 1,198.62              | 1,153.57              | 1,141.00              | 4.23             | 4.09          | -174.23               | -150.43                             | 49.96        | 214.56                 | 206.53                  | 8.04              | 26.703    |                    |
| 1,300.00                                                | 1,298.45              | 1,240.35              | 1,223.55              | 4.59             | 4.44          | -171.85               | -177.13                             | 48.92        | 249.04                 | 240.41                  | 8.63              | 28.848    |                    |
| 1,400.00                                                | 1,398.27              | 1,327.59              | 1,305.75              | 4.95             | 4.80          | -169.85               | -206.35                             | 47.78        | 286.38                 | 277.15                  | 9.24              | 31.009    |                    |
| 1,500.00                                                | 1,498.10              | 1,419.63              | 1,392.25              | 5.31             | 5.19          | -168.18               | -237.77                             | 46.55        | 324.61                 | 314.71                  | 9.89              | 32.814    |                    |
| 1,600.00                                                | 1,597.92              | 1,511.67              | 1,478.75              | 5.67             | 5.58          | -166.86               | -269.18                             | 45.32        | 363.02                 | 352.46                  | 10.55             | 34.403    |                    |
| 1,700.00                                                | 1,697.75              | 1,603.71              | 1,565.26              | 6.03             | 5.97          | -165.79               | -300.60                             | 44.09        | 401.56                 | 390.35                  | 11.21             | 35.809    |                    |
| 1,800.00                                                | 1,797.57              | 1,695.75              | 1,651.76              | 6.39             | 6.37          | -164.91               | -332.01                             | 42.86        | 440.20                 | 428.33                  | 11.88             | 37.061    |                    |
| 1,900.00                                                | 1,897.40              | 1,787.78              | 1,738.26              | 6.74             | 6.76          | -164.17               | -363.43                             | 41.63        | 478.92                 | 466.38                  | 12.54             | 38.181    |                    |
| 2,000.00                                                | 1,997.22              | 1,879.82              | 1,824.76              | 7.10             | 7.16          | -163.54               | -394.84                             | 40.40        | 517.70                 | 504.49                  | 13.21             | 39.189    |                    |
| 2,100.00                                                | 2,097.05              | 1,971.86              | 1,911.26              | 7.46             | 7.57          | -163.00               | -426.26                             | 39.17        | 556.52                 | 542.64                  | 13.88             | 40.099    |                    |
| 2,200.00                                                | 2,196.87              | 2,063.90              | 1,997.76              | 7.82             | 7.97          | -162.52               | -457.67                             | 37.94        | 595.37                 | 580.83                  | 14.55             | 40.926    |                    |
| 2,300.00                                                | 2,296.70              | 2,155.93              | 2,084.27              | 8.18             | 8.37          | -162.11               | -489.09                             | 36.71        | 634.26                 | 619.05                  | 15.22             | 41.679    |                    |
| 2,400.00                                                | 2,396.52              | 2,247.97              | 2,170.77              | 8.54             | 8.78          | -161.74               | -520.50                             | 35.48        | 673.18                 | 657.29                  | 15.89             | 42.368    |                    |
| 2,500.00                                                | 2,496.35              | 2,340.01              | 2,257.27              | 8.90             | 9.18          | -161.42               | -551.92                             | 34.25        | 712.11                 | 695.55                  | 16.56             | 43.000    |                    |
| 2,600.00                                                | 2,596.18              | 2,432.05              | 2,343.77              | 9.26             | 9.59          | -161.13               | -583.33                             | 33.02        | 751.06                 | 733.83                  | 17.23             | 43.583    |                    |
| 2,700.00                                                | 2,696.00              | 2,524.09              | 2,430.27              | 9.62             | 10.00         | -160.86               | -614.75                             | 31.79        | 790.03                 | 772.12                  | 17.91             | 44.122    |                    |
| 2,800.00                                                | 2,795.83              | 2,616.12              | 2,516.77              | 9.98             | 10.41         | -160.62               | -646.16                             | 30.56        | 829.01                 | 810.43                  | 18.58             | 44.620    |                    |
| 2,900.00                                                | 2,895.65              | 2,708.16              | 2,603.28              | 10.34            | 10.81         | -160.41               | -677.57                             | 29.34        | 868.00                 | 848.74                  | 19.25             | 45.084    |                    |
| 3,000.00                                                | 2,995.48              | 2,800.20              | 2,689.78              | 10.70            | 11.22         | -160.21               | -708.99                             | 28.11        | 907.00                 | 887.07                  | 19.93             | 45.515    |                    |
| 3,100.00                                                | 3,095.30              | 2,892.24              | 2,776.28              | 11.06            | 11.63         | -160.02               | -740.40                             | 26.88        | 946.01                 | 925.40                  | 20.60             | 45.918    |                    |
| 3,200.00                                                | 3,195.13              | 2,984.27              | 2,862.78              | 11.42            | 12.04         | -159.86               | -771.82                             | 25.65        | 985.02                 | 963.75                  | 21.28             | 46.294    |                    |
| 3,300.00                                                | 3,294.95              | 3,076.31              | 2,949.28              | 11.78            | 12.45         | -159.70               | -803.23                             | 24.42        | 1,024.05               | 1,002.09                | 21.95             | 46.647    |                    |
| 3,400.00                                                | 3,394.78              | 3,168.35              | 3,035.79              | 12.14            | 12.86         | -159.56               | -834.65                             | 23.19        | 1,063.07               | 1,040.45                | 22.63             | 46.979    |                    |
| 3,500.00                                                | 3,494.60              | 3,260.39              | 3,122.29              | 12.49            | 13.27         | -159.42               | -866.06                             | 21.96        | 1,102.11               | 1,078.80                | 23.30             | 47.291    |                    |
| 3,600.00                                                | 3,594.41              | 3,352.38              | 3,208.74              | 12.85            | 13.68         | 121.62                | -897.46                             | 20.73        | 1,140.74               | 1,116.76                | 23.97             | 47.583    |                    |
| 3,700.00                                                | 3,693.54              | 3,443.65              | 3,294.53              | 13.19            | 14.09         | 98.13                 | -928.62                             | 19.51        | 1,178.20               | 1,153.57                | 24.62             | 47.851    |                    |
| 3,800.00                                                | 3,790.92              | 3,541.81              | 3,386.83              | 13.52            | 14.53         | 90.81                 | -961.97                             | 18.93        | 1,214.38               | 1,189.06                | 25.32             | 47.954    |                    |
| 3,900.00                                                | 3,885.46              | 3,639.47              | 3,506.99              | 13.84            | 15.07         | 87.36                 | -1,001.85                           | 33.99        | 1,247.51               | 1,221.28                | 26.24             | 47.549    |                    |
| 4,000.00                                                | 3,976.15              | 3,807.98              | 3,633.95              | 14.17            | 15.60         | 85.02                 | -1,038.38                           | 74.86        | 1,276.10               | 1,248.93                | 27.17             | 46.975    |                    |
| 4,100.00                                                | 4,061.97              | 3,954.94              | 3,759.66              | 14.50            | 16.08         | 83.06                 | -1,068.00                           | 144.45       | 1,299.23               | 1,271.16                | 28.07             | 46.290    |                    |
| 4,200.00                                                | 4,142.00              | 4,105.94              | 3,873.72              | 14.84            | 16.48         | 81.13                 | -1,087.38                           | 241.04       | 1,316.28               | 1,287.35                | 28.93             | 45.502    |                    |
| 4,300.00                                                | 4,215.36              | 4,255.35              | 3,966.63              | 15.20            | 16.79         | 79.14                 | -1,094.69                           | 357.48       | 1,327.05               | 1,297.28                | 29.77             | 44.579    |                    |
| 4,400.00                                                | 4,281.24              | 4,367.26              | 4,023.55              | 15.57            | 16.98         | 77.57                 | -1,093.56                           | 453.81       | 1,332.59               | 1,302.08                | 30.51             | 43.671    |                    |
| 4,500.00                                                | 4,338.92              | 4,466.79              | 4,073.31              | 15.98            | 17.16         | 76.77                 | -1,092.12                           | 539.99       | 1,335.21               | 1,303.92                | 31.29             | 42.671    |                    |
| 4,600.00                                                | 4,389.56              | 4,550.00              | 4,112.77              | 16.42            | 17.35         | 76.54                 | -1,090.91                           | 613.20       | 1,336.10               | 1,304.03                | 32.07             | 41.666    |                    |
| 4,700.00                                                | 4,439.56              | 4,600.00              | 4,131.66              | 16.90            | 17.48         | 76.25                 | -1,090.14                           | 659.47       | 1,339.28               | 1,306.54                | 32.73             | 40.913    |                    |
| 4,800.00                                                | 4,486.55              | 4,667.75              | 4,150.69              | 17.42            | 17.68         | 75.36                 | -1,089.06                           | 724.44       | 1,344.47               | 1,310.96                | 33.51             | 40.123    |                    |
| 4,900.00                                                | 4,518.67              | 4,728.81              | 4,161.17              | 17.96            | 17.87         | 74.58                 | -1,088.06                           | 784.56       | 1,348.51               | 1,314.22                | 34.29             | 39.322    |                    |
| 5,000.00                                                | 4,533.88              | 4,795.32              | 4,165.42              | 18.51            | 18.11         | 74.13                 | -1,086.96                           | 850.89       | 1,350.83               | 1,315.68                | 35.14             | 38.439    |                    |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design: SMITHDALE 29 FEDERAL - 71H - 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            |
| 5,100.00                                                | 4,536.45              | 4,895.32              | 4,168.28              | 19.06                            | 18.53                         | 74.13                 | -1,085.30                           | 950.83                              | 1,350.75                        | 1,314.53                         | 36.22                     | 37.294            |                    |
| 5,200.00                                                | 4,538.42              | 4,995.31              | 4,171.14              | 19.66                            | 19.03                         | 74.17                 | -1,083.64                           | 1,050.77                            | 1,350.50                        | 1,313.11                         | 37.39                     | 36.115            |                    |
| 5,300.00                                                | 4,540.40              | 5,095.31              | 4,174.00              | 20.30                            | 19.61                         | 74.21                 | -1,081.98                           | 1,150.71                            | 1,350.26                        | 1,311.60                         | 38.66                     | 34.929            |                    |
| 5,400.00                                                | 4,542.37              | 5,195.30              | 4,176.86              | 20.99                            | 20.25                         | 74.24                 | -1,080.31                           | 1,250.66                            | 1,350.02                        | 1,310.02                         | 40.00                     | 33.751            |                    |
| 5,500.00                                                | 4,544.34              | 5,295.30              | 4,179.72              | 21.71                            | 20.94                         | 74.28                 | -1,078.65                           | 1,350.60                            | 1,349.77                        | 1,308.36                         | 41.41                     | 32.593            |                    |
| 5,600.00                                                | 4,546.31              | 5,395.30              | 4,182.58              | 22.46                            | 21.67                         | 74.31                 | -1,076.99                           | 1,450.54                            | 1,349.53                        | 1,306.64                         | 42.89                     | 31.464            |                    |
| 5,700.00                                                | 4,548.28              | 5,495.29              | 4,185.44              | 23.25                            | 22.44                         | 74.35                 | -1,075.33                           | 1,550.48                            | 1,349.29                        | 1,304.86                         | 44.43                     | 30.370            |                    |
| 5,800.00                                                | 4,550.25              | 5,595.29              | 4,188.30              | 24.06                            | 23.24                         | 74.39                 | -1,073.67                           | 1,650.42                            | 1,349.05                        | 1,303.03                         | 46.02                     | 29.315            |                    |
| 5,900.00                                                | 4,552.22              | 5,695.28              | 4,191.16              | 24.90                            | 24.07                         | 74.42                 | -1,072.01                           | 1,750.36                            | 1,348.81                        | 1,301.15                         | 47.66                     | 28.303            |                    |
| 6,000.00                                                | 4,554.19              | 5,795.28              | 4,194.02              | 25.76                            | 24.93                         | 74.46                 | -1,070.35                           | 1,850.30                            | 1,348.57                        | 1,299.23                         | 49.34                     | 27.335            |                    |
| 6,100.00                                                | 4,556.17              | 5,895.28              | 4,196.88              | 26.64                            | 25.81                         | 74.50                 | -1,068.69                           | 1,950.24                            | 1,348.33                        | 1,297.28                         | 51.05                     | 26.410            |                    |
| 6,200.00                                                | 4,558.14              | 5,995.27              | 4,199.74              | 27.53                            | 26.70                         | 74.53                 | -1,067.03                           | 2,050.19                            | 1,348.09                        | 1,295.28                         | 52.81                     | 25.529            |                    |
| 6,300.00                                                | 4,560.11              | 6,095.27              | 4,202.60              | 28.45                            | 27.62                         | 74.57                 | -1,065.37                           | 2,150.13                            | 1,347.85                        | 1,293.26                         | 54.59                     | 24.690            |                    |
| 6,400.00                                                | 4,562.08              | 6,195.26              | 4,205.46              | 29.38                            | 28.55                         | 74.60                 | -1,063.71                           | 2,250.07                            | 1,347.62                        | 1,291.21                         | 56.41                     | 23.891            |                    |
| 6,500.00                                                | 4,564.05              | 6,295.26              | 4,208.32              | 30.32                            | 29.50                         | 74.64                 | -1,062.05                           | 2,350.01                            | 1,347.38                        | 1,289.13                         | 58.25                     | 23.133            |                    |
| 6,600.00                                                | 4,566.02              | 6,395.26              | 4,211.18              | 31.27                            | 30.45                         | 74.68                 | -1,060.39                           | 2,449.95                            | 1,347.14                        | 1,287.03                         | 60.11                     | 22.411            |                    |
| 6,700.00                                                | 4,567.99              | 6,495.25              | 4,214.04              | 32.24                            | 31.42                         | 74.71                 | -1,058.73                           | 2,549.89                            | 1,346.91                        | 1,284.91                         | 62.00                     | 21.726            |                    |
| 6,800.00                                                | 4,569.96              | 6,595.25              | 4,216.90              | 33.21                            | 32.40                         | 74.75                 | -1,057.07                           | 2,649.83                            | 1,346.67                        | 1,282.77                         | 63.90                     | 21.075            |                    |
| 6,900.00                                                | 4,571.94              | 6,695.24              | 4,219.75              | 34.20                            | 33.39                         | 74.79                 | -1,055.40                           | 2,749.78                            | 1,346.44                        | 1,280.61                         | 65.82                     | 20.455            |                    |
| 7,000.00                                                | 4,573.91              | 6,795.24              | 4,222.61              | 35.19                            | 34.39                         | 74.82                 | -1,053.74                           | 2,849.72                            | 1,346.20                        | 1,278.44                         | 67.76                     | 19.866            |                    |
| 7,100.00                                                | 4,575.88              | 6,895.24              | 4,225.47              | 36.19                            | 35.40                         | 74.86                 | -1,052.08                           | 2,949.66                            | 1,345.97                        | 1,276.25                         | 69.72                     | 19.305            |                    |
| 7,200.00                                                | 4,577.85              | 6,995.23              | 4,228.33              | 37.20                            | 36.41                         | 74.90                 | -1,050.42                           | 3,049.60                            | 1,345.74                        | 1,274.05                         | 71.69                     | 18.772            |                    |
| 7,300.00                                                | 4,579.82              | 7,095.23              | 4,231.19              | 38.21                            | 37.43                         | 74.93                 | -1,048.76                           | 3,149.54                            | 1,345.50                        | 1,271.83                         | 73.67                     | 18.263            |                    |
| 7,400.00                                                | 4,581.79              | 7,195.22              | 4,234.05              | 39.23                            | 38.46                         | 74.97                 | -1,047.10                           | 3,249.48                            | 1,345.27                        | 1,269.60                         | 75.67                     | 17.779            |                    |
| 7,500.00                                                | 4,583.76              | 7,295.22              | 4,236.91              | 40.26                            | 39.49                         | 75.01                 | -1,045.44                           | 3,349.42                            | 1,345.04                        | 1,267.37                         | 77.67                     | 17.317            |                    |
| 7,600.00                                                | 4,585.73              | 7,395.22              | 4,239.77              | 41.29                            | 40.53                         | 75.04                 | -1,043.78                           | 3,449.36                            | 1,344.81                        | 1,265.12                         | 79.69                     | 16.876            |                    |
| 7,700.00                                                | 4,587.70              | 7,495.21              | 4,242.63              | 42.33                            | 41.57                         | 75.08                 | -1,042.12                           | 3,549.31                            | 1,344.58                        | 1,262.86                         | 81.72                     | 16.454            |                    |
| 7,800.00                                                | 4,589.68              | 7,595.21              | 4,245.49              | 43.37                            | 42.61                         | 75.12                 | -1,040.46                           | 3,649.25                            | 1,344.35                        | 1,260.60                         | 83.75                     | 16.052            |                    |
| 7,900.00                                                | 4,591.65              | 7,695.20              | 4,248.35              | 44.41                            | 43.66                         | 75.15                 | -1,038.80                           | 3,749.19                            | 1,344.12                        | 1,258.32                         | 85.80                     | 15.667            |                    |
| 8,000.00                                                | 4,593.62              | 7,795.20              | 4,251.21              | 45.46                            | 44.72                         | 75.19                 | -1,037.14                           | 3,849.13                            | 1,343.89                        | 1,256.04                         | 87.85                     | 15.298            |                    |
| 8,100.00                                                | 4,595.59              | 7,895.20              | 4,254.07              | 46.52                            | 45.77                         | 75.23                 | -1,035.48                           | 3,949.07                            | 1,343.66                        | 1,253.75                         | 89.91                     | 14.945            |                    |
| 8,200.00                                                | 4,597.56              | 7,995.19              | 4,256.93              | 47.57                            | 46.83                         | 75.26                 | -1,033.82                           | 4,049.01                            | 1,343.43                        | 1,251.46                         | 91.97                     | 14.607            |                    |
| 8,300.00                                                | 4,599.53              | 8,095.19              | 4,259.79              | 48.63                            | 47.90                         | 75.30                 | -1,032.15                           | 4,148.95                            | 1,343.21                        | 1,249.16                         | 94.04                     | 14.283            |                    |
| 8,400.00                                                | 4,601.50              | 8,195.19              | 4,262.65              | 49.69                            | 48.96                         | 75.34                 | -1,030.49                           | 4,248.90                            | 1,342.98                        | 1,246.86                         | 96.12                     | 13.971            |                    |
| 8,500.00                                                | 4,603.47              | 8,295.18              | 4,265.51              | 50.76                            | 50.03                         | 75.37                 | -1,028.83                           | 4,348.84                            | 1,342.75                        | 1,244.55                         | 98.21                     | 13.673            |                    |
| 8,600.00                                                | 4,605.45              | 8,395.18              | 4,268.37              | 51.83                            | 51.10                         | 75.41                 | -1,027.17                           | 4,448.78                            | 1,342.53                        | 1,242.23                         | 100.30                    | 13.385            |                    |
| 8,700.00                                                | 4,607.42              | 8,495.17              | 4,271.23              | 52.90                            | 52.18                         | 75.45                 | -1,025.51                           | 4,548.72                            | 1,342.30                        | 1,239.91                         | 102.39                    | 13.109            |                    |
| 8,800.00                                                | 4,609.39              | 8,595.17              | 4,274.09              | 53.97                            | 53.25                         | 75.48                 | -1,023.85                           | 4,648.66                            | 1,342.08                        | 1,237.59                         | 104.49                    | 12.844            |                    |
| 8,900.00                                                | 4,611.36              | 8,695.17              | 4,276.95              | 55.04                            | 54.33                         | 75.52                 | -1,022.19                           | 4,748.60                            | 1,341.85                        | 1,235.26                         | 106.60                    | 12.588            |                    |
| 9,000.00                                                | 4,613.33              | 8,795.16              | 4,279.81              | 56.12                            | 55.41                         | 75.56                 | -1,020.53                           | 4,848.54                            | 1,341.63                        | 1,232.92                         | 108.71                    | 12.342            |                    |
| 9,100.00                                                | 4,615.30              | 8,895.16              | 4,282.67              | 57.20                            | 56.49                         | 75.59                 | -1,018.87                           | 4,948.49                            | 1,341.41                        | 1,230.59                         | 110.82                    | 12.104            |                    |
| 9,200.00                                                | 4,617.27              | 8,995.15              | 4,285.53              | 58.28                            | 57.58                         | 75.63                 | -1,017.21                           | 5,048.43                            | 1,341.19                        | 1,228.25                         | 112.94                    | 11.875            |                    |
| 9,300.00                                                | 4,619.24              | 9,095.15              | 4,288.39              | 59.36                            | 58.66                         | 75.67                 | -1,015.55                           | 5,148.37                            | 1,340.96                        | 1,225.91                         | 115.06                    | 11.655            |                    |
| 9,400.00                                                | 4,621.22              | 9,195.15              | 4,291.25              | 60.45                            | 59.75                         | 75.70                 | -1,013.89                           | 5,248.31                            | 1,340.74                        | 1,223.56                         | 117.18                    | 11.441            |                    |
| 9,500.00                                                | 4,623.19              | 9,295.14              | 4,294.11              | 61.53                            | 60.84                         | 75.74                 | -1,012.23                           | 5,348.25                            | 1,340.52                        | 1,221.21                         | 119.31                    | 11.235            |                    |
| 9,600.00                                                | 4,625.16              | 9,395.14              | 4,296.97              | 62.62                            | 61.93                         | 75.78                 | -1,010.57                           | 5,448.19                            | 1,340.30                        | 1,218.86                         | 121.44                    | 11.036            |                    |
| 9,700.00                                                | 4,627.13              | 9,495.13              | 4,299.83              | 63.71                            | 63.02                         | 75.81                 | -1,008.91                           | 5,548.13                            | 1,340.08                        | 1,216.50                         | 123.58                    | 10.844            |                    |
| 9,800.00                                                | 4,629.10              | 9,595.13              | 4,302.69              | 64.80                            | 64.11                         | 75.85                 | -1,007.24                           | 5,648.07                            | 1,339.86                        | 1,214.15                         | 125.72                    | 10.658            |                    |
| 9,900.00                                                | 4,631.07              | 9,695.13              | 4,305.55              | 65.89                            | 65.20                         | 75.89                 | -1,005.58                           | 5,748.02                            | 1,339.65                        | 1,211.79                         | 127.86                    | 10.478            |                    |
| 10,000.00                                               | 4,633.04              | 9,795.12              | 4,308.41              | 66.98                            | 66.30                         | 75.92                 | -1,003.92                           | 5,847.96                            | 1,339.43                        | 1,209.43                         | 130.00                    | 10.303            |                    |
| 10,058.47                                               | 4,634.20              | 9,850.70              | 4,310.00              | 67.62                            | 66.91                         | 75.94                 | -1,003.00                           | 5,903.50                            | 1,339.30                        | 1,208.07                         | 131.23                    | 10.206            |                    |
| 10,099.28                                               | 4,635.00              | 9,850.70              | 4,310.00              | 68.06                            | 66.91                         | 75.94                 | -1,003.00                           | 5,903.50                            | 1,339.93                        | 1,208.22                         | 131.71                    | 10.174 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 90H                           |
| Project:           | EDDY COUNTY, NM (NAD 83 - NME) | TVD Reference:               | RKB = 20' @ 3633.00usft (AKITA 57) |
| Reference Site:    | SMITHDALE 29 FEDERAL           | MD Reference:                | RKB = 20' @ 3633.00usft (AKITA 57) |
| Site Error:        | 0.00 usft                      | North Reference:             | Grid                               |
| Reference Well:    | 90H                            | 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                       |

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design: SMITHDALE 29 FEDERAL - 91H - 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                  | 1.00                  | 1.00                  | 0.00             | 0.00          | 113.88                | -16.20                              | 36.60        | 40.02                  |                         |                   |           |                    |
| 100.00                                                  | 100.00                | 101.00                | 101.00                | 0.29             | 0.29          | 113.88                | -16.20                              | 36.60        | 40.02                  | 39.45                   | 0.58              | 69.351    |                    |
| 200.00                                                  | 200.00                | 201.00                | 201.00                | 0.65             | 0.65          | 113.88                | -16.20                              | 36.60        | 40.02                  | 38.73                   | 1.29              | 30.929    |                    |
| 266.33                                                  | 266.33                | 267.33                | 267.33                | 0.88             | 0.89          | 113.88                | -16.20                              | 36.60        | 40.02                  | 38.26                   | 1.77              | 22.618 CC |                    |
| 300.00                                                  | 300.00                | 301.00                | 301.00                | 1.00             | 1.01          | 113.88                | -16.20                              | 36.60        | 40.03                  | 38.01                   | 2.01              | 19.905 ES |                    |
| 400.00                                                  | 399.98                | 400.60                | 400.58                | 1.36             | 1.35          | 143.53                | -17.93                              | 36.23        | 41.82                  | 39.11                   | 2.71              | 15.429    |                    |
| 500.00                                                  | 499.85                | 499.58                | 499.42                | 1.73             | 1.69          | 153.07                | -23.00                              | 35.15        | 47.99                  | 44.58                   | 3.41              | 14.078    |                    |
| 600.00                                                  | 599.67                | 597.69                | 597.16                | 2.08             | 2.03          | 163.39                | -31.31                              | 33.37        | 57.93                  | 53.82                   | 4.11              | 14.107    |                    |
| 700.00                                                  | 699.50                | 694.80                | 693.55                | 2.44             | 2.37          | 172.47                | -42.76                              | 30.92        | 71.53                  | 66.73                   | 4.80              | 14.904    |                    |
| 800.00                                                  | 799.32                | 790.70                | 788.30                | 2.80             | 2.71          | 179.86                | -57.20                              | 27.84        | 88.98                  | 83.49                   | 5.48              | 16.229    |                    |
| 900.00                                                  | 899.15                | 885.19                | 881.13                | 3.15             | 3.06          | -174.32               | -74.44                              | 24.15        | 110.18                 | 104.03                  | 6.15              | 17.912    |                    |
| 1,000.00                                                | 998.97                | 980.74                | 974.51                | 3.51             | 3.42          | -169.83               | -94.21                              | 19.92        | 134.34                 | 127.51                  | 6.83              | 19.677    |                    |
| 1,100.00                                                | 1,098.80              | 1,077.27              | 1,068.83              | 3.87             | 3.78          | -166.64               | -114.33                             | 15.62        | 159.21                 | 151.70                  | 7.51              | 21.196    |                    |
| 1,200.00                                                | 1,198.62              | 1,173.81              | 1,163.14              | 4.23             | 4.15          | -164.31               | -134.46                             | 11.32        | 184.42                 | 176.22                  | 8.20              | 22.489    |                    |
| 1,300.00                                                | 1,298.45              | 1,270.34              | 1,257.46              | 4.59             | 4.53          | -162.55               | -154.58                             | 7.02         | 209.84                 | 200.95                  | 8.89              | 23.602    |                    |
| 1,400.00                                                | 1,398.27              | 1,366.88              | 1,351.78              | 4.95             | 4.90          | -161.16               | -174.71                             | 2.72         | 235.41                 | 225.83                  | 9.58              | 24.566    |                    |
| 1,500.00                                                | 1,498.10              | 1,463.41              | 1,446.09              | 5.31             | 5.27          | -160.05               | -194.83                             | -1.58        | 261.09                 | 250.81                  | 10.28             | 25.408    |                    |
| 1,600.00                                                | 1,597.92              | 1,559.95              | 1,540.41              | 5.67             | 5.65          | -159.13               | -214.96                             | -5.89        | 286.84                 | 275.87                  | 10.97             | 26.148    |                    |
| 1,700.00                                                | 1,697.75              | 1,656.48              | 1,634.72              | 6.03             | 6.03          | -158.37               | -235.08                             | -10.19       | 312.65                 | 300.98                  | 11.66             | 26.803    |                    |
| 1,800.00                                                | 1,797.57              | 1,753.02              | 1,729.04              | 6.39             | 6.41          | -157.72               | -255.21                             | -14.49       | 338.50                 | 326.14                  | 12.36             | 27.387    |                    |
| 1,900.00                                                | 1,897.40              | 1,849.55              | 1,823.36              | 6.74             | 6.78          | -157.17               | -275.33                             | -18.79       | 364.39                 | 351.33                  | 13.06             | 27.909    |                    |
| 2,000.00                                                | 1,997.22              | 1,946.09              | 1,917.67              | 7.10             | 7.16          | -156.68               | -295.45                             | -23.09       | 390.30                 | 376.55                  | 13.75             | 28.380    |                    |
| 2,100.00                                                | 2,097.05              | 2,042.62              | 2,011.99              | 7.46             | 7.54          | -156.26               | -315.58                             | -27.39       | 416.24                 | 401.79                  | 14.45             | 28.806    |                    |
| 2,200.00                                                | 2,196.87              | 2,139.16              | 2,106.30              | 7.82             | 7.92          | -155.89               | -335.70                             | -31.70       | 442.20                 | 427.05                  | 15.15             | 29.194    |                    |
| 2,300.00                                                | 2,296.70              | 2,235.69              | 2,200.62              | 8.18             | 8.30          | -155.56               | -355.83                             | -36.00       | 468.17                 | 452.32                  | 15.84             | 29.547    |                    |
| 2,400.00                                                | 2,396.52              | 2,332.23              | 2,294.94              | 8.54             | 8.68          | -155.26               | -375.95                             | -40.30       | 494.15                 | 477.61                  | 16.54             | 29.871    |                    |
| 2,500.00                                                | 2,496.35              | 2,428.76              | 2,389.25              | 8.90             | 9.06          | -155.00               | -396.08                             | -44.60       | 520.15                 | 502.91                  | 17.24             | 30.169    |                    |
| 2,600.00                                                | 2,596.18              | 2,525.30              | 2,483.57              | 9.26             | 9.45          | -154.75               | -416.20                             | -48.90       | 546.16                 | 528.22                  | 17.94             | 30.444    |                    |
| 2,700.00                                                | 2,696.00              | 2,621.83              | 2,577.88              | 9.62             | 9.83          | -154.53               | -436.33                             | -53.20       | 572.17                 | 553.53                  | 18.64             | 30.698    |                    |
| 2,800.00                                                | 2,795.83              | 2,718.37              | 2,672.20              | 9.98             | 10.21         | -154.33               | -456.45                             | -57.51       | 598.19                 | 578.85                  | 19.34             | 30.934    |                    |
| 2,900.00                                                | 2,895.65              | 2,814.90              | 2,766.52              | 10.34            | 10.59         | -154.15               | -476.57                             | -61.81       | 624.22                 | 604.18                  | 20.04             | 31.154    |                    |
| 3,000.00                                                | 2,995.48              | 2,911.44              | 2,860.83              | 10.70            | 10.97         | -153.98               | -496.70                             | -66.11       | 650.25                 | 629.51                  | 20.74             | 31.359    |                    |
| 3,100.00                                                | 3,095.30              | 3,007.97              | 2,955.15              | 11.06            | 11.35         | -153.83               | -516.82                             | -70.41       | 676.29                 | 654.85                  | 21.44             | 31.550    |                    |
| 3,200.00                                                | 3,195.13              | 3,104.51              | 3,049.46              | 11.42            | 11.74         | -153.68               | -536.95                             | -74.71       | 702.33                 | 680.19                  | 22.14             | 31.729    |                    |
| 3,300.00                                                | 3,294.95              | 3,201.04              | 3,143.78              | 11.78            | 12.12         | -153.55               | -557.07                             | -79.01       | 728.37                 | 705.54                  | 22.83             | 31.897    |                    |
| 3,400.00                                                | 3,394.78              | 3,297.58              | 3,238.10              | 12.14            | 12.50         | -153.42               | -577.20                             | -83.32       | 754.42                 | 730.89                  | 23.53             | 32.056    |                    |
| 3,500.00                                                | 3,494.60              | 3,394.11              | 3,332.41              | 12.49            | 12.88         | -153.31               | -597.32                             | -87.62       | 780.48                 | 756.24                  | 24.23             | 32.205    |                    |
| 3,600.00                                                | 3,594.41              | 3,490.47              | 3,426.55              | 12.85            | 13.26         | 128.56                | -617.41                             | -91.91       | 806.53                 | 781.60                  | 24.93             | 32.355    |                    |
| 3,700.00                                                | 3,693.54              | 3,591.53              | 3,525.34              | 13.19            | 13.66         | 106.12                | -638.37                             | -95.59       | 832.48                 | 806.84                  | 25.64             | 32.467    |                    |
| 3,800.00                                                | 3,790.92              | 3,704.80              | 3,636.19              | 13.52            | 14.09         | 99.52                 | -660.48                             | -89.30       | 856.99                 | 830.57                  | 26.43             | 32.431    |                    |
| 3,900.00                                                | 3,885.46              | 3,821.73              | 3,749.38              | 13.84            | 14.51         | 96.38                 | -681.16                             | -68.95       | 879.36                 | 852.15                  | 27.20             | 32.327    |                    |
| 4,000.00                                                | 3,976.15              | 3,942.28              | 3,863.01              | 14.17            | 14.90         | 94.53                 | -699.87                             | -33.54       | 899.20                 | 871.23                  | 27.96             | 32.158    |                    |
| 4,100.00                                                | 4,061.97              | 4,066.26              | 3,974.71              | 14.50            | 15.27         | 93.29                 | -716.05                             | 17.54        | 916.15                 | 887.44                  | 28.70             | 31.917    |                    |
| 4,200.00                                                | 4,142.00              | 4,193.27              | 4,081.78              | 14.84            | 15.60         | 92.41                 | -729.12                             | 84.41        | 929.89                 | 900.45                  | 29.44             | 31.588    |                    |
| 4,300.00                                                | 4,215.36              | 4,322.71              | 4,181.30              | 15.20            | 15.90         | 91.73                 | -738.56                             | 166.48       | 940.15                 | 909.96                  | 30.18             | 31.149    |                    |
| 4,400.00                                                | 4,281.24              | 4,453.80              | 4,270.36              | 15.57            | 16.17         | 91.19                 | -743.94                             | 262.39       | 946.70                 | 915.74                  | 30.96             | 30.575    |                    |
| 4,500.00                                                | 4,338.92              | 4,585.63              | 4,346.31              | 15.98            | 16.42         | 90.74                 | -745.02                             | 370.00       | 949.43                 | 917.62                  | 31.81             | 29.847    |                    |
| 4,600.00                                                | 4,389.56              | 4,691.32              | 4,399.40              | 16.42            | 16.68         | 90.62                 | -743.57                             | 461.38       | 949.52                 | 916.85                  | 32.68             | 29.059    |                    |
| 4,700.00                                                | 4,439.56              | 4,791.32              | 4,449.40              | 16.90            | 17.03         | 90.62                 | -742.13                             | 547.97       | 949.52                 | 915.90                  | 33.62             | 28.241    |                    |
| 4,800.00                                                | 4,486.55              | 4,892.60              | 4,494.65              | 17.42            | 17.48         | 90.46                 | -740.63                             | 638.44       | 949.50                 | 914.85                  | 34.64             | 27.408    |                    |
| 4,900.00                                                | 4,518.67              | 4,993.55              | 4,523.48              | 17.96            | 17.98         | 90.23                 | -739.02                             | 735.04       | 949.47                 | 913.75                  | 35.72             | 26.583    |                    |
| 5,000.00                                                | 4,533.88              | 5,093.81              | 4,534.90              | 18.51            | 18.50         | 90.00                 | -737.37                             | 834.51       | 949.46                 | 912.66                  | 36.80             | 25.801    |                    |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | 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            |
| 5,100.00                                                | 4,536.45              | 5,193.81              | 4,536.89              | 19.06                            | 19.05                         | 89.97                 | -735.71                             | 934.47                              | 949.46                          | 911.56                           | 37.91                     | 25.047            |                    |
| 5,200.00                                                | 4,538.42              | 5,293.81              | 4,538.86              | 19.66                            | 19.65                         | 89.97                 | -734.05                             | 1,034.43                            | 949.46                          | 910.35                           | 39.11                     | 24.276            |                    |
| 5,300.00                                                | 4,540.40              | 5,393.81              | 4,540.84              | 20.30                            | 20.29                         | 89.97                 | -732.39                             | 1,134.40                            | 949.46                          | 909.05                           | 40.41                     | 23.498            |                    |
| 5,400.00                                                | 4,542.37              | 5,493.81              | 4,542.81              | 20.99                            | 20.98                         | 89.97                 | -730.73                             | 1,234.37                            | 949.46                          | 907.68                           | 41.78                     | 22.725            |                    |
| 5,500.00                                                | 4,544.34              | 5,593.81              | 4,544.78              | 21.71                            | 21.70                         | 89.97                 | -729.06                             | 1,334.33                            | 949.46                          | 906.23                           | 43.23                     | 21.963            |                    |
| 5,600.00                                                | 4,546.31              | 5,693.81              | 4,546.75              | 22.46                            | 22.45                         | 89.97                 | -727.40                             | 1,434.30                            | 949.46                          | 904.71                           | 44.75                     | 21.219            |                    |
| 5,700.00                                                | 4,548.28              | 5,793.81              | 4,548.73              | 23.25                            | 23.24                         | 89.97                 | -725.74                             | 1,534.27                            | 949.46                          | 903.13                           | 46.32                     | 20.497            |                    |
| 5,800.00                                                | 4,550.25              | 5,893.81              | 4,550.70              | 24.06                            | 24.05                         | 89.97                 | -724.08                             | 1,634.23                            | 949.46                          | 901.50                           | 47.95                     | 19.800            |                    |
| 5,900.00                                                | 4,552.22              | 5,993.81              | 4,552.67              | 24.90                            | 24.89                         | 89.97                 | -722.42                             | 1,734.20                            | 949.45                          | 899.82                           | 49.63                     | 19.130            |                    |
| 6,000.00                                                | 4,554.19              | 6,093.81              | 4,554.64              | 25.76                            | 25.75                         | 89.97                 | -720.76                             | 1,834.17                            | 949.45                          | 898.10                           | 51.36                     | 18.488            |                    |
| 6,100.00                                                | 4,556.17              | 6,193.81              | 4,556.62              | 26.64                            | 26.63                         | 89.97                 | -719.10                             | 1,934.13                            | 949.45                          | 896.33                           | 53.12                     | 17.874            |                    |
| 6,200.00                                                | 4,558.14              | 6,293.81              | 4,558.59              | 27.53                            | 27.53                         | 89.97                 | -717.44                             | 2,034.10                            | 949.45                          | 894.54                           | 54.92                     | 17.289            |                    |
| 6,300.00                                                | 4,560.11              | 6,393.81              | 4,560.56              | 28.45                            | 28.44                         | 89.97                 | -715.78                             | 2,134.07                            | 949.45                          | 892.70                           | 56.75                     | 16.731            |                    |
| 6,400.00                                                | 4,562.08              | 6,493.81              | 4,562.53              | 29.38                            | 29.37                         | 89.97                 | -714.12                             | 2,234.03                            | 949.45                          | 890.84                           | 58.61                     | 16.200            |                    |
| 6,500.00                                                | 4,564.05              | 6,593.81              | 4,564.50              | 30.32                            | 30.31                         | 89.97                 | -712.46                             | 2,334.00                            | 949.45                          | 888.95                           | 60.50                     | 15.694            |                    |
| 6,600.00                                                | 4,566.02              | 6,693.81              | 4,566.48              | 31.27                            | 31.26                         | 89.97                 | -710.80                             | 2,433.97                            | 949.45                          | 887.04                           | 62.41                     | 15.214            |                    |
| 6,700.00                                                | 4,567.99              | 6,793.81              | 4,568.45              | 32.24                            | 32.23                         | 89.97                 | -709.14                             | 2,533.93                            | 949.45                          | 885.11                           | 64.34                     | 14.756            |                    |
| 6,800.00                                                | 4,569.96              | 6,893.81              | 4,570.42              | 33.21                            | 33.20                         | 89.97                 | -707.48                             | 2,633.90                            | 949.45                          | 883.15                           | 66.30                     | 14.321            |                    |
| 6,900.00                                                | 4,571.94              | 6,993.81              | 4,572.39              | 34.20                            | 34.19                         | 89.97                 | -705.81                             | 2,733.87                            | 949.45                          | 881.18                           | 68.27                     | 13.908            |                    |
| 7,000.00                                                | 4,573.91              | 7,093.81              | 4,574.37              | 35.19                            | 35.18                         | 89.97                 | -704.15                             | 2,833.83                            | 949.44                          | 879.19                           | 70.26                     | 13.514            |                    |
| 7,100.00                                                | 4,575.88              | 7,193.81              | 4,576.34              | 36.19                            | 36.18                         | 89.97                 | -702.49                             | 2,933.80                            | 949.44                          | 877.18                           | 72.26                     | 13.139            |                    |
| 7,200.00                                                | 4,577.85              | 7,293.81              | 4,578.31              | 37.20                            | 37.19                         | 89.97                 | -700.83                             | 3,033.77                            | 949.44                          | 875.16                           | 74.28                     | 12.782            |                    |
| 7,300.00                                                | 4,579.82              | 7,393.81              | 4,580.28              | 38.21                            | 38.21                         | 89.97                 | -699.17                             | 3,133.73                            | 949.44                          | 873.13                           | 76.31                     | 12.441            |                    |
| 7,400.00                                                | 4,581.79              | 7,493.81              | 4,582.26              | 39.23                            | 39.23                         | 89.97                 | -697.51                             | 3,233.70                            | 949.44                          | 871.08                           | 78.36                     | 12.117            |                    |
| 7,500.00                                                | 4,583.76              | 7,593.81              | 4,584.23              | 40.26                            | 40.25                         | 89.97                 | -695.85                             | 3,333.67                            | 949.44                          | 869.03                           | 80.41                     | 11.807            |                    |
| 7,600.00                                                | 4,585.73              | 7,693.81              | 4,586.20              | 41.29                            | 41.28                         | 89.97                 | -694.19                             | 3,433.63                            | 949.44                          | 866.96                           | 82.48                     | 11.511            |                    |
| 7,700.00                                                | 4,587.70              | 7,793.81              | 4,588.17              | 42.33                            | 42.32                         | 89.97                 | -692.53                             | 3,533.60                            | 949.44                          | 864.88                           | 84.55                     | 11.229            |                    |
| 7,800.00                                                | 4,589.68              | 7,893.81              | 4,590.14              | 43.37                            | 43.36                         | 89.97                 | -690.87                             | 3,633.57                            | 949.44                          | 862.80                           | 86.64                     | 10.959            |                    |
| 7,900.00                                                | 4,591.65              | 7,993.81              | 4,592.12              | 44.41                            | 44.41                         | 89.97                 | -689.21                             | 3,733.53                            | 949.44                          | 860.70                           | 88.73                     | 10.700            |                    |
| 8,000.00                                                | 4,593.62              | 8,093.81              | 4,594.09              | 45.46                            | 45.46                         | 89.97                 | -687.55                             | 3,833.50                            | 949.43                          | 858.60                           | 90.83                     | 10.453            |                    |
| 8,100.00                                                | 4,595.59              | 8,193.81              | 4,596.06              | 46.52                            | 46.51                         | 89.97                 | -685.89                             | 3,933.47                            | 949.43                          | 856.49                           | 92.94                     | 10.216            |                    |
| 8,200.00                                                | 4,597.56              | 8,293.81              | 4,598.03              | 47.57                            | 47.57                         | 89.97                 | -684.23                             | 4,033.43                            | 949.43                          | 854.38                           | 95.05                     | 9.988             |                    |
| 8,300.00                                                | 4,599.53              | 8,393.81              | 4,600.01              | 48.63                            | 48.63                         | 89.97                 | -682.56                             | 4,133.40                            | 949.43                          | 852.26                           | 97.17                     | 9.770             |                    |
| 8,400.00                                                | 4,601.50              | 8,493.81              | 4,601.98              | 49.69                            | 49.69                         | 89.97                 | -680.90                             | 4,233.37                            | 949.43                          | 850.13                           | 99.30                     | 9.561             |                    |
| 8,500.00                                                | 4,603.47              | 8,593.81              | 4,603.95              | 50.76                            | 50.75                         | 89.97                 | -679.24                             | 4,333.34                            | 949.43                          | 848.00                           | 101.43                    | 9.360             |                    |
| 8,600.00                                                | 4,605.45              | 8,693.81              | 4,605.92              | 51.83                            | 51.82                         | 89.97                 | -677.58                             | 4,433.30                            | 949.43                          | 845.86                           | 103.57                    | 9.167             |                    |
| 8,700.00                                                | 4,607.42              | 8,793.81              | 4,607.90              | 52.90                            | 52.89                         | 89.97                 | -675.92                             | 4,533.27                            | 949.43                          | 843.72                           | 105.71                    | 8.981             |                    |
| 8,800.00                                                | 4,609.39              | 8,893.81              | 4,609.87              | 53.97                            | 53.96                         | 89.97                 | -674.26                             | 4,633.24                            | 949.43                          | 841.57                           | 107.86                    | 8.803             |                    |
| 8,900.00                                                | 4,611.36              | 8,993.81              | 4,611.84              | 55.04                            | 55.04                         | 89.97                 | -672.60                             | 4,733.20                            | 949.43                          | 839.42                           | 110.01                    | 8.630             |                    |
| 9,000.00                                                | 4,613.33              | 9,093.81              | 4,613.81              | 56.12                            | 56.11                         | 89.97                 | -670.94                             | 4,833.17                            | 949.43                          | 837.26                           | 112.16                    | 8.465             |                    |
| 9,100.00                                                | 4,615.30              | 9,193.81              | 4,615.79              | 57.20                            | 57.19                         | 89.97                 | -669.28                             | 4,933.14                            | 949.42                          | 835.10                           | 114.32                    | 8.305             |                    |
| 9,200.00                                                | 4,617.27              | 9,293.81              | 4,617.76              | 58.28                            | 58.27                         | 89.97                 | -667.62                             | 5,033.10                            | 949.42                          | 832.94                           | 116.48                    | 8.151             |                    |
| 9,300.00                                                | 4,619.24              | 9,393.81              | 4,619.73              | 59.36                            | 59.36                         | 89.97                 | -665.96                             | 5,133.07                            | 949.42                          | 830.77                           | 118.65                    | 8.002             |                    |
| 9,400.00                                                | 4,621.22              | 9,493.81              | 4,621.70              | 60.45                            | 60.44                         | 89.97                 | -664.30                             | 5,233.04                            | 949.42                          | 828.60                           | 120.82                    | 7.858             |                    |
| 9,500.00                                                | 4,623.19              | 9,593.81              | 4,623.67              | 61.53                            | 61.52                         | 89.97                 | -662.64                             | 5,333.00                            | 949.42                          | 826.43                           | 122.99                    | 7.720             |                    |
| 9,600.00                                                | 4,625.16              | 9,693.81              | 4,625.65              | 62.62                            | 62.61                         | 89.97                 | -660.97                             | 5,432.97                            | 949.42                          | 824.25                           | 125.16                    | 7.585             |                    |
| 9,700.00                                                | 4,627.13              | 9,793.81              | 4,627.62              | 63.71                            | 63.70                         | 89.97                 | -659.31                             | 5,532.94                            | 949.42                          | 822.08                           | 127.34                    | 7.456             |                    |
| 9,800.00                                                | 4,629.10              | 9,893.81              | 4,629.59              | 64.80                            | 64.79                         | 89.97                 | -657.65                             | 5,632.90                            | 949.42                          | 819.90                           | 129.52                    | 7.330             |                    |
| 9,900.00                                                | 4,631.07              | 9,993.81              | 4,631.56              | 65.89                            | 65.88                         | 89.97                 | -655.99                             | 5,732.87                            | 949.42                          | 817.71                           | 131.70                    | 7.209             |                    |
| 10,000.00                                               | 4,633.04              | 10,093.81             | 4,633.54              | 66.98                            | 66.97                         | 89.97                 | -654.33                             | 5,832.84                            | 949.42                          | 815.53                           | 133.89                    | 7.091             |                    |
| 10,068.92                                               | 4,634.40              | 10,162.73             | 4,634.90              | 67.73                            | 67.72                         | 89.97                 | -653.19                             | 5,901.73                            | 949.41                          | 814.02                           | 135.39                    | 7.012             |                    |
| 10,099.28                                               | 4,635.00              | 10,167.99             | 4,635.00              | 68.06                            | 67.78                         | 89.97                 | -653.10                             | 5,907.00                            | 949.75                          | 813.95                           | 135.79                    | 6.994 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 90H                           |
| Project:           | EDDY COUNTY, NM (NAD 83 - NME) | TVD Reference:               | RKB = 20' @ 3633.00usft (AKITA 57) |
| Reference Site:    | SMITHDALE 29 FEDERAL           | MD Reference:                | RKB = 20' @ 3633.00usft (AKITA 57) |
| Site Error:        | 0.00 usft                      | North Reference:             | Grid                               |
| Reference Well:    | 90H                            | 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                       |

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design: SMITHDALE 29 FEDERAL - OFFSET: ANTHONEY 1 - Wellbore #1 - Wellbore #1 |                       |                       |                       |                                  |                               |                       |                                     |                                     |                                 |                                  |                           |                   | Offset Site Error: |
|--------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|----------------------------------|-------------------------------|-----------------------|-------------------------------------|-------------------------------------|---------------------------------|----------------------------------|---------------------------|-------------------|--------------------|
| Survey Program: 1006-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) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning            |
| 0.00                                                                                 | 0.00                  | 7.00                  | 7.00                  | 0.00                             | 0.12                          | 142.76                | -542.82                             | 412.59                              | 681.82                          |                                  |                           |                   |                    |
| 100.00                                                                               | 100.00                | 107.00                | 107.00                | 0.29                             | 1.87                          | 142.76                | -542.82                             | 412.59                              | 681.82                          | 679.66                           | 2.16                      | 315.402           |                    |
| 200.00                                                                               | 200.00                | 207.00                | 207.00                | 0.65                             | 3.63                          | 142.76                | -542.82                             | 412.59                              | 681.82                          | 677.55                           | 4.27                      | 159.582           |                    |
| 300.00                                                                               | 300.00                | 307.00                | 307.00                | 1.00                             | 5.38                          | 142.76                | -542.82                             | 412.59                              | 681.82                          | 675.44                           | 6.38                      | 106.813 CC        |                    |
| 400.00                                                                               | 399.98                | 406.98                | 406.98                | 1.36                             | 7.13                          | 168.54                | -542.82                             | 412.59                              | 683.53                          | 675.04                           | 8.49                      | 80.474            |                    |
| 500.00                                                                               | 499.85                | 506.85                | 506.85                | 1.73                             | 8.88                          | 168.61                | -542.82                             | 412.59                              | 688.51                          | 677.90                           | 10.61                     | 64.915            |                    |
| 600.00                                                                               | 599.67                | 606.67                | 606.67                | 2.08                             | 10.63                         | 168.71                | -542.82                             | 412.59                              | 694.30                          | 681.59                           | 12.71                     | 54.621            |                    |
| 700.00                                                                               | 699.50                | 706.50                | 706.50                | 2.44                             | 12.38                         | 168.81                | -542.82                             | 412.59                              | 700.10                          | 685.28                           | 14.82                     | 47.250            |                    |
| 800.00                                                                               | 799.32                | 806.32                | 806.32                | 2.80                             | 14.13                         | 168.90                | -542.82                             | 412.59                              | 705.90                          | 688.98                           | 16.92                     | 41.713            |                    |
| 900.00                                                                               | 899.15                | 906.15                | 906.15                | 3.15                             | 15.88                         | 168.99                | -542.82                             | 412.59                              | 711.70                          | 692.67                           | 19.03                     | 37.400            |                    |
| 1,000.00                                                                             | 998.97                | 1,005.97              | 1,005.97              | 3.51                             | 17.63                         | 169.08                | -542.82                             | 412.59                              | 717.51                          | 696.37                           | 21.14                     | 33.947            |                    |
| 1,100.00                                                                             | 1,098.80              | 1,105.80              | 1,105.80              | 3.87                             | 19.42                         | 169.17                | -542.82                             | 412.59                              | 723.31                          | 700.02                           | 23.29                     | 31.056            |                    |
| 1,200.00                                                                             | 1,198.62              | 1,205.63              | 1,205.62              | 4.23                             | 21.22                         | 169.26                | -542.82                             | 412.59                              | 729.12                          | 703.68                           | 25.45                     | 28.655            |                    |
| 1,300.00                                                                             | 1,298.45              | 1,305.23              | 1,305.22              | 4.59                             | 23.01                         | 169.33                | -542.55                             | 412.59                              | 734.71                          | 707.12                           | 27.60                     | 26.624            |                    |
| 1,400.00                                                                             | 1,398.27              | 1,404.55              | 1,404.54              | 4.95                             | 24.80                         | 169.42                | -542.63                             | 412.59                              | 740.59                          | 710.85                           | 29.74                     | 24.901            |                    |
| 1,500.00                                                                             | 1,498.10              | 1,503.85              | 1,503.85              | 5.31                             | 26.59                         | 169.51                | -542.79                             | 412.59                              | 746.53                          | 714.65                           | 31.89                     | 23.412            |                    |
| 1,600.00                                                                             | 1,597.92              | 1,604.94              | 1,604.92              | 5.67                             | 28.47                         | 169.59                | -542.82                             | 412.59                              | 752.37                          | 718.24                           | 34.13                     | 22.045            |                    |
| 1,700.00                                                                             | 1,697.75              | 1,704.76              | 1,704.75              | 6.03                             | 30.34                         | 169.67                | -542.82                             | 412.59                              | 758.18                          | 721.83                           | 36.36                     | 20.854            |                    |
| 1,800.00                                                                             | 1,797.57              | 1,804.17              | 1,804.15              | 6.39                             | 32.21                         | 169.73                | -542.29                             | 412.59                              | 763.57                          | 724.99                           | 38.58                     | 19.793            |                    |
| 1,900.00                                                                             | 1,897.40              | 1,902.92              | 1,902.90              | 6.74                             | 34.06                         | 169.81                | -542.44                             | 412.59                              | 769.51                          | 728.73                           | 40.78                     | 18.868            |                    |
| 2,000.00                                                                             | 1,997.22              | 2,001.66              | 2,001.64              | 7.10                             | 35.91                         | 169.90                | -542.76                             | 412.59                              | 775.60                          | 732.61                           | 42.99                     | 18.041            |                    |
| 2,100.00                                                                             | 2,097.05              | 2,104.09              | 2,104.05              | 7.46                             | 37.92                         | 169.98                | -542.82                             | 412.59                              | 781.46                          | 736.10                           | 45.36                     | 17.227            |                    |
| 2,200.00                                                                             | 2,196.87              | 2,203.92              | 2,203.87              | 7.82                             | 39.89                         | 170.06                | -542.82                             | 412.59                              | 787.28                          | 739.59                           | 47.69                     | 16.507            |                    |
| 2,300.00                                                                             | 2,296.70              | 2,303.15              | 2,303.10              | 8.18                             | 41.85                         | 170.10                | -542.01                             | 412.59                              | 792.45                          | 742.43                           | 50.01                     | 15.845            |                    |
| 2,400.00                                                                             | 2,396.52              | 2,401.33              | 2,401.28              | 8.54                             | 43.79                         | 170.18                | -542.23                             | 412.59                              | 798.45                          | 746.14                           | 52.31                     | 15.263            |                    |
| 2,500.00                                                                             | 2,496.35              | 2,499.48              | 2,499.43              | 8.90                             | 45.74                         | 170.27                | -542.69                             | 412.59                              | 804.66                          | 750.05                           | 54.61                     | 14.735            |                    |
| 2,600.00                                                                             | 2,596.18              | 2,603.28              | 2,603.18              | 9.26                             | 47.85                         | 170.35                | -542.82                             | 412.59                              | 810.58                          | 753.50                           | 57.09                     | 14.199            |                    |
| 2,700.00                                                                             | 2,696.00              | 2,703.10              | 2,703.00              | 9.62                             | 49.91                         | 170.42                | -542.82                             | 412.59                              | 816.41                          | 756.91                           | 59.50                     | 13.721            |                    |
| 2,800.00                                                                             | 2,795.83              | 2,802.26              | 2,802.14              | 9.98                             | 51.95                         | 170.44                | -541.73                             | 412.59                              | 821.36                          | 759.46                           | 61.90                     | 13.270            |                    |
| 2,900.00                                                                             | 2,895.65              | 2,899.82              | 2,899.70              | 10.34                            | 53.95                         | 170.52                | -541.99                             | 412.59                              | 827.41                          | 763.14                           | 64.26                     | 12.876            |                    |
| 3,000.00                                                                             | 2,995.48              | 2,997.36              | 2,997.23              | 10.70                            | 55.96                         | 170.61                | -542.58                             | 412.59                              | 833.73                          | 767.11                           | 66.62                     | 12.514            |                    |
| 3,100.00                                                                             | 3,095.30              | 3,102.48              | 3,102.30              | 11.06                            | 58.18                         | 170.69                | -542.82                             | 412.59                              | 839.74                          | 770.53                           | 69.21                     | 12.133            |                    |
| 3,200.00                                                                             | 3,195.13              | 3,202.31              | 3,202.13              | 11.42                            | 60.32                         | 170.75                | -542.82                             | 412.59                              | 845.58                          | 773.87                           | 71.71                     | 11.792            |                    |
| 3,300.00                                                                             | 3,294.95              | 3,301.23              | 3,301.04              | 11.78                            | 62.44                         | 170.77                | -541.80                             | 412.59                              | 850.57                          | 776.39                           | 74.18                     | 11.466            |                    |
| 3,400.00                                                                             | 3,394.78              | 3,398.57              | 3,398.38              | 12.14                            | 64.52                         | 170.85                | -542.10                             | 412.59                              | 856.66                          | 780.04                           | 76.62                     | 11.181            |                    |
| 3,500.00                                                                             | 3,494.60              | 3,495.89              | 3,495.69              | 12.49                            | 66.60                         | 170.93                | -542.74                             | 412.59                              | 863.04                          | 783.98                           | 79.06                     | 10.917            |                    |
| 3,600.00                                                                             | 3,594.41              | 3,601.68              | 3,601.41              | 12.85                            | 68.89                         | 93.95                 | -542.82                             | 412.59                              | 866.63                          | 784.93                           | 81.70                     | 10.607            |                    |
| 3,700.00                                                                             | 3,693.54              | 3,700.82              | 3,700.54              | 13.19                            | 71.03                         | 72.95                 | -542.82                             | 412.59                              | 864.26                          | 780.08                           | 84.19                     | 10.266            |                    |
| 3,800.00                                                                             | 3,790.92              | 3,797.49              | 3,797.20              | 13.52                            | 73.12                         | 68.29                 | -541.37                             | 412.59                              | 855.10                          | 768.49                           | 86.62                     | 9.872             |                    |
| 3,900.00                                                                             | 3,885.46              | 3,889.34              | 3,889.05              | 13.84                            | 75.11                         | 67.90                 | -541.63                             | 412.59                              | 842.53                          | 753.59                           | 88.93                     | 9.474             |                    |
| 4,000.00                                                                             | 3,976.15              | 3,977.42              | 3,977.12              | 14.17                            | 77.02                         | 69.52                 | -542.20                             | 412.59                              | 826.46                          | 735.29                           | 91.17                     | 9.065             |                    |
| 4,100.00                                                                             | 4,061.97              | 4,069.35              | 4,068.97              | 14.50                            | 79.01                         | 72.69                 | -542.82                             | 412.59                              | 808.06                          | 714.56                           | 93.50                     | 8.643             |                    |
| 4,200.00                                                                             | 4,142.00              | 4,149.38              | 4,149.00              | 14.84                            | 80.75                         | 76.47                 | -542.82                             | 412.59                              | 788.55                          | 692.97                           | 95.58                     | 8.250             |                    |
| 4,300.00                                                                             | 4,215.36              | 4,222.74              | 4,222.36              | 15.20                            | 82.35                         | 80.67                 | -542.82                             | 412.59                              | 770.57                          | 673.03                           | 97.54                     | 7.900             |                    |
| 4,400.00                                                                             | 4,281.24              | 4,288.29              | 4,287.90              | 15.57                            | 83.77                         | 84.82                 | -541.80                             | 412.59                              | 755.48                          | 656.14                           | 99.34                     | 7.605             |                    |
| 4,500.00                                                                             | 4,338.92              | 4,344.42              | 4,344.03              | 15.98                            | 84.99                         | 88.50                 | -541.88                             | 412.59                              | 747.81                          | 646.84                           | 100.97                    | 7.406             |                    |
| 4,538.73                                                                             | 4,359.34              | 4,364.29              | 4,363.90              | 16.15                            | 85.43                         | 89.78                 | -541.94                             | 412.59                              | 747.10                          | 645.53                           | 101.56                    | 7.356 ES          |                    |
| 4,600.00                                                                             | 4,389.56              | 4,393.69              | 4,393.30              | 16.42                            | 86.07                         | 91.72                 | -542.05                             | 412.59                              | 748.88                          | 646.43                           | 102.45                    | 7.310 SF          |                    |
| 4,700.00                                                                             | 4,439.56              | 4,442.34              | 4,441.95              | 16.90                            | 87.13                         | 94.94                 | -542.31                             | 412.59                              | 759.92                          | 655.99                           | 103.93                    | 7.312             |                    |
| 4,800.00                                                                             | 4,486.55              | 4,488.06              | 4,487.67              | 17.42                            | 88.12                         | 96.52                 | -542.63                             | 412.59                              | 780.99                          | 675.68                           | 105.31                    | 7.416             |                    |
| 4,900.00                                                                             | 4,518.67              | 4,526.14              | 4,525.67              | 17.96                            | 88.97                         | 95.81                 | -542.82                             | 412.59                              | 813.48                          | 707.00                           | 106.49                    | 7.639             |                    |
| 5,000.00                                                                             | 4,533.88              | 4,541.35              | 4,540.88              | 18.51                            | 89.33                         | 92.10                 | -542.82                             | 412.59                              | 857.12                          | 750.07                           | 107.05                    | 8.006             |                    |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | 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: |
| Measured<br>Depth<br>(usft)                                                         | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Semi Major Axis<br>Reference<br>(usft) | Semi Major Axis<br>Offset<br>(usft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre |                 | Rule Assigned:<br>Distance<br>Between<br>Centres<br>(usft) |          | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning            |
|                                                                                     |                             |                             |                             |                                        |                                     |                             | +N/-S<br>(usft)        | +E/-W<br>(usft) |                                                            |          |                                 |                      |                    |
| 5,100.00                                                                            | 4,536.45                    | 4,543.92                    | 4,543.45                    | 19.06                                  | 89.39                               | 90.78                       | -542.82                | 412.59          | 910.13                                                     | 802.89   | 107.24                          | 8.487                |                    |
| 5,200.00                                                                            | 4,538.42                    | 4,545.89                    | 4,545.42                    | 19.66                                  | 89.43                               | 90.93                       | -542.82                | 412.59          | 970.58                                                     | 863.20   | 107.38                          | 9.039                |                    |
| 5,300.00                                                                            | 4,540.40                    | 4,547.86                    | 4,547.40                    | 20.30                                  | 89.48                               | 91.08                       | -542.82                | 412.59          | 1,037.17                                                   | 929.68   | 107.49                          | 9.649                |                    |
| 5,400.00                                                                            | 4,542.37                    | 4,549.84                    | 4,549.37                    | 20.99                                  | 89.53                               | 91.24                       | -542.82                | 412.59          | 1,108.78                                                   | 1,001.20 | 107.58                          | 10.307               |                    |
| 5,500.00                                                                            | 4,544.34                    | 4,551.81                    | 4,551.34                    | 21.71                                  | 89.57                               | 91.39                       | -542.82                | 412.59          | 1,184.51                                                   | 1,076.85 | 107.65                          | 11.003               |                    |
| 5,600.00                                                                            | 4,546.31                    | 4,553.78                    | 4,553.31                    | 22.46                                  | 89.62                               | 91.54                       | -542.82                | 412.59          | 1,263.61                                                   | 1,155.89 | 107.72                          | 11.731               |                    |
| 5,700.00                                                                            | 4,548.28                    | 4,555.75                    | 4,555.28                    | 23.25                                  | 89.66                               | 91.69                       | -542.82                | 412.59          | 1,345.50                                                   | 1,237.72 | 107.78                          | 12.484               |                    |
| 5,800.00                                                                            | 4,550.25                    | 4,557.72                    | 4,557.25                    | 24.06                                  | 89.71                               | 91.84                       | -542.82                | 412.59          | 1,429.69                                                   | 1,321.86 | 107.83                          | 13.258               |                    |
| 5,900.00                                                                            | 4,552.22                    | 4,559.69                    | 4,559.22                    | 24.90                                  | 89.76                               | 91.99                       | -542.82                | 412.59          | 1,515.80                                                   | 1,407.92 | 107.89                          | 14.050               |                    |
| 6,000.00                                                                            | 4,554.19                    | 4,561.66                    | 4,561.19                    | 25.76                                  | 89.80                               | 92.14                       | -542.82                | 412.59          | 1,603.52                                                   | 1,495.59 | 107.94                          | 14.856               |                    |
| 6,100.00                                                                            | 4,556.17                    | 4,563.63                    | 4,563.17                    | 26.64                                  | 89.85                               | 92.29                       | -542.82                | 412.59          | 1,692.60                                                   | 1,584.62 | 107.99                          | 15.674               |                    |
| 6,200.00                                                                            | 4,558.14                    | 4,565.60                    | 4,565.14                    | 27.53                                  | 89.89                               | 92.44                       | -542.82                | 412.59          | 1,782.84                                                   | 1,674.80 | 108.04                          | 16.502               |                    |
| 6,300.00                                                                            | 4,560.11                    | 4,567.58                    | 4,567.11                    | 28.45                                  | 89.94                               | 92.59                       | -542.82                | 412.59          | 1,874.07                                                   | 1,765.97 | 108.09                          | 17.338               |                    |
| 6,400.00                                                                            | 4,562.08                    | 4,569.55                    | 4,569.08                    | 29.38                                  | 89.99                               | 92.74                       | -542.82                | 412.59          | 1,966.15                                                   | 1,858.00 | 108.15                          | 18.180               |                    |
| 6,500.00                                                                            | 4,564.05                    | 4,571.52                    | 4,571.05                    | 30.32                                  | 90.03                               | 92.89                       | -542.82                | 412.59          | 2,058.96                                                   | 1,950.76 | 108.20                          | 19.029               |                    |
| 6,600.00                                                                            | 4,566.02                    | 4,573.49                    | 4,573.02                    | 31.27                                  | 90.08                               | 93.04                       | -542.82                | 412.59          | 2,152.42                                                   | 2,044.16 | 108.26                          | 19.882               |                    |
| 6,700.00                                                                            | 4,567.99                    | 4,575.46                    | 4,574.99                    | 32.24                                  | 90.12                               | 93.20                       | -542.82                | 412.59          | 2,246.44                                                   | 2,138.12 | 108.32                          | 20.740               |                    |
| 6,800.00                                                                            | 4,569.96                    | 4,577.43                    | 4,576.96                    | 33.21                                  | 90.17                               | 93.35                       | -542.82                | 412.59          | 2,340.95                                                   | 2,232.57 | 108.38                          | 21.600               |                    |
| 6,900.00                                                                            | 4,571.94                    | 4,579.40                    | 4,578.94                    | 34.20                                  | 90.21                               | 93.50                       | -542.82                | 412.59          | 2,435.90                                                   | 2,327.46 | 108.44                          | 22.464               |                    |
| 7,000.00                                                                            | 4,573.91                    | 4,581.37                    | 4,580.91                    | 35.19                                  | 90.26                               | 93.65                       | -542.82                | 412.59          | 2,531.24                                                   | 2,422.74 | 108.50                          | 23.330               |                    |
| 7,100.00                                                                            | 4,575.88                    | 4,583.35                    | 4,582.88                    | 36.19                                  | 90.31                               | 93.80                       | -542.82                | 412.59          | 2,626.92                                                   | 2,518.36 | 108.56                          | 24.197               |                    |
| 7,200.00                                                                            | 4,577.85                    | 4,585.32                    | 4,584.85                    | 37.20                                  | 90.35                               | 93.95                       | -542.82                | 412.59          | 2,722.91                                                   | 2,614.28 | 108.63                          | 25.066               |                    |
| 7,300.00                                                                            | 4,579.82                    | 4,587.29                    | 4,586.82                    | 38.21                                  | 90.40                               | 94.10                       | -542.82                | 412.59          | 2,819.18                                                   | 2,710.48 | 108.70                          | 25.936               |                    |
| 7,400.00                                                                            | 4,581.79                    | 4,589.26                    | 4,588.79                    | 39.23                                  | 90.44                               | 94.25                       | -542.82                | 412.59          | 2,915.70                                                   | 2,806.93 | 108.76                          | 26.807               |                    |
| 7,500.00                                                                            | 4,583.76                    | 4,591.23                    | 4,590.76                    | 40.26                                  | 90.49                               | 94.40                       | -542.82                | 412.59          | 3,012.44                                                   | 2,903.61 | 108.83                          | 27.679               |                    |
| 7,600.00                                                                            | 4,585.73                    | 4,593.20                    | 4,592.73                    | 41.29                                  | 90.54                               | 94.55                       | -542.82                | 412.59          | 3,109.39                                                   | 3,000.49 | 108.91                          | 28.551               |                    |
| 7,700.00                                                                            | 4,587.70                    | 4,595.17                    | 4,594.70                    | 42.33                                  | 90.58                               | 94.70                       | -542.82                | 412.59          | 3,206.53                                                   | 3,097.55 | 108.98                          | 29.423               |                    |
| 7,800.00                                                                            | 4,589.68                    | 4,597.14                    | 4,596.68                    | 43.37                                  | 90.63                               | 94.85                       | -542.82                | 412.59          | 3,303.83                                                   | 3,194.78 | 109.05                          | 30.296               |                    |
| 7,900.00                                                                            | 4,591.65                    | 4,599.12                    | 4,598.65                    | 44.41                                  | 90.67                               | 95.00                       | -542.82                | 412.59          | 3,401.29                                                   | 3,292.16 | 109.13                          | 31.168               |                    |
| 8,000.00                                                                            | 4,593.62                    | 4,601.09                    | 4,600.62                    | 45.46                                  | 90.72                               | 95.15                       | -542.82                | 412.59          | 3,498.89                                                   | 3,389.69 | 109.20                          | 32.040               |                    |
| 8,100.00                                                                            | 4,595.59                    | 4,603.06                    | 4,602.59                    | 46.52                                  | 90.77                               | 95.30                       | -542.82                | 412.59          | 3,596.63                                                   | 3,487.34 | 109.28                          | 32.911               |                    |
| 8,200.00                                                                            | 4,597.56                    | 4,605.03                    | 4,604.56                    | 47.57                                  | 90.81                               | 95.45                       | -542.82                | 412.59          | 3,694.48                                                   | 3,585.12 | 109.36                          | 33.782               |                    |
| 8,300.00                                                                            | 4,599.53                    | 4,607.00                    | 4,606.53                    | 48.63                                  | 90.86                               | 95.60                       | -542.82                | 412.59          | 3,792.44                                                   | 3,683.00 | 109.44                          | 34.652               |                    |
| 8,400.00                                                                            | 4,601.50                    | 4,608.97                    | 4,608.50                    | 49.69                                  | 90.90                               | 95.75                       | -542.82                | 412.59          | 3,890.51                                                   | 3,780.99 | 109.52                          | 35.522               |                    |
| 8,500.00                                                                            | 4,603.47                    | 4,610.94                    | 4,610.47                    | 50.76                                  | 90.95                               | 95.90                       | -542.82                | 412.59          | 3,988.67                                                   | 3,879.07 | 109.61                          | 36.391               |                    |
| 8,600.00                                                                            | 4,605.45                    | 4,612.91                    | 4,612.45                    | 51.83                                  | 91.00                               | 96.04                       | -542.82                | 412.59          | 4,086.92                                                   | 3,977.23 | 109.69                          | 37.259               |                    |
| 8,700.00                                                                            | 4,607.42                    | 4,614.89                    | 4,614.42                    | 52.90                                  | 91.04                               | 96.19                       | -542.82                | 412.59          | 4,185.26                                                   | 4,075.48 | 109.78                          | 38.125               |                    |
| 8,800.00                                                                            | 4,609.39                    | 4,616.86                    | 4,616.39                    | 53.97                                  | 91.09                               | 96.34                       | -542.82                | 412.59          | 4,283.66                                                   | 4,173.80 | 109.86                          | 38.991               |                    |
| 8,900.00                                                                            | 4,611.36                    | 4,618.83                    | 4,618.36                    | 55.04                                  | 91.13                               | 96.49                       | -542.82                | 412.59          | 4,382.14                                                   | 4,272.19 | 109.95                          | 39.856               |                    |
| 9,000.00                                                                            | 4,613.33                    | 4,620.80                    | 4,620.33                    | 56.12                                  | 91.18                               | 96.64                       | -542.82                | 412.59          | 4,480.69                                                   | 4,370.65 | 110.04                          | 40.720               |                    |
| 9,100.00                                                                            | 4,615.30                    | 4,622.77                    | 4,622.30                    | 57.20                                  | 91.23                               | 96.79                       | -542.82                | 412.59          | 4,579.30                                                   | 4,469.17 | 110.13                          | 41.582               |                    |
| 9,200.00                                                                            | 4,617.27                    | 4,624.74                    | 4,624.27                    | 58.28                                  | 91.27                               | 96.94                       | -542.82                | 412.59          | 4,677.96                                                   | 4,567.75 | 110.22                          | 42.443               |                    |
| 9,300.00                                                                            | 4,619.24                    | 4,626.71                    | 4,626.24                    | 59.36                                  | 91.32                               | 97.09                       | -542.82                | 412.59          | 4,776.69                                                   | 4,666.38 | 110.31                          | 43.303               |                    |
| 9,400.00                                                                            | 4,621.22                    | 4,628.68                    | 4,628.22                    | 60.45                                  | 91.36                               | 97.24                       | -542.82                | 412.59          | 4,875.46                                                   | 4,765.06 | 110.40                          | 44.161               |                    |
| 9,500.00                                                                            | 4,623.19                    | 4,630.66                    | 4,630.19                    | 61.53                                  | 91.41                               | 97.38                       | -542.82                | 412.59          | 4,974.28                                                   | 4,863.78 | 110.50                          | 45.018               |                    |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design: SMITHDALE 29 FEDERAL - OFFSET: ANTHONY 2 - Wellbore #1 - Wellbore #1 |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                   |            | Offset Site Error: |
|-------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|-------------------|------------|--------------------|
| Survey Program: 1004-INC-ONLY                                                       |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                   |            | 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) | Factor     |                    |
| 0.00                                                                                | 0.00                  | 22.00                 | 22.00                 | 0.00             | 0.39          | -176.98               | -1,166.23                           | -61.56       | 1,167.85               |                         |                   |            |                    |
| 100.00                                                                              | 100.00                | 122.00                | 122.00                | 0.29             | 2.14          | -176.98               | -1,166.23                           | -61.56       | 1,167.85               | 1,165.43                | 2.42              | 481.675    |                    |
| 200.00                                                                              | 200.00                | 222.00                | 222.00                | 0.65             | 3.89          | -176.98               | -1,166.23                           | -61.56       | 1,167.85               | 1,163.32                | 4.54              | 257.502    |                    |
| 300.00                                                                              | 300.00                | 322.00                | 322.00                | 1.00             | 5.64          | -176.98               | -1,166.23                           | -61.56       | 1,167.85               | 1,161.21                | 6.65              | 175.721 CC |                    |
| 400.00                                                                              | 399.98                | 421.98                | 421.98                | 1.36             | 7.39          | -151.25               | -1,166.23                           | -61.56       | 1,169.38               | 1,160.63                | 8.76              | 133.544 ES |                    |
| 500.00                                                                              | 499.85                | 521.85                | 521.85                | 1.73             | 9.14          | -151.34               | -1,166.23                           | -61.56       | 1,173.83               | 1,162.96                | 10.87             | 108.003    |                    |
| 600.00                                                                              | 599.67                | 621.67                | 621.67                | 2.08             | 10.89         | -151.48               | -1,166.23                           | -61.56       | 1,179.03               | 1,166.05                | 12.97             | 90.872     |                    |
| 700.00                                                                              | 699.50                | 721.50                | 721.50                | 2.44             | 12.64         | -151.61               | -1,166.23                           | -61.56       | 1,184.22               | 1,169.14                | 15.08             | 78.524     |                    |
| 800.00                                                                              | 799.32                | 821.32                | 821.32                | 2.80             | 14.39         | -151.75               | -1,166.23                           | -61.56       | 1,189.43               | 1,172.24                | 17.19             | 69.201     |                    |
| 900.00                                                                              | 899.15                | 921.15                | 921.15                | 3.15             | 16.14         | -151.88               | -1,166.23                           | -61.56       | 1,194.64               | 1,175.35                | 19.30             | 61.913     |                    |
| 1,000.00                                                                            | 998.97                | 1,020.98              | 1,020.97              | 3.51             | 17.89         | -152.01               | -1,166.23                           | -61.56       | 1,199.86               | 1,178.46                | 21.41             | 56.052     |                    |
| 1,100.00                                                                            | 1,098.80              | 1,120.80              | 1,120.80              | 3.87             | 19.66         | -152.15               | -1,166.23                           | -61.56       | 1,205.09               | 1,181.55                | 23.53             | 51.208     |                    |
| 1,200.00                                                                            | 1,198.62              | 1,220.63              | 1,220.62              | 4.23             | 21.43         | -152.28               | -1,166.23                           | -61.56       | 1,210.32               | 1,184.66                | 25.66             | 47.167     |                    |
| 1,300.00                                                                            | 1,298.45              | 1,319.61              | 1,319.61              | 4.59             | 23.18         | -152.40               | -1,166.00                           | -61.56       | 1,215.32               | 1,187.55                | 27.77             | 43.760     |                    |
| 1,400.00                                                                            | 1,398.27              | 1,418.34              | 1,418.33              | 4.95             | 24.93         | -152.53               | -1,166.11                           | -61.56       | 1,220.68               | 1,190.80                | 29.88             | 40.853     |                    |
| 1,500.00                                                                            | 1,498.10              | 1,520.11              | 1,520.10              | 5.31             | 26.74         | -152.66               | -1,166.23                           | -61.56       | 1,226.05               | 1,194.01                | 32.04             | 38.264     |                    |
| 1,600.00                                                                            | 1,597.92              | 1,619.93              | 1,619.92              | 5.67             | 28.51         | -152.79               | -1,166.23                           | -61.56       | 1,231.31               | 1,197.14                | 34.17             | 36.036     |                    |
| 1,700.00                                                                            | 1,697.75              | 1,719.76              | 1,719.75              | 6.03             | 30.27         | -152.91               | -1,166.23                           | -61.56       | 1,236.57               | 1,200.27                | 36.30             | 34.069     |                    |
| 1,800.00                                                                            | 1,797.57              | 1,818.66              | 1,818.65              | 6.39             | 32.03         | -153.04               | -1,165.99                           | -61.56       | 1,241.60               | 1,203.19                | 38.41             | 32.327     |                    |
| 1,900.00                                                                            | 1,897.40              | 1,917.41              | 1,917.40              | 6.74             | 33.78         | -153.16               | -1,166.10                           | -61.56       | 1,246.99               | 1,206.47                | 40.52             | 30.778     |                    |
| 2,000.00                                                                            | 1,997.22              | 2,019.24              | 2,019.22              | 7.10             | 35.60         | -153.28               | -1,166.23                           | -61.56       | 1,252.39               | 1,209.69                | 42.70             | 29.331     |                    |
| 2,100.00                                                                            | 2,097.05              | 2,119.06              | 2,119.05              | 7.46             | 37.43         | -153.40               | -1,166.23                           | -61.56       | 1,257.68               | 1,212.79                | 44.88             | 28.021     |                    |
| 2,200.00                                                                            | 2,196.87              | 2,218.89              | 2,218.87              | 7.82             | 39.25         | -153.52               | -1,166.23                           | -61.56       | 1,262.97               | 1,215.90                | 47.07             | 26.833     |                    |
| 2,300.00                                                                            | 2,296.70              | 2,317.86              | 2,317.84              | 8.18             | 41.06         | -153.64               | -1,165.98                           | -61.56       | 1,268.01               | 1,218.78                | 49.24             | 25.753     |                    |
| 2,400.00                                                                            | 2,396.52              | 2,416.60              | 2,416.59              | 8.54             | 42.87         | -153.76               | -1,166.09                           | -61.56       | 1,273.43               | 1,222.02                | 51.40             | 24.774     |                    |
| 2,500.00                                                                            | 2,496.35              | 2,518.38              | 2,518.35              | 8.90             | 44.76         | -153.88               | -1,166.23                           | -61.56       | 1,278.87               | 1,225.22                | 53.65             | 23.836     |                    |
| 2,600.00                                                                            | 2,596.18              | 2,618.21              | 2,618.18              | 9.26             | 46.71         | -153.99               | -1,166.23                           | -61.56       | 1,284.19               | 1,228.23                | 55.96             | 22.949     |                    |
| 2,700.00                                                                            | 2,696.00              | 2,718.03              | 2,718.00              | 9.62             | 48.65         | -154.11               | -1,166.23                           | -61.56       | 1,289.50               | 1,231.24                | 58.26             | 22.132     |                    |
| 2,800.00                                                                            | 2,795.83              | 2,816.19              | 2,816.15              | 9.98             | 50.57         | -154.22               | -1,165.38                           | -61.56       | 1,293.98               | 1,233.45                | 60.54             | 21.375     |                    |
| 2,900.00                                                                            | 2,895.65              | 2,912.96              | 2,912.91              | 10.34            | 52.46         | -154.33               | -1,165.62                           | -61.56       | 1,299.56               | 1,236.78                | 62.78             | 20.700     |                    |
| 3,000.00                                                                            | 2,995.48              | 3,009.71              | 3,009.66              | 10.70            | 54.34         | -154.44               | -1,166.09                           | -61.56       | 1,305.37               | 1,240.35                | 65.02             | 20.075     |                    |
| 3,100.00                                                                            | 3,095.30              | 3,117.40              | 3,117.30              | 11.06            | 56.51         | -154.56               | -1,166.23                           | -61.56       | 1,310.82               | 1,243.27                | 67.55             | 19.404     |                    |
| 3,200.00                                                                            | 3,195.13              | 3,217.22              | 3,217.13              | 11.42            | 58.53         | -154.67               | -1,166.23                           | -61.56       | 1,316.17               | 1,246.23                | 69.94             | 18.819     |                    |
| 3,300.00                                                                            | 3,294.95              | 3,314.66              | 3,314.55              | 11.78            | 60.51         | -154.78               | -1,165.25                           | -61.56       | 1,320.54               | 1,248.27                | 72.27             | 18.272     |                    |
| 3,400.00                                                                            | 3,394.78              | 3,409.79              | 3,409.68              | 12.14            | 62.44         | -154.88               | -1,165.59                           | -61.56       | 1,326.25               | 1,251.69                | 74.56             | 17.789     |                    |
| 3,500.00                                                                            | 3,494.60              | 3,516.77              | 3,516.60              | 12.49            | 64.62         | -155.00               | -1,166.23                           | -61.56       | 1,332.22               | 1,255.12                | 77.10             | 17.279     |                    |
| 3,600.00                                                                            | 3,594.41              | 3,616.58              | 3,616.41              | 12.85            | 66.73         | 127.66                | -1,166.23                           | -61.56       | 1,337.47               | 1,257.91                | 79.56             | 16.811     |                    |
| 3,700.00                                                                            | 3,693.54              | 3,715.71              | 3,715.54              | 13.19            | 68.82         | 105.93                | -1,166.23                           | -61.56       | 1,342.46               | 1,260.47                | 81.99             | 16.373     |                    |
| 3,800.00                                                                            | 3,790.92              | 3,810.51              | 3,810.33              | 13.52            | 70.82         | 100.14                | -1,165.17                           | -61.56       | 1,346.35               | 1,262.02                | 84.33             | 15.966     |                    |
| 3,900.00                                                                            | 3,885.46              | 3,900.88              | 3,900.69              | 13.84            | 72.73         | 98.10                 | -1,165.49                           | -61.56       | 1,352.02               | 1,265.46                | 86.56             | 15.619     |                    |
| 4,000.00                                                                            | 3,976.15              | 3,987.53              | 3,987.34              | 14.17            | 74.56         | 97.56                 | -1,166.05                           | -61.56       | 1,358.97               | 1,270.26                | 88.71             | 15.319     |                    |
| 4,100.00                                                                            | 4,061.97              | 4,084.24              | 4,083.97              | 14.50            | 76.62         | 98.07                 | -1,166.23                           | -61.56       | 1,367.28               | 1,276.17                | 91.11             | 15.007     |                    |
| 4,200.00                                                                            | 4,142.00              | 4,164.27              | 4,164.00              | 14.84            | 78.33         | 98.69                 | -1,166.23                           | -61.56       | 1,378.13               | 1,284.98                | 93.15             | 14.795     |                    |
| 4,300.00                                                                            | 4,215.36              | 4,237.63              | 4,237.36              | 15.20            | 79.90         | 99.37                 | -1,166.23                           | -61.56       | 1,392.55               | 1,297.49                | 95.05             | 14.650     |                    |
| 4,400.00                                                                            | 4,281.24              | 4,299.89              | 4,299.61              | 15.57            | 81.23         | 99.77                 | -1,165.03                           | -61.56       | 1,410.21               | 1,313.49                | 96.72             | 14.580 SF  |                    |
| 4,500.00                                                                            | 4,338.92              | 4,354.12              | 4,353.83              | 15.98            | 82.39         | 99.82                 | -1,165.24                           | -61.56       | 1,434.38               | 1,336.15                | 98.23             | 14.603     |                    |
| 4,600.00                                                                            | 4,389.56              | 4,401.72              | 4,401.43              | 16.42            | 83.40         | 100.75                | -1,165.54                           | -61.56       | 1,463.99               | 1,364.39                | 99.59             | 14.700     |                    |
| 4,700.00                                                                            | 4,439.56              | 4,448.73              | 4,448.43              | 16.90            | 84.41         | 102.39                | -1,165.94                           | -61.56       | 1,498.19               | 1,397.23                | 100.96            | 14.840     |                    |
| 4,800.00                                                                            | 4,486.55              | 4,508.91              | 4,508.55              | 17.42            | 85.72         | 101.85                | -1,166.23                           | -61.56       | 1,537.08               | 1,434.44                | 102.65            | 14.975     |                    |
| 4,900.00                                                                            | 4,518.67              | 4,541.03              | 4,540.67              | 17.96            | 86.43         | 97.99                 | -1,166.23                           | -61.56       | 1,582.97               | 1,479.29                | 103.69            | 15.267     |                    |
| 5,000.00                                                                            | 4,533.88              | 4,556.24              | 4,555.88              | 18.51            | 86.77         | 92.49                 | -1,166.23                           | -61.56       | 1,635.34               | 1,531.04                | 104.30            | 15.679     |                    |
| 5,100.00                                                                            | 4,536.45              | 4,558.81              | 4,558.45              | 19.06            | 86.83         | 90.83                 | -1,166.23                           | -61.56       | 1,692.59               | 1,588.01                | 104.59            | 16.184     |                    |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | 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<br>Toolface<br>(°) | Offset Wellbore Centre |                 | Rule Assigned:                           |                               | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning                      |
| Measured<br>Depth<br>(usft)                                                         | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                             | +N/-S<br>(usft)        | +E/-W<br>(usft) | Distance<br>Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) |                                 |                      |                              |
| 5,200.00                                                                            | 4,538.42                    | 4,560.78                    | 4,560.42                    | 19.66               | 86.87            | 90.91                       | -1,166.23              | -61.56          | 1,753.69                                 | 1,648.84                      | 104.86                          | 16.725               |                              |
| 5,300.00                                                                            | 4,540.40                    | 4,562.75                    | 4,562.40                    | 20.30               | 86.91            | 91.00                       | -1,166.23              | -61.56          | 1,818.24                                 | 1,713.12                      | 105.12                          | 17.297               |                              |
| 5,400.00                                                                            | 4,542.37                    | 4,564.72                    | 4,564.37                    | 20.99               | 86.96            | 91.08                       | -1,166.23              | -61.56          | 1,885.88                                 | 1,780.51                      | 105.37                          | 17.898               |                              |
| 5,500.00                                                                            | 4,544.34                    | 4,566.70                    | 4,566.34                    | 21.71               | 87.00            | 91.16                       | -1,166.23              | -61.56          | 1,956.29                                 | 1,850.68                      | 105.61                          | 18.524               |                              |
| 5,600.00                                                                            | 4,546.31                    | 4,568.67                    | 4,568.31                    | 22.46               | 87.04            | 91.24                       | -1,166.23              | -61.56          | 2,029.19                                 | 1,923.35                      | 105.84                          | 19.172               |                              |
| 5,700.00                                                                            | 4,548.28                    | 4,570.64                    | 4,570.28                    | 23.25               | 87.09            | 91.33                       | -1,166.23              | -61.56          | 2,104.31                                 | 1,998.25                      | 106.06                          | 19.841               |                              |
| 5,800.00                                                                            | 4,550.25                    | 4,572.61                    | 4,572.25                    | 24.06               | 87.13            | 91.41                       | -1,166.23              | -61.56          | 2,181.43                                 | 2,075.16                      | 106.26                          | 20.528               |                              |
| 5,900.00                                                                            | 4,552.22                    | 4,574.58                    | 4,574.22                    | 24.90               | 87.17            | 91.49                       | -1,166.23              | -61.56          | 2,260.34                                 | 2,153.88                      | 106.46                          | 21.231               |                              |
| 6,000.00                                                                            | 4,554.19                    | 4,576.55                    | 4,576.19                    | 25.76               | 87.22            | 91.58                       | -1,166.23              | -61.56          | 2,340.86                                 | 2,234.21                      | 106.65                          | 21.949               |                              |
| 6,100.00                                                                            | 4,556.17                    | 4,578.52                    | 4,578.17                    | 26.64               | 87.26            | 91.66                       | -1,166.23              | -61.56          | 2,422.83                                 | 2,316.01                      | 106.83                          | 22.680               |                              |
| 6,200.00                                                                            | 4,558.14                    | 4,580.49                    | 4,580.14                    | 27.53               | 87.31            | 91.74                       | -1,166.23              | -61.56          | 2,506.11                                 | 2,399.12                      | 107.00                          | 23.422               |                              |
| 6,300.00                                                                            | 4,560.11                    | 4,582.46                    | 4,582.11                    | 28.45               | 87.35            | 91.82                       | -1,166.23              | -61.56          | 2,590.58                                 | 2,483.41                      | 107.16                          | 24.174               |                              |
| 6,400.00                                                                            | 4,562.08                    | 4,584.44                    | 4,584.08                    | 29.38               | 87.39            | 91.91                       | -1,166.23              | -61.56          | 2,676.11                                 | 2,568.79                      | 107.32                          | 24.936               |                              |
| 6,500.00                                                                            | 4,564.05                    | 4,586.41                    | 4,586.05                    | 30.32               | 87.44            | 91.99                       | -1,166.23              | -61.56          | 2,762.61                                 | 2,655.14                      | 107.47                          | 25.706               |                              |
| 6,600.00                                                                            | 4,566.02                    | 4,588.38                    | 4,588.02                    | 31.27               | 87.48            | 92.07                       | -1,166.23              | -61.56          | 2,849.99                                 | 2,742.38                      | 107.61                          | 26.484               |                              |
| 6,700.00                                                                            | 4,567.99                    | 4,590.35                    | 4,589.99                    | 32.24               | 87.52            | 92.16                       | -1,166.23              | -61.56          | 2,938.18                                 | 2,830.43                      | 107.75                          | 27.268               |                              |
| 6,800.00                                                                            | 4,569.96                    | 4,592.32                    | 4,591.96                    | 33.21               | 87.57            | 92.24                       | -1,166.23              | -61.56          | 3,027.10                                 | 2,919.21                      | 107.89                          | 28.058               |                              |
| 6,900.00                                                                            | 4,571.94                    | 4,594.29                    | 4,593.94                    | 34.20               | 87.61            | 92.32                       | -1,166.23              | -61.56          | 3,116.69                                 | 3,008.67                      | 108.02                          | 28.854               |                              |
| 7,000.00                                                                            | 4,573.91                    | 4,596.26                    | 4,595.91                    | 35.19               | 87.66            | 92.40                       | -1,166.23              | -61.56          | 3,206.90                                 | 3,098.75                      | 108.14                          | 29.654               |                              |
| 7,100.00                                                                            | 4,575.88                    | 4,598.23                    | 4,597.88                    | 36.19               | 87.70            | 92.49                       | -1,166.23              | -61.56          | 3,297.67                                 | 3,189.40                      | 108.27                          | 30.458               |                              |
| 7,200.00                                                                            | 4,577.85                    | 4,600.21                    | 4,599.85                    | 37.20               | 87.74            | 92.57                       | -1,166.23              | -61.56          | 3,388.95                                 | 3,280.56                      | 108.39                          | 31.267               |                              |
| 7,300.00                                                                            | 4,579.82                    | 4,602.18                    | 4,601.82                    | 38.21               | 87.79            | 92.65                       | -1,166.23              | -61.56          | 3,480.72                                 | 3,372.21                      | 108.51                          | 32.078               |                              |
| 7,400.00                                                                            | 4,581.79                    | 4,604.15                    | 4,603.79                    | 39.23               | 87.83            | 92.73                       | -1,166.23              | -61.56          | 3,572.92                                 | 3,464.30                      | 108.62                          | 32.893               |                              |
| 7,500.00                                                                            | 4,583.76                    | 4,606.12                    | 4,605.76                    | 40.26               | 87.87            | 92.82                       | -1,166.23              | -61.56          | 3,665.54                                 | 3,556.80                      | 108.74                          | 33.710               |                              |
| 7,600.00                                                                            | 4,585.73                    | 4,608.09                    | 4,607.73                    | 41.29               | 87.92            | 92.90                       | -1,166.23              | -61.56          | 3,758.53                                 | 3,649.68                      | 108.85                          | 34.530               |                              |
| 7,700.00                                                                            | 4,587.70                    | 4,610.06                    | 4,609.70                    | 42.33               | 87.96            | 92.98                       | -1,166.23              | -61.56          | 3,851.87                                 | 3,742.91                      | 108.96                          | 35.351               |                              |
| 7,800.00                                                                            | 4,589.68                    | 4,612.03                    | 4,611.68                    | 43.37               | 88.00            | 93.06                       | -1,166.23              | -61.56          | 3,945.54                                 | 3,836.47                      | 109.07                          | 36.175               |                              |
| 7,900.00                                                                            | 4,591.65                    | 4,614.00                    | 4,613.65                    | 44.41               | 88.05            | 93.15                       | -1,166.23              | -61.56          | 4,039.51                                 | 3,930.33                      | 109.18                          | 37.000               |                              |
| 8,000.00                                                                            | 4,593.62                    | 4,615.98                    | 4,615.62                    | 45.46               | 88.09            | 93.23                       | -1,166.23              | -61.56          | 4,133.76                                 | 4,024.48                      | 109.28                          | 37.826               |                              |
| 8,100.00                                                                            | 4,595.59                    | 4,617.95                    | 4,617.59                    | 46.52               | 88.14            | 93.31                       | -1,166.23              | -61.56          | 4,228.27                                 | 4,118.89                      | 109.39                          | 38.654               |                              |
| 8,200.00                                                                            | 4,597.56                    | 4,619.92                    | 4,619.56                    | 47.57               | 88.18            | 93.39                       | -1,166.23              | -61.56          | 4,323.03                                 | 4,213.54                      | 109.49                          | 39.482               |                              |
| 8,300.00                                                                            | 4,599.53                    | 4,621.89                    | 4,621.53                    | 48.63               | 88.22            | 93.48                       | -1,166.23              | -61.56          | 4,418.02                                 | 4,308.43                      | 109.60                          | 40.312               |                              |
| 8,400.00                                                                            | 4,601.50                    | 4,623.86                    | 4,623.50                    | 49.69               | 88.27            | 93.56                       | -1,166.23              | -61.56          | 4,513.23                                 | 4,403.53                      | 109.70                          | 41.141               |                              |
| 8,500.00                                                                            | 4,603.47                    | 4,625.83                    | 4,625.47                    | 50.76               | 88.31            | 93.64                       | -1,166.23              | -61.56          | 4,608.64                                 | 4,498.84                      | 109.80                          | 41.972               |                              |
| 8,600.00                                                                            | 4,605.45                    | 4,627.80                    | 4,627.45                    | 51.83               | 88.35            | 93.72                       | -1,166.23              | -61.56          | 4,704.24                                 | 4,594.33                      | 109.91                          | 42.802               |                              |
| 8,700.00                                                                            | 4,607.42                    | 4,629.77                    | 4,629.42                    | 52.90               | 88.40            | 93.81                       | -1,166.23              | -61.56          | 4,800.01                                 | 4,690.01                      | 110.01                          | 43.633               |                              |
| 8,800.00                                                                            | 4,609.39                    | 4,631.75                    | 4,631.39                    | 53.97               | 88.44            | 93.89                       | -1,166.23              | -61.56          | 4,895.96                                 | 4,785.85                      | 110.11                          | 44.464               |                              |
| 8,900.00                                                                            | 4,611.36                    | 4,633.72                    | 4,633.36                    | 55.04               | 88.49            | 93.97                       | -1,166.23              | -61.56          | 4,992.06                                 | 4,881.85                      | 110.21                          | 45.295               |                              |

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



## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design: SMITHDALE 29 FEDERAL - OFFSET: ANTHONY STATE 3 - Wellbore #1 - Wellbore #1 |                       |                       |                       |                                  |                               |                       |                                     |                                     |                                 |                                  |                           |                   | Offset Site Error: |
|-------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|----------------------------------|-------------------------------|-----------------------|-------------------------------------|-------------------------------------|---------------------------------|----------------------------------|---------------------------|-------------------|--------------------|
| Survey Program: 474-MWD                                                                   |                       |                       |                       |                                  |                               |                       |                                     |                                     |                                 |                                  |                           |                   | 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            |
| 5,000.00                                                                                  | 4,533.88              | 4,586.88              | 4,547.12              | 18.51                            | 16.35                         | 90.69                 | -1,236.88                           | 392.21                              | 1,510.38                        | 1,476.77                         | 33.61                     | 44.941            |                    |
| 5,100.00                                                                                  | 4,536.45              | 4,588.98              | 4,549.21              | 19.06                            | 16.35                         | 89.93                 | -1,236.90                           | 392.20                              | 1,543.16                        | 1,509.17                         | 33.99                     | 45.397            |                    |
| 5,200.00                                                                                  | 4,538.42              | 4,590.46              | 4,550.70              | 19.66                            | 16.35                         | 89.99                 | -1,236.91                           | 392.19                              | 1,581.61                        | 1,547.23                         | 34.38                     | 46.008            |                    |
| 5,300.00                                                                                  | 4,540.40              | 4,591.95              | 4,552.18              | 20.30                            | 16.35                         | 90.05                 | -1,236.92                           | 392.18                              | 1,625.30                        | 1,590.55                         | 34.75                     | 46.770            |                    |
| 5,400.00                                                                                  | 4,542.37              | 4,593.44              | 4,553.67              | 20.99                            | 16.35                         | 90.11                 | -1,236.93                           | 392.17                              | 1,673.83                        | 1,638.73                         | 35.11                     | 47.677            |                    |
| 5,500.00                                                                                  | 4,544.34              | 4,594.93              | 4,555.17              | 21.71                            | 16.35                         | 90.17                 | -1,236.94                           | 392.17                              | 1,726.80                        | 1,691.35                         | 35.44                     | 48.718            |                    |
| 5,600.00                                                                                  | 4,546.31              | 4,596.43              | 4,556.66              | 22.46                            | 16.35                         | 90.23                 | -1,236.95                           | 392.16                              | 1,783.80                        | 1,748.04                         | 35.76                     | 49.885            |                    |
| 5,700.00                                                                                  | 4,548.28              | 4,597.93              | 4,558.17              | 23.25                            | 16.35                         | 90.28                 | -1,236.96                           | 392.15                              | 1,844.46                        | 1,808.41                         | 36.05                     | 51.166            |                    |
| 5,800.00                                                                                  | 4,550.25              | 4,599.44              | 4,559.67              | 24.06                            | 16.35                         | 90.34                 | -1,236.97                           | 392.14                              | 1,908.44                        | 1,872.12                         | 36.32                     | 52.552            |                    |
| 5,900.00                                                                                  | 4,552.22              | 4,600.95              | 4,561.18              | 24.90                            | 16.35                         | 90.40                 | -1,236.98                           | 392.14                              | 1,975.41                        | 1,938.85                         | 36.56                     | 54.034            |                    |
| 6,000.00                                                                                  | 4,554.19              | 4,602.46              | 4,562.69              | 25.76                            | 16.35                         | 90.46                 | -1,236.99                           | 392.13                              | 2,045.07                        | 2,008.29                         | 36.78                     | 55.602            |                    |
| 6,100.00                                                                                  | 4,556.17              | 4,603.98              | 4,564.21              | 26.64                            | 16.35                         | 90.52                 | -1,237.00                           | 392.12                              | 2,117.17                        | 2,080.19                         | 36.98                     | 57.247            |                    |
| 6,200.00                                                                                  | 4,558.14              | 4,605.50              | 4,565.73              | 27.53                            | 16.35                         | 90.59                 | -1,237.01                           | 392.11                              | 2,191.46                        | 2,154.29                         | 37.17                     | 58.962            |                    |
| 6,300.00                                                                                  | 4,560.11              | 4,607.02              | 4,567.26              | 28.45                            | 16.35                         | 90.65                 | -1,237.02                           | 392.11                              | 2,267.72                        | 2,230.39                         | 37.33                     | 60.740            |                    |
| 6,400.00                                                                                  | 4,562.08              | 4,608.55              | 4,568.78              | 29.38                            | 16.35                         | 90.71                 | -1,237.03                           | 392.10                              | 2,345.77                        | 2,308.28                         | 37.49                     | 62.575            |                    |
| 6,500.00                                                                                  | 4,564.05              | 4,610.08              | 4,570.32              | 30.32                            | 16.35                         | 90.77                 | -1,237.04                           | 392.09                              | 2,425.43                        | 2,387.80                         | 37.63                     | 64.460            |                    |
| 6,600.00                                                                                  | 4,566.02              | 4,611.62              | 4,571.85              | 31.27                            | 16.35                         | 90.83                 | -1,237.05                           | 392.08                              | 2,506.55                        | 2,468.79                         | 37.75                     | 66.390            |                    |
| 6,700.00                                                                                  | 4,567.99              | 4,613.16              | 4,573.40              | 32.24                            | 16.35                         | 90.89                 | -1,237.06                           | 392.07                              | 2,588.98                        | 2,551.11                         | 37.87                     | 68.362            |                    |
| 6,800.00                                                                                  | 4,569.96              | 4,614.71              | 4,574.94              | 33.21                            | 16.35                         | 90.95                 | -1,237.07                           | 392.07                              | 2,672.62                        | 2,634.64                         | 37.98                     | 70.369            |                    |
| 6,900.00                                                                                  | 4,571.94              | 4,616.26              | 4,576.49              | 34.20                            | 16.35                         | 91.01                 | -1,237.08                           | 392.06                              | 2,757.34                        | 2,719.26                         | 38.08                     | 72.410            |                    |
| 7,000.00                                                                                  | 4,573.91              | 4,617.81              | 4,578.04              | 35.19                            | 16.35                         | 91.07                 | -1,237.09                           | 392.05                              | 2,843.06                        | 2,804.89                         | 38.17                     | 74.479            |                    |
| 7,100.00                                                                                  | 4,575.88              | 4,619.37              | 4,579.60              | 36.19                            | 16.35                         | 91.14                 | -1,237.10                           | 392.04                              | 2,929.68                        | 2,891.42                         | 38.26                     | 76.575            |                    |
| 7,200.00                                                                                  | 4,577.85              | 4,620.93              | 4,581.16              | 37.20                            | 16.35                         | 91.20                 | -1,237.11                           | 392.04                              | 3,017.13                        | 2,978.79                         | 38.34                     | 78.695            |                    |
| 7,300.00                                                                                  | 4,579.82              | 4,622.50              | 4,582.73              | 38.21                            | 16.35                         | 91.26                 | -1,237.12                           | 392.03                              | 3,105.33                        | 3,066.92                         | 38.42                     | 80.835            |                    |
| 7,400.00                                                                                  | 4,581.79              | 4,624.07              | 4,584.30              | 39.23                            | 16.35                         | 91.32                 | -1,237.13                           | 392.02                              | 3,194.23                        | 3,155.75                         | 38.49                     | 82.995            |                    |
| 7,500.00                                                                                  | 4,583.76              | 4,625.64              | 4,585.87              | 40.26                            | 16.35                         | 91.39                 | -1,237.14                           | 392.01                              | 3,283.77                        | 3,245.21                         | 38.56                     | 85.171            |                    |
| 7,600.00                                                                                  | 4,585.73              | 4,627.22              | 4,587.45              | 41.29                            | 16.35                         | 91.45                 | -1,237.15                           | 392.01                              | 3,373.89                        | 3,335.27                         | 38.62                     | 87.361            |                    |
| 7,700.00                                                                                  | 4,587.70              | 4,628.80              | 4,589.03              | 42.33                            | 16.35                         | 91.51                 | -1,237.16                           | 392.00                              | 3,464.56                        | 3,425.88                         | 38.68                     | 89.565            |                    |
| 7,800.00                                                                                  | 4,589.68              | 4,630.39              | 4,590.62              | 43.37                            | 16.35                         | 91.57                 | -1,237.17                           | 391.99                              | 3,555.73                        | 3,516.98                         | 38.74                     | 91.781            |                    |
| 7,900.00                                                                                  | 4,591.65              | 4,631.98              | 4,592.21              | 44.41                            | 16.35                         | 91.64                 | -1,237.18                           | 391.98                              | 3,647.35                        | 3,608.55                         | 38.80                     | 94.007            |                    |
| 8,000.00                                                                                  | 4,593.62              | 4,633.57              | 4,593.80              | 45.46                            | 16.35                         | 91.70                 | -1,237.19                           | 391.98                              | 3,739.41                        | 3,700.56                         | 38.85                     | 96.242            |                    |
| 8,100.00                                                                                  | 4,595.59              | 4,635.17              | 4,595.40              | 46.52                            | 16.35                         | 91.76                 | -1,237.20                           | 391.97                              | 3,831.86                        | 3,792.96                         | 38.91                     | 98.485            |                    |
| 8,200.00                                                                                  | 4,597.56              | 4,636.78              | 4,597.01              | 47.57                            | 16.35                         | 91.83                 | -1,237.21                           | 391.96                              | 3,924.69                        | 3,885.73                         | 38.96                     | 100.734           |                    |
| 8,300.00                                                                                  | 4,599.53              | 4,638.38              | 4,598.62              | 48.63                            | 16.35                         | 91.89                 | -1,237.22                           | 391.96                              | 4,017.85                        | 3,978.84                         | 39.01                     | 102.990           |                    |
| 8,400.00                                                                                  | 4,601.50              | 4,640.00              | 4,600.23              | 49.69                            | 16.35                         | 91.96                 | -1,237.23                           | 391.95                              | 4,111.34                        | 4,072.28                         | 39.06                     | 105.250           |                    |
| 8,500.00                                                                                  | 4,603.47              | 4,641.61              | 4,601.84              | 50.76                            | 16.35                         | 92.02                 | -1,237.24                           | 391.94                              | 4,205.13                        | 4,166.02                         | 39.11                     | 107.514           |                    |
| 8,600.00                                                                                  | 4,605.45              | 4,643.23              | 4,603.47              | 51.83                            | 16.35                         | 92.08                 | -1,237.25                           | 391.93                              | 4,299.19                        | 4,260.03                         | 39.16                     | 109.781           |                    |
| 8,700.00                                                                                  | 4,607.42              | 4,644.86              | 4,605.09              | 52.90                            | 16.35                         | 92.15                 | -1,237.26                           | 391.93                              | 4,393.52                        | 4,354.31                         | 39.21                     | 112.051           |                    |
| 8,800.00                                                                                  | 4,609.39              | 4,646.49              | 4,606.72              | 53.97                            | 16.35                         | 92.21                 | -1,237.27                           | 391.92                              | 4,488.10                        | 4,448.84                         | 39.26                     | 114.323           |                    |
| 8,900.00                                                                                  | 4,611.36              | 4,648.12              | 4,608.36              | 55.04                            | 16.35                         | 92.28                 | -1,237.28                           | 391.91                              | 4,582.90                        | 4,543.59                         | 39.31                     | 116.596           |                    |
| 9,000.00                                                                                  | 4,613.33              | 4,649.76              | 4,609.99              | 56.12                            | 16.35                         | 92.34                 | -1,237.29                           | 391.90                              | 4,677.92                        | 4,638.56                         | 39.35                     | 118.869           |                    |
| 9,100.00                                                                                  | 4,615.30              | 4,651.40              | 4,611.64              | 57.20                            | 16.35                         | 92.41                 | -1,237.30                           | 391.90                              | 4,773.14                        | 4,733.74                         | 39.40                     | 121.143           |                    |
| 9,200.00                                                                                  | 4,617.27              | 4,653.05              | 4,613.28              | 58.28                            | 16.35                         | 92.47                 | -1,237.31                           | 391.89                              | 4,868.55                        | 4,829.10                         | 39.45                     | 123.416           |                    |
| 9,300.00                                                                                  | 4,619.24              | 4,654.70              | 4,614.94              | 59.36                            | 16.35                         | 92.54                 | -1,237.32                           | 391.88                              | 4,964.14                        | 4,924.65                         | 39.50                     | 125.688           |                    |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | 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                | Semi Major Axis  |               | Highside     |         | Offset Wellbore Centre |              | Rule Assigned:         |                         | Minimum           | Separation | Warning            |
| Measured Depth (usft)                                                                                   | Vertical Depth (usft) | Measured 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                  | 23.00                 | 23.00            | 0.00          | 0.23         | -174.71 | -1,056.44              | -97.86       | 1,060.96               |                         |                   |            |                    |
| 100.00                                                                                                  | 100.00                | 123.00                | 123.00           | 0.29          | 1.15         | -174.71 | -1,056.44              | -97.86       | 1,060.96               | 1,059.52                | 1.44              | 737.888    |                    |
| 200.00                                                                                                  | 200.00                | 223.00                | 223.00           | 0.65          | 1.68         | -174.71 | -1,056.44              | -97.86       | 1,060.96               | 1,058.64                | 2.33              | 455.804    |                    |
| 300.00                                                                                                  | 300.00                | 323.00                | 323.00           | 1.00          | 2.08         | -174.71 | -1,056.44              | -97.86       | 1,060.96               | 1,057.88                | 3.09              | 343.888    |                    |
| 400.00                                                                                                  | 399.98                | 422.98                | 422.98           | 1.36          | 2.42         | -148.98 | -1,056.44              | -97.86       | 1,062.46               | 1,058.68                | 3.78              | 281.112    |                    |
| 500.00                                                                                                  | 499.85                | 547.70                | 547.70           | 1.73          | 2.77         | -149.12 | -1,055.87              | -98.02       | 1,066.54               | 1,062.06                | 4.48              | 237.998    |                    |
| 600.00                                                                                                  | 599.67                | 756.26                | 755.49           | 2.08          | 3.91         | -149.14 | -1,039.94              | -102.59      | 1,064.19               | 1,058.30                | 5.89              | 180.683    |                    |
| 700.00                                                                                                  | 699.50                | 961.43                | 956.95           | 2.44          | 5.12         | -148.72 | -1,003.12              | -113.15      | 1,051.76               | 1,044.40                | 7.36              | 142.879    |                    |
| 800.00                                                                                                  | 799.32                | 1,158.75              | 1,145.77         | 2.80          | 6.08         | -147.85 | -948.31                | -128.86      | 1,029.71               | 1,021.14                | 8.57              | 120.098    |                    |
| 900.00                                                                                                  | 899.15                | 1,270.66              | 1,250.52         | 3.15          | 6.53         | -147.15 | -910.45                | -139.71      | 1,001.73               | 992.35                  | 9.37              | 106.877    |                    |
| 1,000.00                                                                                                | 998.97                | 1,366.07              | 1,339.74         | 3.51          | 6.90         | -146.52 | -877.96                | -149.03      | 973.72                 | 963.60                  | 10.12             | 96.197     |                    |
| 1,100.00                                                                                                | 1,098.80              | 1,461.49              | 1,428.97         | 3.87          | 7.27         | -145.85 | -845.46                | -158.35      | 945.83                 | 934.97                  | 10.87             | 87.042     |                    |
| 1,200.00                                                                                                | 1,198.62              | 1,556.90              | 1,518.19         | 4.23          | 7.65         | -145.13 | -812.97                | -167.66      | 918.07                 | 906.46                  | 11.61             | 79.060     |                    |
| 1,300.00                                                                                                | 1,298.45              | 1,652.32              | 1,607.42         | 4.59          | 8.03         | -144.38 | -780.47                | -176.98      | 890.45                 | 878.08                  | 12.38             | 71.952     |                    |
| 1,400.00                                                                                                | 1,398.27              | 1,740.53              | 1,689.94         | 4.95          | 8.41         | -143.64 | -750.50                | -185.57      | 863.09                 | 849.95                  | 13.14             | 65.682     |                    |
| 1,500.00                                                                                                | 1,498.10              | 1,809.21              | 1,754.80         | 5.31          | 8.74         | -143.09 | -728.81                | -191.79      | 838.13                 | 824.26                  | 13.88             | 60.394     |                    |
| 1,600.00                                                                                                | 1,597.92              | 1,879.29              | 1,821.78         | 5.67          | 9.04         | -142.59 | -708.99                | -197.47      | 816.45                 | 801.87                  | 14.57             | 56.020     |                    |
| 1,700.00                                                                                                | 1,697.75              | 1,950.50              | 1,890.56         | 6.03          | 9.48         | -142.15 | -691.29                | -202.55      | 798.08                 | 782.68                  | 15.40             | 51.817     |                    |
| 1,800.00                                                                                                | 1,797.57              | 2,022.73              | 1,960.98         | 6.39          | 9.98         | -141.78 | -675.88                | -206.97      | 783.05                 | 766.80                  | 16.25             | 48.185     |                    |
| 1,900.00                                                                                                | 1,897.40              | 2,100.00              | 2,036.93         | 6.74          | 10.39        | -141.48 | -662.23                | -210.88      | 771.40                 | 754.41                  | 16.99             | 45.404     |                    |
| 2,000.00                                                                                                | 1,997.22              | 2,169.45              | 2,105.63         | 7.10          | 10.74        | -141.31 | -652.49                | -213.67      | 763.09                 | 745.44                  | 17.65             | 43.243     |                    |
| 2,100.00                                                                                                | 2,097.05              | 2,243.52              | 2,179.26         | 7.46          | 11.10        | -141.22 | -644.75                | -215.89      | 758.18                 | 739.89                  | 18.29             | 41.451     |                    |
| 2,194.41                                                                                                | 2,191.30              | 2,313.61              | 2,249.17         | 7.80          | 11.41        | -141.23 | -639.97                | -217.26      | 756.67                 | 737.81                  | 18.86             | 40.114 CC  |                    |
| 2,200.00                                                                                                | 2,196.87              | 2,317.76              | 2,253.32         | 7.82          | 11.43        | -141.24 | -639.76                | -217.32      | 756.67                 | 737.78                  | 18.89             | 40.048 ES  |                    |
| 2,300.00                                                                                                | 2,296.70              | 2,400.00              | 2,335.51         | 8.18          | 11.75        | -141.38 | -637.47                | -217.98      | 758.62                 | 739.13                  | 19.49             | 38.923     |                    |
| 2,400.00                                                                                                | 2,396.52              | 2,484.01              | 2,419.52         | 8.54          | 11.82        | -141.61 | -637.42                | -217.99      | 763.04                 | 743.16                  | 19.88             | 38.381     |                    |
| 2,500.00                                                                                                | 2,496.35              | 2,583.84              | 2,519.35         | 8.90          | 11.90        | -141.88 | -637.42                | -217.99      | 767.68                 | 747.36                  | 20.33             | 37.766     |                    |
| 2,600.00                                                                                                | 2,596.18              | 2,683.66              | 2,619.18         | 9.26          | 11.97        | -142.15 | -637.42                | -217.99      | 772.35                 | 751.57                  | 20.77             | 37.181     |                    |
| 2,700.00                                                                                                | 2,696.00              | 2,783.49              | 2,719.00         | 9.62          | 12.05        | -142.42 | -637.42                | -217.99      | 777.03                 | 755.81                  | 21.22             | 36.621     |                    |
| 2,800.00                                                                                                | 2,795.83              | 2,883.31              | 2,818.83         | 9.98          | 12.12        | -142.69 | -637.42                | -217.99      | 781.72                 | 760.06                  | 21.66             | 36.086     |                    |
| 2,900.00                                                                                                | 2,895.65              | 2,983.14              | 2,918.65         | 10.34         | 12.20        | -142.95 | -637.42                | -217.99      | 786.44                 | 764.33                  | 22.11             | 35.573     |                    |
| 3,000.00                                                                                                | 2,995.48              | 3,082.96              | 3,018.48         | 10.70         | 12.27        | -143.20 | -637.42                | -217.99      | 791.17                 | 768.61                  | 22.55             | 35.082     |                    |
| 3,100.00                                                                                                | 3,095.30              | 3,182.79              | 3,118.30         | 11.06         | 12.35        | -143.46 | -637.42                | -217.99      | 795.91                 | 772.91                  | 23.00             | 34.610     |                    |
| 3,200.00                                                                                                | 3,195.13              | 3,282.61              | 3,218.13         | 11.42         | 12.42        | -143.71 | -637.42                | -217.99      | 800.67                 | 777.23                  | 23.44             | 34.157     |                    |
| 3,300.00                                                                                                | 3,294.95              | 3,382.44              | 3,317.95         | 11.78         | 12.50        | -143.96 | -637.42                | -217.99      | 805.45                 | 781.56                  | 23.88             | 33.722     |                    |
| 3,400.00                                                                                                | 3,394.78              | 3,482.26              | 3,417.78         | 12.14         | 12.57        | -144.21 | -637.42                | -217.99      | 810.24                 | 785.91                  | 24.33             | 33.304     |                    |
| 3,500.00                                                                                                | 3,494.60              | 3,582.09              | 3,517.60         | 12.49         | 12.65        | -144.45 | -637.42                | -217.99      | 815.04                 | 790.27                  | 24.77             | 32.901     |                    |
| 3,600.00                                                                                                | 3,594.41              | 3,681.90              | 3,617.41         | 12.85         | 12.72        | -138.17 | -637.42                | -217.99      | 820.47                 | 795.27                  | 25.20             | 32.555     |                    |
| 3,700.00                                                                                                | 3,693.54              | 3,781.03              | 3,716.54         | 13.19         | 12.80        | -116.55 | -637.42                | -217.99      | 827.54                 | 801.94                  | 25.60             | 32.327     |                    |
| 3,800.00                                                                                                | 3,790.92              | 3,878.40              | 3,813.92         | 13.52         | 12.87        | -111.03 | -637.42                | -217.99      | 836.59                 | 810.63                  | 25.97             | 32.218 SF  |                    |
| 3,900.00                                                                                                | 3,885.46              | 3,972.95              | 3,908.46         | 13.84         | 12.94        | -109.39 | -637.42                | -217.99      | 848.25                 | 821.94                  | 26.31             | 32.245     |                    |
| 4,000.00                                                                                                | 3,976.15              | 4,063.63              | 3,999.15         | 14.17         | 13.01        | -109.28 | -637.42                | -217.99      | 863.37                 | 836.75                  | 26.61             | 32.439     |                    |
| 4,100.00                                                                                                | 4,061.97              | 4,149.46              | 4,084.97         | 14.50         | 13.08        | -109.83 | -637.42                | -217.99      | 882.96                 | 856.06                  | 26.89             | 32.832     |                    |
| 4,200.00                                                                                                | 4,142.00              | 4,229.49              | 4,165.00         | 14.84         | 13.14        | -110.59 | -637.42                | -217.99      | 908.02                 | 880.88                  | 27.14             | 33.453     |                    |
| 4,300.00                                                                                                | 4,215.36              | 4,302.85              | 4,238.36         | 15.20         | 13.19        | -111.22 | -637.42                | -217.99      | 939.45                 | 912.09                  | 27.37             | 34.330     |                    |
| 4,400.00                                                                                                | 4,281.24              | 4,368.73              | 4,304.24         | 15.57         | 13.24        | -111.45 | -637.42                | -217.99      | 977.90                 | 950.34                  | 27.56             | 35.481     |                    |
| 4,500.00                                                                                                | 4,338.92              | 4,426.41              | 4,361.92         | 15.98         | 13.29        | -111.05 | -637.42                | -217.99      | 1,023.68               | 995.95                  | 27.73             | 36.913     |                    |
| 4,600.00                                                                                                | 4,389.56              | 4,477.04              | 4,412.56         | 16.42         | 13.32        | -112.30 | -637.42                | -217.99      | 1,076.23               | 1,048.35                | 27.88             | 38.598     |                    |
| 4,700.00                                                                                                | 4,439.56              | 4,527.04              | 4,462.56         | 16.90         | 13.36        | -114.81 | -637.42                | -217.99      | 1,133.14               | 1,105.10                | 28.04             | 40.409     |                    |
| 4,800.00                                                                                                | 4,486.55              | 4,574.04              | 4,509.55         | 17.42         | 13.40        | -112.55 | -637.42                | -217.99      | 1,194.77               | 1,166.57                | 28.20             | 42.370     |                    |
| 4,900.00                                                                                                | 4,518.67              | 4,606.16              | 4,541.67         | 17.96         | 13.42        | -105.22 | -637.42                | -217.99      | 1,264.35               | 1,236.04                | 28.31             | 44.665     |                    |
| 5,000.00                                                                                                | 4,533.88              | 4,621.37              | 4,556.88         | 18.51         | 13.43        | -94.73  | -637.42                | -217.99      | 1,340.24               | 1,311.89                | 28.36             | 47.264     |                    |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | 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 |         | Distance Between Centres (usft) |          | Minimum Separation (usft) | Separation Factor | Warning            |
| +N/-S (usft)                                                                                            | +E/-W (usft)          |                              |                       |                                  |               |                       |                        |         |                                 |          |                           |                   |                    |
| 5,100.00                                                                                                | 4,536.45              | 4,623.94                     | 4,559.45              | 19.06                            | 13.44         | 91.56                 | -637.42                | -217.99 | 1,419.96                        | 1,391.60 | 28.37                     | 50.056            |                    |
| 5,200.00                                                                                                | 4,538.42              | 4,625.91                     | 4,561.42              | 19.66                            | 13.44         | 91.70                 | -637.42                | -217.99 | 1,502.12                        | 1,473.74 | 28.39                     | 52.916            |                    |
| 5,300.00                                                                                                | 4,540.40              | 4,627.88                     | 4,563.40              | 20.30                            | 13.44         | 91.83                 | -637.42                | -217.99 | 1,586.33                        | 1,557.92 | 28.41                     | 55.831            |                    |
| 5,400.00                                                                                                | 4,542.37              | 4,629.85                     | 4,565.37              | 20.99                            | 13.44         | 91.97                 | -637.42                | -217.99 | 1,672.28                        | 1,643.83 | 28.44                     | 58.790            |                    |
| 5,500.00                                                                                                | 4,544.34              | 4,631.83                     | 4,567.34              | 21.71                            | 13.44         | 92.10                 | -637.42                | -217.99 | 1,759.71                        | 1,731.23 | 28.48                     | 61.786            |                    |
| 5,600.00                                                                                                | 4,546.31              | 4,633.80                     | 4,569.31              | 22.46                            | 13.44         | 92.24                 | -637.42                | -217.99 | 1,848.41                        | 1,819.89 | 28.52                     | 64.814            |                    |
| 5,700.00                                                                                                | 4,548.28              | 4,635.77                     | 4,571.28              | 23.25                            | 13.45         | 92.37                 | -637.42                | -217.99 | 1,938.21                        | 1,909.65 | 28.56                     | 67.866            |                    |
| 5,800.00                                                                                                | 4,550.25              | 4,637.74                     | 4,573.25              | 24.06                            | 13.45         | 92.51                 | -637.42                | -217.99 | 2,028.97                        | 2,000.36 | 28.60                     | 70.940            |                    |
| 5,900.00                                                                                                | 4,552.22              | 4,639.71                     | 4,575.22              | 24.90                            | 13.45         | 92.65                 | -637.42                | -217.99 | 2,120.55                        | 2,091.90 | 28.64                     | 74.032            |                    |
| 6,000.00                                                                                                | 4,554.19              | 4,641.68                     | 4,577.19              | 25.76                            | 13.45         | 92.78                 | -637.42                | -217.99 | 2,212.86                        | 2,184.17 | 28.69                     | 77.137            |                    |
| 6,100.00                                                                                                | 4,556.17              | 4,643.65                     | 4,579.17              | 26.64                            | 13.45         | 92.92                 | -637.42                | -217.99 | 2,305.81                        | 2,277.08 | 28.73                     | 80.254            |                    |
| 6,200.00                                                                                                | 4,558.14              | 4,645.62                     | 4,581.14              | 27.53                            | 13.45         | 93.05                 | -637.42                | -217.99 | 2,399.32                        | 2,370.55 | 28.78                     | 83.380            |                    |
| 6,300.00                                                                                                | 4,560.11              | 4,647.60                     | 4,583.11              | 28.45                            | 13.45         | 93.19                 | -637.42                | -217.99 | 2,493.34                        | 2,464.52 | 28.82                     | 86.512            |                    |
| 6,400.00                                                                                                | 4,562.08              | 4,649.57                     | 4,585.08              | 29.38                            | 13.46         | 93.32                 | -637.42                | -217.99 | 2,587.81                        | 2,558.94 | 28.87                     | 89.649            |                    |
| 6,500.00                                                                                                | 4,564.05              | 4,651.54                     | 4,587.05              | 30.32                            | 13.46         | 93.46                 | -637.42                | -217.99 | 2,682.67                        | 2,653.76 | 28.91                     | 92.790            |                    |
| 6,600.00                                                                                                | 4,566.02              | 4,653.51                     | 4,589.02              | 31.27                            | 13.46         | 93.59                 | -637.42                | -217.99 | 2,777.89                        | 2,748.94 | 28.96                     | 95.932            |                    |
| 6,700.00                                                                                                | 4,567.99              | 4,655.48                     | 4,590.99              | 32.24                            | 13.46         | 93.73                 | -637.42                | -217.99 | 2,873.44                        | 2,844.44 | 29.00                     | 99.075            |                    |
| 6,800.00                                                                                                | 4,569.96              | 4,657.45                     | 4,592.96              | 33.21                            | 13.46         | 93.86                 | -637.42                | -217.99 | 2,969.28                        | 2,940.23 | 29.05                     | 102.217           |                    |
| 6,900.00                                                                                                | 4,571.94              | 4,659.42                     | 4,594.94              | 34.20                            | 13.46         | 94.00                 | -637.42                | -217.99 | 3,065.38                        | 3,036.29 | 29.10                     | 105.357           |                    |
| 7,000.00                                                                                                | 4,573.91              | 4,661.39                     | 4,596.91              | 35.19                            | 13.47         | 94.13                 | -637.42                | -217.99 | 3,161.72                        | 3,132.58 | 29.14                     | 108.494           |                    |
| 7,100.00                                                                                                | 4,575.88              | 4,663.37                     | 4,598.88              | 36.19                            | 13.47         | 94.27                 | -637.42                | -217.99 | 3,258.29                        | 3,229.10 | 29.19                     | 111.628           |                    |
| 7,200.00                                                                                                | 4,577.85              | 4,665.34                     | 4,600.85              | 37.20                            | 13.47         | 94.40                 | -637.42                | -217.99 | 3,355.05                        | 3,325.81 | 29.24                     | 114.757           |                    |
| 7,300.00                                                                                                | 4,579.82              | 4,667.31                     | 4,602.82              | 38.21                            | 13.47         | 94.54                 | -637.42                | -217.99 | 3,452.00                        | 3,422.71 | 29.28                     | 117.881           |                    |
| 7,400.00                                                                                                | 4,581.79              | 4,669.28                     | 4,604.79              | 39.23                            | 13.47         | 94.67                 | -637.42                | -217.99 | 3,549.11                        | 3,519.78 | 29.33                     | 120.999           |                    |
| 7,500.00                                                                                                | 4,583.76              | 4,671.25                     | 4,606.76              | 40.26                            | 13.47         | 94.81                 | -637.42                | -217.99 | 3,646.38                        | 3,617.00 | 29.38                     | 124.111           |                    |
| 7,600.00                                                                                                | 4,585.73              | 4,673.22                     | 4,608.73              | 41.29                            | 13.47         | 94.94                 | -637.42                | -217.99 | 3,743.79                        | 3,714.36 | 29.43                     | 127.215           |                    |
| 7,700.00                                                                                                | 4,587.70              | 4,675.19                     | 4,610.70              | 42.33                            | 13.48         | 95.08                 | -637.42                | -217.99 | 3,841.34                        | 3,811.86 | 29.48                     | 130.312           |                    |
| 7,800.00                                                                                                | 4,589.68              | 4,677.16                     | 4,612.68              | 43.37                            | 13.48         | 95.21                 | -637.42                | -217.99 | 3,939.00                        | 3,909.48 | 29.53                     | 133.401           |                    |
| 7,900.00                                                                                                | 4,591.65              | 4,679.13                     | 4,614.65              | 44.41                            | 13.48         | 95.35                 | -637.42                | -217.99 | 4,036.78                        | 4,007.21 | 29.58                     | 136.480           |                    |
| 8,000.00                                                                                                | 4,593.62              | 4,681.11                     | 4,616.62              | 45.46                            | 13.48         | 95.48                 | -637.42                | -217.99 | 4,134.67                        | 4,105.04 | 29.63                     | 139.551           |                    |
| 8,100.00                                                                                                | 4,595.59              | 4,683.08                     | 4,618.59              | 46.52                            | 13.48         | 95.62                 | -637.42                | -217.99 | 4,232.65                        | 4,202.97 | 29.68                     | 142.612           |                    |
| 8,200.00                                                                                                | 4,597.56              | 4,685.05                     | 4,620.56              | 47.57                            | 13.48         | 95.75                 | -637.42                | -217.99 | 4,330.73                        | 4,300.99 | 29.73                     | 145.663           |                    |
| 8,300.00                                                                                                | 4,599.53              | 4,687.02                     | 4,622.53              | 48.63                            | 13.48         | 95.88                 | -637.42                | -217.99 | 4,428.89                        | 4,399.10 | 29.78                     | 148.704           |                    |
| 8,400.00                                                                                                | 4,601.50              | 4,688.99                     | 4,624.50              | 49.69                            | 13.49         | 96.02                 | -637.42                | -217.99 | 4,527.12                        | 4,497.29 | 29.84                     | 151.734           |                    |
| 8,500.00                                                                                                | 4,603.47              | 4,690.96                     | 4,626.47              | 50.76                            | 13.49         | 96.15                 | -637.42                | -217.99 | 4,625.44                        | 4,595.55 | 29.89                     | 154.753           |                    |
| 8,600.00                                                                                                | 4,605.45              | 4,692.93                     | 4,628.45              | 51.83                            | 13.49         | 96.29                 | -637.42                | -217.99 | 4,723.82                        | 4,693.88 | 29.94                     | 157.761           |                    |
| 8,700.00                                                                                                | 4,607.42              | 4,694.90                     | 4,630.42              | 52.90                            | 13.49         | 96.42                 | -637.42                | -217.99 | 4,822.27                        | 4,792.27 | 30.00                     | 160.757           |                    |
| 8,800.00                                                                                                | 4,609.39              | 4,696.88                     | 4,632.39              | 53.97                            | 13.49         | 96.55                 | -637.42                | -217.99 | 4,920.78                        | 4,890.73 | 30.05                     | 163.741           |                    |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | 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                |                       | 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            |           |
| 5,000.00                                                                                | 4,533.88              | 4,607.15              | 4,605.88              | 18.51            | 106.49        | 77.02                 | -1,068.22              | 5,620.29     | 4,969.28                | 4,846.84                | 122.44                    | 40.585            |                    |           |
| 5,100.00                                                                                | 4,536.45              | 4,609.72              | 4,608.45              | 19.06            | 106.54        | 86.12                 | -1,068.22              | 5,620.29     | 4,873.22                | 4,750.63                | 122.58                    | 39.755            |                    |           |
| 5,200.00                                                                                | 4,538.42              | 4,611.69              | 4,610.42              | 19.66            | 106.58        | 86.20                 | -1,068.22              | 5,620.29     | 4,777.29                | 4,654.57                | 122.72                    | 38.929            |                    |           |
| 5,300.00                                                                                | 4,540.40              | 4,613.66              | 4,612.40              | 20.30            | 106.62        | 86.28                 | -1,068.22              | 5,620.29     | 4,681.53                | 4,558.66                | 122.87                    | 38.102            |                    |           |
| 5,400.00                                                                                | 4,542.37              | 4,615.64              | 4,614.37              | 20.99            | 106.66        | 86.37                 | -1,068.22              | 5,620.29     | 4,585.95                | 4,462.92                | 123.03                    | 37.275            |                    |           |
| 5,500.00                                                                                | 4,544.34              | 4,617.61              | 4,616.34              | 21.71            | 106.70        | 86.45                 | -1,068.22              | 5,620.29     | 4,490.56                | 4,367.35                | 123.21                    | 36.446            |                    |           |
| 5,600.00                                                                                | 4,546.31              | 4,619.58              | 4,618.31              | 22.46            | 106.74        | 86.53                 | -1,068.22              | 5,620.29     | 4,395.38                | 4,271.97                | 123.41                    | 35.617            |                    |           |
| 5,700.00                                                                                | 4,548.28              | 4,621.55              | 4,620.28              | 23.25            | 106.78        | 86.62                 | -1,068.22              | 5,620.29     | 4,300.41                | 4,176.80                | 123.62                    | 34.788            |                    |           |
| 5,800.00                                                                                | 4,550.25              | 4,623.52              | 4,622.25              | 24.06            | 106.82        | 86.70                 | -1,068.22              | 5,620.29     | 4,205.68                | 4,081.83                | 123.85                    | 33.957            |                    |           |
| 5,900.00                                                                                | 4,552.22              | 4,625.49              | 4,624.22              | 24.90            | 106.86        | 86.78                 | -1,068.22              | 5,620.29     | 4,111.20                | 3,987.09                | 124.10                    | 33.127            |                    |           |
| 6,000.00                                                                                | 4,554.19              | 4,627.46              | 4,626.19              | 25.76            | 106.90        | 86.86                 | -1,068.22              | 5,620.29     | 4,016.98                | 3,892.60                | 124.38                    | 32.296            |                    |           |
| 6,100.00                                                                                | 4,556.17              | 4,629.43              | 4,628.17              | 26.64            | 106.94        | 86.95                 | -1,068.22              | 5,620.29     | 3,923.05                | 3,798.37                | 124.68                    | 31.465            |                    |           |
| 6,200.00                                                                                | 4,558.14              | 4,631.41              | 4,630.14              | 27.53            | 106.98        | 87.03                 | -1,068.22              | 5,620.29     | 3,829.42                | 3,704.42                | 125.01                    | 30.634            |                    |           |
| 6,300.00                                                                                | 4,560.11              | 4,633.38              | 4,632.11              | 28.45            | 107.02        | 87.11                 | -1,068.22              | 5,620.29     | 3,736.12                | 3,610.76                | 125.36                    | 29.803            |                    |           |
| 6,400.00                                                                                | 4,562.08              | 4,635.35              | 4,634.08              | 29.38            | 107.05        | 87.19                 | -1,068.22              | 5,620.29     | 3,643.18                | 3,517.44                | 125.74                    | 28.973            |                    |           |
| 6,500.00                                                                                | 4,564.05              | 4,637.32              | 4,636.05              | 30.32            | 107.09        | 87.28                 | -1,068.22              | 5,620.29     | 3,550.62                | 3,424.46                | 126.16                    | 28.143            |                    |           |
| 6,600.00                                                                                | 4,566.02              | 4,639.29              | 4,638.02              | 31.27            | 107.13        | 87.36                 | -1,068.22              | 5,620.29     | 3,458.47                | 3,331.86                | 126.62                    | 27.315            |                    |           |
| 6,700.00                                                                                | 4,567.99              | 4,641.26              | 4,639.99              | 32.24            | 107.17        | 87.44                 | -1,068.22              | 5,620.29     | 3,366.77                | 3,239.67                | 127.11                    | 26.487            |                    |           |
| 6,800.00                                                                                | 4,569.96              | 4,643.23              | 4,641.96              | 33.21            | 107.21        | 87.53                 | -1,068.22              | 5,620.29     | 3,275.56                | 3,147.92                | 127.64                    | 25.662            |                    |           |
| 6,900.00                                                                                | 4,571.94              | 4,645.20              | 4,643.94              | 34.20            | 107.25        | 87.61                 | -1,068.22              | 5,620.29     | 3,184.87                | 3,056.65                | 128.22                    | 24.839            |                    |           |
| 7,000.00                                                                                | 4,573.91              | 4,647.17              | 4,645.91              | 35.19            | 107.29        | 87.69                 | -1,068.22              | 5,620.29     | 3,094.75                | 2,965.91                | 128.85                    | 24.019            |                    |           |
| 7,100.00                                                                                | 4,575.88              | 4,649.15              | 4,647.88              | 36.19            | 107.33        | 87.77                 | -1,068.22              | 5,620.29     | 3,005.26                | 2,875.74                | 129.52                    | 23.202            |                    |           |
| 7,200.00                                                                                | 4,577.85              | 4,651.12              | 4,649.85              | 37.20            | 107.37        | 87.86                 | -1,068.22              | 5,620.29     | 2,916.45                | 2,786.19                | 130.26                    | 22.390            |                    |           |
| 7,300.00                                                                                | 4,579.82              | 4,653.09              | 4,651.82              | 38.21            | 107.41        | 87.94                 | -1,068.22              | 5,620.29     | 2,828.38                | 2,697.33                | 131.05                    | 21.582            |                    |           |
| 7,400.00                                                                                | 4,581.79              | 4,655.06              | 4,653.79              | 39.23            | 107.45        | 88.02                 | -1,068.22              | 5,620.29     | 2,741.14                | 2,609.23                | 131.91                    | 20.781            |                    |           |
| 7,500.00                                                                                | 4,583.76              | 4,657.03              | 4,655.76              | 40.26            | 107.49        | 88.11                 | -1,068.22              | 5,620.29     | 2,654.79                | 2,521.95                | 132.84                    | 19.986            |                    |           |
| 7,600.00                                                                                | 4,585.73              | 4,659.00              | 4,657.73              | 41.29            | 107.53        | 88.19                 | -1,068.22              | 5,620.29     | 2,569.43                | 2,435.59                | 133.84                    | 19.198            |                    |           |
| 7,700.00                                                                                | 4,587.70              | 4,660.97              | 4,659.70              | 42.33            | 107.57        | 88.27                 | -1,068.22              | 5,620.29     | 2,485.16                | 2,350.24                | 134.92                    | 18.420            |                    |           |
| 7,800.00                                                                                | 4,589.68              | 4,662.94              | 4,661.68              | 43.37            | 107.61        | 88.36                 | -1,068.22              | 5,620.29     | 2,402.09                | 2,266.01                | 136.08                    | 17.652            |                    |           |
| 7,900.00                                                                                | 4,591.65              | 4,664.87              | 4,663.59              | 44.41            | 107.65        | 88.44                 | -1,067.63              | 5,620.29     | 2,320.02                | 2,182.69                | 137.33                    | 16.894            |                    |           |
| 8,000.00                                                                                | 4,593.62              | 4,666.61              | 4,665.34              | 45.46            | 107.69        | 88.51                 | -1,067.63              | 5,620.29     | 2,239.76                | 2,101.09                | 138.67                    | 16.151            |                    |           |
| 8,100.00                                                                                | 4,595.59              | 4,668.36              | 4,667.08              | 46.52            | 107.72        | 88.58                 | -1,067.63              | 5,620.29     | 2,161.14                | 2,021.03                | 140.12                    | 15.424            |                    |           |
| 8,200.00                                                                                | 4,597.56              | 4,670.10              | 4,668.83              | 47.57            | 107.76        | 88.66                 | -1,067.63              | 5,620.29     | 2,084.36                | 1,942.69                | 141.66                    | 14.713            |                    |           |
| 8,300.00                                                                                | 4,599.53              | 4,671.85              | 4,670.57              | 48.63            | 107.79        | 88.73                 | -1,067.63              | 5,620.29     | 2,009.61                | 1,866.29                | 143.32                    | 14.022            |                    |           |
| 8,400.00                                                                                | 4,601.50              | 4,673.59              | 4,672.32              | 49.69            | 107.83        | 88.80                 | -1,067.63              | 5,620.29     | 1,937.15                | 1,792.06                | 145.08                    | 13.352            |                    |           |
| 8,500.00                                                                                | 4,603.47              | 4,675.34              | 4,674.06              | 50.76            | 107.86        | 88.88                 | -1,067.63              | 5,620.29     | 1,867.23                | 1,720.27                | 146.96                    | 12.706            |                    |           |
| 8,600.00                                                                                | 4,605.45              | 4,677.08              | 4,675.80              | 51.83            | 107.90        | 88.95                 | -1,067.63              | 5,620.29     | 1,800.14                | 1,651.20                | 148.94                    | 12.086            |                    |           |
| 8,700.00                                                                                | 4,607.42              | 4,678.82              | 4,677.55              | 52.90            | 107.93        | 89.02                 | -1,067.64              | 5,620.29     | 1,736.23                | 1,585.20                | 151.02                    | 11.496            |                    |           |
| 8,800.00                                                                                | 4,609.39              | 4,680.56              | 4,679.29              | 53.97            | 107.97        | 89.10                 | -1,067.64              | 5,620.29     | 1,675.85                | 1,522.65                | 153.20                    | 10.939            |                    |           |
| 8,900.00                                                                                | 4,611.36              | 4,682.31              | 4,681.03              | 55.04            | 108.00        | 89.17                 | -1,067.64              | 5,620.29     | 1,619.39                | 1,463.94                | 155.45                    | 10.418            |                    |           |
| 9,000.00                                                                                | 4,613.33              | 4,684.05              | 4,682.77              | 56.12            | 108.04        | 89.24                 | -1,067.65              | 5,620.29     | 1,567.28                | 1,409.54                | 157.75                    | 9.935             |                    |           |
| 9,100.00                                                                                | 4,615.30              | 4,685.79              | 4,684.51              | 57.20            | 108.07        | 89.32                 | -1,067.65              | 5,620.29     | 1,519.97                | 1,359.91                | 160.07                    | 9.496             |                    |           |
| 9,200.00                                                                                | 4,617.27              | 4,687.53              | 4,686.25              | 58.28            | 108.11        | 89.39                 | -1,067.65              | 5,620.29     | 1,477.93                | 1,315.56                | 162.37                    | 9.102             |                    |           |
| 9,300.00                                                                                | 4,619.24              | 4,689.27              | 4,687.99              | 59.36            | 108.14        | 89.46                 | -1,067.66              | 5,620.29     | 1,441.60                | 1,276.98                | 164.61                    | 8.758             |                    |           |
| 9,400.00                                                                                | 4,621.22              | 4,691.01              | 4,689.73              | 60.45            | 108.18        | 89.54                 | -1,067.66              | 5,620.29     | 1,411.43                | 1,244.69                | 166.74                    | 8.465             |                    |           |
| 9,500.00                                                                                | 4,623.19              | 4,692.74              | 4,691.47              | 61.53            | 108.21        | 89.61                 | -1,067.67              | 5,620.29     | 1,387.82                | 1,219.12                | 168.70                    | 8.227             |                    |           |
| 9,600.00                                                                                | 4,625.16              | 4,694.48              | 4,693.21              | 62.62            | 108.25        | 89.68                 | -1,067.67              | 5,620.29     | 1,371.12                | 1,200.67                | 170.44                    | 8.044             |                    |           |
| 9,700.00                                                                                | 4,627.13              | 4,696.22              | 4,694.94              | 63.71            | 108.28        | 89.76                 | -1,067.68              | 5,620.29     | 1,361.57                | 1,189.65                | 171.92                    | 7.920             |                    |           |
| 9,780.51                                                                                | 4,628.72              | 4,697.62              | 4,696.34              | 64.58            | 108.31        | 89.82                 | -1,067.68              | 5,620.29     | 1,359.19                | 1,186.30                | 172.89                    | 7.862 CC          |                    |           |
| 9,800.00                                                                                | 4,629.10              | 4,697.96              | 4,696.68              | 64.80            | 108.32        | 89.83                 | -1,067.68              | 5,620.29     | 1,359.33                | 1,186.23                | 173.09                    | 7.853 ES          |                    |           |
| 9,900.00                                                                                | 4,631.07              | 4,699.69              | 4,698.42              | 65.89            | 108.35        | 89.90                 | -1,067.69              | 5,620.29     | 1,364.43                | 1,190.48                | 173.94                    | 7.844 SF          |                    |           |
| 10,000.00                                                                               | 4,633.04              | 4,701.43              | 4,700.15              | 66.98            | 108.39        | 89.98                 | -1,067.69              | 5,620.29     | 1,376.79                | 1,202.33                | 174.46                    | 7.892             |                    |           |

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 90H                           |
| Project:           | EDDY COUNTY, NM (NAD 83 - NME) | TVD Reference:               | RKB = 20' @ 3633.00usft (AKITA 57) |
| Reference Site:    | SMITHDALE 29 FEDERAL           | MD Reference:                | RKB = 20' @ 3633.00usft (AKITA 57) |
| Site Error:        | 0.00 usft                      | North Reference:             | Grid                               |
| Reference Well:    | 90H                            | 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 | Offset Wellbore Centre |        | Rule Assigned: |          | Distance |            | Separation | Warning            |           |
| Measured                                                                                | Vertical | Measured        | Vertical |          | Reference              | Offset | Between        | Between  | Minimum  | Separation |            |                    |           |
| Depth                                                                                   | Depth    | Depth           | Depth    | Toolface |                        |        | +N/-S          | +E/-W    | Centres  | Ellipses   | Factor     |                    |           |
| (usft)                                                                                  | (usft)   | (usft)          | (usft)   | (°)      | (usft)                 | (usft) | (usft)         | (usft)   | (usft)   | (usft)     |            |                    |           |
| 10,099.28                                                                               | 4,635.00 | 4,703.15        | 4,701.88 | 90.05    | 68.06                  | 108.42 | -1,067.70      | 5,620.29 | 1,396.05 | 1,221.40   | 174.65     | 7.993              |           |





Anticollision Report

|                    |                                |                              |                                    |
|--------------------|--------------------------------|------------------------------|------------------------------------|
| Company:           | SPUR ENERGY PARTNERS, LLC      | Local Co-ordinate Reference: | Well 90H                           |
| Project:           | EDDY COUNTY, NM (NAD 83 - NME) | TVD Reference:               | RKB = 20' @ 3633.00usft (AKITA 57) |
| Reference Site:    | SMITHDALE 29 FEDERAL           | MD Reference:                | RKB = 20' @ 3633.00usft (AKITA 57) |
| Site Error:        | 0.00 usft                      | North Reference:             | Grid                               |
| Reference Well:    | 90H                            | 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                       |

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | 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 |                         | Minimum Separation (usft) | Separation Factor | Warning            |           |
|                                                                                           |                       |                       |                       |                                  |                               |                       | +N/-S (usft)           | +E/-W (usft) | Between Centres (usft)  | Between Ellipses (usft) |                           |                   |                    |           |
| 0.00                                                                                      | 0.00                  | 50.00                 | 50.00                 | 0.00                             | 1.32                          | 79.51                 | 776.82                 | 4,196.98     | 4,268.27                |                         |                           |                   |                    |           |
| 100.00                                                                                    | 100.00                | 150.00                | 150.00                | 0.29                             | 3.95                          | 79.51                 | 776.82                 | 4,196.98     | 4,268.27                | 4,264.03                | 4.24                      | 1,007.353         |                    |           |
| 200.00                                                                                    | 200.00                | 250.00                | 250.00                | 0.65                             | 6.58                          | 79.51                 | 776.82                 | 4,196.98     | 4,268.27                | 4,261.04                | 7.23                      | 590.338           |                    |           |
| 300.00                                                                                    | 300.00                | 353.00                | 352.95                | 1.00                             | 9.42                          | 79.51                 | 777.41                 | 4,196.98     | 4,268.37                | 4,257.95                | 10.43                     | 409.432           |                    |           |
| 313.19                                                                                    | 313.19                | 368.42                | 368.37                | 1.05                             | 9.85                          | 105.27                | 777.33                 | 4,196.98     | 4,268.37                | 4,257.47                | 10.90                     | 391.702           |                    |           |
| 400.00                                                                                    | 399.98                | 450.10                | 449.98                | 1.36                             | 12.13                         | 105.29                | 776.82                 | 4,196.98     | 4,268.73                | 4,255.24                | 13.49                     | 316.509           |                    |           |
| 500.00                                                                                    | 499.85                | 558.46                | 558.33                | 1.73                             | 15.20                         | 105.34                | 777.13                 | 4,196.98     | 4,270.13                | 4,253.21                | 16.92                     | 252.356           |                    |           |
| 600.00                                                                                    | 599.67                | 649.87                | 649.67                | 2.08                             | 17.63                         | 105.41                | 776.82                 | 4,196.98     | 4,271.64                | 4,251.93                | 19.71                     | 216.747           |                    |           |
| 700.00                                                                                    | 699.50                | 751.59                | 751.36                | 2.44                             | 20.27                         | 105.47                | 778.04                 | 4,196.98     | 4,273.43                | 4,250.73                | 22.70                     | 188.216           |                    |           |
| 800.00                                                                                    | 799.32                | 860.89                | 860.64                | 2.80                             | 23.11                         | 105.57                | 777.09                 | 4,196.98     | 4,274.86                | 4,248.96                | 25.90                     | 165.058           |                    |           |
| 900.00                                                                                    | 899.15                | 949.46                | 949.15                | 3.15                             | 25.07                         | 105.64                | 776.82                 | 4,196.98     | 4,276.39                | 4,248.18                | 28.21                     | 151.572           |                    |           |
| 1,000.00                                                                                  | 998.97                | 1,054.24              | 1,053.91              | 3.51                             | 27.28                         | 105.72                | 777.18                 | 4,196.98     | 4,278.06                | 4,247.27                | 30.79                     | 138.947           |                    |           |
| 1,100.00                                                                                  | 1,098.80              | 1,149.15              | 1,148.80              | 3.87                             | 29.18                         | 105.79                | 776.82                 | 4,196.98     | 4,279.60                | 4,246.56                | 33.04                     | 129.520           |                    |           |
| 1,200.00                                                                                  | 1,198.62              | 1,250.13              | 1,249.77              | 4.23                             | 31.10                         | 105.86                | 777.29                 | 4,196.98     | 4,281.29                | 4,245.97                | 35.32                     | 121.211           |                    |           |
| 1,300.00                                                                                  | 1,298.45              | 1,354.53              | 1,354.17              | 4.59                             | 33.08                         | 105.95                | 776.80                 | 4,196.98     | 4,282.84                | 4,245.17                | 37.66                     | 113.709           |                    |           |
| 1,400.00                                                                                  | 1,398.27              | 1,448.65              | 1,448.27              | 4.95                             | 35.11                         | 106.02                | 776.82                 | 4,196.98     | 4,284.47                | 4,244.42                | 40.05                     | 106.987           |                    |           |
| 1,500.00                                                                                  | 1,498.10              | 1,549.90              | 1,549.52              | 5.31                             | 37.28                         | 106.09                | 777.23                 | 4,196.98     | 4,286.17                | 4,243.60                | 42.58                     | 100.673           |                    |           |
| 1,600.00                                                                                  | 1,597.92              | 1,652.72              | 1,652.34              | 5.67                             | 39.48                         | 106.18                | 776.81                 | 4,196.98     | 4,287.75                | 4,242.61                | 45.14                     | 94.994            |                    |           |
| 1,700.00                                                                                  | 1,697.75              | 1,748.18              | 1,747.75              | 6.03                             | 41.74                         | 106.25                | 776.82                 | 4,196.98     | 4,289.40                | 4,241.64                | 47.76                     | 89.810            |                    |           |
| 1,800.00                                                                                  | 1,797.57              | 1,852.99              | 1,852.55              | 6.39                             | 44.23                         | 106.32                | 777.34                 | 4,196.98     | 4,291.15                | 4,240.55                | 50.60                     | 84.802            |                    |           |
| 1,900.00                                                                                  | 1,897.40              | 1,947.90              | 1,947.40              | 6.74                             | 46.59                         | 106.40                | 776.82                 | 4,196.98     | 4,292.73                | 4,239.40                | 53.33                     | 80.496            |                    |           |
| 2,000.00                                                                                  | 1,997.22              | 2,050.40              | 2,049.89              | 7.10                             | 49.32                         | 106.47                | 777.31                 | 4,196.98     | 4,294.49                | 4,238.07                | 56.42                     | 76.121            |                    |           |
| 2,100.00                                                                                  | 2,097.05              | 2,147.64              | 2,147.05              | 7.46                             | 51.98                         | 106.55                | 776.82                 | 4,196.98     | 4,296.09                | 4,236.66                | 59.43                     | 72.286            |                    |           |
| 2,200.00                                                                                  | 2,196.87              | 2,247.63              | 2,247.02              | 7.82                             | 54.87                         | 106.61                | 777.99                 | 4,196.98     | 4,297.97                | 4,235.29                | 62.68                     | 68.571            |                    |           |
| 2,300.00                                                                                  | 2,296.70              | 2,358.26              | 2,357.62              | 8.18                             | 58.06                         | 106.71                | 777.09                 | 4,196.98     | 4,299.53                | 4,233.30                | 66.23                     | 64.915            |                    |           |
| 2,400.00                                                                                  | 2,396.52              | 2,447.26              | 2,446.52              | 8.54                             | 60.59                         | 106.78                | 776.82                 | 4,196.98     | 4,301.18                | 4,232.07                | 69.11                     | 62.233            |                    |           |
| 2,500.00                                                                                  | 2,496.35              | 2,553.80              | 2,553.05              | 8.90                             | 63.59                         | 106.85                | 777.29                 | 4,196.98     | 4,302.97                | 4,230.49                | 72.48                     | 59.368            |                    |           |
| 2,600.00                                                                                  | 2,596.18              | 2,647.02              | 2,646.18              | 9.26                             | 66.05                         | 106.93                | 776.82                 | 4,196.98     | 4,304.62                | 4,229.32                | 75.30                     | 57.168            |                    |           |
| 2,700.00                                                                                  | 2,696.00              | 2,749.55              | 2,748.68              | 9.62                             | 68.63                         | 106.99                | 777.83                 | 4,196.98     | 4,306.50                | 4,228.26                | 78.24                     | 55.043            |                    |           |
| 2,800.00                                                                                  | 2,795.83              | 2,846.76              | 2,845.83              | 9.98                             | 71.08                         | 107.08                | 776.82                 | 4,196.98     | 4,308.08                | 4,227.04                | 81.04                     | 53.160            |                    |           |
| 2,900.00                                                                                  | 2,895.65              | 2,946.58              | 2,945.65              | 10.34                            | 73.06                         | 107.15                | 776.82                 | 4,196.98     | 4,309.82                | 4,226.44                | 83.38                     | 51.689            |                    |           |
| 3,000.00                                                                                  | 2,995.48              | 3,051.95              | 3,051.00              | 10.70                            | 75.15                         | 107.23                | 776.87                 | 4,196.98     | 4,311.58                | 4,225.75                | 85.83                     | 50.235            |                    |           |
| 3,100.00                                                                                  | 3,095.30              | 3,146.26              | 3,145.30              | 11.06                            | 77.03                         | 107.30                | 776.82                 | 4,196.98     | 4,313.33                | 4,225.26                | 88.06                     | 48.979            |                    |           |
| 3,200.00                                                                                  | 3,195.13              | 3,247.95              | 3,246.98              | 11.42                            | 79.05                         | 107.37                | 777.12                 | 4,196.98     | 4,315.14                | 4,224.69                | 90.45                     | 47.709            |                    |           |
| 3,300.00                                                                                  | 3,294.95              | 3,345.94              | 3,344.95              | 11.78                            | 81.07                         | 107.45                | 776.82                 | 4,196.98     | 4,316.87                | 4,224.03                | 92.83                     | 46.503            |                    |           |
| 3,400.00                                                                                  | 3,394.78              | 3,445.92              | 3,444.92              | 12.14                            | 83.29                         | 107.52                | 777.41                 | 4,196.98     | 4,318.73                | 4,223.32                | 95.41                     | 45.265            |                    |           |
| 3,500.00                                                                                  | 3,494.60              | 3,550.32              | 3,549.32              | 12.49                            | 85.61                         | 107.60                | 776.99                 | 4,196.98     | 4,320.46                | 4,222.37                | 98.09                     | 44.048            |                    |           |
| 3,600.00                                                                                  | 3,594.41              | 3,645.45              | 3,644.41              | 12.85                            | 87.94                         | 107.67                | 776.82                 | 4,196.98     | 4,318.32                | 4,221.55                | 100.77                    | 42.852            |                    |           |
| 3,700.00                                                                                  | 3,693.54              | 3,747.02              | 3,745.97              | 13.19                            | 90.50                         | 107.74                | 777.41                 | 4,196.98     | 4,306.08                | 4,220.41                | 103.67                    | 41.537            |                    |           |
| 3,800.00                                                                                  | 3,790.92              | 3,842.04              | 3,840.92              | 13.52                            | 92.94                         | 107.81                | 776.82                 | 4,196.98     | 4,283.49                | 4,177.06                | 106.43                    | 40.245            |                    |           |
| 3,900.00                                                                                  | 3,885.46              | 3,936.59              | 3,935.46              | 13.84                            | 95.60                         | 107.88                | 776.82                 | 4,196.98     | 4,251.06                | 4,141.65                | 109.41                    | 38.854            |                    |           |
| 4,000.00                                                                                  | 3,976.15              | 4,027.27              | 4,026.15              | 14.17                            | 98.15                         | 107.95                | 776.82                 | 4,196.98     | 4,209.05                | 4,096.79                | 112.26                    | 37.494            |                    |           |
| 4,100.00                                                                                  | 4,061.97              | 4,113.38              | 4,112.22              | 14.50                            | 100.58                        | 108.02                | 778.94                 | 4,196.98     | 4,158.23                | 4,043.27                | 114.95                    | 36.173            |                    |           |
| 4,200.00                                                                                  | 4,142.00              | 4,196.09              | 4,194.92              | 14.84                            | 102.91                        | 108.09                | 778.71                 | 4,196.98     | 4,098.53                | 3,981.01                | 117.52                    | 34.874            |                    |           |
| 4,300.00                                                                                  | 4,215.36              | 4,271.89              | 4,270.71              | 15.20                            | 105.04                        | 108.16                | 778.18                 | 4,196.98     | 4,030.90                | 3,911.03                | 119.87                    | 33.627            |                    |           |
| 4,400.00                                                                                  | 4,281.24              | 4,339.96              | 4,338.76              | 15.57                            | 106.96                        | 108.23                | 777.42                 | 4,196.98     | 3,956.10                | 3,834.13                | 121.97                    | 32.435            |                    |           |
| 4,500.00                                                                                  | 4,338.92              | 4,390.34              | 4,388.92              | 15.98                            | 108.37                        | 108.30                | 776.82                 | 4,196.98     | 3,874.99                | 3,751.46                | 123.53                    | 31.368            |                    |           |
| 4,600.00                                                                                  | 4,389.56              | 4,440.97              | 4,439.56              | 16.42                            | 109.76                        | 108.37                | 776.82                 | 4,196.98     | 3,789.52                | 3,664.48                | 125.05                    | 30.305            |                    |           |
| 4,700.00                                                                                  | 4,439.56              | 4,490.97              | 4,489.56              | 16.90                            | 111.13                        | 108.44                | 776.82                 | 4,196.98     | 3,703.72                | 3,577.19                | 126.53                    | 29.271            |                    |           |
| 4,800.00                                                                                  | 4,486.55              | 4,540.17              | 4,538.74              | 17.42                            | 112.49                        | 108.51                | 777.84                 | 4,196.98     | 3,616.55                | 3,488.55                | 128.00                    | 28.254            |                    |           |
| 4,900.00                                                                                  | 4,518.67              | 4,574.90              | 4,573.46              | 17.96                            | 113.44                        | 108.58                | 777.63                 | 4,196.98     | 3,522.92                | 3,393.88                | 129.04                    | 27.301            |                    |           |
| 5,000.00                                                                                  | 4,533.88              | 4,591.34              | 4,589.89              | 18.51                            | 113.89                        | 108.65                | 777.47                 | 4,196.98     | 3,425.25                | 3,295.71                | 129.54                    | 26.442            |                    |           |

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 90H                           |
| Project:           | EDDY COUNTY, NM (NAD 83 - NME) | TVD Reference:               | RKB = 20' @ 3633.00usft (AKITA 57) |
| Reference Site:    | SMITHDALE 29 FEDERAL           | MD Reference:                | RKB = 20' @ 3633.00usft (AKITA 57) |
| Site Error:        | 0.00 usft                      | North Reference:             | Grid                               |
| Reference Well:    | 90H                            | 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                       |



## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | Offset Datum                       |

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

| Survey Program: 200-INC-ONLY |                       |                       |                       |                                  |               |                       |                                     |              |                                 | Offset Site Error: 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) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Distance Between Centres (usft) | Minimum Separation (usft)    | Warning             |
| 8,500.00                     | 4,603.47              | 4,668.12              | 4,667.63              | 50.76                            | 92.68         | 89.05                 | -529.31                             | 4,966.88     | 1,029.86                        | 895.57                       | 134.29 7.669        |
| 8,600.00                     | 4,605.45              | 4,670.05              | 4,669.57              | 51.83                            | 92.71         | 89.19                 | -529.31                             | 4,966.88     | 971.31                          | 834.05                       | 137.25 7.077        |
| 8,700.00                     | 4,607.42              | 4,671.99              | 4,671.50              | 52.90                            | 92.75         | 89.33                 | -529.31                             | 4,966.88     | 919.93                          | 779.63                       | 140.30 6.557        |
| 8,800.00                     | 4,609.39              | 4,673.92              | 4,673.44              | 53.97                            | 92.79         | 89.46                 | -529.32                             | 4,966.88     | 876.97                          | 733.68                       | 143.29 6.120        |
| 8,900.00                     | 4,611.36              | 4,675.86              | 4,675.37              | 55.04                            | 92.82         | 89.60                 | -529.32                             | 4,966.88     | 843.73                          | 697.68                       | 146.06 5.777        |
| 9,000.00                     | 4,613.33              | 4,677.79              | 4,677.31              | 56.12                            | 92.86         | 89.74                 | -529.32                             | 4,966.88     | 821.39                          | 673.02                       | 148.38 5.536        |
| 9,100.00                     | 4,615.30              | 4,679.73              | 4,679.24              | 57.20                            | 92.90         | 89.87                 | -529.32                             | 4,966.88     | 810.85                          | 660.78                       | 150.07 5.403        |
| 9,136.07                     | 4,616.01              | 4,680.42              | 4,679.94              | 57.59                            | 92.91         | 89.92                 | -529.32                             | 4,966.88     | 810.05                          | 659.56                       | 150.49 5.383 CC, ES |
| 9,200.00                     | 4,617.27              | 4,681.66              | 4,681.17              | 58.28                            | 92.93         | 90.01                 | -529.33                             | 4,966.88     | 812.57                          | 661.58                       | 150.99 5.382 SF     |
| 9,300.00                     | 4,619.24              | 4,683.59              | 4,683.11              | 59.36                            | 92.97         | 90.15                 | -529.33                             | 4,966.88     | 826.46                          | 675.35                       | 151.12 5.469        |
| 9,400.00                     | 4,621.22              | 4,685.53              | 4,685.04              | 60.45                            | 93.01         | 90.28                 | -529.33                             | 4,966.88     | 851.95                          | 701.43                       | 150.52 5.660        |
| 9,500.00                     | 4,623.19              | 4,687.46              | 4,686.98              | 61.53                            | 93.04         | 90.42                 | -529.33                             | 4,966.88     | 888.02                          | 738.67                       | 149.34 5.946        |
| 9,600.00                     | 4,625.16              | 4,689.39              | 4,688.91              | 62.62                            | 93.08         | 90.56                 | -529.34                             | 4,966.88     | 933.45                          | 785.68                       | 147.77 6.317        |
| 9,700.00                     | 4,627.13              | 4,691.33              | 4,690.84              | 63.71                            | 93.12         | 90.69                 | -529.34                             | 4,966.88     | 986.95                          | 840.99                       | 145.96 6.762        |
| 9,800.00                     | 4,629.10              | 4,693.26              | 4,692.77              | 64.80                            | 93.15         | 90.83                 | -529.34                             | 4,966.88     | 1,047.29                        | 903.23                       | 144.06 7.270        |
| 9,900.00                     | 4,631.07              | 4,695.19              | 4,694.71              | 65.89                            | 93.19         | 90.97                 | -529.35                             | 4,966.88     | 1,113.35                        | 971.19                       | 142.16 7.832        |
| 10,000.00                    | 4,633.04              | 4,697.12              | 4,696.64              | 66.98                            | 93.23         | 91.10                 | -529.35                             | 4,966.88     | 1,184.18                        | 1,043.85                     | 140.33 8.438        |
| 10,099.28                    | 4,635.00              | 4,699.04              | 4,698.56              | 68.06                            | 93.26         | 91.24                 | -529.35                             | 4,966.88     | 1,258.41                        | 1,119.80                     | 138.61 9.079        |

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



## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | Offset Datum                       |

|                                                                                                 |                              |                              |                              |                               |                       |                     |                     |                     |                               |                                |                                  |                          |                                     |
|-------------------------------------------------------------------------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|-----------------------|---------------------|---------------------|---------------------|-------------------------------|--------------------------------|----------------------------------|--------------------------|-------------------------------------|
| <b>Offset Design:</b> SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 3 - Wellbore #1 - Wellbore #1 |                              |                              |                              |                               |                       |                     |                     |                     |                               |                                |                                  |                          | <b>Offset Site Error:</b> 0.00 usft |
| <b>Survey Program:</b>                                                                          | 228-INC-ONLY                 |                              |                              |                               |                       |                     |                     |                     |                               |                                |                                  |                          | <b>Offset Well Error:</b> 0.00 usft |
| <b>Reference</b>                                                                                | <b>Offset</b>                | <b>Semi Major Axis</b>       | <b>Highside</b>              | <b>Offset Wellbore Centre</b> | <b>Rule Assigned:</b> |                     |                     |                     |                               |                                |                                  |                          | <b>Warning</b>                      |
| <b>Measured Depth (usft)</b>                                                                    | <b>Vertical Depth (usft)</b> | <b>Measured Depth (usft)</b> | <b>Vertical Depth (usft)</b> | <b>Reference</b>              | <b>Offset</b>         | <b>Toolface (°)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Between Centres (usft)</b> | <b>Between Ellipses (usft)</b> | <b>Minimum Separation (usft)</b> | <b>Separation Factor</b> |                                     |
| 9,300.00                                                                                        | 4,619.24                     | 4,691.73                     | 4,691.24                     | 59.36                         | 92.25                 | 90.15               | -1,079.37           | 4,959.93            | 1,371.76                      | 1,220.70                       | 151.06                           | 9.081                    |                                     |
| 9,400.00                                                                                        | 4,621.22                     | 4,693.70                     | 4,693.22                     | 60.45                         | 92.29                 | 90.23               | -1,079.37           | 4,959.93            | 1,388.42                      | 1,236.96                       | 151.46                           | 9.167                    |                                     |
| 9,500.00                                                                                        | 4,623.19                     | 4,695.67                     | 4,695.19                     | 61.53                         | 92.33                 | 90.32               | -1,079.37           | 4,959.93            | 1,411.98                      | 1,260.38                       | 151.59                           | 9.314                    |                                     |
| 9,600.00                                                                                        | 4,625.16                     | 4,697.64                     | 4,697.16                     | 62.62                         | 92.36                 | 90.40               | -1,079.37           | 4,959.93            | 1,442.10                      | 1,290.62                       | 151.47                           | 9.520                    |                                     |
| 9,700.00                                                                                        | 4,627.13                     | 4,699.62                     | 4,699.13                     | 63.71                         | 92.40                 | 90.48               | -1,079.37           | 4,959.93            | 1,478.38                      | 1,327.24                       | 151.14                           | 9.782                    |                                     |
| 9,800.00                                                                                        | 4,629.10                     | 4,701.59                     | 4,701.10                     | 64.80                         | 92.44                 | 90.56               | -1,079.37           | 4,959.93            | 1,520.38                      | 1,369.76                       | 150.62                           | 10.094                   |                                     |
| 9,900.00                                                                                        | 4,631.07                     | 4,703.56                     | 4,703.07                     | 65.89                         | 92.48                 | 90.65               | -1,079.37           | 4,959.93            | 1,567.64                      | 1,417.68                       | 149.96                           | 10.453                   |                                     |
| 10,000.00                                                                                       | 4,633.04                     | 4,705.53                     | 4,705.04                     | 66.98                         | 92.51                 | 90.73               | -1,079.37           | 4,959.93            | 1,619.70                      | 1,470.50                       | 149.20                           | 10.856                   |                                     |
| 10,099.28                                                                                       | 4,635.00                     | 4,707.49                     | 4,707.00                     | 68.06                         | 92.55                 | 90.81               | -1,079.37           | 4,959.93            | 1,675.69                      | 1,527.33                       | 148.36                           | 11.295                   |                                     |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 4 - Wellbore #1 - Wellbore #1 |                       |                       |                 |        |                       |                        |              |                        |                         |                           |                   |                  | Offset Site Error: |
|------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------|--------|-----------------------|------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|------------------|--------------------|
|                                                                                          |                       |                       |                 |        |                       |                        |              |                        |                         |                           |                   |                  | 0.00 usft          |
| Survey Program:                                                                          | 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) | Reference       | Offset |                       | +N/-S (usft)           | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) |                           |                   |                  | 0.00 usft          |
| 5,100.00                                                                                 | 4,536.45              | 4,605.15              | 4,603.58        | 19.06  | 116.01                | 83.43                  | -590.85      | 5,755.85               | 4,903.61                | 4,771.76                  | 131.85            | 37.191           |                    |
| 5,200.00                                                                                 | 4,538.42              | 4,606.90              | 4,605.34        | 19.66  | 116.05                | 83.54                  | -590.87      | 5,755.85               | 4,805.31                | 4,673.36                  | 131.95            | 36.418           |                    |
| 5,300.00                                                                                 | 4,540.40              | 4,608.66              | 4,607.09        | 20.30  | 116.10                | 83.65                  | -590.88      | 5,755.85               | 4,707.08                | 4,575.02                  | 132.05            | 35.645           |                    |
| 5,400.00                                                                                 | 4,542.37              | 4,610.41              | 4,608.84        | 20.99  | 116.15                | 83.76                  | -590.90      | 5,755.85               | 4,608.92                | 4,476.75                  | 132.17            | 34.872           |                    |
| 5,500.00                                                                                 | 4,544.34              | 4,612.17              | 4,610.60        | 21.71  | 116.19                | 83.88                  | -590.92      | 5,755.85               | 4,510.84                | 4,378.55                  | 132.29            | 34.099           |                    |
| 5,600.00                                                                                 | 4,546.31              | 4,613.92              | 4,612.35        | 22.46  | 116.24                | 83.99                  | -590.93      | 5,755.85               | 4,412.85                | 4,280.43                  | 132.42            | 33.325           |                    |
| 5,700.00                                                                                 | 4,548.28              | 4,615.67              | 4,614.10        | 23.25  | 116.29                | 84.10                  | -590.95      | 5,755.85               | 4,314.95                | 4,182.40                  | 132.56            | 32.552           |                    |
| 5,800.00                                                                                 | 4,550.25              | 4,617.42              | 4,615.85        | 24.06  | 116.33                | 84.21                  | -590.97      | 5,755.85               | 4,217.15                | 4,084.45                  | 132.70            | 31.779           |                    |
| 5,900.00                                                                                 | 4,552.22              | 4,619.17              | 4,617.60        | 24.90  | 116.38                | 84.32                  | -590.99      | 5,755.85               | 4,119.45                | 3,986.59                  | 132.86            | 31.006           |                    |
| 6,000.00                                                                                 | 4,554.19              | 4,620.92              | 4,619.35        | 25.76  | 116.43                | 84.44                  | -591.01      | 5,755.85               | 4,021.87                | 3,888.83                  | 133.03            | 30.232           |                    |
| 6,100.00                                                                                 | 4,556.17              | 4,622.67              | 4,621.10        | 26.64  | 116.47                | 84.55                  | -591.02      | 5,755.85               | 3,924.40                | 3,791.19                  | 133.21            | 29.459           |                    |
| 6,200.00                                                                                 | 4,558.14              | 4,624.42              | 4,622.85        | 27.53  | 116.52                | 84.66                  | -591.04      | 5,755.85               | 3,827.07                | 3,693.66                  | 133.41            | 28.686           |                    |
| 6,300.00                                                                                 | 4,560.11              | 4,626.17              | 4,624.59        | 28.45  | 116.57                | 84.77                  | -591.06      | 5,755.85               | 3,729.87                | 3,596.25                  | 133.62            | 27.914           |                    |
| 6,400.00                                                                                 | 4,562.08              | 4,627.91              | 4,626.34        | 29.38  | 116.61                | 84.89                  | -591.08      | 5,755.85               | 3,632.83                | 3,498.98                  | 133.85            | 27.141           |                    |
| 6,500.00                                                                                 | 4,564.05              | 4,629.66              | 4,628.08        | 30.32  | 116.66                | 85.00                  | -591.11      | 5,755.85               | 3,535.95                | 3,401.85                  | 134.10            | 26.369           |                    |
| 6,600.00                                                                                 | 4,566.02              | 4,631.40              | 4,629.83        | 31.27  | 116.71                | 85.11                  | -591.13      | 5,755.85               | 3,439.25                | 3,304.88                  | 134.36            | 25.597           |                    |
| 6,700.00                                                                                 | 4,567.99              | 4,633.15              | 4,631.57        | 32.24  | 116.75                | 85.22                  | -591.15      | 5,755.85               | 3,342.74                | 3,208.09                  | 134.65            | 24.825           |                    |
| 6,800.00                                                                                 | 4,569.96              | 4,634.89              | 4,633.32        | 33.21  | 116.80                | 85.33                  | -591.17      | 5,755.85               | 3,246.44                | 3,111.47                  | 134.97            | 24.054           |                    |
| 6,900.00                                                                                 | 4,571.94              | 4,636.63              | 4,635.06        | 34.20  | 116.85                | 85.45                  | -591.19      | 5,755.85               | 3,150.37                | 3,015.06                  | 135.31            | 23.283           |                    |
| 7,000.00                                                                                 | 4,573.91              | 4,638.38              | 4,636.80        | 35.19  | 116.89                | 85.56                  | -591.22      | 5,755.85               | 3,054.55                | 2,918.88                  | 135.68            | 22.513           |                    |
| 7,100.00                                                                                 | 4,575.88              | 4,640.12              | 4,638.54        | 36.19  | 116.94                | 85.67                  | -591.24      | 5,755.85               | 2,959.01                | 2,822.93                  | 136.08            | 21.744           |                    |
| 7,200.00                                                                                 | 4,577.85              | 4,653.48              | 4,651.85        | 37.20  | 117.29                | 86.53                  | -591.41      | 5,755.85               | 2,863.79                | 2,726.97                  | 136.83            | 20.930           |                    |
| 7,300.00                                                                                 | 4,579.82              | 4,655.46              | 4,653.82        | 38.21  | 117.33                | 86.66                  | -591.41      | 5,755.85               | 2,768.88                | 2,631.58                  | 137.31            | 20.166           |                    |
| 7,400.00                                                                                 | 4,581.79              | 4,657.43              | 4,655.79        | 39.23  | 117.38                | 86.78                  | -591.41      | 5,755.85               | 2,674.34                | 2,536.51                  | 137.83            | 19.403           |                    |
| 7,500.00                                                                                 | 4,583.76              | 4,659.40              | 4,657.76        | 40.26  | 117.42                | 86.91                  | -591.41      | 5,755.85               | 2,580.21                | 2,441.80                  | 138.41            | 18.642           |                    |
| 7,600.00                                                                                 | 4,585.73              | 4,661.37              | 4,659.73        | 41.29  | 117.46                | 87.04                  | -591.41      | 5,755.85               | 2,486.53                | 2,347.49                  | 139.04            | 17.884           |                    |
| 7,700.00                                                                                 | 4,587.70              | 4,663.34              | 4,661.70        | 42.33  | 117.51                | 87.17                  | -591.41      | 5,755.85               | 2,393.37                | 2,253.63                  | 139.73            | 17.128           |                    |
| 7,800.00                                                                                 | 4,589.68              | 4,665.31              | 4,663.68        | 43.37  | 117.55                | 87.29                  | -591.41      | 5,755.85               | 2,300.77                | 2,160.27                  | 140.50            | 16.376           |                    |
| 7,900.00                                                                                 | 4,591.65              | 4,667.28              | 4,665.65        | 44.41  | 117.60                | 87.42                  | -591.41      | 5,755.85               | 2,208.82                | 2,067.48                  | 141.34            | 15.627           |                    |
| 8,000.00                                                                                 | 4,593.62              | 4,669.25              | 4,667.62        | 45.46  | 117.64                | 87.55                  | -591.41      | 5,755.85               | 2,117.60                | 1,975.33                  | 142.28            | 14.884           |                    |
| 8,100.00                                                                                 | 4,595.59              | 4,671.23              | 4,669.59        | 46.52  | 117.68                | 87.67                  | -591.41      | 5,755.85               | 2,027.21                | 1,883.90                  | 143.31            | 14.146           |                    |
| 8,200.00                                                                                 | 4,597.56              | 4,673.20              | 4,671.56        | 47.57  | 117.73                | 87.80                  | -591.41      | 5,755.85               | 1,937.76                | 1,793.31                  | 144.45            | 13.415           |                    |
| 8,300.00                                                                                 | 4,599.53              | 4,675.17              | 4,673.53        | 48.63  | 117.77                | 87.93                  | -591.41      | 5,755.85               | 1,849.38                | 1,703.67                  | 145.71            | 12.692           |                    |
| 8,400.00                                                                                 | 4,601.50              | 4,677.14              | 4,675.50        | 49.69  | 117.81                | 88.06                  | -591.41      | 5,755.85               | 1,762.25                | 1,615.14                  | 147.11            | 11.979           |                    |
| 8,500.00                                                                                 | 4,603.47              | 4,679.11              | 4,677.47        | 50.76  | 117.86                | 88.18                  | -591.41      | 5,755.85               | 1,676.55                | 1,527.89                  | 148.66            | 11.278           |                    |
| 8,600.00                                                                                 | 4,605.45              | 4,681.08              | 4,679.45        | 51.83  | 117.90                | 88.31                  | -591.41      | 5,755.85               | 1,592.52                | 1,442.14                  | 150.38            | 10.590           |                    |
| 8,700.00                                                                                 | 4,607.42              | 4,683.05              | 4,681.42        | 52.90  | 117.94                | 88.44                  | -591.41      | 5,755.85               | 1,510.43                | 1,358.15                  | 152.28            | 9.919            |                    |
| 8,800.00                                                                                 | 4,609.39              | 4,685.02              | 4,683.39        | 53.97  | 117.99                | 88.57                  | -591.41      | 5,755.85               | 1,430.62                | 1,276.24                  | 154.38            | 9.267            |                    |
| 8,900.00                                                                                 | 4,611.36              | 4,687.00              | 4,685.36        | 55.04  | 118.03                | 88.69                  | -591.41      | 5,755.85               | 1,353.49                | 1,196.80                  | 156.69            | 8.638            |                    |
| 9,000.00                                                                                 | 4,613.33              | 4,688.97              | 4,687.33        | 56.12  | 118.07                | 88.82                  | -591.41      | 5,755.85               | 1,279.53                | 1,120.30                  | 159.23            | 8.036            |                    |
| 9,100.00                                                                                 | 4,615.30              | 4,690.94              | 4,689.30        | 57.20  | 118.12                | 88.95                  | -591.41      | 5,755.85               | 1,209.32                | 1,047.34                  | 161.98            | 7.466            |                    |
| 9,200.00                                                                                 | 4,617.27              | 4,692.91              | 4,691.27        | 58.28  | 118.16                | 89.08                  | -591.41      | 5,755.85               | 1,143.55                | 978.60                    | 164.95            | 6.933            |                    |
| 9,300.00                                                                                 | 4,619.24              | 4,694.88              | 4,693.24        | 59.36  | 118.21                | 89.20                  | -591.41      | 5,755.85               | 1,083.02                | 914.94                    | 168.08            | 6.443            |                    |
| 9,400.00                                                                                 | 4,621.22              | 4,696.85              | 4,695.22        | 60.45  | 118.25                | 89.33                  | -591.41      | 5,755.85               | 1,028.67                | 857.35                    | 171.32            | 6.004            |                    |
| 9,500.00                                                                                 | 4,623.19              | 4,698.82              | 4,697.19        | 61.53  | 118.29                | 89.46                  | -591.41      | 5,755.85               | 981.52                  | 806.96                    | 174.56            | 5.623            |                    |
| 9,600.00                                                                                 | 4,625.16              | 4,700.79              | 4,699.16        | 62.62  | 118.34                | 89.59                  | -591.41      | 5,755.85               | 942.66                  | 765.00                    | 177.66            | 5.306            |                    |
| 9,700.00                                                                                 | 4,627.13              | 4,702.77              | 4,701.13        | 63.71  | 118.38                | 89.71                  | -591.41      | 5,755.85               | 913.13                  | 732.69                    | 180.44            | 5.061            |                    |
| 9,800.00                                                                                 | 4,629.10              | 4,704.74              | 4,703.10        | 64.80  | 118.42                | 89.84                  | -591.41      | 5,755.85               | 893.87                  | 711.15                    | 182.72            | 4.892            |                    |
| 9,900.00                                                                                 | 4,631.07              | 4,706.71              | 4,705.07        | 65.89  | 118.47                | 89.97                  | -591.41      | 5,755.85               | 885.55                  | 701.21                    | 184.35            | 4.804            |                    |
| 9,924.00                                                                                 | 4,631.54              | 4,707.18              | 4,705.54        | 66.15  | 118.48                | 90.00                  | -591.41      | 5,755.85               | 885.22                  | 700.60                    | 184.62            | 4.795 CC, ES, SF |                    |
| 10,000.00                                                                                | 4,633.04              | 4,708.68              | 4,707.04        | 66.98  | 118.51                | 90.10                  | -591.41      | 5,755.85               | 888.47                  | 703.27                    | 185.20            | 4.797            |                    |
| 10,099.28                                                                                | 4,635.00              | 4,710.64              | 4,709.00        | 68.06  | 118.55                | 90.22                  | -591.41      | 5,755.85               | 902.39                  | 717.11                    | 185.28            | 4.870            |                    |

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 90H                           |
| Project:           | EDDY COUNTY, NM (NAD 83 - NME) | TVD Reference:               | RKB = 20' @ 3633.00usft (AKITA 57) |
| Reference Site:    | SMITHDALE 29 FEDERAL           | MD Reference:                | RKB = 20' @ 3633.00usft (AKITA 57) |
| Site Error:        | 0.00 usft                      | North Reference:             | Grid                               |
| Reference Well:    | 90H                            | 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                       |

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 5 - Wellbore #1 - Wellbore #1 |                       |                       |                       |                                  |                               |                       |                                     |                                     |                                 |                                        |                           |                   | Offset Site Error: |
|------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|----------------------------------|-------------------------------|-----------------------|-------------------------------------|-------------------------------------|---------------------------------|----------------------------------------|---------------------------|-------------------|--------------------|
| Survey Program: 288-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                  | 85.00                 | 85.00                 | 0.00                             | 1.44                          | 108.42                | -1,211.94                           | 3,639.74                            | 3,836.21                        |                                        |                           |                   |                    |
| 100.00                                                                                   | 100.00                | 185.00                | 185.00                | 0.29                             | 3.13                          | 108.42                | -1,211.94                           | 3,639.74                            | 3,836.21                        | 3,832.79                               | 3.42                      | 1,122.775         |                    |
| 200.00                                                                                   | 200.00                | 285.00                | 285.00                | 0.65                             | 4.82                          | 108.42                | -1,211.94                           | 3,639.74                            | 3,836.21                        | 3,830.74                               | 5.47                      | 701.696           |                    |
| 300.00                                                                                   | 300.00                | 385.00                | 385.00                | 1.00                             | 6.58                          | 108.42                | -1,211.94                           | 3,639.74                            | 3,836.21                        | 3,828.63                               | 7.58                      | 505.926           |                    |
| 400.00                                                                                   | 399.98                | 484.49                | 484.48                | 1.36                             | 8.33                          | 134.17                | -1,211.83                           | 3,639.74                            | 3,837.39                        | 3,827.70                               | 9.69                      | 396.002           |                    |
| 500.00                                                                                   | 499.85                | 583.14                | 583.14                | 1.73                             | 10.06                         | 134.20                | -1,211.91                           | 3,639.74                            | 3,840.96                        | 3,829.17                               | 11.78                     | 325.921           |                    |
| 600.00                                                                                   | 599.67                | 684.67                | 684.67                | 2.08                             | 11.85                         | 134.26                | -1,211.94                           | 3,639.74                            | 3,845.09                        | 3,831.16                               | 13.93                     | 276.090           |                    |
| 700.00                                                                                   | 699.50                | 783.22                | 783.21                | 2.44                             | 13.58                         | 134.32                | -1,211.89                           | 3,639.74                            | 3,849.21                        | 3,833.19                               | 16.02                     | 240.319           |                    |
| 800.00                                                                                   | 799.32                | 884.33                | 884.32                | 2.80                             | 15.37                         | 134.39                | -1,211.94                           | 3,639.74                            | 3,853.36                        | 3,835.20                               | 18.16                     | 212.171           |                    |
| 900.00                                                                                   | 899.15                | 984.08                | 984.07                | 3.15                             | 17.14                         | 134.45                | -1,211.82                           | 3,639.74                            | 3,857.46                        | 3,837.17                               | 20.29                     | 190.141           |                    |
| 1,000.00                                                                                 | 998.97                | 1,082.68              | 1,082.68              | 3.51                             | 18.89                         | 134.51                | -1,211.87                           | 3,639.74                            | 3,861.62                        | 3,839.23                               | 22.39                     | 172.448           |                    |
| 1,100.00                                                                                 | 1,098.80              | 1,183.81              | 1,183.80              | 3.87                             | 20.69                         | 134.57                | -1,211.94                           | 3,639.74                            | 3,865.80                        | 3,841.24                               | 24.55                     | 157.457           |                    |
| 1,200.00                                                                                 | 1,198.62              | 1,283.01              | 1,283.00              | 4.23                             | 22.46                         | 134.63                | -1,211.75                           | 3,639.74                            | 3,869.89                        | 3,843.21                               | 26.68                     | 145.024           |                    |
| 1,300.00                                                                                 | 1,298.45              | 1,379.89              | 1,379.88              | 4.59                             | 24.20                         | 134.70                | -1,211.91                           | 3,639.74                            | 3,874.10                        | 3,845.33                               | 28.78                     | 134.630           |                    |
| 1,400.00                                                                                 | 1,398.27              | 1,483.29              | 1,483.27              | 4.95                             | 26.03                         | 134.76                | -1,211.94                           | 3,639.74                            | 3,878.27                        | 3,847.30                               | 30.97                     | 125.226           |                    |
| 1,500.00                                                                                 | 1,498.10              | 1,581.08              | 1,581.06              | 5.31                             | 27.77                         | 134.82                | -1,211.80                           | 3,639.74                            | 3,882.40                        | 3,849.34                               | 33.06                     | 117.423           |                    |
| 1,600.00                                                                                 | 1,597.92              | 1,682.94              | 1,682.92              | 5.67                             | 29.57                         | 134.88                | -1,211.94                           | 3,639.74                            | 3,886.62                        | 3,851.39                               | 35.22                     | 110.346           |                    |
| 1,700.00                                                                                 | 1,697.75              | 1,782.17              | 1,782.15              | 6.03                             | 31.31                         | 134.94                | -1,211.86                           | 3,639.74                            | 3,890.77                        | 3,853.44                               | 37.32                     | 104.242           |                    |
| 1,800.00                                                                                 | 1,797.57              | 1,882.59              | 1,882.57              | 6.39                             | 33.08                         | 135.01                | -1,211.94                           | 3,639.74                            | 3,894.98                        | 3,855.52                               | 39.45                     | 98.728            |                    |
| 1,900.00                                                                                 | 1,897.40              | 1,982.41              | 1,982.40              | 6.74                             | 34.85                         | 135.07                | -1,211.94                           | 3,639.74                            | 3,899.16                        | 3,857.58                               | 41.58                     | 93.772            |                    |
| 2,000.00                                                                                 | 1,997.22              | 2,080.69              | 2,080.68              | 7.10                             | 36.60                         | 135.13                | -1,211.90                           | 3,639.74                            | 3,903.34                        | 3,859.66                               | 43.68                     | 89.356            |                    |
| 2,100.00                                                                                 | 2,097.05              | 2,182.07              | 2,182.05              | 7.46                             | 38.44                         | 135.19                | -1,211.94                           | 3,639.74                            | 3,907.55                        | 3,861.67                               | 45.88                     | 85.170            |                    |
| 2,200.00                                                                                 | 2,196.87              | 2,281.13              | 2,281.12              | 7.82                             | 40.25                         | 135.25                | -1,211.73                           | 3,639.74                            | 3,911.68                        | 3,863.63                               | 48.05                     | 81.409            |                    |
| 2,300.00                                                                                 | 2,296.70              | 2,378.23              | 2,378.22              | 8.18                             | 42.03                         | 135.31                | -1,211.89                           | 3,639.74                            | 3,915.94                        | 3,865.75                               | 50.18                     | 78.031            |                    |
| 2,400.00                                                                                 | 2,396.52              | 2,481.56              | 2,481.52              | 8.54                             | 43.92                         | 135.37                | -1,211.94                           | 3,639.74                            | 3,920.16                        | 3,867.72                               | 52.44                     | 74.757            |                    |
| 2,500.00                                                                                 | 2,496.35              | 2,577.86              | 2,577.83              | 8.90                             | 45.69                         | 135.43                | -1,211.63                           | 3,639.74                            | 3,924.27                        | 3,869.71                               | 54.56                     | 71.920            |                    |
| 2,600.00                                                                                 | 2,596.18              | 2,681.22              | 2,681.18              | 9.26                             | 47.57                         | 135.50                | -1,211.94                           | 3,639.74                            | 3,928.59                        | 3,871.79                               | 56.80                     | 69.165            |                    |
| 2,700.00                                                                                 | 2,696.00              | 2,780.87              | 2,780.83              | 9.62                             | 49.34                         | 135.55                | -1,211.75                           | 3,639.74                            | 3,932.75                        | 3,873.82                               | 58.93                     | 66.739            |                    |
| 2,800.00                                                                                 | 2,795.83              | 2,877.57              | 2,877.52              | 9.98                             | 51.05                         | 135.61                | -1,211.87                           | 3,639.74                            | 3,937.02                        | 3,876.02                               | 61.00                     | 64.540            |                    |
| 2,900.00                                                                                 | 2,895.65              | 2,980.69              | 2,980.65              | 10.34                            | 52.90                         | 135.68                | -1,211.94                           | 3,639.74                            | 3,941.27                        | 3,878.07                               | 63.21                     | 62.355            |                    |
| 3,000.00                                                                                 | 2,995.48              | 3,079.22              | 3,079.18              | 10.70                            | 54.67                         | 135.73                | -1,211.89                           | 3,639.74                            | 3,945.49                        | 3,880.15                               | 65.33                     | 60.389            |                    |
| 3,100.00                                                                                 | 3,095.30              | 3,180.35              | 3,180.30              | 11.06                            | 56.49                         | 135.80                | -1,211.94                           | 3,639.74                            | 3,949.75                        | 3,882.24                               | 67.51                     | 58.506            |                    |
| 3,200.00                                                                                 | 3,195.13              | 3,280.17              | 3,280.13              | 11.42                            | 58.28                         | 135.86                | -1,211.94                           | 3,639.74                            | 3,953.99                        | 3,884.33                               | 69.66                     | 56.760            |                    |
| 3,300.00                                                                                 | 3,294.95              | 3,379.50              | 3,379.45              | 11.78                            | 60.06                         | 135.91                | -1,211.39                           | 3,639.74                            | 3,958.05                        | 3,886.24                               | 71.80                     | 55.122            |                    |
| 3,400.00                                                                                 | 3,394.78              | 3,476.74              | 3,476.68              | 12.14                            | 61.81                         | 135.97                | -1,211.52                           | 3,639.74                            | 3,962.35                        | 3,888.44                               | 73.91                     | 53.610            |                    |
| 3,500.00                                                                                 | 3,494.60              | 3,573.96              | 3,573.91              | 12.49                            | 63.56                         | 136.03                | -1,211.83                           | 3,639.74                            | 3,966.71                        | 3,890.70                               | 76.02                     | 52.183            |                    |
| 3,600.00                                                                                 | 3,594.41              | 3,679.47              | 3,679.41              | 12.85                            | 65.42                         | 58.98                 | -1,211.94                           | 3,639.74                            | 3,967.28                        | 3,889.05                               | 78.23                     | 50.713            |                    |
| 3,700.00                                                                                 | 3,693.54              | 3,778.03              | 3,777.98              | 13.19                            | 67.15                         | 37.36                 | -1,211.84                           | 3,639.74                            | 3,958.04                        | 3,877.74                               | 80.30                     | 49.290            |                    |
| 3,800.00                                                                                 | 3,790.92              | 3,873.93              | 3,873.87              | 13.52                            | 68.83                         | 31.56                 | -1,211.93                           | 3,639.74                            | 3,939.15                        | 3,856.83                               | 82.32                     | 47.854            |                    |
| 3,900.00                                                                                 | 3,885.46              | 3,970.52              | 3,970.46              | 13.84                            | 70.54                         | 29.51                 | -1,211.94                           | 3,639.74                            | 3,910.76                        | 3,826.41                               | 84.35                     | 46.363            |                    |
| 4,000.00                                                                                 | 3,976.15              | 4,060.31              | 4,060.25              | 14.17                            | 72.13                         | 29.06                 | -1,211.86                           | 3,639.74                            | 3,873.22                        | 3,786.97                               | 86.25                     | 44.906            |                    |
| 4,100.00                                                                                 | 4,061.97              | 4,147.04              | 4,146.97              | 14.50                            | 73.68                         | 29.62                 | -1,211.94                           | 3,639.74                            | 3,827.07                        | 3,738.98                               | 88.09                     | 43.445            |                    |
| 4,200.00                                                                                 | 4,142.00              | 4,227.07              | 4,227.00              | 14.84                            | 75.17                         | 30.99                 | -1,211.94                           | 3,639.74                            | 3,772.80                        | 3,682.95                               | 89.85                     | 41.990            |                    |
| 4,300.00                                                                                 | 4,215.36              | 4,298.31              | 4,298.24              | 15.20                            | 76.50                         | 33.16                 | -1,211.81                           | 3,639.74                            | 3,711.03                        | 3,619.61                               | 91.43                     | 40.591            |                    |
| 4,400.00                                                                                 | 4,281.24              | 4,366.32              | 4,366.24              | 15.57                            | 77.79                         | 36.29                 | -1,211.94                           | 3,639.74                            | 3,642.66                        | 3,549.72                               | 92.94                     | 39.193            |                    |
| 4,500.00                                                                                 | 4,338.92              | 4,424.00              | 4,423.92              | 15.98                            | 78.95                         | 40.50                 | -1,211.94                           | 3,639.74                            | 3,568.35                        | 3,474.04                               | 94.32                     | 37.834            |                    |
| 4,600.00                                                                                 | 4,389.56              | 4,474.63              | 4,474.56              | 16.42                            | 79.97                         | 42.90                 | -1,211.94                           | 3,639.74                            | 3,489.99                        | 3,394.45                               | 95.54                     | 36.531            |                    |
| 4,700.00                                                                                 | 4,439.56              | 4,522.72              | 4,522.64              | 16.90                            | 80.94                         | 43.65                 | -1,211.41                           | 3,639.74                            | 3,411.42                        | 3,314.71                               | 96.71                     | 35.274            |                    |
| 4,800.00                                                                                 | 4,486.55              | 4,566.40              | 4,566.32              | 17.42                            | 81.82                         | 50.55                 | -1,211.52                           | 3,639.74                            | 3,332.10                        | 3,234.28                               | 97.82                     | 34.064            |                    |
| 4,900.00                                                                                 | 4,518.67              | 4,596.25              | 4,596.16              | 17.96                            | 82.42                         | 64.67                 | -1,211.65                           | 3,639.74                            | 3,247.57                        | 3,148.92                               | 98.64                     | 32.922            |                    |
| 5,000.00                                                                                 | 4,533.88              | 4,610.37              | 4,610.29              | 18.51                            | 82.70                         | 82.56                 | -1,211.73                           | 3,639.74                            | 3,159.91                        | 3,060.77                               | 99.14                     | 31.874            |                    |
| 5,100.00                                                                                 | 4,536.45              | 4,612.75              | 4,612.67              | 19.06                            | 82.75                         | 87.59                 | -1,211.74                           | 3,639.74                            | 3,071.79                        | 2,972.39                               | 99.40                     | 30.903            |                    |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 5 - Wellbore #1 - Wellbore #1 |                       |                       |                  |               |                       |                        |              |                        |                         |                           |                   |           | Offset Site Error: |
|------------------------------------------------------------------------------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|-----------|--------------------|
|                                                                                          |                       |                       |                  |               |                       |                        |              |                        |                         |                           |                   |           | 0.00 usft          |
| Survey Program:                                                                          | 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) | Reference (usft) | Offset (usft) |                       | +N/-S (usft)           | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) |                           |                   |           | 0.00 usft          |
| 5,200.00                                                                                 | 4,538.42              | 4,614.58              | 4,614.49         | 19.66         | 82.79                 | 87.66                  | -1,211.76    | 3,639.74               | 2,984.40                | 2,884.71                  | 99.69             | 29.938    |                    |
| 5,300.00                                                                                 | 4,540.40              | 4,616.40              | 4,616.31         | 20.30         | 82.83                 | 87.73                  | -1,211.77    | 3,639.74               | 2,897.82                | 2,797.81                  | 100.01            | 28.975    |                    |
| 5,400.00                                                                                 | 4,542.37              | 4,618.22              | 4,618.13         | 20.99         | 82.86                 | 87.80                  | -1,211.78    | 3,639.74               | 2,812.13                | 2,711.75                  | 100.38            | 28.015    |                    |
| 5,500.00                                                                                 | 4,544.34              | 4,620.04              | 4,619.96         | 21.71         | 82.90                 | 87.87                  | -1,211.79    | 3,639.74               | 2,727.41                | 2,626.61                  | 100.80            | 27.058    |                    |
| 5,600.00                                                                                 | 4,546.31              | 4,621.86              | 4,621.78         | 22.46         | 82.94                 | 87.94                  | -1,211.80    | 3,639.74               | 2,643.76                | 2,542.49                  | 101.27            | 26.106    |                    |
| 5,700.00                                                                                 | 4,548.28              | 4,623.68              | 4,623.60         | 23.25         | 82.97                 | 88.01                  | -1,211.82    | 3,639.74               | 2,561.29                | 2,459.49                  | 101.80            | 25.160    |                    |
| 5,800.00                                                                                 | 4,550.25              | 4,625.50              | 4,625.42         | 24.06         | 83.01                 | 88.08                  | -1,211.83    | 3,639.74               | 2,480.10                | 2,377.70                  | 102.39            | 24.221    |                    |
| 5,900.00                                                                                 | 4,552.22              | 4,627.32              | 4,627.24         | 24.90         | 83.05                 | 88.15                  | -1,211.84    | 3,639.74               | 2,400.32                | 2,297.27                  | 103.05            | 23.292    |                    |
| 6,000.00                                                                                 | 4,554.19              | 4,629.14              | 4,629.06         | 25.76         | 83.08                 | 88.23                  | -1,211.85    | 3,639.74               | 2,322.12                | 2,218.33                  | 103.78            | 22.375    |                    |
| 6,100.00                                                                                 | 4,556.17              | 4,641.30              | 4,641.17         | 26.64         | 83.33                 | 88.70                  | -1,211.94    | 3,639.74               | 2,245.66                | 2,140.86                  | 104.80            | 21.428    |                    |
| 6,200.00                                                                                 | 4,558.14              | 4,643.27              | 4,643.14         | 27.53         | 83.37                 | 88.77                  | -1,211.94    | 3,639.74               | 2,171.09                | 2,065.39                  | 105.69            | 20.541    |                    |
| 6,300.00                                                                                 | 4,560.11              | 4,645.24              | 4,645.11         | 28.45         | 83.41                 | 88.85                  | -1,211.94    | 3,639.74               | 2,098.63                | 1,991.96                  | 106.67            | 19.674    |                    |
| 6,400.00                                                                                 | 4,562.08              | 4,647.21              | 4,647.08         | 29.38         | 83.45                 | 88.93                  | -1,211.94    | 3,639.74               | 2,028.51                | 1,920.77                  | 107.74            | 18.828    |                    |
| 6,500.00                                                                                 | 4,564.05              | 4,649.18              | 4,649.05         | 30.32         | 83.50                 | 89.00                  | -1,211.94    | 3,639.74               | 1,960.98                | 1,852.09                  | 108.89            | 18.009    |                    |
| 6,600.00                                                                                 | 4,566.02              | 4,651.16              | 4,651.02         | 31.27         | 83.54                 | 89.08                  | -1,211.94    | 3,639.74               | 1,896.32                | 1,786.19                  | 110.13            | 17.220    |                    |
| 6,700.00                                                                                 | 4,567.99              | 4,653.13              | 4,652.99         | 32.24         | 83.58                 | 89.16                  | -1,211.94    | 3,639.74               | 1,834.83                | 1,723.39                  | 111.45            | 16.464    |                    |
| 6,800.00                                                                                 | 4,569.96              | 4,655.10              | 4,654.96         | 33.21         | 83.62                 | 89.23                  | -1,211.94    | 3,639.74               | 1,776.85                | 1,664.00                  | 112.85            | 15.745    |                    |
| 6,900.00                                                                                 | 4,571.94              | 4,657.07              | 4,656.94         | 34.20         | 83.66                 | 89.31                  | -1,211.94    | 3,639.74               | 1,722.72                | 1,608.40                  | 114.32            | 15.069    |                    |
| 7,000.00                                                                                 | 4,573.91              | 4,659.04              | 4,658.91         | 35.19         | 83.71                 | 89.39                  | -1,211.94    | 3,639.74               | 1,672.81                | 1,556.97                  | 115.85            | 14.440    |                    |
| 7,100.00                                                                                 | 4,575.88              | 4,661.01              | 4,660.88         | 36.19         | 83.75                 | 89.46                  | -1,211.94    | 3,639.74               | 1,627.53                | 1,510.12                  | 117.42            | 13.861    |                    |
| 7,200.00                                                                                 | 4,577.85              | 4,662.98              | 4,662.85         | 37.20         | 83.79                 | 89.54                  | -1,211.94    | 3,639.74               | 1,587.26                | 1,468.26                  | 119.00            | 13.338    |                    |
| 7,300.00                                                                                 | 4,579.82              | 4,664.95              | 4,664.82         | 38.21         | 83.83                 | 89.62                  | -1,211.94    | 3,639.74               | 1,552.40                | 1,431.81                  | 120.59            | 12.874    |                    |
| 7,400.00                                                                                 | 4,581.79              | 4,666.93              | 4,666.79         | 39.23         | 83.88                 | 89.69                  | -1,211.94    | 3,639.74               | 1,523.31                | 1,401.17                  | 122.14            | 12.472    |                    |
| 7,500.00                                                                                 | 4,583.76              | 4,668.90              | 4,668.76         | 40.26         | 83.92                 | 89.77                  | -1,211.94    | 3,639.74               | 1,500.33                | 1,376.70                  | 123.63            | 12.136    |                    |
| 7,600.00                                                                                 | 4,585.73              | 4,670.87              | 4,670.73         | 41.29         | 83.96                 | 89.85                  | -1,211.94    | 3,639.74               | 1,483.74                | 1,358.72                  | 125.02            | 11.868    |                    |
| 7,700.00                                                                                 | 4,587.70              | 4,672.84              | 4,672.70         | 42.33         | 84.00                 | 89.93                  | -1,211.94    | 3,639.74               | 1,473.77                | 1,347.48                  | 126.29            | 11.670    |                    |
| 7,797.54                                                                                 | 4,589.63              | 4,674.76              | 4,674.63         | 43.34         | 84.04                 | 90.00                  | -1,211.94    | 3,639.74               | 1,470.54                | 1,343.16                  | 127.38            | 11.544 CC |                    |
| 7,800.00                                                                                 | 4,589.68              | 4,674.81              | 4,674.68         | 43.37         | 84.04                 | 90.00                  | -1,211.94    | 3,639.74               | 1,470.54                | 1,343.13                  | 127.41            | 11.542 ES |                    |
| 7,900.00                                                                                 | 4,591.65              | 4,676.78              | 4,676.65         | 44.41         | 84.09                 | 90.08                  | -1,211.94    | 3,639.74               | 1,474.10                | 1,345.74                  | 128.36            | 11.484 SF |                    |
| 8,000.00                                                                                 | 4,593.62              | 4,678.75              | 4,678.62         | 45.46         | 84.13                 | 90.16                  | -1,211.94    | 3,639.74               | 1,484.41                | 1,355.27                  | 129.13            | 11.495    |                    |
| 8,100.00                                                                                 | 4,595.59              | 4,680.72              | 4,680.59         | 46.52         | 84.17                 | 90.23                  | -1,211.94    | 3,639.74               | 1,501.31                | 1,371.59                  | 129.72            | 11.573    |                    |
| 8,200.00                                                                                 | 4,597.56              | 4,682.69              | 4,682.56         | 47.57         | 84.21                 | 90.31                  | -1,211.94    | 3,639.74               | 1,524.60                | 1,394.46                  | 130.14            | 11.715    |                    |
| 8,300.00                                                                                 | 4,599.53              | 4,684.67              | 4,684.53         | 48.63         | 84.25                 | 90.39                  | -1,211.94    | 3,639.74               | 1,553.98                | 1,423.60                  | 130.38            | 11.919    |                    |
| 8,400.00                                                                                 | 4,601.50              | 4,686.64              | 4,686.50         | 49.69         | 84.30                 | 90.46                  | -1,211.94    | 3,639.74               | 1,589.12                | 1,458.65                  | 130.47            | 12.180    |                    |
| 8,500.00                                                                                 | 4,603.47              | 4,688.61              | 4,688.47         | 50.76         | 84.34                 | 90.54                  | -1,211.94    | 3,639.74               | 1,629.65                | 1,499.22                  | 130.43            | 12.495    |                    |
| 8,600.00                                                                                 | 4,605.45              | 4,690.58              | 4,690.45         | 51.83         | 84.38                 | 90.62                  | -1,211.94    | 3,639.74               | 1,675.16                | 1,544.89                  | 130.27            | 12.859    |                    |
| 8,700.00                                                                                 | 4,607.42              | 4,692.55              | 4,692.42         | 52.90         | 84.42                 | 90.69                  | -1,211.94    | 3,639.74               | 1,725.28                | 1,595.26                  | 130.03            | 13.269    |                    |
| 8,800.00                                                                                 | 4,609.39              | 4,694.52              | 4,694.39         | 53.97         | 84.47                 | 90.77                  | -1,211.94    | 3,639.74               | 1,779.61                | 1,649.91                  | 129.70            | 13.721    |                    |
| 8,900.00                                                                                 | 4,611.36              | 4,696.49              | 4,696.36         | 55.04         | 84.51                 | 90.85                  | -1,211.94    | 3,639.74               | 1,837.78                | 1,708.45                  | 129.32            | 14.211    |                    |
| 9,000.00                                                                                 | 4,613.33              | 4,698.46              | 4,698.33         | 56.12         | 84.55                 | 90.92                  | -1,211.94    | 3,639.74               | 1,899.43                | 1,770.53                  | 128.90            | 14.735    |                    |
| 9,100.00                                                                                 | 4,615.30              | 4,700.44              | 4,700.30         | 57.20         | 84.59                 | 91.00                  | -1,211.94    | 3,639.74               | 1,964.24                | 1,835.78                  | 128.46            | 15.291    |                    |
| 9,200.00                                                                                 | 4,617.27              | 4,702.41              | 4,702.27         | 58.28         | 84.63                 | 91.08                  | -1,211.94    | 3,639.74               | 2,031.90                | 1,903.91                  | 127.99            | 15.875    |                    |
| 9,300.00                                                                                 | 4,619.24              | 4,704.38              | 4,704.24         | 59.36         | 84.68                 | 91.15                  | -1,211.94    | 3,639.74               | 2,102.14                | 1,974.62                  | 127.52            | 16.485    |                    |
| 9,400.00                                                                                 | 4,621.22              | 4,706.35              | 4,706.22         | 60.45         | 84.72                 | 91.23                  | -1,211.94    | 3,639.74               | 2,174.71                | 2,047.66                  | 127.05            | 17.118    |                    |
| 9,500.00                                                                                 | 4,623.19              | 4,708.32              | 4,708.19         | 61.53         | 84.76                 | 91.31                  | -1,211.94    | 3,639.74               | 2,249.38                | 2,122.81                  | 126.58            | 17.771    |                    |
| 9,600.00                                                                                 | 4,625.16              | 4,710.29              | 4,710.16         | 62.62         | 84.80                 | 91.38                  | -1,211.94    | 3,639.74               | 2,325.96                | 2,199.84                  | 126.12            | 18.443    |                    |
| 9,700.00                                                                                 | 4,627.13              | 4,712.26              | 4,712.13         | 63.71         | 84.85                 | 91.46                  | -1,211.94    | 3,639.74               | 2,404.25                | 2,278.59                  | 125.67            | 19.132    |                    |
| 9,800.00                                                                                 | 4,629.10              | 4,714.23              | 4,714.10         | 64.80         | 84.89                 | 91.54                  | -1,211.94    | 3,639.74               | 2,484.10                | 2,358.87                  | 125.23            | 19.836    |                    |
| 9,900.00                                                                                 | 4,631.07              | 4,716.21              | 4,716.07         | 65.89         | 84.93                 | 91.61                  | -1,211.94    | 3,639.74               | 2,565.37                | 2,440.55                  | 124.82            | 20.553    |                    |
| 10,000.00                                                                                | 4,633.04              | 4,718.18              | 4,718.04         | 66.98         | 84.97                 | 91.69                  | -1,211.94    | 3,639.74               | 2,647.91                | 2,523.50                  | 124.41            | 21.283    |                    |
| 10,099.28                                                                                | 4,635.00              | 4,720.13              | 4,720.00         | 68.06         | 85.01                 | 91.77                  | -1,211.94    | 3,639.74               | 2,731.01                | 2,606.98                  | 124.03            | 22.018    |                    |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | 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 |              | 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                  | 79.00                 | 79.00                 | 0.00                             | 1.38                          | 97.15                 | -540.24                | 4,305.83     | 4,339.59                        |                         |                           |                   |                    |
| 100.00                                                                                   | 100.00                | 179.00                | 179.00                | 0.29                             | 3.13                          | 97.15                 | -540.24                | 4,305.83     | 4,339.59                        | 4,336.17                | 3.42                      | 1,270.736         |                    |
| 200.00                                                                                   | 200.00                | 279.00                | 279.00                | 0.65                             | 4.88                          | 97.15                 | -540.24                | 4,305.83     | 4,339.59                        | 4,334.06                | 5.53                      | 784.903           |                    |
| 300.00                                                                                   | 300.00                | 379.00                | 379.00                | 1.00                             | 6.67                          | 97.15                 | -540.24                | 4,305.83     | 4,339.59                        | 4,331.92                | 7.67                      | 565.805           |                    |
| 400.00                                                                                   | 399.98                | 477.38                | 477.38                | 1.36                             | 8.42                          | 122.91                | -540.14                | 4,305.83     | 4,340.53                        | 4,330.74                | 9.78                      | 443.774           |                    |
| 500.00                                                                                   | 499.85                | 578.85                | 578.85                | 1.73                             | 10.20                         | 122.94                | -540.24                | 4,305.83     | 4,343.30                        | 4,331.37                | 11.92                     | 364.264           |                    |
| 600.00                                                                                   | 599.67                | 678.49                | 678.48                | 2.08                             | 11.95                         | 123.00                | -540.13                | 4,305.83     | 4,346.50                        | 4,332.48                | 14.02                     | 309.958           |                    |
| 700.00                                                                                   | 699.50                | 777.69                | 777.69                | 2.44                             | 13.68                         | 123.07                | -540.22                | 4,305.83     | 4,349.74                        | 4,333.63                | 16.12                     | 269.911           |                    |
| 800.00                                                                                   | 799.32                | 878.33                | 878.32                | 2.80                             | 15.53                         | 123.14                | -540.24                | 4,305.83     | 4,352.98                        | 4,334.66                | 18.32                     | 237.594           |                    |
| 900.00                                                                                   | 899.15                | 977.79                | 977.78                | 3.15                             | 17.37                         | 123.20                | -540.15                | 4,305.83     | 4,356.20                        | 4,335.69                | 20.52                     | 212.341           |                    |
| 1,000.00                                                                                 | 998.97                | 1,077.99              | 1,077.97              | 3.51                             | 19.26                         | 123.27                | -540.24                | 4,305.83     | 4,359.46                        | 4,336.69                | 22.77                     | 191.498           |                    |
| 1,100.00                                                                                 | 1,098.80              | 1,177.82              | 1,177.80              | 3.87                             | 21.30                         | 123.33                | -540.24                | 4,305.83     | 4,362.71                        | 4,337.54                | 25.17                     | 173.364           |                    |
| 1,200.00                                                                                 | 1,198.62              | 1,275.27              | 1,275.24              | 4.23                             | 23.30                         | 123.39                | -539.85                | 4,305.83     | 4,365.91                        | 4,338.40                | 27.52                     | 158.665           |                    |
| 1,300.00                                                                                 | 1,298.45              | 1,377.52              | 1,377.45              | 4.59                             | 25.44                         | 123.46                | -540.24                | 4,305.83     | 4,369.22                        | 4,339.20                | 30.02                     | 145.522           |                    |
| 1,400.00                                                                                 | 1,398.27              | 1,474.77              | 1,474.69              | 4.95                             | 27.59                         | 123.52                | -539.82                | 4,305.83     | 4,372.43                        | 4,339.90                | 32.53                     | 134.407           |                    |
| 1,500.00                                                                                 | 1,498.10              | 1,577.22              | 1,577.10              | 5.31                             | 29.90                         | 123.59                | -540.24                | 4,305.83     | 4,375.76                        | 4,340.57                | 35.20                     | 124.326           |                    |
| 1,600.00                                                                                 | 1,597.92              | 1,675.97              | 1,675.84              | 5.67                             | 32.17                         | 123.64                | -539.48                | 4,305.83     | 4,378.93                        | 4,341.11                | 37.83                     | 115.760           |                    |
| 1,700.00                                                                                 | 1,697.75              | 1,770.27              | 1,770.13              | 6.03                             | 34.35                         | 123.71                | -540.08                | 4,305.83     | 4,382.30                        | 4,341.95                | 40.36                     | 108.588           |                    |
| 1,800.00                                                                                 | 1,797.57              | 1,876.77              | 1,876.57              | 6.39                             | 36.60                         | 123.78                | -540.24                | 4,305.83     | 4,385.61                        | 4,342.64                | 42.97                     | 102.061           |                    |
| 1,900.00                                                                                 | 1,897.40              | 1,972.84              | 1,972.63              | 6.74                             | 38.61                         | 123.84                | -539.66                | 4,305.83     | 4,388.82                        | 4,343.49                | 45.34                     | 96.806            |                    |
| 2,000.00                                                                                 | 1,997.22              | 2,076.46              | 2,076.22              | 7.10                             | 40.67                         | 123.91                | -540.24                | 4,305.83     | 4,392.20                        | 4,344.44                | 47.76                     | 91.960            |                    |
| 2,100.00                                                                                 | 2,097.05              | 2,175.97              | 2,175.74              | 7.46                             | 42.51                         | 123.97                | -539.95                | 4,305.83     | 4,395.47                        | 4,345.51                | 49.96                     | 87.983            |                    |
| 2,200.00                                                                                 | 2,196.87              | 2,273.53              | 2,273.29              | 7.82                             | 44.31                         | 124.03                | -540.17                | 4,305.83     | 4,398.81                        | 4,346.69                | 52.12                     | 84.401            |                    |
| 2,300.00                                                                                 | 2,296.70              | 2,375.94              | 2,375.70              | 8.18                             | 46.25                         | 124.10                | -540.24                | 4,305.83     | 4,402.13                        | 4,347.72                | 54.41                     | 80.906            |                    |
| 2,400.00                                                                                 | 2,396.52              | 2,474.36              | 2,474.12              | 8.54                             | 48.11                         | 124.16                | -540.01                | 4,305.83     | 4,405.42                        | 4,348.79                | 56.63                     | 77.787            |                    |
| 2,500.00                                                                                 | 2,496.35              | 2,575.61              | 2,575.35              | 8.90                             | 50.03                         | 124.23                | -540.24                | 4,305.83     | 4,408.78                        | 4,349.87                | 58.91                     | 74.836            |                    |
| 2,600.00                                                                                 | 2,596.18              | 2,675.17              | 2,674.91              | 9.26                             | 51.92                         | 124.29                | -539.86                | 4,305.83     | 4,412.06                        | 4,350.90                | 61.16                     | 72.141            |                    |
| 2,700.00                                                                                 | 2,696.00              | 2,771.90              | 2,771.63              | 9.62                             | 53.76                         | 124.35                | -540.12                | 4,305.83     | 4,415.43                        | 4,352.08                | 63.35                     | 69.698            |                    |
| 2,800.00                                                                                 | 2,795.83              | 2,875.10              | 2,874.83              | 9.98                             | 55.68                         | 124.42                | -540.24                | 4,305.83     | 4,418.79                        | 4,353.16                | 65.63                     | 67.329            |                    |
| 2,900.00                                                                                 | 2,895.65              | 2,974.28              | 2,974.00              | 10.34                            | 57.51                         | 124.48                | -539.91                | 4,305.83     | 4,422.09                        | 4,354.27                | 67.82                     | 65.199            |                    |
| 3,000.00                                                                                 | 2,995.48              | 3,072.05              | 3,071.78              | 10.70                            | 59.32                         | 124.54                | -540.15                | 4,305.83     | 4,425.48                        | 4,355.49                | 69.99                     | 63.227            |                    |
| 3,100.00                                                                                 | 3,095.30              | 3,174.59              | 3,174.30              | 11.06                            | 61.15                         | 124.61                | -540.24                | 4,305.83     | 4,428.85                        | 4,356.68                | 72.18                     | 61.360            |                    |
| 3,200.00                                                                                 | 3,195.13              | 3,273.06              | 3,272.78              | 11.42                            | 62.88                         | 124.67                | -540.00                | 4,305.83     | 4,432.18                        | 4,357.91                | 74.27                     | 59.675            |                    |
| 3,300.00                                                                                 | 3,294.95              | 3,374.24              | 3,373.95              | 11.78                            | 64.68                         | 124.73                | -540.24                | 4,305.83     | 4,435.59                        | 4,359.16                | 76.43                     | 58.037            |                    |
| 3,400.00                                                                                 | 3,394.78              | 3,474.07              | 3,473.78              | 12.14                            | 66.49                         | 124.80                | -540.24                | 4,305.83     | 4,438.96                        | 4,360.37                | 78.59                     | 56.480            |                    |
| 3,500.00                                                                                 | 3,494.60              | 3,573.89              | 3,573.60              | 12.49                            | 68.30                         | 124.86                | -540.24                | 4,305.83     | 4,442.34                        | 4,361.58                | 80.76                     | 55.007            |                    |
| 3,600.00                                                                                 | 3,594.41              | 3,673.23              | 3,672.94              | 12.85                            | 70.10                         | 124.86                | -540.09                | 4,305.83     | 4,441.79                        | 4,358.88                | 82.91                     | 53.572            |                    |
| 3,700.00                                                                                 | 3,693.54              | 3,771.88              | 3,771.59              | 13.19                            | 71.88                         | 124.86                | -540.19                | 4,305.83     | 4,431.05                        | 4,356.01                | 85.04                     | 52.105            |                    |
| 3,800.00                                                                                 | 3,790.92              | 3,870.22              | 3,869.92              | 13.52                            | 73.72                         | 124.86                | -540.24                | 4,305.83     | 4,410.10                        | 4,352.89                | 87.21                     | 50.569            |                    |
| 3,900.00                                                                                 | 3,885.46              | 3,963.66              | 3,963.35              | 13.84                            | 75.49                         | 124.86                | -539.88                | 4,305.83     | 4,379.12                        | 4,353.81                | 89.30                     | 49.037            |                    |
| 4,000.00                                                                                 | 3,976.15              | 4,051.25              | 4,050.93              | 14.17                            | 77.16                         | 124.86                | -540.20                | 4,305.83     | 4,338.64                        | 4,353.81                | 91.27                     | 47.538            |                    |
| 4,100.00                                                                                 | 4,061.97              | 4,141.29              | 4,140.97              | 14.50                            | 78.83                         | 124.86                | -540.24                | 4,305.83     | 4,288.95                        | 4,353.81                | 93.22                     | 46.009            |                    |
| 4,200.00                                                                                 | 4,142.00              | 4,220.34              | 4,220.02              | 14.84                            | 80.30                         | 124.86                | -539.97                | 4,305.83     | 4,230.60                        | 4,353.81                | 94.94                     | 44.560            |                    |
| 4,300.00                                                                                 | 4,215.36              | 4,291.76              | 4,291.44              | 15.20                            | 81.63                         | 124.86                | -540.16                | 4,305.83     | 4,164.38                        | 4,353.81                | 96.49                     | 43.157            |                    |
| 4,400.00                                                                                 | 4,281.24              | 4,360.57              | 4,360.24              | 15.57                            | 82.91                         | 124.86                | -540.24                | 4,305.83     | 4,090.92                        | 4,353.81                | 97.97                     | 41.757            |                    |
| 4,500.00                                                                                 | 4,338.92              | 4,418.25              | 4,417.92              | 15.98                            | 83.98                         | 124.86                | -540.24                | 4,305.83     | 4,011.05                        | 4,353.81                | 99.21                     | 40.429            |                    |
| 4,600.00                                                                                 | 4,389.56              | 4,468.89              | 4,468.56              | 16.42                            | 84.92                         | 124.86                | -540.24                | 4,305.83     | 3,926.65                        | 4,353.81                | 100.30                    | 39.151            |                    |
| 4,700.00                                                                                 | 4,439.56              | 4,517.99              | 4,517.66              | 16.90                            | 85.83                         | 124.86                | -539.88                | 4,305.83     | 3,841.88                        | 4,353.81                | 101.35                    | 37.908            |                    |
| 4,800.00                                                                                 | 4,486.55              | 4,564.02              | 4,563.69              | 17.42                            | 86.69                         | 124.86                | -539.97                | 4,305.83     | 3,755.73                        | 4,353.81                | 102.35                    | 36.696            |                    |
| 4,900.00                                                                                 | 4,518.67              | 4,595.48              | 4,595.14              | 17.96                            | 87.27                         | 124.86                | -540.06                | 4,305.83     | 3,663.46                        | 4,353.81                | 103.05                    | 35.550            |                    |
| 5,000.00                                                                                 | 4,533.88              | 4,610.37              | 4,610.03              | 18.51                            | 87.55                         | 124.86                | -540.12                | 4,305.83     | 3,567.27                        | 4,353.81                | 103.42                    | 34.494            |                    |
| 5,100.00                                                                                 | 4,536.45              | 4,612.88              | 4,612.54              | 19.06                            | 87.59                         | 124.86                | -540.12                | 4,305.83     | 3,470.00                        | 4,353.81                | 103.54                    | 33.515            |                    |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | 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                                                            |                       | Reference             |                       | 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            |                    |           |
| 5,200.00                                                                                | 4,538.42              | 4,614.80              | 4,614.47              | 19.66            | 87.63         | 85.24                 | -540.13      | 4,305.83               | 3,372.86               | 3,269.21                | 103.65                    | 32.541            |                    |                    |           |
| 5,300.00                                                                                | 4,540.40              | 4,616.73              | 4,616.39              | 20.30            | 87.66         | 85.37                 | -540.14      | 4,305.83               | 3,275.90               | 3,172.12                | 103.78                    | 31.566            |                    |                    |           |
| 5,400.00                                                                                | 4,542.37              | 4,618.65              | 4,618.32              | 20.99            | 87.70         | 85.51                 | -540.15      | 4,305.83               | 3,179.12               | 3,075.20                | 103.92                    | 30.592            |                    |                    |           |
| 5,500.00                                                                                | 4,544.34              | 4,620.58              | 4,620.24              | 21.71            | 87.74         | 85.64                 | -540.16      | 4,305.83               | 3,082.55               | 2,978.47                | 104.08                    | 29.618            |                    |                    |           |
| 5,600.00                                                                                | 4,546.31              | 4,622.50              | 4,622.16              | 22.46            | 87.77         | 85.78                 | -540.16      | 4,305.83               | 2,986.19               | 2,881.94                | 104.25                    | 28.644            |                    |                    |           |
| 5,700.00                                                                                | 4,548.28              | 4,624.42              | 4,624.09              | 23.25            | 87.81         | 85.91                 | -540.17      | 4,305.83               | 2,890.09               | 2,785.65                | 104.44                    | 27.671            |                    |                    |           |
| 5,800.00                                                                                | 4,550.25              | 4,626.35              | 4,626.01              | 24.06            | 87.84         | 86.05                 | -540.18      | 4,305.83               | 2,794.26               | 2,689.60                | 104.66                    | 26.698            |                    |                    |           |
| 5,900.00                                                                                | 4,552.22              | 4,628.27              | 4,627.93              | 24.90            | 87.88         | 86.18                 | -540.19      | 4,305.83               | 2,698.73               | 2,593.83                | 104.90                    | 25.726            |                    |                    |           |
| 6,000.00                                                                                | 4,554.19              | 4,630.19              | 4,629.86              | 25.76            | 87.91         | 86.32                 | -540.20      | 4,305.83               | 2,603.53               | 2,498.36                | 105.17                    | 24.755            |                    |                    |           |
| 6,100.00                                                                                | 4,556.17              | 4,632.11              | 4,631.78              | 26.64            | 87.95         | 86.45                 | -540.20      | 4,305.83               | 2,508.71               | 2,403.24                | 105.47                    | 23.785            |                    |                    |           |
| 6,200.00                                                                                | 4,558.14              | 4,634.04              | 4,633.70              | 27.53            | 87.99         | 86.59                 | -540.21      | 4,305.83               | 2,414.30               | 2,308.49                | 105.81                    | 22.817            |                    |                    |           |
| 6,300.00                                                                                | 4,560.11              | 4,635.96              | 4,635.62              | 28.45            | 88.02         | 86.73                 | -540.22      | 4,305.83               | 2,320.36               | 2,214.16                | 106.20                    | 21.850            |                    |                    |           |
| 6,400.00                                                                                | 4,562.08              | 4,641.42              | 4,641.08              | 29.38            | 88.12         | 87.11                 | -540.24      | 4,305.83               | 2,226.95               | 2,120.26                | 106.69                    | 20.873            |                    |                    |           |
| 6,500.00                                                                                | 4,564.05              | 4,643.40              | 4,643.05              | 30.32            | 88.16         | 87.25                 | -540.24      | 4,305.83               | 2,134.12               | 2,026.95                | 107.18                    | 19.912            |                    |                    |           |
| 6,600.00                                                                                | 4,566.02              | 4,645.37              | 4,645.02              | 31.27            | 88.19         | 87.39                 | -540.24      | 4,305.83               | 2,041.98               | 1,934.25                | 107.73                    | 18.955            |                    |                    |           |
| 6,700.00                                                                                | 4,567.99              | 4,647.34              | 4,646.99              | 32.24            | 88.23         | 87.53                 | -540.24      | 4,305.83               | 1,950.60               | 1,842.25                | 108.35                    | 18.003            |                    |                    |           |
| 6,800.00                                                                                | 4,569.96              | 4,649.31              | 4,648.96              | 33.21            | 88.26         | 87.67                 | -540.24      | 4,305.83               | 1,860.11               | 1,751.05                | 109.06                    | 17.056            |                    |                    |           |
| 6,900.00                                                                                | 4,571.94              | 4,651.28              | 4,650.94              | 34.20            | 88.30         | 87.81                 | -540.24      | 4,305.83               | 1,770.64               | 1,660.78                | 109.86                    | 16.117            |                    |                    |           |
| 7,000.00                                                                                | 4,573.91              | 4,653.25              | 4,652.91              | 35.19            | 88.33         | 87.94                 | -540.24      | 4,305.83               | 1,682.36               | 1,571.59                | 110.77                    | 15.188            |                    |                    |           |
| 7,100.00                                                                                | 4,575.88              | 4,655.22              | 4,654.88              | 36.19            | 88.37         | 88.08                 | -540.24      | 4,305.83               | 1,595.46               | 1,483.65                | 111.81                    | 14.270            |                    |                    |           |
| 7,200.00                                                                                | 4,577.85              | 4,657.19              | 4,656.85              | 37.20            | 88.40         | 88.22                 | -540.24      | 4,305.83               | 1,510.17               | 1,397.19                | 112.99                    | 13.366            |                    |                    |           |
| 7,300.00                                                                                | 4,579.82              | 4,659.17              | 4,658.82              | 38.21            | 88.44         | 88.36                 | -540.24      | 4,305.83               | 1,426.80               | 1,312.48                | 114.32                    | 12.481            |                    |                    |           |
| 7,400.00                                                                                | 4,581.79              | 4,661.14              | 4,660.79              | 39.23            | 88.47         | 88.50                 | -540.24      | 4,305.83               | 1,345.69               | 1,229.85                | 115.83                    | 11.617            |                    |                    |           |
| 7,500.00                                                                                | 4,583.76              | 4,663.11              | 4,662.76              | 40.26            | 88.51         | 88.64                 | -540.24      | 4,305.83               | 1,267.28               | 1,149.74                | 117.54                    | 10.782            |                    |                    |           |
| 7,600.00                                                                                | 4,585.73              | 4,665.08              | 4,664.73              | 41.29            | 88.54         | 88.78                 | -540.24      | 4,305.83               | 1,192.10               | 1,072.64                | 119.46                    | 9.979             |                    |                    |           |
| 7,700.00                                                                                | 4,587.70              | 4,667.05              | 4,666.70              | 42.33            | 88.58         | 88.92                 | -540.24      | 4,305.83               | 1,120.80               | 999.22                  | 121.59                    | 9.218             |                    |                    |           |
| 7,800.00                                                                                | 4,589.68              | 4,669.02              | 4,668.68              | 43.37            | 88.61         | 89.06                 | -540.24      | 4,305.83               | 1,054.18               | 930.25                  | 123.92                    | 8.507             |                    |                    |           |
| 7,900.00                                                                                | 4,591.65              | 4,670.99              | 4,670.65              | 44.41            | 88.65         | 89.20                 | -540.24      | 4,305.83               | 993.16                 | 866.72                  | 126.44                    | 7.855             |                    |                    |           |
| 8,000.00                                                                                | 4,593.62              | 4,672.96              | 4,672.62              | 45.46            | 88.68         | 89.34                 | -540.24      | 4,305.83               | 938.86                 | 809.77                  | 129.09                    | 7.273             |                    |                    |           |
| 8,100.00                                                                                | 4,595.59              | 4,674.94              | 4,674.59              | 46.52            | 88.72         | 89.48                 | -540.24      | 4,305.83               | 892.48                 | 760.72                  | 131.76                    | 6.774             |                    |                    |           |
| 8,200.00                                                                                | 4,597.56              | 4,676.91              | 4,676.56              | 47.57            | 88.75         | 89.62                 | -540.24      | 4,305.83               | 855.32                 | 721.01                  | 134.31                    | 6.368             |                    |                    |           |
| 8,300.00                                                                                | 4,599.53              | 4,678.88              | 4,678.53              | 48.63            | 88.79         | 89.76                 | -540.24      | 4,305.83               | 828.63                 | 692.05                  | 136.58                    | 6.067             |                    |                    |           |
| 8,400.00                                                                                | 4,601.50              | 4,680.85              | 4,680.50              | 49.69            | 88.82         | 89.90                 | -540.24      | 4,305.83               | 813.44                 | 675.05                  | 138.38                    | 5.878             |                    |                    |           |
| 8,474.82                                                                                | 4,602.98              | 4,682.32              | 4,681.98              | 50.49            | 88.85         | 90.00                 | -540.24      | 4,305.83               | 809.99                 | 670.66                  | 139.33                    | 5.813 CC, ES      |                    |                    |           |
| 8,500.00                                                                                | 4,603.47              | 4,682.82              | 4,682.47              | 50.76            | 88.86         | 90.04                 | -540.24      | 4,305.83               | 810.38                 | 670.81                  | 139.57                    | 5.806 SF          |                    |                    |           |
| 8,600.00                                                                                | 4,605.45              | 4,684.79              | 4,684.45              | 51.83            | 88.89         | 90.17                 | -540.24      | 4,305.83               | 819.60                 | 679.53                  | 140.07                    | 5.851             |                    |                    |           |
| 8,700.00                                                                                | 4,607.42              | 4,686.76              | 4,686.42              | 52.90            | 88.93         | 90.31                 | -540.24      | 4,305.83               | 840.70                 | 700.78                  | 139.91                    | 6.009             |                    |                    |           |
| 8,800.00                                                                                | 4,609.39              | 4,688.73              | 4,688.39              | 53.97            | 88.96         | 90.45                 | -540.24      | 4,305.83               | 872.80                 | 733.60                  | 139.20                    | 6.270             |                    |                    |           |
| 8,900.00                                                                                | 4,611.36              | 4,690.71              | 4,690.36              | 55.04            | 89.00         | 90.59                 | -540.24      | 4,305.83               | 914.76                 | 776.70                  | 138.07                    | 6.626             |                    |                    |           |
| 9,000.00                                                                                | 4,613.33              | 4,692.68              | 4,692.33              | 56.12            | 89.03         | 90.73                 | -540.24      | 4,305.83               | 965.29                 | 828.62                  | 136.67                    | 7.063             |                    |                    |           |
| 9,100.00                                                                                | 4,615.30              | 4,694.65              | 4,694.30              | 57.20            | 89.07         | 90.87                 | -540.24      | 4,305.83               | 1,023.12               | 887.98                  | 135.14                    | 7.571             |                    |                    |           |
| 9,200.00                                                                                | 4,617.27              | 4,696.62              | 4,696.27              | 58.28            | 89.10         | 91.01                 | -540.24      | 4,305.83               | 1,087.09               | 953.52                  | 133.57                    | 8.139             |                    |                    |           |
| 9,300.00                                                                                | 4,619.24              | 4,698.59              | 4,698.24              | 59.36            | 89.14         | 91.15                 | -540.24      | 4,305.83               | 1,156.17               | 1,024.14                | 132.03                    | 8.757             |                    |                    |           |
| 9,400.00                                                                                | 4,621.22              | 4,700.56              | 4,700.22              | 60.45            | 89.17         | 91.29                 | -540.24      | 4,305.83               | 1,229.51               | 1,098.95                | 130.57                    | 9.417             |                    |                    |           |
| 9,500.00                                                                                | 4,623.19              | 4,702.53              | 4,702.19              | 61.53            | 89.21         | 91.43                 | -540.24      | 4,305.83               | 1,306.39               | 1,177.20                | 129.20                    | 10.112            |                    |                    |           |
| 9,600.00                                                                                | 4,625.16              | 4,704.50              | 4,704.16              | 62.62            | 89.24         | 91.57                 | -540.24      | 4,305.83               | 1,386.22               | 1,258.29                | 127.93                    | 10.836            |                    |                    |           |
| 9,700.00                                                                                | 4,627.13              | 4,706.48              | 4,706.13              | 63.71            | 89.28         | 91.71                 | -540.24      | 4,305.83               | 1,468.52               | 1,341.75                | 126.77                    | 11.584            |                    |                    |           |
| 9,800.00                                                                                | 4,629.10              | 4,708.45              | 4,708.10              | 64.80            | 89.31         | 91.85                 | -540.24      | 4,305.83               | 1,552.90               | 1,427.18                | 125.72                    | 12.352            |                    |                    |           |
| 9,900.00                                                                                | 4,631.07              | 4,710.42              | 4,710.07              | 65.89            | 89.35         | 91.99                 | -540.24      | 4,305.83               | 1,639.03               | 1,514.28                | 124.76                    | 13.138            |                    |                    |           |
| 10,000.00                                                                               | 4,633.04              | 4,712.39              | 4,712.04              | 66.98            | 89.38         | 92.13                 | -540.24      | 4,305.83               | 1,726.66               | 1,602.77                | 123.89                    | 13.937            |                    |                    |           |
| 10,099.28                                                                               | 4,635.00              | 4,714.35              | 4,714.00              | 68.06            | 89.42         | 92.26                 | -540.24      | 4,305.83               | 1,814.91               | 1,691.81                | 123.11                    | 14.743            |                    |                    |           |

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



## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | 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     |                  | Highside<br>Toolface<br>(°) | Offset Wellbore Centre |                 | Rule Assigned:<br>Distance   |                               | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning                      |
| Measured<br>Depth<br>(usft)                                                              | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                             | +N/-S<br>(usft)        | +E/-W<br>(usft) | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) |                                 |                      |                              |
| 5,100.00                                                                                 | 4,536.45                    | 4,602.21                    | 4,601.45                    | 19.06               | 97.65            | 87.42                       | -1,200.60              | 4,298.38        | 3,663.66                     | 3,549.63                      | 114.03                          | 32.129               |                              |
| 5,200.00                                                                                 | 4,538.42                    | 4,604.18                    | 4,603.42                    | 19.66               | 97.69            | 87.50                       | -1,200.60              | 4,298.38        | 3,572.30                     | 3,458.05                      | 114.25                          | 31.266               |                              |
| 5,300.00                                                                                 | 4,540.40                    | 4,606.15                    | 4,605.40                    | 20.30               | 97.74            | 87.58                       | -1,200.60              | 4,298.38        | 3,481.43                     | 3,366.92                      | 114.51                          | 30.403               |                              |
| 5,400.00                                                                                 | 4,542.37                    | 4,608.13                    | 4,607.37                    | 20.99               | 97.78            | 87.65                       | -1,200.60              | 4,298.38        | 3,391.06                     | 3,276.27                      | 114.79                          | 29.541               |                              |
| 5,500.00                                                                                 | 4,544.34                    | 4,610.10                    | 4,609.34                    | 21.71               | 97.83            | 87.73                       | -1,200.60              | 4,298.38        | 3,301.25                     | 3,186.14                      | 115.11                          | 28.680               |                              |
| 5,600.00                                                                                 | 4,546.31                    | 4,612.07                    | 4,611.31                    | 22.46               | 97.87            | 87.81                       | -1,200.60              | 4,298.38        | 3,212.04                     | 3,096.58                      | 115.46                          | 27.819               |                              |
| 5,700.00                                                                                 | 4,548.28                    | 4,614.04                    | 4,613.28                    | 23.25               | 97.92            | 87.88                       | -1,200.60              | 4,298.38        | 3,123.48                     | 3,007.63                      | 115.85                          | 26.961               |                              |
| 5,800.00                                                                                 | 4,550.25                    | 4,616.01                    | 4,615.25                    | 24.06               | 97.96            | 87.96                       | -1,200.60              | 4,298.38        | 3,035.63                     | 2,919.34                      | 116.29                          | 26.105               |                              |
| 5,900.00                                                                                 | 4,552.22                    | 4,617.98                    | 4,617.22                    | 24.90               | 98.01            | 88.04                       | -1,200.60              | 4,298.38        | 2,948.55                     | 2,831.78                      | 116.77                          | 25.251               |                              |
| 6,000.00                                                                                 | 4,554.19                    | 4,619.95                    | 4,619.19                    | 25.76               | 98.05            | 88.11                       | -1,200.60              | 4,298.38        | 2,862.32                     | 2,745.02                      | 117.30                          | 24.401               |                              |
| 6,100.00                                                                                 | 4,556.17                    | 4,621.92                    | 4,621.17                    | 26.64               | 98.10            | 88.19                       | -1,200.60              | 4,298.38        | 2,777.01                     | 2,659.12                      | 117.89                          | 23.556               |                              |
| 6,200.00                                                                                 | 4,558.14                    | 4,623.90                    | 4,623.14                    | 27.53               | 98.14            | 88.27                       | -1,200.60              | 4,298.38        | 2,692.71                     | 2,574.18                      | 118.53                          | 22.717               |                              |
| 6,300.00                                                                                 | 4,560.11                    | 4,625.87                    | 4,625.11                    | 28.45               | 98.19            | 88.34                       | -1,200.60              | 4,298.38        | 2,609.52                     | 2,490.27                      | 119.24                          | 21.884               |                              |
| 6,400.00                                                                                 | 4,562.08                    | 4,627.84                    | 4,627.08                    | 29.38               | 98.23            | 88.42                       | -1,200.60              | 4,298.38        | 2,527.54                     | 2,407.52                      | 120.02                          | 21.059               |                              |
| 6,500.00                                                                                 | 4,564.05                    | 4,629.81                    | 4,629.05                    | 30.32               | 98.28            | 88.50                       | -1,200.60              | 4,298.38        | 2,446.90                     | 2,326.03                      | 120.87                          | 20.244               |                              |
| 6,600.00                                                                                 | 4,566.02                    | 4,631.78                    | 4,631.02                    | 31.27               | 98.32            | 88.57                       | -1,200.60              | 4,298.38        | 2,367.74                     | 2,245.95                      | 121.79                          | 19.441               |                              |
| 6,700.00                                                                                 | 4,567.99                    | 4,633.75                    | 4,632.99                    | 32.24               | 98.37            | 88.65                       | -1,200.60              | 4,298.38        | 2,290.21                     | 2,167.41                      | 122.80                          | 18.650               |                              |
| 6,800.00                                                                                 | 4,569.96                    | 4,635.72                    | 4,634.96                    | 33.21               | 98.41            | 88.73                       | -1,200.60              | 4,298.38        | 2,214.48                     | 2,090.59                      | 123.88                          | 17.875               |                              |
| 6,900.00                                                                                 | 4,571.94                    | 4,637.69                    | 4,636.94                    | 34.20               | 98.46            | 88.80                       | -1,200.60              | 4,298.38        | 2,140.74                     | 2,015.68                      | 125.06                          | 17.118               |                              |
| 7,000.00                                                                                 | 4,573.91                    | 4,639.67                    | 4,638.91                    | 35.19               | 98.50            | 88.88                       | -1,200.60              | 4,298.38        | 2,069.20                     | 1,942.88                      | 126.32                          | 16.380               |                              |
| 7,100.00                                                                                 | 4,575.88                    | 4,641.64                    | 4,640.88                    | 36.19               | 98.55            | 88.96                       | -1,200.60              | 4,298.38        | 2,000.10                     | 1,872.43                      | 127.68                          | 15.665               |                              |
| 7,200.00                                                                                 | 4,577.85                    | 4,643.61                    | 4,642.85                    | 37.20               | 98.59            | 89.04                       | -1,200.60              | 4,298.38        | 1,933.71                     | 1,804.59                      | 129.12                          | 14.976               |                              |
| 7,300.00                                                                                 | 4,579.82                    | 4,645.58                    | 4,644.82                    | 38.21               | 98.64            | 89.11                       | -1,200.60              | 4,298.38        | 1,870.31                     | 1,739.66                      | 130.65                          | 14.315               |                              |
| 7,400.00                                                                                 | 4,581.79                    | 4,647.55                    | 4,646.79                    | 39.23               | 98.68            | 89.19                       | -1,200.60              | 4,298.38        | 1,810.21                     | 1,677.95                      | 132.26                          | 13.687               |                              |
| 7,500.00                                                                                 | 4,583.76                    | 4,649.52                    | 4,648.76                    | 40.26               | 98.73            | 89.27                       | -1,200.60              | 4,298.38        | 1,753.75                     | 1,619.81                      | 133.94                          | 13.093               |                              |
| 7,600.00                                                                                 | 4,585.73                    | 4,651.49                    | 4,650.73                    | 41.29               | 98.77            | 89.34                       | -1,200.60              | 4,298.38        | 1,701.31                     | 1,565.62                      | 135.68                          | 12.539               |                              |
| 7,700.00                                                                                 | 4,587.70                    | 4,653.46                    | 4,652.70                    | 42.33               | 98.82            | 89.42                       | -1,200.60              | 4,298.38        | 1,653.25                     | 1,515.78                      | 137.47                          | 12.026               |                              |
| 7,800.00                                                                                 | 4,589.68                    | 4,655.43                    | 4,654.68                    | 43.37               | 98.86            | 89.50                       | -1,200.60              | 4,298.38        | 1,609.97                     | 1,470.70                      | 139.27                          | 11.560               |                              |
| 7,900.00                                                                                 | 4,591.65                    | 4,657.41                    | 4,656.65                    | 44.41               | 98.91            | 89.57                       | -1,200.60              | 4,298.38        | 1,571.87                     | 1,430.80                      | 141.07                          | 11.143               |                              |
| 8,000.00                                                                                 | 4,593.62                    | 4,659.38                    | 4,658.62                    | 45.46               | 98.95            | 89.65                       | -1,200.60              | 4,298.38        | 1,539.32                     | 1,396.50                      | 142.83                          | 10.777               |                              |
| 8,100.00                                                                                 | 4,595.59                    | 4,661.35                    | 4,660.59                    | 46.52               | 99.00            | 89.73                       | -1,200.60              | 4,298.38        | 1,512.70                     | 1,368.19                      | 144.52                          | 10.467               |                              |
| 8,200.00                                                                                 | 4,597.56                    | 4,663.32                    | 4,662.56                    | 47.57               | 99.04            | 89.80                       | -1,200.60              | 4,298.38        | 1,492.32                     | 1,346.22                      | 146.10                          | 10.214               |                              |
| 8,300.00                                                                                 | 4,599.53                    | 4,665.29                    | 4,664.53                    | 48.63               | 99.09            | 89.88                       | -1,200.60              | 4,298.38        | 1,478.43                     | 1,330.89                      | 147.54                          | 10.020               |                              |
| 8,400.00                                                                                 | 4,601.50                    | 4,667.26                    | 4,666.50                    | 49.69               | 99.13            | 89.96                       | -1,200.60              | 4,298.38        | 1,471.22                     | 1,322.40                      | 148.82                          | 9.886                |                              |
| 8,456.41                                                                                 | 4,602.62                    | 4,668.37                    | 4,667.62                    | 50.30               | 99.16            | 90.00                       | -1,200.60              | 4,298.38        | 1,470.13                     | 1,320.69                      | 149.45                          | 9.837 CC, ES         |                              |
| 8,500.00                                                                                 | 4,603.47                    | 4,669.23                    | 4,668.47                    | 50.76               | 99.18            | 90.03                       | -1,200.60              | 4,298.38        | 1,470.78                     | 1,320.89                      | 149.89                          | 9.812                |                              |
| 8,600.00                                                                                 | 4,605.45                    | 4,671.20                    | 4,670.45                    | 51.83               | 99.22            | 90.11                       | -1,200.60              | 4,298.38        | 1,477.13                     | 1,326.36                      | 150.76                          | 9.798 SF             |                              |
| 8,700.00                                                                                 | 4,607.42                    | 4,673.18                    | 4,672.42                    | 52.90               | 99.27            | 90.19                       | -1,200.60              | 4,298.38        | 1,490.17                     | 1,338.75                      | 151.42                          | 9.841                |                              |
| 8,800.00                                                                                 | 4,609.39                    | 4,675.15                    | 4,674.39                    | 53.97               | 99.31            | 90.26                       | -1,200.60              | 4,298.38        | 1,509.74                     | 1,357.88                      | 151.86                          | 9.942                |                              |
| 8,900.00                                                                                 | 4,611.36                    | 4,677.12                    | 4,676.36                    | 55.04               | 99.36            | 90.34                       | -1,200.60              | 4,298.38        | 1,535.58                     | 1,383.48                      | 152.09                          | 10.096               |                              |
| 9,000.00                                                                                 | 4,613.33                    | 4,679.09                    | 4,678.33                    | 56.12               | 99.40            | 90.42                       | -1,200.60              | 4,298.38        | 1,567.38                     | 1,415.23                      | 152.14                          | 10.302               |                              |
| 9,100.00                                                                                 | 4,615.30                    | 4,681.06                    | 4,680.30                    | 57.20               | 99.45            | 90.49                       | -1,200.60              | 4,298.38        | 1,604.79                     | 1,452.76                      | 152.03                          | 10.556               |                              |
| 9,200.00                                                                                 | 4,617.27                    | 4,683.03                    | 4,682.27                    | 58.28               | 99.49            | 90.57                       | -1,200.60              | 4,298.38        | 1,647.43                     | 1,495.65                      | 151.78                          | 10.854               |                              |
| 9,300.00                                                                                 | 4,619.24                    | 4,685.00                    | 4,684.24                    | 59.36               | 99.54            | 90.65                       | -1,200.60              | 4,298.38        | 1,694.90                     | 1,543.49                      | 151.41                          | 11.194               |                              |
| 9,400.00                                                                                 | 4,621.22                    | 4,686.97                    | 4,686.22                    | 60.45               | 99.58            | 90.72                       | -1,200.60              | 4,298.38        | 1,746.80                     | 1,595.86                      | 150.95                          | 11.572               |                              |
| 9,500.00                                                                                 | 4,623.19                    | 4,688.95                    | 4,688.19                    | 61.53               | 99.63            | 90.80                       | -1,200.60              | 4,298.38        | 1,802.77                     | 1,652.35                      | 150.42                          | 11.985               |                              |
| 9,600.00                                                                                 | 4,625.16                    | 4,690.92                    | 4,690.16                    | 62.62               | 99.67            | 90.88                       | -1,200.60              | 4,298.38        | 1,862.42                     | 1,712.58                      | 149.84                          | 12.430               |                              |
| 9,700.00                                                                                 | 4,627.13                    | 4,692.89                    | 4,692.13                    | 63.71               | 99.72            | 90.96                       | -1,200.60              | 4,298.38        | 1,925.41                     | 1,776.19                      | 149.22                          | 12.903               |                              |
| 9,800.00                                                                                 | 4,629.10                    | 4,694.86                    | 4,694.10                    | 64.80               | 99.77            | 91.03                       | -1,200.60              | 4,298.38        | 1,991.44                     | 1,842.85                      | 148.59                          | 13.402               |                              |
| 9,900.00                                                                                 | 4,631.07                    | 4,696.83                    | 4,696.07                    | 65.89               | 99.81            | 91.11                       | -1,200.60              | 4,298.38        | 2,060.21                     | 1,912.26                      | 147.95                          | 13.925               |                              |
| 10,000.00                                                                                | 4,633.04                    | 4,698.80                    | 4,698.04                    | 66.98               | 99.86            | 91.19                       | -1,200.60              | 4,298.38        | 2,131.44                     | 1,984.14                      | 147.31                          | 14.470               |                              |
| 10,099.28                                                                                | 4,635.00                    | 4,700.76                    | 4,700.00                    | 68.06               | 99.90            | 91.26                       | -1,200.60              | 4,298.38        | 2,204.38                     | 2,057.70                      | 146.68                          | 15.029               |                              |

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 90H                           |
| Project:           | EDDY COUNTY, NM (NAD 83 - NME) | TVD Reference:               | RKB = 20' @ 3633.00usft (AKITA 57) |
| Reference Site:    | SMITHDALE 29 FEDERAL           | MD Reference:                | RKB = 20' @ 3633.00usft (AKITA 57) |
| Site Error:        | 0.00 usft                      | North Reference:             | Grid                               |
| Reference Well:    | 90H                            | 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                       |

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 8 - Wellbore #1 - Wellbore #1 |                       |                       |                       |                                  |                               |                       |                        |              |                                 |                         |                           |                   | Offset Site Error:           |
|------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|----------------------------------|-------------------------------|-----------------------|------------------------|--------------|---------------------------------|-------------------------|---------------------------|-------------------|------------------------------|
| Survey Program: 428-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                  | 76.00                 | 76.00                 | 0.00                             | 1.37                          | 98.60                 | -551.40                | 3,645.49     | 3,686.96                        |                         |                           |                   |                              |
| 100.00                                                                                   | 100.00                | 176.00                | 176.00                | 0.29                             | 3.16                          | 98.60                 | -551.40                | 3,645.49     | 3,686.96                        | 3,683.51                | 3.45                      | 1,068.996         |                              |
| 200.00                                                                                   | 200.00                | 276.00                | 276.00                | 0.65                             | 4.96                          | 98.60                 | -551.40                | 3,645.49     | 3,686.96                        | 3,681.35                | 5.60                      | 657.908           |                              |
| 300.00                                                                                   | 300.00                | 376.00                | 376.00                | 1.00                             | 6.76                          | 98.60                 | -551.40                | 3,645.49     | 3,686.96                        | 3,679.20                | 7.76                      | 475.177           |                              |
| 400.00                                                                                   | 399.98                | 475.98                | 475.98                | 1.36                             | 8.55                          | 124.37                | -551.40                | 3,645.49     | 3,687.94                        | 3,678.03                | 9.91                      | 372.031           |                              |
| 500.00                                                                                   | 499.85                | 575.26                | 575.26                | 1.73                             | 10.34                         | 124.40                | -551.25                | 3,645.49     | 3,690.78                        | 3,678.73                | 12.05                     | 306.166           |                              |
| 600.00                                                                                   | 599.67                | 675.68                | 675.67                | 2.08                             | 12.14                         | 124.48                | -551.40                | 3,645.49     | 3,694.15                        | 3,679.94                | 14.22                     | 259.871           |                              |
| 700.00                                                                                   | 699.50                | 774.90                | 774.90                | 2.44                             | 13.92                         | 124.55                | -551.27                | 3,645.49     | 3,697.49                        | 3,681.13                | 16.36                     | 226.076           |                              |
| 800.00                                                                                   | 799.32                | 875.33                | 875.32                | 2.80                             | 15.74                         | 124.63                | -551.40                | 3,645.49     | 3,700.87                        | 3,682.34                | 18.53                     | 199.755           |                              |
| 900.00                                                                                   | 899.15                | 974.93                | 974.92                | 3.15                             | 17.55                         | 124.70                | -551.22                | 3,645.49     | 3,704.21                        | 3,683.50                | 20.70                     | 178.942           |                              |
| 1,000.00                                                                                 | 998.97                | 1,073.32              | 1,073.30              | 3.51                             | 19.35                         | 124.78                | -551.38                | 3,645.49     | 3,707.60                        | 3,684.75                | 22.85                     | 162.242           |                              |
| 1,100.00                                                                                 | 1,098.80              | 1,174.82              | 1,174.80              | 3.87                             | 21.17                         | 124.85                | -551.40                | 3,645.49     | 3,710.99                        | 3,685.95                | 25.04                     | 148.219           |                              |
| 1,200.00                                                                                 | 1,198.62              | 1,272.09              | 1,272.07              | 4.23                             | 22.92                         | 124.92                | -551.37                | 3,645.49     | 3,714.37                        | 3,687.22                | 27.14                     | 136.839           |                              |
| 1,300.00                                                                                 | 1,298.45              | 1,374.47              | 1,374.45              | 4.59                             | 24.82                         | 125.00                | -551.40                | 3,645.49     | 3,717.76                        | 3,688.37                | 29.40                     | 126.475           |                              |
| 1,400.00                                                                                 | 1,398.27              | 1,473.78              | 1,473.75              | 4.95                             | 26.66                         | 125.07                | -551.33                | 3,645.49     | 3,721.15                        | 3,689.56                | 31.59                     | 117.783           |                              |
| 1,500.00                                                                                 | 1,498.10              | 1,574.13              | 1,574.10              | 5.31                             | 28.61                         | 125.15                | -551.40                | 3,645.49     | 3,724.56                        | 3,690.66                | 33.91                     | 109.845           |                              |
| 1,600.00                                                                                 | 1,597.92              | 1,672.60              | 1,672.56              | 5.67                             | 30.66                         | 125.22                | -551.01                | 3,645.49     | 3,727.91                        | 3,691.60                | 36.31                     | 102.666           |                              |
| 1,700.00                                                                                 | 1,697.75              | 1,773.83              | 1,773.75              | 6.03                             | 32.77                         | 125.30                | -551.40                | 3,645.49     | 3,731.39                        | 3,692.61                | 38.78                     | 96.212            |                              |
| 1,800.00                                                                                 | 1,797.57              | 1,873.65              | 1,873.57              | 6.39                             | 34.89                         | 125.37                | -551.40                | 3,645.49     | 3,734.82                        | 3,693.55                | 41.26                     | 90.514            |                              |
| 1,900.00                                                                                 | 1,897.40              | 1,971.43              | 1,971.34              | 6.74                             | 36.97                         | 125.43                | -550.41                | 3,645.49     | 3,738.08                        | 3,694.38                | 43.70                     | 85.544            |                              |
| 2,000.00                                                                                 | 1,997.22              | 2,067.01              | 2,066.91              | 7.10                             | 39.00                         | 125.51                | -551.05                | 3,645.49     | 3,741.63                        | 3,695.54                | 46.09                     | 81.187            |                              |
| 2,100.00                                                                                 | 2,097.05              | 2,173.20              | 2,173.05              | 7.46                             | 41.25                         | 125.59                | -551.40                | 3,645.49     | 3,745.12                        | 3,696.43                | 48.69                     | 76.916            |                              |
| 2,200.00                                                                                 | 2,196.87              | 2,269.48              | 2,269.33              | 7.82                             | 43.28                         | 125.66                | -551.21                | 3,645.49     | 3,748.54                        | 3,697.46                | 51.08                     | 73.383            |                              |
| 2,300.00                                                                                 | 2,296.70              | 2,372.88              | 2,372.70              | 8.18                             | 45.54                         | 125.74                | -551.40                | 3,645.49     | 3,752.02                        | 3,698.33                | 53.70                     | 69.873            |                              |
| 2,400.00                                                                                 | 2,396.52              | 2,466.49              | 2,466.30              | 8.54                             | 47.61                         | 125.81                | -551.29                | 3,645.49     | 3,755.47                        | 3,699.34                | 56.13                     | 66.912            |                              |
| 2,500.00                                                                                 | 2,496.35              | 2,572.57              | 2,572.35              | 8.90                             | 49.97                         | 125.89                | -551.40                | 3,645.49     | 3,758.95                        | 3,700.11                | 58.84                     | 63.879            |                              |
| 2,600.00                                                                                 | 2,596.18              | 2,667.24              | 2,667.00              | 9.26                             | 52.07                         | 125.95                | -551.12                | 3,645.49     | 3,762.38                        | 3,701.07                | 61.31                     | 61.366            |                              |
| 2,700.00                                                                                 | 2,696.00              | 2,772.27              | 2,772.00              | 9.62                             | 54.35                         | 126.03                | -551.40                | 3,645.49     | 3,765.90                        | 3,701.96                | 63.94                     | 58.894            |                              |
| 2,800.00                                                                                 | 2,795.83              | 2,872.10              | 2,871.83              | 9.98                             | 56.49                         | 126.10                | -551.40                | 3,645.49     | 3,769.39                        | 3,702.94                | 66.44                     | 56.733            |                              |
| 2,900.00                                                                                 | 2,895.65              | 2,969.49              | 2,969.20              | 10.34                            | 58.57                         | 126.16                | -550.43                | 3,645.49     | 3,772.70                        | 3,703.82                | 68.88                     | 54.769            |                              |
| 3,000.00                                                                                 | 2,995.48              | 3,065.82              | 3,065.52              | 10.70                            | 60.64                         | 126.24                | -551.02                | 3,645.49     | 3,776.31                        | 3,705.00                | 71.31                     | 52.960            |                              |
| 3,100.00                                                                                 | 3,095.30              | 3,171.64              | 3,171.30              | 11.06                            | 62.70                         | 126.32                | -551.40                | 3,645.49     | 3,779.87                        | 3,706.14                | 73.73                     | 51.265            |                              |
| 3,200.00                                                                                 | 3,195.13              | 3,267.83              | 3,267.48              | 11.42                            | 64.48                         | 126.39                | -551.20                | 3,645.49     | 3,783.35                        | 3,707.48                | 75.86                     | 49.870            |                              |
| 3,300.00                                                                                 | 3,294.95              | 3,371.30              | 3,370.95              | 11.78                            | 66.32                         | 126.47                | -551.40                | 3,645.49     | 3,786.90                        | 3,708.84                | 78.06                     | 48.511            |                              |
| 3,400.00                                                                                 | 3,394.78              | 3,470.51              | 3,470.16              | 12.14                            | 68.05                         | 126.54                | -551.34                | 3,645.49     | 3,790.41                        | 3,710.25                | 80.16                     | 47.288            |                              |
| 3,500.00                                                                                 | 3,494.60              | 3,570.96              | 3,570.60              | 12.49                            | 69.81                         | 126.61                | -551.40                | 3,645.49     | 3,793.94                        | 3,711.67                | 82.27                     | 46.114            |                              |
| 3,600.00                                                                                 | 3,594.41              | 3,670.13              | 3,669.77              | 12.85                            | 71.55                         | 49.57                 | -551.12                | 3,645.49     | 3,793.53                        | 3,709.17                | 84.37                     | 44.965            |                              |
| 3,700.00                                                                                 | 3,693.54              | 3,766.69              | 3,766.33              | 13.19                            | 73.25                         | 27.85                 | -551.38                | 3,645.49     | 3,783.04                        | 3,696.64                | 86.40                     | 43.783            |                              |
| 3,800.00                                                                                 | 3,790.92              | 3,867.28              | 3,866.92              | 13.52                            | 74.93                         | 21.85                 | -551.40                | 3,645.49     | 3,762.36                        | 3,673.94                | 88.42                     | 42.552            |                              |
| 3,900.00                                                                                 | 3,885.46              | 3,961.02              | 3,960.66              | 13.84                            | 76.49                         | 19.47                 | -551.35                | 3,645.49     | 3,731.76                        | 3,641.46                | 90.30                     | 41.326            |                              |
| 4,000.00                                                                                 | 3,976.15              | 4,052.51              | 4,052.15              | 14.17                            | 78.05                         | 18.56                 | -551.40                | 3,645.49     | 3,691.62                        | 3,599.46                | 92.16                     | 40.057            |                              |
| 4,100.00                                                                                 | 4,061.97              | 4,138.01              | 4,137.64              | 14.50                            | 79.52                         | 18.50                 | -551.32                | 3,645.49     | 3,642.35                        | 3,548.44                | 93.91                     | 38.786            |                              |
| 4,200.00                                                                                 | 4,142.00              | 4,218.37              | 4,218.00              | 14.84                            | 80.90                         | 19.10                 | -551.40                | 3,645.49     | 3,584.57                        | 3,489.03                | 95.55                     | 37.516            |                              |
| 4,300.00                                                                                 | 4,215.36              | 4,291.73              | 4,291.36              | 15.20                            | 82.39                         | 20.32                 | -551.40                | 3,645.49     | 3,518.89                        | 3,421.63                | 97.27                     | 36.178            |                              |
| 4,400.00                                                                                 | 4,281.24              | 4,357.61              | 4,357.24              | 15.57                            | 83.73                         | 22.28                 | -551.40                | 3,645.49     | 3,446.06                        | 3,347.26                | 98.81                     | 34.876            |                              |
| 4,500.00                                                                                 | 4,338.92              | 4,415.29              | 4,414.92              | 15.98                            | 84.90                         | 25.18                 | -551.40                | 3,645.49     | 3,366.91                        | 3,266.75                | 100.16                    | 33.617            |                              |
| 4,600.00                                                                                 | 4,389.56              | 4,465.84              | 4,465.47              | 16.42                            | 85.93                         | 26.98                 | -551.03                | 3,645.49     | 3,283.21                        | 3,181.87                | 101.33                    | 32.400            |                              |
| 4,700.00                                                                                 | 4,439.56              | 4,515.36              | 4,515.00              | 16.90                            | 86.93                         | 27.62                 | -551.06                | 3,645.49     | 3,199.36                        | 3,096.87                | 102.49                    | 31.216            |                              |
| 4,800.00                                                                                 | 4,486.55              | 4,561.91              | 4,561.54              | 17.42                            | 87.88                         | 33.74                 | -551.10                | 3,645.49     | 3,114.13                        | 3,010.54                | 103.59                    | 30.061            |                              |
| 4,900.00                                                                                 | 4,518.67              | 4,593.72              | 4,593.35              | 17.96                            | 88.53                         | 49.41                 | -551.15                | 3,645.49     | 3,022.93                        | 2,918.55                | 104.38                    | 28.961            |                              |
| 5,000.00                                                                                 | 4,533.88              | 4,608.78              | 4,608.41              | 18.51                            | 88.83                         | 77.07                 | -551.18                | 3,645.49     | 2,927.96                        | 2,823.16                | 104.79                    | 27.940            |                              |
| 5,100.00                                                                                 | 4,536.45              | 4,611.32              | 4,610.95              | 19.06                            | 88.88                         | 86.12                 | -551.19                | 3,645.49     | 2,832.03                        | 2,727.09                | 104.95                    | 26.986            |                              |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | 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          |
| 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                                                                                 | 4,538.42              | 4,613.27              | 4,612.90              | 19.66                 | 88.92                  | 86.25        | -551.19                | 3,645.49                | 2,736.38                  | 2,631.28          | 105.10  | 26.036             |                    |
| 5,300.00                                                                                 | 4,540.40              | 4,615.22              | 4,614.85              | 20.30                 | 88.96                  | 86.39        | -551.19                | 3,645.49                | 2,641.05                  | 2,535.78          | 105.27  | 25.088             |                    |
| 5,400.00                                                                                 | 4,542.37              | 4,617.17              | 4,616.80              | 20.99                 | 89.00                  | 86.53        | -551.20                | 3,645.49                | 2,546.07                  | 2,440.60          | 105.47  | 24.141             |                    |
| 5,500.00                                                                                 | 4,544.34              | 4,619.12              | 4,618.75              | 21.71                 | 89.04                  | 86.67        | -551.20                | 3,645.49                | 2,451.49                  | 2,345.80          | 105.69  | 23.195             |                    |
| 5,600.00                                                                                 | 4,546.31              | 4,621.07              | 4,620.70              | 22.46                 | 89.08                  | 86.80        | -551.20                | 3,645.49                | 2,357.36                  | 2,251.42          | 105.94  | 22.252             |                    |
| 5,700.00                                                                                 | 4,548.28              | 4,623.02              | 4,622.65              | 23.25                 | 89.12                  | 86.94        | -551.21                | 3,645.49                | 2,263.73                  | 2,157.50          | 106.23  | 21.310             |                    |
| 5,800.00                                                                                 | 4,550.25              | 4,624.96              | 4,624.59              | 24.06                 | 89.16                  | 87.08        | -551.21                | 3,645.49                | 2,170.66                  | 2,064.10          | 106.56  | 20.371             |                    |
| 5,900.00                                                                                 | 4,552.22              | 4,626.91              | 4,626.54              | 24.90                 | 89.20                  | 87.21        | -551.22                | 3,645.49                | 2,078.24                  | 1,971.31          | 106.93  | 19.435             |                    |
| 6,000.00                                                                                 | 4,554.19              | 4,628.86              | 4,628.49              | 25.76                 | 89.24                  | 87.35        | -551.22                | 3,645.49                | 1,986.55                  | 1,879.18          | 107.36  | 18.503             |                    |
| 6,100.00                                                                                 | 4,556.17              | 4,630.81              | 4,630.44              | 26.64                 | 89.28                  | 87.49        | -551.23                | 3,645.49                | 1,895.70                  | 1,787.84          | 107.86  | 17.576             |                    |
| 6,200.00                                                                                 | 4,558.14              | 4,632.76              | 4,632.39              | 27.53                 | 89.32                  | 87.63        | -551.23                | 3,645.49                | 1,805.81                  | 1,697.38          | 108.43  | 16.654             |                    |
| 6,300.00                                                                                 | 4,560.11              | 4,634.71              | 4,634.34              | 28.45                 | 89.36                  | 87.76        | -551.23                | 3,645.49                | 1,717.04                  | 1,607.96          | 109.08  | 15.740             |                    |
| 6,400.00                                                                                 | 4,562.08              | 4,636.65              | 4,636.28              | 29.38                 | 89.40                  | 87.90        | -551.24                | 3,645.49                | 1,629.57                  | 1,519.73          | 109.84  | 14.836             |                    |
| 6,500.00                                                                                 | 4,564.05              | 4,638.60              | 4,638.23              | 30.32                 | 89.44                  | 88.04        | -551.24                | 3,645.49                | 1,543.62                  | 1,432.91          | 110.71  | 13.943             |                    |
| 6,600.00                                                                                 | 4,566.02              | 4,640.55              | 4,640.18              | 31.27                 | 89.48                  | 88.18        | -551.25                | 3,645.49                | 1,459.46                  | 1,347.75          | 111.70  | 13.065             |                    |
| 6,700.00                                                                                 | 4,567.99              | 4,642.50              | 4,642.13              | 32.24                 | 89.52                  | 88.32        | -551.25                | 3,645.49                | 1,377.41                  | 1,264.56          | 112.85  | 12.206             |                    |
| 6,800.00                                                                                 | 4,569.96              | 4,644.44              | 4,644.08              | 33.21                 | 89.56                  | 88.45        | -551.26                | 3,645.49                | 1,297.88                  | 1,183.72          | 114.16  | 11.369             |                    |
| 6,900.00                                                                                 | 4,571.94              | 4,646.39              | 4,646.02              | 34.20                 | 89.60                  | 88.59        | -551.26                | 3,645.49                | 1,221.36                  | 1,105.72          | 115.65  | 10.561             |                    |
| 7,000.00                                                                                 | 4,573.91              | 4,648.34              | 4,647.97              | 35.19                 | 89.64                  | 88.73        | -551.27                | 3,645.49                | 1,148.46                  | 1,031.13          | 117.33  | 9.788              |                    |
| 7,100.00                                                                                 | 4,575.88              | 4,650.29              | 4,649.92              | 36.19                 | 89.68                  | 88.87        | -551.27                | 3,645.49                | 1,079.89                  | 960.69            | 119.20  | 9.059              |                    |
| 7,200.00                                                                                 | 4,577.85              | 4,652.23              | 4,651.86              | 37.20                 | 89.72                  | 89.00        | -551.28                | 3,645.49                | 1,016.55                  | 895.29            | 121.26  | 8.383              |                    |
| 7,300.00                                                                                 | 4,579.82              | 4,654.18              | 4,653.81              | 38.21                 | 89.75                  | 89.14        | -551.28                | 3,645.49                | 959.46                    | 835.99            | 123.47  | 7.771              |                    |
| 7,400.00                                                                                 | 4,581.79              | 4,656.13              | 4,655.76              | 39.23                 | 89.79                  | 89.28        | -551.29                | 3,645.49                | 909.82                    | 784.05            | 125.77  | 7.234              |                    |
| 7,500.00                                                                                 | 4,583.76              | 4,658.08              | 4,657.71              | 40.26                 | 89.83                  | 89.42        | -551.29                | 3,645.49                | 868.88                    | 740.84            | 128.04  | 6.786              |                    |
| 7,600.00                                                                                 | 4,585.73              | 4,660.02              | 4,659.65              | 41.29                 | 89.87                  | 89.55        | -551.30                | 3,645.49                | 837.93                    | 707.77            | 130.16  | 6.438              |                    |
| 7,700.00                                                                                 | 4,587.70              | 4,661.97              | 4,661.60              | 42.33                 | 89.91                  | 89.69        | -551.30                | 3,645.49                | 818.10                    | 686.14            | 131.97  | 6.199              |                    |
| 7,800.00                                                                                 | 4,589.68              | 4,663.92              | 4,663.55              | 43.37                 | 89.95                  | 89.83        | -551.31                | 3,645.49                | 810.22                    | 676.90            | 133.32  | 6.077              |                    |
| 7,814.22                                                                                 | 4,589.96              | 4,664.19              | 4,663.82              | 43.52                 | 89.96                  | 89.85        | -551.31                | 3,645.49                | 810.10                    | 676.63            | 133.47  | 6.070 CC, ES, SF   |                    |
| 7,900.00                                                                                 | 4,591.65              | 4,665.86              | 4,665.49              | 44.41                 | 89.99                  | 89.97        | -551.31                | 3,645.49                | 814.62                    | 680.50            | 134.12  | 6.074              |                    |
| 8,000.00                                                                                 | 4,593.62              | 4,667.81              | 4,667.44              | 45.46                 | 90.03                  | 90.10        | -551.32                | 3,645.49                | 831.12                    | 696.77            | 134.35  | 6.186              |                    |
| 8,100.00                                                                                 | 4,595.59              | 4,669.76              | 4,669.39              | 46.52                 | 90.07                  | 90.24        | -551.32                | 3,645.49                | 859.01                    | 724.94            | 134.07  | 6.407              |                    |
| 8,200.00                                                                                 | 4,597.56              | 4,671.70              | 4,671.33              | 47.57                 | 90.11                  | 90.38        | -551.33                | 3,645.49                | 897.23                    | 763.86            | 133.37  | 6.727              |                    |
| 8,300.00                                                                                 | 4,599.53              | 4,673.65              | 4,673.28              | 48.63                 | 90.15                  | 90.52        | -551.33                | 3,645.49                | 944.54                    | 812.14            | 132.40  | 7.134              |                    |
| 8,400.00                                                                                 | 4,601.50              | 4,675.60              | 4,675.23              | 49.69                 | 90.19                  | 90.66        | -551.34                | 3,645.49                | 999.63                    | 868.37            | 131.26  | 7.616              |                    |
| 8,500.00                                                                                 | 4,603.47              | 4,677.54              | 4,677.17              | 50.76                 | 90.23                  | 90.79        | -551.34                | 3,645.49                | 1,061.31                  | 931.26            | 130.05  | 8.161              |                    |
| 8,600.00                                                                                 | 4,605.45              | 4,679.49              | 4,679.12              | 51.83                 | 90.27                  | 90.93        | -551.35                | 3,645.49                | 1,128.48                  | 999.65            | 128.83  | 8.760              |                    |
| 8,700.00                                                                                 | 4,607.42              | 4,681.44              | 4,681.07              | 52.90                 | 90.31                  | 91.07        | -551.35                | 3,645.49                | 1,200.24                  | 1,072.59          | 127.65  | 9.403              |                    |
| 8,800.00                                                                                 | 4,609.39              | 4,683.38              | 4,683.01              | 53.97                 | 90.35                  | 91.21        | -551.36                | 3,645.49                | 1,275.79                  | 1,149.26          | 126.54  | 10.082             |                    |
| 8,900.00                                                                                 | 4,611.36              | 4,685.33              | 4,684.96              | 55.04                 | 90.39                  | 91.34        | -551.37                | 3,645.49                | 1,354.52                  | 1,229.02          | 125.50  | 10.793             |                    |
| 9,000.00                                                                                 | 4,613.33              | 4,687.27              | 4,686.90              | 56.12                 | 90.43                  | 91.48        | -551.37                | 3,645.49                | 1,435.90                  | 1,311.34          | 124.55  | 11.528             |                    |
| 9,100.00                                                                                 | 4,615.30              | 4,689.22              | 4,688.85              | 57.20                 | 90.47                  | 91.62        | -551.38                | 3,645.49                | 1,519.49                  | 1,395.80          | 123.69  | 12.285             |                    |
| 9,200.00                                                                                 | 4,617.27              | 4,691.16              | 4,690.79              | 58.28                 | 90.51                  | 91.76        | -551.38                | 3,645.49                | 1,604.96                  | 1,482.06          | 122.90  | 13.059             |                    |
| 9,300.00                                                                                 | 4,619.24              | 4,693.11              | 4,692.74              | 59.36                 | 90.55                  | 91.89        | -551.39                | 3,645.49                | 1,692.03                  | 1,569.84          | 122.19  | 13.848             |                    |
| 9,400.00                                                                                 | 4,621.22              | 4,695.06              | 4,694.69              | 60.45                 | 90.64                  | 92.21        | -551.40                | 3,645.49                | 1,780.45                  | 1,658.84          | 121.61  | 14.641             |                    |
| 9,500.00                                                                                 | 4,623.19              | 4,697.02              | 4,696.65              | 61.53                 | 90.69                  | 92.35        | -551.40                | 3,645.49                | 1,870.03                  | 1,749.00          | 121.03  | 15.451             |                    |
| 9,600.00                                                                                 | 4,625.16              | 4,701.59              | 4,701.22              | 62.62                 | 90.74                  | 92.49        | -551.40                | 3,645.49                | 1,960.62                  | 1,840.10          | 120.52  | 16.268             |                    |
| 9,700.00                                                                                 | 4,627.13              | 4,703.56              | 4,703.19              | 63.71                 | 90.79                  | 92.63        | -551.40                | 3,645.49                | 2,052.08                  | 1,932.03          | 120.06  | 17.093             |                    |
| 9,800.00                                                                                 | 4,629.10              | 4,705.53              | 4,705.16              | 64.80                 | 90.83                  | 92.77        | -551.40                | 3,645.49                | 2,144.30                  | 2,024.66          | 119.64  | 17.923             |                    |
| 9,900.00                                                                                 | 4,631.07              | 4,707.50              | 4,707.13              | 65.89                 | 90.88                  | 92.90        | -551.40                | 3,645.49                | 2,237.19                  | 2,117.93          | 119.27  | 18.758             |                    |
| 10,000.00                                                                                | 4,633.04              | 4,709.47              | 4,709.09              | 66.98                 | 90.93                  | 93.04        | -551.40                | 3,645.49                | 2,330.67                  | 2,211.74          | 118.93  | 19.597             |                    |
| 10,099.28                                                                                | 4,635.00              | 4,711.43              | 4,711.06              | 68.06                 | 90.98                  | 93.18        | -551.40                | 3,645.49                | 2,423.98                  | 2,305.35          | 118.63  | 20.433             |                    |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | Offset Datum                       |

## Offset Design: SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 9 - 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 +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                  | 66.00                 | 66.00                 | 0.00                             | 1.29                          | 88.29                 | 108.99                              | 3,652.93                            | 3,654.56                        |                                        |                           |                   |         |
| 100.00                | 100.00                | 166.00                | 166.00                | 0.29                             | 3.25                          | 88.29                 | 108.99                              | 3,652.93                            | 3,654.56                        | 3,651.01                               | 3.54                      | 1,031.995         |         |
| 200.00                | 200.00                | 266.01                | 266.00                | 0.65                             | 5.22                          | 88.29                 | 108.99                              | 3,652.93                            | 3,654.56                        | 3,648.69                               | 5.87                      | 622.757           |         |
| 300.00                | 300.00                | 366.44                | 366.43                | 1.00                             | 7.28                          | 88.29                 | 109.20                              | 3,652.93                            | 3,654.56                        | 3,646.28                               | 8.28                      | 441.167           |         |
| 304.45                | 304.45                | 370.95                | 370.93                | 1.02                             | 7.37                          | 114.05                | 109.18                              | 3,652.93                            | 3,654.56                        | 3,646.17                               | 8.39                      | 435.482           |         |
| 400.00                | 399.98                | 466.13                | 466.10                | 1.36                             | 9.32                          | 114.06                | 109.20                              | 3,652.93                            | 3,655.27                        | 3,644.59                               | 10.68                     | 342.158           |         |
| 500.00                | 499.85                | 565.89                | 565.85                | 1.73                             | 11.34                         | 114.11                | 108.99                              | 3,652.93                            | 3,657.34                        | 3,644.28                               | 13.05                     | 280.167           |         |
| 600.00                | 599.67                | 666.19                | 666.14                | 2.08                             | 13.33                         | 114.19                | 109.21                              | 3,652.93                            | 3,659.77                        | 3,644.36                               | 15.41                     | 237.520           |         |
| 700.00                | 699.50                | 765.56                | 765.50                | 2.44                             | 15.28                         | 114.28                | 108.99                              | 3,652.93                            | 3,662.19                        | 3,644.48                               | 17.71                     | 206.785           |         |
| 800.00                | 799.32                | 865.54                | 865.48                | 2.80                             | 17.21                         | 114.36                | 109.35                              | 3,652.93                            | 3,664.64                        | 3,644.63                               | 20.00                     | 183.188           |         |
| 900.00                | 899.15                | 965.23                | 965.15                | 3.15                             | 19.14                         | 114.45                | 108.99                              | 3,652.93                            | 3,667.08                        | 3,644.79                               | 22.29                     | 164.519           |         |
| 1,000.00              | 998.97                | 1,065.05              | 1,064.97              | 3.51                             | 21.03                         | 114.53                | 108.99                              | 3,652.93                            | 3,669.53                        | 3,645.00                               | 24.53                     | 149.565           |         |
| 1,100.00              | 1,098.80              | 1,165.09              | 1,165.01              | 3.87                             | 22.92                         | 114.61                | 109.33                              | 3,652.93                            | 3,672.00                        | 3,645.21                               | 26.78                     | 137.098           |         |
| 1,200.00              | 1,198.62              | 1,264.72              | 1,264.62              | 4.23                             | 24.79                         | 114.70                | 108.99                              | 3,652.93                            | 3,674.46                        | 3,645.45                               | 29.01                     | 126.644           |         |
| 1,300.00              | 1,298.45              | 1,364.63              | 1,364.54              | 4.59                             | 26.64                         | 114.78                | 109.19                              | 3,652.93                            | 3,676.94                        | 3,645.73                               | 31.22                     | 117.789           |         |
| 1,400.00              | 1,398.27              | 1,464.38              | 1,464.27              | 4.95                             | 28.46                         | 114.87                | 108.99                              | 3,652.93                            | 3,679.42                        | 3,646.02                               | 33.40                     | 110.162           |         |
| 1,500.00              | 1,498.10              | 1,564.25              | 1,564.15              | 5.31                             | 30.26                         | 114.94                | 109.23                              | 3,652.93                            | 3,681.92                        | 3,646.36                               | 35.56                     | 103.549           |         |
| 1,600.00              | 1,597.92              | 1,664.03              | 1,663.92              | 5.67                             | 32.07                         | 115.03                | 108.99                              | 3,652.93                            | 3,684.42                        | 3,646.69                               | 37.73                     | 97.665            |         |
| 1,700.00              | 1,697.75              | 1,763.86              | 1,763.75              | 6.03                             | 33.96                         | 115.11                | 108.99                              | 3,652.93                            | 3,686.93                        | 3,646.95                               | 39.98                     | 92.225            |         |
| 1,800.00              | 1,797.57              | 1,863.76              | 1,863.65              | 6.39                             | 35.86                         | 115.20                | 109.09                              | 3,652.93                            | 3,689.45                        | 3,647.21                               | 42.23                     | 87.362            |         |
| 1,900.00              | 1,897.40              | 1,963.52              | 1,963.40              | 6.74                             | 37.81                         | 115.28                | 108.99                              | 3,652.93                            | 3,691.97                        | 3,647.43                               | 44.54                     | 82.894            |         |
| 2,000.00              | 1,997.22              | 2,063.40              | 2,063.27              | 7.10                             | 39.79                         | 115.36                | 109.44                              | 3,652.93                            | 3,694.50                        | 3,647.62                               | 46.88                     | 78.800            |         |
| 2,100.00              | 2,097.05              | 2,163.20              | 2,163.05              | 7.46                             | 41.77                         | 115.45                | 108.99                              | 3,652.93                            | 3,697.04                        | 3,647.82                               | 49.22                     | 75.110            |         |
| 2,200.00              | 2,196.87              | 2,263.02              | 2,262.87              | 7.82                             | 43.67                         | 115.53                | 108.99                              | 3,652.93                            | 3,699.59                        | 3,648.11                               | 51.47                     | 71.873            |         |
| 2,300.00              | 2,296.70              | 2,362.89              | 2,362.73              | 8.18                             | 45.56                         | 115.61                | 109.20                              | 3,652.93                            | 3,702.14                        | 3,648.42                               | 53.73                     | 68.906            |         |
| 2,400.00              | 2,396.52              | 2,462.69              | 2,462.52              | 8.54                             | 47.38                         | 115.69                | 108.99                              | 3,652.93                            | 3,704.71                        | 3,648.81                               | 55.90                     | 66.274            |         |
| 2,500.00              | 2,496.35              | 2,562.51              | 2,562.35              | 8.90                             | 49.14                         | 115.77                | 109.27                              | 3,652.93                            | 3,707.28                        | 3,649.26                               | 58.02                     | 63.898            |         |
| 2,600.00              | 2,596.18              | 2,662.34              | 2,662.18              | 9.26                             | 50.90                         | 115.86                | 108.99                              | 3,652.93                            | 3,709.85                        | 3,649.72                               | 60.14                     | 61.691            |         |
| 2,700.00              | 2,696.00              | 2,762.17              | 2,762.00              | 9.62                             | 52.58                         | 115.94                | 108.99                              | 3,652.93                            | 3,712.44                        | 3,650.27                               | 62.18                     | 59.709            |         |
| 2,800.00              | 2,795.83              | 2,861.97              | 2,861.80              | 9.98                             | 54.26                         | 116.02                | 109.02                              | 3,652.93                            | 3,715.03                        | 3,650.82                               | 64.21                     | 57.854            |         |
| 2,900.00              | 2,895.65              | 2,961.82              | 2,961.65              | 10.34                            | 55.95                         | 116.10                | 108.99                              | 3,652.93                            | 3,717.63                        | 3,651.37                               | 66.26                     | 56.106            |         |
| 3,000.00              | 2,995.48              | 3,061.61              | 3,061.45              | 10.70                            | 57.64                         | 116.18                | 109.04                              | 3,652.93                            | 3,720.24                        | 3,651.93                               | 68.31                     | 54.461            |         |
| 3,100.00              | 3,095.30              | 3,161.47              | 3,161.30              | 11.06                            | 59.33                         | 116.27                | 108.99                              | 3,652.93                            | 3,722.86                        | 3,652.50                               | 70.36                     | 52.908            |         |
| 3,200.00              | 3,195.13              | 3,261.27              | 3,261.10              | 11.42                            | 61.03                         | 116.35                | 109.06                              | 3,652.93                            | 3,725.48                        | 3,653.06                               | 72.42                     | 51.442            |         |
| 3,300.00              | 3,294.95              | 3,361.12              | 3,360.95              | 11.78                            | 62.76                         | 116.43                | 108.99                              | 3,652.93                            | 3,728.11                        | 3,653.60                               | 74.51                     | 50.035            |         |
| 3,400.00              | 3,394.78              | 3,460.94              | 3,460.77              | 12.14                            | 64.54                         | 116.51                | 109.09                              | 3,652.93                            | 3,730.75                        | 3,654.10                               | 76.65                     | 48.673            |         |
| 3,500.00              | 3,494.60              | 3,560.69              | 3,560.52              | 12.49                            | 66.32                         | 116.59                | 109.01                              | 3,652.93                            | 3,733.40                        | 3,654.61                               | 78.79                     | 47.386            |         |
| 3,600.00              | 3,594.41              | 3,660.59              | 3,660.41              | 12.85                            | 68.21                         | 39.55                 | 108.99                              | 3,652.93                            | 3,732.10                        | 3,651.07                               | 81.04                     | 46.055            |         |
| 3,700.00              | 3,693.54              | 3,759.58              | 3,759.40              | 13.19                            | 70.11                         | 17.69                 | 109.22                              | 3,652.93                            | 3,720.46                        | 3,637.18                               | 83.27                     | 44.677            |         |
| 3,800.00              | 3,790.92              | 3,857.11              | 3,856.92              | 13.52                            | 71.98                         | 11.40                 | 108.99                              | 3,652.93                            | 3,698.51                        | 3,613.04                               | 85.47                     | 43.271            |         |
| 3,900.00              | 3,885.46              | 3,951.66              | 3,951.46              | 13.84                            | 73.79                         | 8.58                  | 108.99                              | 3,652.93                            | 3,666.50                        | 3,578.90                               | 87.60                     | 41.855            |         |
| 4,000.00              | 3,976.15              | 4,041.97              | 4,041.77              | 14.17                            | 75.52                         | 7.03                  | 109.21                              | 3,652.93                            | 3,624.77                        | 3,535.14                               | 89.63                     | 40.443            |         |
| 4,100.00              | 4,061.97              | 4,128.18              | 4,127.97              | 14.50                            | 77.11                         | 6.12                  | 108.99                              | 3,652.93                            | 3,573.79                        | 3,482.30                               | 91.49                     | 39.063            |         |
| 4,200.00              | 4,142.00              | 4,208.21              | 4,208.00              | 14.84                            | 78.54                         | 5.56                  | 109.28                              | 3,652.93                            | 3,514.10                        | 3,420.93                               | 93.16                     | 37.720            |         |
| 4,300.00              | 4,215.36              | 4,281.33              | 4,281.12              | 15.20                            | 79.84                         | 5.25                  | 109.18                              | 3,652.93                            | 3,446.37                        | 3,351.68                               | 94.68                     | 36.399            |         |
| 4,400.00              | 4,281.24              | 4,347.46              | 4,347.24              | 15.57                            | 81.01                         | 5.13                  | 108.99                              | 3,652.93                            | 3,371.33                        | 3,275.30                               | 96.04                     | 35.105            |         |
| 4,500.00              | 4,338.92              | 4,405.12              | 4,404.90              | 15.98                            | 82.00                         | 5.19                  | 109.04                              | 3,652.93                            | 3,289.81                        | 3,192.63                               | 97.18                     | 33.854            |         |
| 4,600.00              | 4,389.56              | 4,455.63              | 4,455.41              | 16.42                            | 82.86                         | 5.36                  | 109.00                              | 3,652.93                            | 3,203.68                        | 3,105.52                               | 98.16                     | 32.637            |         |
| 4,700.00              | 4,439.56              | 4,505.77              | 4,505.56              | 16.90                            | 83.72                         | 5.50                  | 108.99                              | 3,652.93                            | 3,117.17                        | 3,018.04                               | 99.13                     | 31.444            |         |
| 4,800.00              | 4,486.55              | 4,552.62              | 4,552.40              | 17.42                            | 84.52                         | 7.02                  | 108.99                              | 3,652.93                            | 3,029.09                        | 2,929.03                               | 100.05                    | 30.276            |         |
| 4,900.00              | 4,518.67              | 4,584.89              | 4,584.67              | 17.96                            | 85.07                         | 12.15                 | 108.99                              | 3,652.93                            | 2,934.64                        | 2,833.95                               | 100.69                    | 29.145            |         |
| 5,000.00              | 4,533.88              | 4,600.09              | 4,599.88              | 18.51                            | 85.33                         | 38.94                 | 108.99                              | 3,652.93                            | 2,836.06                        | 2,735.07                               | 100.99                    | 28.081            |         |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design:SMITHDALE 29 FEDERAL - OFFSET: OUTLAW STATE 9 - Wellbore #1 - Wellbore #1 |                       |                       |                       |                  |               |                       |              |                        |                        |                         |                           |                   | Offset Site Error:  | 0.00 usft |
|-----------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|--------------|------------------------|------------------------|-------------------------|---------------------------|-------------------|---------------------|-----------|
| Survey Program: 257-INC-ONLY                                                            |                       | Reference             |                       | 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                                                                                | 4,536.45              | 4,602.67              | 4,602.45              | 19.06            | 85.38         | 70.25                 | 108.99       | 3,652.93               | 2,736.25               | 2,635.19                | 101.06                    | 27.075            |                     |           |
| 5,200.00                                                                                | 4,538.42              | 4,604.64              | 4,604.42              | 19.66            | 85.41         | 70.92                 | 108.99       | 3,652.93               | 2,636.42               | 2,535.31                | 101.11                    | 26.074            |                     |           |
| 5,300.00                                                                                | 4,540.40              | 4,606.61              | 4,606.40              | 20.30            | 85.45         | 71.60                 | 108.99       | 3,652.93               | 2,536.61               | 2,435.44                | 101.17                    | 25.073            |                     |           |
| 5,400.00                                                                                | 4,542.37              | 4,608.58              | 4,608.37              | 20.99            | 85.48         | 72.28                 | 108.99       | 3,652.93               | 2,436.81               | 2,335.58                | 101.23                    | 24.072            |                     |           |
| 5,500.00                                                                                | 4,544.34              | 4,610.55              | 4,610.34              | 21.71            | 85.51         | 72.96                 | 108.99       | 3,652.93               | 2,337.03               | 2,235.74                | 101.29                    | 23.073            |                     |           |
| 5,600.00                                                                                | 4,546.31              | 4,612.53              | 4,612.31              | 22.46            | 85.55         | 73.65                 | 108.99       | 3,652.93               | 2,237.26               | 2,135.91                | 101.35                    | 22.074            |                     |           |
| 5,700.00                                                                                | 4,548.28              | 4,614.50              | 4,614.28              | 23.25            | 85.58         | 74.35                 | 108.99       | 3,652.93               | 2,137.52               | 2,036.10                | 101.42                    | 21.076            |                     |           |
| 5,800.00                                                                                | 4,550.25              | 4,616.47              | 4,616.25              | 24.06            | 85.61         | 75.05                 | 108.99       | 3,652.93               | 2,037.80               | 1,936.31                | 101.49                    | 20.078            |                     |           |
| 5,900.00                                                                                | 4,552.22              | 4,618.44              | 4,618.22              | 24.90            | 85.65         | 75.75                 | 108.99       | 3,652.93               | 1,938.10               | 1,836.54                | 101.57                    | 19.082            |                     |           |
| 6,000.00                                                                                | 4,554.19              | 4,620.41              | 4,620.19              | 25.76            | 85.68         | 76.46                 | 108.99       | 3,652.93               | 1,838.44               | 1,736.79                | 101.65                    | 18.086            |                     |           |
| 6,100.00                                                                                | 4,556.17              | 4,622.38              | 4,622.17              | 26.64            | 85.72         | 77.18                 | 108.99       | 3,652.93               | 1,738.81               | 1,637.08                | 101.73                    | 17.092            |                     |           |
| 6,200.00                                                                                | 4,558.14              | 4,624.35              | 4,624.14              | 27.53            | 85.75         | 77.89                 | 108.99       | 3,652.93               | 1,639.23               | 1,537.40                | 101.83                    | 16.098            |                     |           |
| 6,300.00                                                                                | 4,560.11              | 4,626.32              | 4,626.11              | 28.45            | 85.78         | 78.62                 | 108.99       | 3,652.93               | 1,539.69               | 1,437.76                | 101.93                    | 15.106            |                     |           |
| 6,400.00                                                                                | 4,562.08              | 4,628.29              | 4,628.08              | 29.38            | 85.82         | 79.34                 | 108.99       | 3,652.93               | 1,440.22               | 1,338.18                | 102.04                    | 14.114            |                     |           |
| 6,500.00                                                                                | 4,564.05              | 4,630.27              | 4,630.05              | 30.32            | 85.85         | 80.07                 | 108.99       | 3,652.93               | 1,340.82               | 1,238.66                | 102.17                    | 13.124            |                     |           |
| 6,600.00                                                                                | 4,566.02              | 4,632.24              | 4,632.02              | 31.27            | 85.89         | 80.80                 | 108.99       | 3,652.93               | 1,241.52               | 1,139.21                | 102.31                    | 12.135            |                     |           |
| 6,700.00                                                                                | 4,567.99              | 4,634.21              | 4,633.99              | 32.24            | 85.92         | 81.54                 | 108.99       | 3,652.93               | 1,142.34               | 1,039.86                | 102.48                    | 11.147            |                     |           |
| 6,800.00                                                                                | 4,569.96              | 4,636.18              | 4,635.96              | 33.21            | 85.95         | 82.27                 | 108.99       | 3,652.93               | 1,043.30               | 940.62                  | 102.68                    | 10.160            |                     |           |
| 6,900.00                                                                                | 4,571.94              | 4,638.15              | 4,637.94              | 34.20            | 85.99         | 83.01                 | 108.99       | 3,652.93               | 944.47                 | 841.54                  | 102.93                    | 9.175             |                     |           |
| 7,000.00                                                                                | 4,573.91              | 4,640.12              | 4,639.91              | 35.19            | 86.02         | 83.76                 | 108.99       | 3,652.93               | 845.91                 | 742.65                  | 103.26                    | 8.192             |                     |           |
| 7,100.00                                                                                | 4,575.88              | 4,642.09              | 4,641.88              | 36.19            | 86.05         | 84.50                 | 108.99       | 3,652.93               | 747.72                 | 644.04                  | 103.69                    | 7.211             |                     |           |
| 7,200.00                                                                                | 4,577.85              | 4,644.06              | 4,643.85              | 37.20            | 86.09         | 85.25                 | 108.99       | 3,652.93               | 650.09                 | 545.80                  | 104.28                    | 6.234             |                     |           |
| 7,300.00                                                                                | 4,579.82              | 4,646.04              | 4,645.82              | 38.21            | 86.12         | 86.00                 | 108.99       | 3,652.93               | 553.28                 | 448.12                  | 105.16                    | 5.261             |                     |           |
| 7,400.00                                                                                | 4,581.79              | 4,648.01              | 4,647.79              | 39.23            | 86.16         | 86.75                 | 108.99       | 3,652.93               | 457.85                 | 351.32                  | 106.54                    | 4.298             |                     |           |
| 7,500.00                                                                                | 4,583.76              | 4,649.98              | 4,649.76              | 40.26            | 86.19         | 87.50                 | 108.99       | 3,652.93               | 364.86                 | 256.03                  | 108.83                    | 3.353             |                     |           |
| 7,600.00                                                                                | 4,585.73              | 4,651.95              | 4,651.73              | 41.29            | 86.22         | 88.25                 | 108.99       | 3,652.93               | 276.79                 | 163.89                  | 112.90                    | 2.452             |                     |           |
| 7,700.00                                                                                | 4,587.70              | 4,653.92              | 4,653.70              | 42.33            | 86.26         | 89.00                 | 108.99       | 3,652.93               | 200.24                 | 80.09                   | 120.15                    | 1.667             |                     |           |
| 7,800.00                                                                                | 4,589.68              | 4,655.89              | 4,655.68              | 43.37            | 86.29         | 89.75                 | 108.99       | 3,652.93               | 153.52                 | 24.59                   | 128.94                    | 1.191             | Level 2             |           |
| 7,832.66                                                                                | 4,590.32              | 4,656.54              | 4,656.32              | 43.71            | 86.30         | 90.00                 | 108.99       | 3,652.93               | 150.01                 | 20.00                   | 130.01                    | 1.154             | Level 2, CC, ES, SF |           |
| 7,900.00                                                                                | 4,591.65              | 4,657.86              | 4,657.65              | 44.41            | 86.32         | 90.51                 | 108.99       | 3,652.93               | 164.42                 | 37.28                   | 127.14                    | 1.293             | Level 3             |           |
| 8,000.00                                                                                | 4,593.62              | 4,659.83              | 4,659.62              | 45.46            | 86.36         | 91.26                 | 108.99       | 3,652.93               | 224.71                 | 106.05                  | 118.66                    | 1.894             |                     |           |
| 8,100.00                                                                                | 4,595.59              | 4,661.81              | 4,661.59              | 46.52            | 86.39         | 92.01                 | 108.99       | 3,652.93               | 306.50                 | 193.64                  | 112.86                    | 2.716             |                     |           |
| 8,200.00                                                                                | 4,597.56              | 4,663.78              | 4,663.56              | 47.57            | 86.43         | 92.76                 | 108.99       | 3,652.93               | 396.72                 | 287.10                  | 109.62                    | 3.619             |                     |           |
| 8,300.00                                                                                | 4,599.53              | 4,665.75              | 4,665.53              | 48.63            | 86.46         | 93.51                 | 109.08       | 3,652.93               | 490.71                 | 382.96                  | 107.75                    | 4.554             |                     |           |
| 8,400.00                                                                                | 4,601.50              | 4,667.71              | 4,667.50              | 49.69            | 86.49         | 94.26                 | 109.08       | 3,652.93               | 586.70                 | 480.08                  | 106.62                    | 5.503             |                     |           |
| 8,500.00                                                                                | 4,603.47              | 4,669.68              | 4,669.46              | 50.76            | 86.53         | 95.01                 | 109.08       | 3,652.93               | 683.84                 | 577.93                  | 105.91                    | 6.457             |                     |           |
| 8,600.00                                                                                | 4,605.45              | 4,671.65              | 4,671.43              | 51.83            | 86.56         | 95.75                 | 109.08       | 3,652.93               | 781.70                 | 676.25                  | 105.45                    | 7.413             |                     |           |
| 8,700.00                                                                                | 4,607.42              | 4,673.61              | 4,673.40              | 52.90            | 86.59         | 96.50                 | 109.08       | 3,652.93               | 880.03                 | 774.88                  | 105.15                    | 8.370             |                     |           |
| 8,800.00                                                                                | 4,609.39              | 4,675.58              | 4,675.36              | 53.97            | 86.63         | 97.24                 | 109.08       | 3,652.93               | 978.70                 | 873.75                  | 104.94                    | 9.326             |                     |           |
| 8,900.00                                                                                | 4,611.36              | 4,677.55              | 4,677.33              | 55.04            | 86.66         | 97.98                 | 109.08       | 3,652.93               | 1,077.61               | 972.80                  | 104.81                    | 10.281            |                     |           |
| 9,000.00                                                                                | 4,613.33              | 4,679.51              | 4,679.30              | 56.12            | 86.70         | 98.71                 | 109.08       | 3,652.93               | 1,176.70               | 1,071.97                | 104.73                    | 11.236            |                     |           |
| 9,100.00                                                                                | 4,615.30              | 4,681.48              | 4,681.26              | 57.20            | 86.73         | 99.44                 | 109.08       | 3,652.93               | 1,275.93               | 1,171.25                | 104.68                    | 12.189            |                     |           |
| 9,200.00                                                                                | 4,617.27              | 4,683.44              | 4,683.23              | 58.28            | 86.76         | 100.17                | 109.07       | 3,652.93               | 1,375.27               | 1,270.61                | 104.66                    | 13.141            |                     |           |
| 9,300.00                                                                                | 4,619.24              | 4,685.41              | 4,685.19              | 59.36            | 86.80         | 100.90                | 109.07       | 3,652.93               | 1,474.69               | 1,370.03                | 104.66                    | 14.091            |                     |           |
| 9,400.00                                                                                | 4,621.22              | 4,687.38              | 4,687.16              | 60.45            | 86.83         | 101.62                | 109.07       | 3,652.93               | 1,574.19               | 1,469.51                | 104.67                    | 15.039            |                     |           |
| 9,500.00                                                                                | 4,623.19              | 4,689.34              | 4,689.13              | 61.53            | 86.86         | 102.34                | 109.07       | 3,652.93               | 1,673.74               | 1,569.04                | 104.70                    | 15.986            |                     |           |
| 9,600.00                                                                                | 4,625.16              | 4,691.31              | 4,691.09              | 62.62            | 86.90         | 103.05                | 109.07       | 3,652.93               | 1,773.34               | 1,668.60                | 104.74                    | 16.931            |                     |           |
| 9,700.00                                                                                | 4,627.13              | 4,693.27              | 4,693.06              | 63.71            | 86.93         | 103.77                | 109.07       | 3,652.93               | 1,872.98               | 1,768.20                | 104.79                    | 17.874            |                     |           |
| 9,800.00                                                                                | 4,629.10              | 4,695.24              | 4,695.02              | 64.80            | 86.97         | 104.47                | 109.07       | 3,652.93               | 1,972.66               | 1,867.82                | 104.84                    | 18.816            |                     |           |
| 9,900.00                                                                                | 4,631.07              | 4,697.20              | 4,696.99              | 65.89            | 87.00         | 105.17                | 109.07       | 3,652.93               | 2,072.36               | 1,967.46                | 104.90                    | 19.756            |                     |           |
| 10,000.00                                                                               | 4,633.04              | 4,699.17              | 4,698.95              | 66.98            | 87.03         | 105.87                | 109.07       | 3,652.93               | 2,172.09               | 2,067.13                | 104.96                    | 20.694            |                     |           |
| 10,099.28                                                                               | 4,635.00              | 4,701.12              | 4,700.90              | 68.06            | 87.07         | 106.56                | 109.07       | 3,652.93               | 2,271.13               | 2,166.09                | 105.03                    | 21.623            |                     |           |

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 90H                           |
| Project:           | EDDY COUNTY, NM (NAD 83 - NME) | TVD Reference:               | RKB = 20' @ 3633.00usft (AKITA 57) |
| Reference Site:    | SMITHDALE 29 FEDERAL           | MD Reference:                | RKB = 20' @ 3633.00usft (AKITA 57) |
| Site Error:        | 0.00 usft                      | North Reference:             | Grid                               |
| Reference Well:    | 90H                            | 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                       |



## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | 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) | Between Centres (usft)                         | Between Ellipses (usft) |                           |                    |            |
| 5,200.00                                                                                 | 4,538.42              | 4,588.81              | 4,586.42              | 19.66                            | 127.35                        | -83.48                | 712.43                 | 3,641.48     | 2,669.53                                       | 2,526.46                | 143.07                    | 18.659             |            |
| 5,300.00                                                                                 | 4,540.40              | 4,590.78              | 4,588.40              | 20.30                            | 127.41                        | -83.72                | 712.43                 | 3,641.48     | 2,571.06                                       | 2,427.89                | 143.17                    | 17.958             |            |
| 5,400.00                                                                                 | 4,542.37              | 4,592.75              | 4,590.37              | 20.99                            | 127.48                        | -83.97                | 712.43                 | 3,641.48     | 2,472.71                                       | 2,329.43                | 143.28                    | 17.258             |            |
| 5,500.00                                                                                 | 4,544.34              | 4,594.72              | 4,592.34              | 21.71                            | 127.54                        | -84.22                | 712.43                 | 3,641.48     | 2,374.50                                       | 2,231.10                | 143.39                    | 16.559             |            |
| 5,600.00                                                                                 | 4,546.31              | 4,596.69              | 4,594.31              | 22.46                            | 127.60                        | -84.46                | 712.43                 | 3,641.48     | 2,276.44                                       | 2,132.91                | 143.52                    | 15.861             |            |
| 5,700.00                                                                                 | 4,548.28              | 4,598.66              | 4,596.28              | 23.25                            | 127.66                        | -84.71                | 712.43                 | 3,641.48     | 2,178.55                                       | 2,034.89                | 143.66                    | 15.164             |            |
| 5,800.00                                                                                 | 4,550.25              | 4,600.63              | 4,598.25              | 24.06                            | 127.72                        | -84.96                | 712.43                 | 3,641.48     | 2,080.87                                       | 1,937.04                | 143.82                    | 14.468             |            |
| 5,900.00                                                                                 | 4,552.22              | 4,602.61              | 4,600.22              | 24.90                            | 127.78                        | -85.20                | 712.43                 | 3,641.48     | 1,983.41                                       | 1,839.41                | 144.00                    | 13.774             |            |
| 6,000.00                                                                                 | 4,554.19              | 4,604.58              | 4,602.19              | 25.76                            | 127.84                        | -85.45                | 712.43                 | 3,641.48     | 1,886.21                                       | 1,742.01                | 144.20                    | 13.080             |            |
| 6,100.00                                                                                 | 4,556.17              | 4,606.55              | 4,604.17              | 26.64                            | 127.90                        | -85.70                | 712.43                 | 3,641.48     | 1,789.33                                       | 1,644.90                | 144.43                    | 12.389             |            |
| 6,200.00                                                                                 | 4,558.14              | 4,608.52              | 4,606.14              | 27.53                            | 127.96                        | -85.95                | 712.43                 | 3,641.48     | 1,692.80                                       | 1,548.10                | 144.70                    | 11.699             |            |
| 6,300.00                                                                                 | 4,560.11              | 4,610.49              | 4,608.11              | 28.45                            | 128.02                        | -86.19                | 712.43                 | 3,641.48     | 1,596.70                                       | 1,451.69                | 145.02                    | 11.011             |            |
| 6,400.00                                                                                 | 4,562.08              | 4,612.46              | 4,610.08              | 29.38                            | 128.08                        | -86.44                | 712.43                 | 3,641.48     | 1,501.11                                       | 1,355.72                | 145.39                    | 10.325             |            |
| 6,500.00                                                                                 | 4,564.05              | 4,614.43              | 4,612.05              | 30.32                            | 128.14                        | -86.69                | 712.43                 | 3,641.48     | 1,406.13                                       | 1,260.30                | 145.83                    | 9.642              |            |
| 6,600.00                                                                                 | 4,566.02              | 4,616.40              | 4,614.02              | 31.27                            | 128.21                        | -86.94                | 712.43                 | 3,641.48     | 1,311.88                                       | 1,165.52                | 146.36                    | 8.963              |            |
| 6,700.00                                                                                 | 4,567.99              | 4,618.37              | 4,615.99              | 32.24                            | 128.27                        | -87.19                | 712.43                 | 3,641.48     | 1,218.56                                       | 1,071.55                | 147.01                    | 8.289              |            |
| 6,800.00                                                                                 | 4,569.96              | 4,620.35              | 4,617.96              | 33.21                            | 128.33                        | -87.43                | 712.43                 | 3,641.48     | 1,126.38                                       | 978.56                  | 147.81                    | 7.620              |            |
| 6,900.00                                                                                 | 4,571.94              | 4,622.32              | 4,619.94              | 34.20                            | 128.39                        | -87.68                | 712.43                 | 3,641.48     | 1,035.64                                       | 886.84                  | 148.80                    | 6.960              |            |
| 7,000.00                                                                                 | 4,573.91              | 4,624.29              | 4,621.91              | 35.19                            | 128.45                        | -87.93                | 712.43                 | 3,641.48     | 946.77                                         | 796.74                  | 150.04                    | 6.310              |            |
| 7,100.00                                                                                 | 4,575.88              | 4,626.26              | 4,623.88              | 36.19                            | 128.51                        | -88.18                | 712.43                 | 3,641.48     | 860.34                                         | 708.76                  | 151.58                    | 5.676              |            |
| 7,200.00                                                                                 | 4,577.85              | 4,628.23              | 4,625.85              | 37.20                            | 128.57                        | -88.43                | 712.43                 | 3,641.48     | 777.17                                         | 623.66                  | 153.51                    | 5.063              |            |
| 7,300.00                                                                                 | 4,579.82              | 4,630.20              | 4,627.82              | 38.21                            | 128.63                        | -88.68                | 712.43                 | 3,641.48     | 698.42                                         | 542.51                  | 155.91                    | 4.480              |            |
| 7,400.00                                                                                 | 4,581.79              | 4,632.17              | 4,629.79              | 39.23                            | 128.69                        | -88.93                | 712.43                 | 3,641.48     | 625.77                                         | 466.92                  | 158.85                    | 3.939              |            |
| 7,500.00                                                                                 | 4,583.76              | 4,634.14              | 4,631.76              | 40.26                            | 128.75                        | -89.18                | 712.43                 | 3,641.48     | 561.58                                         | 399.28                  | 162.30                    | 3.460              |            |
| 7,600.00                                                                                 | 4,585.73              | 4,636.12              | 4,633.73              | 41.29                            | 128.81                        | -89.42                | 712.43                 | 3,641.48     | 509.06                                         | 343.00                  | 166.06                    | 3.066              |            |
| 7,700.00                                                                                 | 4,587.70              | 4,638.09              | 4,635.70              | 42.33                            | 128.87                        | -89.67                | 712.43                 | 3,641.48     | 472.13                                         | 302.52                  | 169.61                    | 2.784              |            |
| 7,800.00                                                                                 | 4,589.68              | 4,640.06              | 4,637.68              | 43.37                            | 128.94                        | -89.92                | 712.43                 | 3,641.48     | 454.61                                         | 282.44                  | 172.17                    | 2.640              |            |
| 7,831.23                                                                                 | 4,590.29              | 4,640.67              | 4,638.29              | 43.70                            | 128.95                        | -90.00                | 712.43                 | 3,641.48     | 453.54                                         | 280.89                  | 172.65                    | 2.627              | CC, ES, SF |
| 7,900.00                                                                                 | 4,591.65              | 4,642.03              | 4,639.65              | 44.41                            | 129.00                        | -90.17                | 712.43                 | 3,641.48     | 458.72                                         | 285.65                  | 173.07                    | 2.651              |            |
| 8,000.00                                                                                 | 4,593.62              | 4,644.00              | 4,641.62              | 45.46                            | 129.06                        | -90.42                | 712.43                 | 3,641.48     | 483.91                                         | 311.64                  | 172.27                    | 2.809              |            |
| 8,100.00                                                                                 | 4,595.59              | 4,645.97              | 4,643.59              | 46.52                            | 129.12                        | -90.67                | 712.43                 | 3,641.48     | 527.17                                         | 356.84                  | 170.32                    | 3.095              |            |
| 8,200.00                                                                                 | 4,597.56              | 4,647.94              | 4,645.56              | 47.57                            | 129.18                        | -90.92                | 712.43                 | 3,641.48     | 584.49                                         | 416.57                  | 167.92                    | 3.481              |            |
| 8,300.00                                                                                 | 4,599.53              | 4,649.91              | 4,647.53              | 48.63                            | 129.24                        | -91.17                | 712.43                 | 3,641.48     | 652.19                                         | 486.66                  | 165.53                    | 3.940              |            |
| 8,400.00                                                                                 | 4,601.50              | 4,651.89              | 4,649.50              | 49.69                            | 129.30                        | -91.42                | 712.43                 | 3,641.48     | 727.37                                         | 564.00                  | 163.37                    | 4.452              |            |
| 8,500.00                                                                                 | 4,603.47              | 4,653.86              | 4,651.47              | 50.76                            | 129.36                        | -91.66                | 712.43                 | 3,641.48     | 807.94                                         | 646.44                  | 161.50                    | 5.003              |            |
| 8,600.00                                                                                 | 4,605.45              | 4,655.83              | 4,653.45              | 51.83                            | 129.42                        | -91.91                | 712.43                 | 3,641.48     | 892.45                                         | 732.52                  | 159.93                    | 5.580              |            |
| 8,700.00                                                                                 | 4,607.42              | 4,657.80              | 4,655.42              | 52.90                            | 129.48                        | -92.16                | 712.43                 | 3,641.48     | 979.88                                         | 821.25                  | 158.63                    | 6.177              |            |
| 8,800.00                                                                                 | 4,609.39              | 4,659.77              | 4,657.39              | 53.97                            | 129.54                        | -92.41                | 712.43                 | 3,641.48     | 1,069.50                                       | 911.97                  | 157.54                    | 6.789              |            |
| 8,900.00                                                                                 | 4,611.36              | 4,661.74              | 4,659.36              | 55.04                            | 129.61                        | -92.66                | 712.43                 | 3,641.48     | 1,160.83                                       | 1,004.20                | 156.63                    | 7.411              |            |
| 9,000.00                                                                                 | 4,613.33              | 4,663.71              | 4,661.33              | 56.12                            | 129.67                        | -92.91                | 712.43                 | 3,641.48     | 1,253.47                                       | 1,097.59                | 155.87                    | 8.042              |            |
| 9,100.00                                                                                 | 4,615.30              | 4,665.68              | 4,663.30              | 57.20                            | 129.73                        | -93.16                | 712.43                 | 3,641.48     | 1,347.16                                       | 1,191.92                | 155.24                    | 8.678              |            |
| 9,200.00                                                                                 | 4,617.27              | 4,667.66              | 4,665.27              | 58.28                            | 129.79                        | -93.40                | 712.43                 | 3,641.48     | 1,441.70                                       | 1,286.98                | 154.71                    | 9.318              |            |
| 9,300.00                                                                                 | 4,619.24              | 4,669.63              | 4,667.24              | 59.36                            | 129.85                        | -93.65                | 712.43                 | 3,641.48     | 1,536.92                                       | 1,382.65                | 154.27                    | 9.963              |            |
| 9,400.00                                                                                 | 4,621.22              | 4,671.60              | 4,669.22              | 60.45                            | 129.91                        | -93.90                | 712.43                 | 3,641.48     | 1,632.72                                       | 1,478.82                | 153.90                    | 10.609             |            |
| 9,500.00                                                                                 | 4,623.19              | 4,673.57              | 4,671.19              | 61.53                            | 129.97                        | -94.15                | 712.43                 | 3,641.48     | 1,728.99                                       | 1,575.40                | 153.58                    | 11.258             |            |
| 9,600.00                                                                                 | 4,625.16              | 4,675.54              | 4,673.16              | 62.62                            | 130.03                        | -94.40                | 712.43                 | 3,641.48     | 1,825.66                                       | 1,672.33                | 153.32                    | 11.907             |            |
| 9,700.00                                                                                 | 4,627.13              | 4,677.51              | 4,675.13              | 63.71                            | 130.09                        | -94.64                | 712.43                 | 3,641.48     | 1,922.66                                       | 1,769.56                | 153.10                    | 12.558             |            |
| 9,800.00                                                                                 | 4,629.10              | 4,679.48              | 4,677.10              | 64.80                            | 130.15                        | -94.89                | 712.43                 | 3,641.48     | 2,019.96                                       | 1,867.04                | 152.92                    | 13.209             |            |
| 9,900.00                                                                                 | 4,631.07              | 4,681.45              | 4,679.07              | 65.89                            | 130.21                        | -95.14                | 712.43                 | 3,641.48     | 2,117.51                                       | 1,964.74                | 152.77                    | 13.861             |            |
| 10,000.00                                                                                | 4,633.04              | 4,683.43              | 4,681.04              | 66.98                            | 130.27                        | -95.38                | 712.43                 | 3,641.48     | 2,215.27                                       | 2,062.63                | 152.64                    | 14.513             |            |
| 10,099.28                                                                                | 4,635.00              | 4,685.38              | 4,683.00              | 68.06                            | 130.33                        | -95.63                | 712.43                 | 3,641.48     | 2,312.51                                       | 2,159.97                | 152.54                    | 15.160             |            |

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



## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | 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 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) |                           |                   |                    |           |
| 5,100.00                                                                                  | 4,536.45              | 4,531.85              | 4,531.45              | 19.06                            | 88.49                         | 93.54                 | 50.47                  | 434.52       | 510.91                          | 406.54                  | 104.37                    | 4.895             |                    |           |
| 5,200.00                                                                                  | 4,538.42              | 4,533.82              | 4,533.42              | 19.66                            | 88.53                         | 94.27                 | 50.47                  | 434.52       | 606.94                          | 502.56                  | 104.37                    | 5.815             |                    |           |
| 5,300.00                                                                                  | 4,540.40              | 4,535.80              | 4,535.40              | 20.30                            | 88.56                         | 94.99                 | 50.47                  | 434.52       | 704.06                          | 599.67                  | 104.39                    | 6.744             |                    |           |
| 5,400.00                                                                                  | 4,542.37              | 4,537.77              | 4,537.37              | 20.99                            | 88.60                         | 95.71                 | 50.47                  | 434.52       | 801.89                          | 697.47                  | 104.42                    | 7.679             |                    |           |
| 5,500.00                                                                                  | 4,544.34              | 4,539.74              | 4,539.34              | 21.71                            | 88.64                         | 96.43                 | 50.47                  | 434.52       | 900.19                          | 795.73                  | 104.46                    | 8.618             |                    |           |
| 5,600.00                                                                                  | 4,546.31              | 4,541.71              | 4,541.31              | 22.46                            | 88.68                         | 97.15                 | 50.47                  | 434.52       | 998.82                          | 894.32                  | 104.50                    | 9.558             |                    |           |
| 5,700.00                                                                                  | 4,548.28              | 4,543.68              | 4,543.28              | 23.25                            | 88.71                         | 97.86                 | 50.47                  | 434.52       | 1,097.70                        | 993.15                  | 104.55                    | 10.499            |                    |           |
| 5,800.00                                                                                  | 4,550.25              | 4,545.65              | 4,545.25              | 24.06                            | 88.75                         | 98.58                 | 50.47                  | 434.52       | 1,196.76                        | 1,092.16                | 104.60                    | 11.442            |                    |           |
| 5,900.00                                                                                  | 4,552.22              | 4,547.62              | 4,547.22              | 24.90                            | 88.79                         | 99.29                 | 50.47                  | 434.52       | 1,295.96                        | 1,191.31                | 104.65                    | 12.384            |                    |           |
| 6,000.00                                                                                  | 4,554.19              | 4,549.59              | 4,549.19              | 25.76                            | 88.83                         | 100.00                | 50.47                  | 434.52       | 1,395.28                        | 1,290.57                | 104.70                    | 13.326            |                    |           |
| 6,100.00                                                                                  | 4,556.17              | 4,551.57              | 4,551.17              | 26.64                            | 88.86                         | 100.70                | 50.47                  | 434.52       | 1,494.68                        | 1,389.92                | 104.76                    | 14.268            |                    |           |
| 6,200.00                                                                                  | 4,558.14              | 4,553.54              | 4,553.14              | 27.53                            | 88.90                         | 101.40                | 50.47                  | 434.52       | 1,594.15                        | 1,489.34                | 104.82                    | 15.209            |                    |           |
| 6,300.00                                                                                  | 4,560.11              | 4,555.51              | 4,555.11              | 28.45                            | 88.94                         | 102.10                | 50.47                  | 434.52       | 1,693.69                        | 1,588.81                | 104.88                    | 16.149            |                    |           |
| 6,400.00                                                                                  | 4,562.08              | 4,557.48              | 4,557.08              | 29.38                            | 88.97                         | 102.79                | 50.47                  | 434.52       | 1,793.27                        | 1,688.33                | 104.94                    | 17.089            |                    |           |
| 6,500.00                                                                                  | 4,564.05              | 4,559.45              | 4,559.05              | 30.32                            | 89.01                         | 103.48                | 50.47                  | 434.52       | 1,892.90                        | 1,787.90                | 105.00                    | 18.027            |                    |           |
| 6,600.00                                                                                  | 4,566.02              | 4,561.42              | 4,561.02              | 31.27                            | 89.05                         | 104.17                | 50.47                  | 434.52       | 1,992.56                        | 1,887.49                | 105.07                    | 18.965            |                    |           |
| 6,700.00                                                                                  | 4,567.99              | 4,563.39              | 4,562.99              | 32.24                            | 89.09                         | 104.85                | 50.47                  | 434.52       | 2,092.25                        | 1,987.12                | 105.13                    | 19.901            |                    |           |
| 6,800.00                                                                                  | 4,569.96              | 4,565.36              | 4,564.96              | 33.21                            | 89.12                         | 105.53                | 50.47                  | 434.52       | 2,191.97                        | 2,086.77                | 105.20                    | 20.837            |                    |           |
| 6,900.00                                                                                  | 4,571.94              | 4,567.34              | 4,566.94              | 34.20                            | 89.16                         | 106.20                | 50.47                  | 434.52       | 2,291.71                        | 2,186.44                | 105.27                    | 21.771            |                    |           |
| 7,000.00                                                                                  | 4,573.91              | 4,569.31              | 4,568.91              | 35.19                            | 89.20                         | 106.87                | 50.47                  | 434.52       | 2,391.47                        | 2,286.14                | 105.33                    | 22.704            |                    |           |
| 7,100.00                                                                                  | 4,575.88              | 4,571.28              | 4,570.88              | 36.19                            | 89.23                         | 107.54                | 50.47                  | 434.52       | 2,491.25                        | 2,385.84                | 105.40                    | 23.635            |                    |           |
| 7,200.00                                                                                  | 4,577.85              | 4,573.25              | 4,572.85              | 37.20                            | 89.27                         | 108.20                | 50.47                  | 434.52       | 2,591.04                        | 2,485.57                | 105.48                    | 24.565            |                    |           |
| 7,300.00                                                                                  | 4,579.82              | 4,575.22              | 4,574.82              | 38.21                            | 89.31                         | 108.85                | 50.47                  | 434.52       | 2,690.85                        | 2,585.30                | 105.55                    | 25.494            |                    |           |
| 7,400.00                                                                                  | 4,581.79              | 4,577.19              | 4,576.79              | 39.23                            | 89.35                         | 109.50                | 50.47                  | 434.52       | 2,790.67                        | 2,685.05                | 105.62                    | 26.422            |                    |           |
| 7,500.00                                                                                  | 4,583.76              | 4,579.16              | 4,578.76              | 40.26                            | 89.38                         | 110.15                | 50.47                  | 434.52       | 2,890.50                        | 2,784.81                | 105.70                    | 27.347            |                    |           |
| 7,600.00                                                                                  | 4,585.73              | 4,581.13              | 4,580.73              | 41.29                            | 89.42                         | 110.78                | 50.47                  | 434.52       | 2,990.34                        | 2,884.57                | 105.77                    | 28.272            |                    |           |
| 7,700.00                                                                                  | 4,587.70              | 4,583.11              | 4,582.70              | 42.33                            | 89.46                         | 111.42                | 50.47                  | 434.52       | 3,090.19                        | 2,984.35                | 105.85                    | 29.195            |                    |           |
| 7,800.00                                                                                  | 4,589.68              | 4,585.08              | 4,584.68              | 43.37                            | 89.49                         | 112.05                | 50.47                  | 434.52       | 3,190.05                        | 3,084.13                | 105.93                    | 30.116            |                    |           |
| 7,900.00                                                                                  | 4,591.65              | 4,587.05              | 4,586.65              | 44.41                            | 89.53                         | 112.67                | 50.47                  | 434.52       | 3,289.92                        | 3,183.91                | 106.00                    | 31.036            |                    |           |
| 8,000.00                                                                                  | 4,593.62              | 4,589.02              | 4,588.62              | 45.46                            | 89.57                         | 113.29                | 50.47                  | 434.52       | 3,389.79                        | 3,283.71                | 106.08                    | 31.954            |                    |           |
| 8,100.00                                                                                  | 4,595.59              | 4,590.99              | 4,590.59              | 46.52                            | 89.61                         | 113.90                | 50.47                  | 434.52       | 3,489.67                        | 3,383.51                | 106.16                    | 32.870            |                    |           |
| 8,200.00                                                                                  | 4,597.56              | 4,592.96              | 4,592.56              | 47.57                            | 89.64                         | 114.50                | 50.47                  | 434.52       | 3,589.55                        | 3,483.31                | 106.25                    | 33.785            |                    |           |
| 8,300.00                                                                                  | 4,599.53              | 4,594.93              | 4,594.53              | 48.63                            | 89.68                         | 115.10                | 50.47                  | 434.52       | 3,689.44                        | 3,583.12                | 106.33                    | 34.698            |                    |           |
| 8,400.00                                                                                  | 4,601.50              | 4,596.90              | 4,596.50              | 49.69                            | 89.72                         | 115.70                | 50.47                  | 434.52       | 3,789.34                        | 3,682.93                | 106.41                    | 35.610            |                    |           |
| 8,500.00                                                                                  | 4,603.47              | 4,598.87              | 4,598.47              | 50.76                            | 89.76                         | 116.29                | 50.47                  | 434.52       | 3,889.24                        | 3,782.74                | 106.50                    | 36.519            |                    |           |
| 8,600.00                                                                                  | 4,605.45              | 4,600.85              | 4,600.45              | 51.83                            | 89.79                         | 116.87                | 50.47                  | 434.52       | 3,989.14                        | 3,882.56                | 106.58                    | 37.427            |                    |           |
| 8,700.00                                                                                  | 4,607.42              | 4,602.82              | 4,602.42              | 52.90                            | 89.83                         | 117.44                | 50.47                  | 434.52       | 4,089.05                        | 3,982.38                | 106.67                    | 38.333            |                    |           |
| 8,800.00                                                                                  | 4,609.39              | 4,604.79              | 4,604.39              | 53.97                            | 89.87                         | 118.02                | 50.47                  | 434.52       | 4,188.96                        | 4,082.20                | 106.76                    | 39.238            |                    |           |
| 8,900.00                                                                                  | 4,611.36              | 4,606.76              | 4,606.36              | 55.04                            | 89.90                         | 118.58                | 50.47                  | 434.52       | 4,288.87                        | 4,182.03                | 106.85                    | 40.140            |                    |           |
| 9,000.00                                                                                  | 4,613.33              | 4,608.73              | 4,608.33              | 56.12                            | 89.94                         | 119.14                | 50.47                  | 434.52       | 4,388.79                        | 4,281.85                | 106.94                    | 41.041            |                    |           |
| 9,100.00                                                                                  | 4,615.30              | 4,610.70              | 4,610.30              | 57.20                            | 89.98                         | 119.69                | 50.47                  | 434.52       | 4,488.71                        | 4,381.68                | 107.03                    | 41.940            |                    |           |
| 9,200.00                                                                                  | 4,617.27              | 4,612.67              | 4,612.27              | 58.28                            | 90.02                         | 120.24                | 50.47                  | 434.52       | 4,588.63                        | 4,481.51                | 107.12                    | 42.837            |                    |           |
| 9,300.00                                                                                  | 4,619.24              | 4,614.64              | 4,614.24              | 59.36                            | 90.05                         | 120.78                | 50.47                  | 434.52       | 4,688.55                        | 4,581.34                | 107.21                    | 43.732            |                    |           |
| 9,400.00                                                                                  | 4,621.22              | 4,616.62              | 4,616.22              | 60.45                            | 90.09                         | 121.31                | 50.47                  | 434.52       | 4,788.48                        | 4,681.18                | 107.30                    | 44.626            |                    |           |
| 9,500.00                                                                                  | 4,623.19              | 4,618.59              | 4,618.19              | 61.53                            | 90.13                         | 121.84                | 50.47                  | 434.52       | 4,888.41                        | 4,781.01                | 107.40                    | 45.517            |                    |           |
| 9,600.00                                                                                  | 4,625.16              | 4,620.56              | 4,620.16              | 62.62                            | 90.16                         | 122.36                | 50.47                  | 434.52       | 4,988.34                        | 4,880.85                | 107.49                    | 46.406            |                    |           |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | 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: |
| 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                          | -15.62                | 700.97                              | -195.99                             | 728.25                          |                                        |                           |                   |                    |
| 100.00                                                                                    | 100.00                | 76.10                 | 76.10                 | 0.29                             | 1.40                          | -15.62                | 700.97                              | -195.99                             | 727.85                          | 726.17                                 | 1.69                      | 431.637           |                    |
| 200.00                                                                                    | 200.00                | 176.10                | 176.10                | 0.65                             | 3.24                          | -15.62                | 700.97                              | -195.99                             | 727.85                          | 723.97                                 | 3.88                      | 187.410           |                    |
| 300.00                                                                                    | 300.00                | 276.10                | 276.10                | 1.00                             | 5.08                          | -15.62                | 700.97                              | -195.99                             | 727.85                          | 721.77                                 | 6.08                      | 119.689           |                    |
| 400.00                                                                                    | 399.98                | 376.08                | 376.08                | 1.36                             | 6.92                          | 10.17                 | 700.97                              | -195.99                             | 726.14                          | 717.86                                 | 8.28                      | 87.713            |                    |
| 500.00                                                                                    | 499.85                | 475.96                | 475.95                | 1.73                             | 8.77                          | 10.25                 | 700.97                              | -195.99                             | 721.15                          | 710.65                                 | 10.50                     | 68.713            |                    |
| 600.00                                                                                    | 599.67                | 575.78                | 575.77                | 2.08                             | 10.64                         | 10.34                 | 700.97                              | -195.99                             | 715.33                          | 702.61                                 | 12.72                     | 56.250            |                    |
| 700.00                                                                                    | 699.50                | 676.24                | 676.23                | 2.44                             | 12.51                         | 10.43                 | 701.52                              | -195.99                             | 710.05                          | 695.10                                 | 14.95                     | 47.490            |                    |
| 800.00                                                                                    | 799.32                | 777.72                | 777.71                | 2.80                             | 14.41                         | 10.52                 | 701.31                              | -195.99                             | 704.03                          | 686.82                                 | 17.21                     | 40.919            |                    |
| 900.00                                                                                    | 899.15                | 875.28                | 875.25                | 3.15                             | 16.22                         | 10.60                 | 700.97                              | -195.99                             | 697.89                          | 678.52                                 | 19.37                     | 36.029            |                    |
| 1,000.00                                                                                  | 998.97                | 975.10                | 975.07                | 3.51                             | 18.00                         | 10.69                 | 700.97                              | -195.99                             | 692.08                          | 670.57                                 | 21.51                     | 32.176            |                    |
| 1,100.00                                                                                  | 1,098.80              | 1,075.33              | 1,075.30              | 3.87                             | 19.79                         | 10.79                 | 701.38                              | -195.99                             | 686.67                          | 663.01                                 | 23.65                     | 29.028            |                    |
| 1,200.00                                                                                  | 1,198.62              | 1,176.67              | 1,176.64              | 4.23                             | 21.59                         | 10.88                 | 701.20                              | -195.99                             | 680.69                          | 654.87                                 | 25.82                     | 26.362            |                    |
| 1,300.00                                                                                  | 1,298.45              | 1,274.58              | 1,274.55              | 4.59                             | 23.36                         | 10.97                 | 700.97                              | -195.99                             | 674.66                          | 646.72                                 | 27.94                     | 24.146            |                    |
| 1,400.00                                                                                  | 1,398.27              | 1,374.41              | 1,374.37              | 4.95                             | 25.18                         | 11.06                 | 700.97                              | -195.99                             | 668.85                          | 638.73                                 | 30.12                     | 22.203            |                    |
| 1,500.00                                                                                  | 1,498.10              | 1,474.48              | 1,474.44              | 5.31                             | 27.01                         | 11.16                 | 701.13                              | -195.99                             | 663.21                          | 630.89                                 | 32.31                     | 20.525            |                    |
| 1,600.00                                                                                  | 1,597.92              | 1,574.88              | 1,574.85              | 5.67                             | 28.85                         | 11.26                 | 701.05                              | -195.99                             | 657.33                          | 622.82                                 | 34.51                     | 19.049            |                    |
| 1,700.00                                                                                  | 1,697.75              | 1,673.90              | 1,673.85              | 6.03                             | 30.72                         | 11.36                 | 700.97                              | -195.99                             | 651.46                          | 614.72                                 | 36.74                     | 17.733            |                    |
| 1,800.00                                                                                  | 1,797.57              | 1,773.72              | 1,773.67              | 6.39                             | 32.67                         | 11.46                 | 700.97                              | -195.99                             | 645.66                          | 606.62                                 | 39.04                     | 16.537            |                    |
| 1,900.00                                                                                  | 1,897.40              | 1,874.68              | 1,874.63              | 6.74                             | 34.64                         | 11.58                 | 701.51                              | -195.99                             | 640.39                          | 599.02                                 | 41.37                     | 15.479            |                    |
| 2,000.00                                                                                  | 1,997.22              | 1,976.49              | 1,976.44              | 7.10                             | 36.62                         | 11.68                 | 701.16                              | -195.99                             | 634.26                          | 590.55                                 | 43.72                     | 14.509            |                    |
| 2,100.00                                                                                  | 2,097.05              | 2,073.23              | 2,073.15              | 7.46                             | 38.46                         | 11.79                 | 700.97                              | -195.99                             | 628.29                          | 582.38                                 | 45.91                     | 13.685            |                    |
| 2,200.00                                                                                  | 2,196.87              | 2,173.06              | 2,172.97              | 7.82                             | 40.33                         | 11.90                 | 700.97                              | -195.99                             | 622.50                          | 574.36                                 | 48.14                     | 12.932            |                    |
| 2,300.00                                                                                  | 2,296.70              | 2,272.88              | 2,272.80              | 8.18                             | 42.19                         | 12.01                 | 700.97                              | -195.99                             | 616.72                          | 566.36                                 | 50.36                     | 12.246            |                    |
| 2,400.00                                                                                  | 2,396.52              | 2,372.71              | 2,372.62              | 8.54                             | 44.06                         | 12.13                 | 700.97                              | -195.99                             | 610.94                          | 558.35                                 | 52.59                     | 11.618            |                    |
| 2,500.00                                                                                  | 2,496.35              | 2,473.00              | 2,472.90              | 8.90                             | 45.93                         | 12.28                 | 702.41                              | -195.99                             | 606.55                          | 551.73                                 | 54.82                     | 11.065            |                    |
| 2,600.00                                                                                  | 2,596.18              | 2,573.81              | 2,573.72              | 9.26                             | 47.82                         | 12.39                 | 702.24                              | -195.99                             | 600.62                          | 543.56                                 | 57.06                     | 10.526            |                    |
| 2,700.00                                                                                  | 2,696.00              | 2,674.62              | 2,674.52              | 9.62                             | 49.70                         | 12.51                 | 701.91                              | -195.99                             | 594.52                          | 535.22                                 | 59.30                     | 10.025            |                    |
| 2,800.00                                                                                  | 2,795.83              | 2,775.41              | 2,775.30              | 9.98                             | 51.59                         | 12.62                 | 701.40                              | -195.99                             | 588.27                          | 526.72                                 | 61.55                     | 9.558             |                    |
| 2,900.00                                                                                  | 2,895.65              | 2,871.87              | 2,871.75              | 10.34                            | 53.36                         | 12.74                 | 700.97                              | -195.99                             | 582.07                          | 518.39                                 | 63.68                     | 9.140             |                    |
| 3,000.00                                                                                  | 2,995.48              | 2,971.70              | 2,971.58              | 10.70                            | 55.12                         | 12.87                 | 700.97                              | -195.99                             | 576.30                          | 510.50                                 | 65.80                     | 8.758             |                    |
| 3,100.00                                                                                  | 3,095.30              | 3,071.66              | 3,071.54              | 11.06                            | 56.88                         | 13.00                 | 701.24                              | -195.99                             | 570.80                          | 502.88                                 | 67.92                     | 8.404             |                    |
| 3,200.00                                                                                  | 3,195.13              | 3,172.19              | 3,172.06              | 11.42                            | 58.66                         | 13.14                 | 701.15                              | -195.99                             | 564.96                          | 494.91                                 | 70.05                     | 8.065             |                    |
| 3,300.00                                                                                  | 3,294.95              | 3,271.18              | 3,271.05              | 11.78                            | 60.41                         | 13.27                 | 700.97                              | -195.99                             | 559.03                          | 486.86                                 | 72.17                     | 7.746             |                    |
| 3,400.00                                                                                  | 3,394.78              | 3,371.00              | 3,370.88              | 12.14                            | 62.24                         | 13.41                 | 700.97                              | -195.99                             | 553.27                          | 478.92                                 | 74.35                     | 7.441             |                    |
| 3,500.00                                                                                  | 3,494.60              | 3,470.86              | 3,470.73              | 12.49                            | 64.06                         | 13.56                 | 701.24                              | -195.99                             | 547.79                          | 471.25                                 | 76.53                     | 7.157             |                    |
| 3,600.00                                                                                  | 3,594.41              | 3,571.35              | 3,571.22              | 12.85                            | 65.90                         | -64.07                | 701.17                              | -195.99                             | 542.87                          | 464.14                                 | 78.72                     | 6.896             |                    |
| 3,700.00                                                                                  | 3,693.54              | 3,671.14              | 3,671.01              | 13.19                            | 67.72                         | -87.49                | 700.97                              | -195.99                             | 540.39                          | 459.50                                 | 80.89                     | 6.681             |                    |
| 3,723.40                                                                                  | 3,716.53              | 3,692.77              | 3,692.63              | 13.26                            | 68.11                         | -90.00                | 700.97                              | -195.99                             | 540.29                          | 458.94                                 | 81.36                     | 6.641 CC          |                    |
| 3,800.00                                                                                  | 3,790.92              | 3,767.16              | 3,767.02              | 13.52                            | 69.46                         | -96.11                | 700.97                              | -195.99                             | 541.41                          | 458.45                                 | 82.96                     | 6.526 ES          |                    |
| 3,900.00                                                                                  | 3,885.46              | 3,861.70              | 3,861.56              | 13.84                            | 71.17                         | -101.90               | 700.97                              | -195.99                             | 546.94                          | 461.94                                 | 85.00                     | 6.435             |                    |
| 4,000.00                                                                                  | 3,976.15              | 3,953.59              | 3,953.45              | 14.17                            | 72.83                         | -106.80               | 701.38                              | -195.99                             | 558.84                          | 471.86                                 | 86.99                     | 6.424 SF          |                    |
| 4,100.00                                                                                  | 4,061.97              | 4,040.61              | 4,040.46              | 14.50                            | 74.40                         | -111.15               | 701.07                              | -195.99                             | 577.67                          | 488.78                                 | 88.89                     | 6.499             |                    |
| 4,200.00                                                                                  | 4,142.00              | 4,118.26              | 4,118.10              | 14.84                            | 75.79                         | -114.65               | 700.97                              | -195.99                             | 605.59                          | 515.01                                 | 90.59                     | 6.685             |                    |
| 4,300.00                                                                                  | 4,215.36              | 4,191.61              | 4,191.46              | 15.20                            | 77.09                         | -117.48               | 700.97                              | -195.99                             | 643.40                          | 551.21                                 | 92.19                     | 6.979             |                    |
| 4,400.00                                                                                  | 4,281.24              | 4,257.49              | 4,257.34              | 15.57                            | 78.25                         | -119.35               | 700.97                              | -195.99                             | 691.26                          | 597.63                                 | 93.63                     | 7.383             |                    |
| 4,500.00                                                                                  | 4,338.92              | 4,315.37              | 4,315.21              | 15.98                            | 79.28                         | -120.08               | 701.14                              | -195.99                             | 748.95                          | 654.06                                 | 94.89                     | 7.893             |                    |
| 4,600.00                                                                                  | 4,389.56              | 4,366.21              | 4,366.06              | 16.42                            | 80.18                         | -122.28               | 701.11                              | -195.99                             | 814.56                          | 718.56                                 | 96.00                     | 8.485             |                    |
| 4,700.00                                                                                  | 4,439.56              | 4,416.42              | 4,416.27              | 16.90                            | 81.07                         | -125.66               | 701.06                              | -195.99                             | 884.04                          | 786.97                                 | 97.07                     | 9.107             |                    |
| 4,800.00                                                                                  | 4,486.55              | 4,463.61              | 4,463.46              | 17.42                            | 81.90                         | -122.99               | 700.99                              | -195.99                             | 957.67                          | 859.59                                 | 98.08                     | 9.764             |                    |
| 4,900.00                                                                                  | 4,518.67              | 4,494.93              | 4,494.77              | 17.96                            | 82.47                         | -113.12               | 700.97                              | -195.99                             | 1,039.16                        | 940.38                                 | 98.77                     | 10.521            |                    |
| 5,000.00                                                                                  | 4,533.88              | 4,510.14              | 4,509.98              | 18.51                            | 82.74                         | -97.43                | 700.97                              | -195.99                             | 1,126.41                        | 1,027.28                               | 99.13                     | 11.363            |                    |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | 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                                                             |                       | Reference             |                       | 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                                                                                 | 4,536.45              | 4,512.71              | 4,512.55              | 19.06            | 82.79         | -92.47                | 700.97       | -195.99                | 1,216.55               | 1,117.33                | 99.22                     | 12.261            |                    |                    |           |
| 5,200.00                                                                                 | 4,538.42              | 4,514.68              | 4,514.52              | 19.66            | 82.83         | -92.69                | 700.97       | -195.99                | 1,308.14               | 1,208.85                | 99.30                     | 13.174            |                    |                    |           |
| 5,300.00                                                                                 | 4,540.40              | 4,516.65              | 4,516.50              | 20.30            | 82.86         | -92.91                | 700.97       | -195.99                | 1,400.88               | 1,301.51                | 99.37                     | 14.097            |                    |                    |           |
| 5,400.00                                                                                 | 4,542.37              | 4,518.62              | 4,518.47              | 20.99            | 82.90         | -93.14                | 700.97       | -195.99                | 1,494.56               | 1,395.11                | 99.45                     | 15.028            |                    |                    |           |
| 5,500.00                                                                                 | 4,544.34              | 4,520.60              | 4,520.44              | 21.71            | 82.93         | -93.36                | 700.97       | -195.99                | 1,589.00               | 1,489.48                | 99.52                     | 15.966            |                    |                    |           |
| 5,600.00                                                                                 | 4,546.31              | 4,522.57              | 4,522.41              | 22.46            | 82.97         | -93.58                | 700.97       | -195.99                | 1,684.08               | 1,584.48                | 99.59                     | 16.910            |                    |                    |           |
| 5,700.00                                                                                 | 4,548.28              | 4,524.54              | 4,524.38              | 23.25            | 83.01         | -93.80                | 700.97       | -195.99                | 1,779.70               | 1,680.03                | 99.66                     | 17.857            |                    |                    |           |
| 5,800.00                                                                                 | 4,550.25              | 4,526.51              | 4,526.35              | 24.06            | 83.04         | -94.03                | 700.97       | -195.99                | 1,875.77               | 1,776.03                | 99.74                     | 18.807            |                    |                    |           |
| 5,900.00                                                                                 | 4,552.22              | 4,528.48              | 4,528.32              | 24.90            | 83.08         | -94.25                | 700.97       | -195.99                | 1,972.23               | 1,872.43                | 99.81                     | 19.761            |                    |                    |           |
| 6,000.00                                                                                 | 4,554.19              | 4,530.45              | 4,530.29              | 25.76            | 83.12         | -94.47                | 700.97       | -195.99                | 2,069.03               | 1,969.15                | 99.88                     | 20.716            |                    |                    |           |
| 6,100.00                                                                                 | 4,556.17              | 4,532.42              | 4,532.27              | 26.64            | 83.15         | -94.69                | 700.97       | -195.99                | 2,166.11               | 2,066.17                | 99.95                     | 21.673            |                    |                    |           |
| 6,200.00                                                                                 | 4,558.14              | 4,534.39              | 4,534.24              | 27.53            | 83.19         | -94.91                | 700.97       | -195.99                | 2,263.45               | 2,163.43                | 100.02                    | 22.631            |                    |                    |           |
| 6,300.00                                                                                 | 4,560.11              | 4,536.37              | 4,536.21              | 28.45            | 83.22         | -95.14                | 700.97       | -195.99                | 2,361.01               | 2,260.92                | 100.09                    | 23.590            |                    |                    |           |
| 6,400.00                                                                                 | 4,562.08              | 4,538.34              | 4,538.18              | 29.38            | 83.26         | -95.36                | 700.97       | -195.99                | 2,458.76               | 2,358.60                | 100.16                    | 24.549            |                    |                    |           |
| 6,500.00                                                                                 | 4,564.05              | 4,540.31              | 4,540.15              | 30.32            | 83.30         | -95.58                | 700.97       | -195.99                | 2,556.69               | 2,456.46                | 100.23                    | 25.509            |                    |                    |           |
| 6,600.00                                                                                 | 4,566.02              | 4,542.28              | 4,542.12              | 31.27            | 83.33         | -95.80                | 700.97       | -195.99                | 2,654.76               | 2,554.47                | 100.30                    | 26.469            |                    |                    |           |
| 6,700.00                                                                                 | 4,567.99              | 4,544.25              | 4,544.09              | 32.24            | 83.37         | -96.02                | 700.97       | -195.99                | 2,752.98               | 2,652.61                | 100.37                    | 27.428            |                    |                    |           |
| 6,800.00                                                                                 | 4,569.96              | 4,546.22              | 4,546.06              | 33.21            | 83.40         | -96.24                | 700.97       | -195.99                | 2,851.32               | 2,750.88                | 100.44                    | 28.388            |                    |                    |           |
| 6,900.00                                                                                 | 4,571.94              | 4,548.19              | 4,548.04              | 34.20            | 83.44         | -96.46                | 700.97       | -195.99                | 2,949.77               | 2,849.25                | 100.51                    | 29.347            |                    |                    |           |
| 7,000.00                                                                                 | 4,573.91              | 4,550.16              | 4,550.01              | 35.19            | 83.48         | -96.68                | 700.97       | -195.99                | 3,048.31               | 2,947.73                | 100.59                    | 30.305            |                    |                    |           |
| 7,100.00                                                                                 | 4,575.88              | 4,552.14              | 4,551.98              | 36.19            | 83.51         | -96.90                | 700.97       | -195.99                | 3,146.95               | 3,046.29                | 100.66                    | 31.263            |                    |                    |           |
| 7,200.00                                                                                 | 4,577.85              | 4,554.11              | 4,553.95              | 37.20            | 83.55         | -97.12                | 700.97       | -195.99                | 3,245.67               | 3,144.94                | 100.73                    | 32.220            |                    |                    |           |
| 7,300.00                                                                                 | 4,579.82              | 4,556.08              | 4,555.92              | 38.21            | 83.58         | -97.34                | 700.97       | -195.99                | 3,344.47               | 3,243.66                | 100.81                    | 33.176            |                    |                    |           |
| 7,400.00                                                                                 | 4,581.79              | 4,558.05              | 4,557.89              | 39.23            | 83.62         | -97.56                | 700.97       | -195.99                | 3,443.33               | 3,342.45                | 100.89                    | 34.131            |                    |                    |           |
| 7,500.00                                                                                 | 4,583.76              | 4,560.02              | 4,559.86              | 40.26            | 83.66         | -97.78                | 700.97       | -195.99                | 3,542.26               | 3,441.30                | 100.96                    | 35.085            |                    |                    |           |
| 7,600.00                                                                                 | 4,585.73              | 4,561.99              | 4,561.83              | 41.29            | 83.69         | -98.00                | 700.97       | -195.99                | 3,641.24               | 3,540.20                | 101.04                    | 36.038            |                    |                    |           |
| 7,700.00                                                                                 | 4,587.70              | 4,563.96              | 4,563.80              | 42.33            | 83.73         | -98.22                | 700.97       | -195.99                | 3,740.28               | 3,639.16                | 101.12                    | 36.990            |                    |                    |           |
| 7,800.00                                                                                 | 4,589.68              | 4,565.93              | 4,565.78              | 43.37            | 83.76         | -98.44                | 700.97       | -195.99                | 3,839.37               | 3,738.17                | 101.20                    | 37.940            |                    |                    |           |
| 7,900.00                                                                                 | 4,591.65              | 4,567.90              | 4,567.75              | 44.41            | 83.80         | -98.66                | 700.97       | -195.99                | 3,938.50               | 3,837.22                | 101.27                    | 38.889            |                    |                    |           |
| 8,000.00                                                                                 | 4,593.62              | 4,569.88              | 4,569.72              | 45.46            | 83.84         | -98.87                | 700.97       | -195.99                | 4,037.67               | 3,936.32                | 101.35                    | 39.837            |                    |                    |           |
| 8,100.00                                                                                 | 4,595.59              | 4,571.85              | 4,571.69              | 46.52            | 83.87         | -99.09                | 700.97       | -195.99                | 4,136.88               | 4,035.45                | 101.44                    | 40.784            |                    |                    |           |
| 8,200.00                                                                                 | 4,597.56              | 4,573.82              | 4,573.66              | 47.57            | 83.91         | -99.31                | 700.97       | -195.99                | 4,236.13               | 4,134.61                | 101.52                    | 41.728            |                    |                    |           |
| 8,300.00                                                                                 | 4,599.53              | 4,575.79              | 4,575.63              | 48.63            | 83.94         | -99.53                | 700.97       | -195.99                | 4,335.41               | 4,233.81                | 101.60                    | 42.672            |                    |                    |           |
| 8,400.00                                                                                 | 4,601.50              | 4,577.76              | 4,577.60              | 49.69            | 83.98         | -99.74                | 700.97       | -195.99                | 4,434.73               | 4,333.04                | 101.68                    | 43.614            |                    |                    |           |
| 8,500.00                                                                                 | 4,603.47              | 4,579.73              | 4,579.57              | 50.76            | 84.02         | -99.96                | 700.97       | -195.99                | 4,534.07               | 4,432.30                | 101.77                    | 44.554            |                    |                    |           |
| 8,600.00                                                                                 | 4,605.45              | 4,581.70              | 4,581.55              | 51.83            | 84.05         | -100.18               | 700.97       | -195.99                | 4,633.44               | 4,531.59                | 101.85                    | 45.493            |                    |                    |           |
| 8,700.00                                                                                 | 4,607.42              | 4,583.67              | 4,583.52              | 52.90            | 84.09         | -100.39               | 700.97       | -195.99                | 4,732.83               | 4,630.90                | 101.94                    | 46.430            |                    |                    |           |
| 8,800.00                                                                                 | 4,609.39              | 4,585.65              | 4,585.49              | 53.97            | 84.12         | -100.61               | 700.97       | -195.99                | 4,832.25               | 4,730.23                | 102.02                    | 47.365            |                    |                    |           |
| 8,900.00                                                                                 | 4,611.36              | 4,587.62              | 4,587.46              | 55.04            | 84.16         | -100.82               | 700.97       | -195.99                | 4,931.70               | 4,829.59                | 102.11                    | 48.298            |                    |                    |           |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design: SMITHDALE 29 FEDERAL - OFFSET: STALEY STATE 3 - Wellbore #1 - Wellbore #1 |                             |                             |                             |                     |                  |                             |                        |                 |                                                            |                    |                                 |                      | Offset Site Error: 0.00 usft |
|------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|------------------------|-----------------|------------------------------------------------------------|--------------------|---------------------------------|----------------------|------------------------------|
| Survey Program: 539-INC-ONLY                                                             |                             | Offset                      |                             | Semi Major Axis     |                  | Highside<br>Toolface<br>(°) | Offset Wellbore Centre |                 | Rule Assigned:<br>Distance<br>Between<br>Centres<br>(usft) |                    | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning                      |
| Measured<br>Depth<br>(usft)                                                              | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                             | +N/-S<br>(usft)        | +E/-W<br>(usft) | Between<br>Centres<br>(usft)                               | Ellipses<br>(usft) |                                 |                      |                              |
| 0.00                                                                                     | 0.00                        | 0.00                        | 0.00                        | 0.00                | 0.00             | 30.38                       | 717.53                 | 420.66          | 832.04                                                     |                    |                                 |                      |                              |
| 100.00                                                                                   | 100.00                      | 78.00                       | 78.00                       | 0.29                | 1.36             | 30.38                       | 717.53                 | 420.66          | 831.75                                                     | 830.10             | 1.64                            | 506.218              |                              |
| 200.00                                                                                   | 200.00                      | 178.00                      | 178.00                      | 0.65                | 3.10             | 30.38                       | 717.53                 | 420.66          | 831.75                                                     | 828.01             | 3.74                            | 222.371              |                              |
| 300.00                                                                                   | 300.00                      | 278.00                      | 278.00                      | 1.00                | 4.83             | 30.38                       | 717.53                 | 420.66          | 831.75                                                     | 825.91             | 5.84                            | 142.480              |                              |
| 400.00                                                                                   | 399.98                      | 377.98                      | 377.98                      | 1.36                | 6.57             | 56.26                       | 717.53                 | 420.66          | 830.78                                                     | 822.84             | 7.93                            | 104.710              |                              |
| 500.00                                                                                   | 499.85                      | 477.85                      | 477.85                      | 1.73                | 8.31             | 56.58                       | 717.53                 | 420.66          | 827.97                                                     | 817.94             | 10.03                           | 82.551               |                              |
| 600.00                                                                                   | 599.67                      | 577.67                      | 577.67                      | 2.08                | 10.07            | 56.92                       | 717.53                 | 420.66          | 824.72                                                     | 812.58             | 12.15                           | 67.895               |                              |
| 700.00                                                                                   | 699.50                      | 677.50                      | 677.50                      | 2.44                | 11.87            | 57.27                       | 717.53                 | 420.66          | 821.51                                                     | 807.21             | 14.30                           | 57.436               |                              |
| 800.00                                                                                   | 799.32                      | 777.35                      | 777.35                      | 2.80                | 13.66            | 57.60                       | 717.79                 | 420.66          | 818.54                                                     | 802.08             | 16.46                           | 49.730               |                              |
| 900.00                                                                                   | 899.15                      | 877.83                      | 877.82                      | 3.15                | 15.47            | 57.96                       | 717.73                 | 420.66          | 815.34                                                     | 796.71             | 18.63                           | 43.771               |                              |
| 1,000.00                                                                                 | 998.97                      | 978.29                      | 978.29                      | 3.51                | 17.28            | 58.32                       | 717.59                 | 420.66          | 812.09                                                     | 791.30             | 20.80                           | 39.052               |                              |
| 1,100.00                                                                                 | 1,098.80                    | 1,076.81                    | 1,076.80                    | 3.87                | 19.08            | 58.67                       | 717.53                 | 420.66          | 808.95                                                     | 785.99             | 22.96                           | 35.240               |                              |
| 1,200.00                                                                                 | 1,198.62                    | 1,176.64                    | 1,176.62                    | 4.23                | 20.92            | 59.03                       | 717.53                 | 420.66          | 805.89                                                     | 780.74             | 25.15                           | 32.043               |                              |
| 1,300.00                                                                                 | 1,298.45                    | 1,276.65                    | 1,276.63                    | 4.59                | 22.76            | 59.37                       | 718.08                 | 420.66          | 803.32                                                     | 775.97             | 27.35                           | 29.373               |                              |
| 1,400.00                                                                                 | 1,398.27                    | 1,377.63                    | 1,377.61                    | 4.95                | 24.62            | 59.74                       | 717.96                 | 420.66          | 800.22                                                     | 770.66             | 29.57                           | 27.066               |                              |
| 1,500.00                                                                                 | 1,498.10                    | 1,478.59                    | 1,478.58                    | 5.31                | 26.47            | 60.13                       | 717.67                 | 420.66          | 797.02                                                     | 765.24             | 31.78                           | 25.078               |                              |
| 1,600.00                                                                                 | 1,597.92                    | 1,575.96                    | 1,575.92                    | 5.67                | 28.29            | 60.49                       | 717.53                 | 420.66          | 793.96                                                     | 760.00             | 33.96                           | 23.379               |                              |
| 1,700.00                                                                                 | 1,697.75                    | 1,675.78                    | 1,675.75                    | 6.03                | 30.18            | 60.86                       | 717.53                 | 420.66          | 791.06                                                     | 754.86             | 36.20                           | 21.850               |                              |
| 1,800.00                                                                                 | 1,797.57                    | 1,775.88                    | 1,775.85                    | 6.39                | 32.07            | 61.22                       | 718.05                 | 420.66          | 788.62                                                     | 750.17             | 38.45                           | 20.509               |                              |
| 1,900.00                                                                                 | 1,897.40                    | 1,876.89                    | 1,876.85                    | 6.74                | 33.97            | 61.61                       | 717.91                 | 420.66          | 785.68                                                     | 744.96             | 40.72                           | 19.296               |                              |
| 2,000.00                                                                                 | 1,997.22                    | 1,977.87                    | 1,977.84                    | 7.10                | 35.88            | 62.01                       | 717.59                 | 420.66          | 782.62                                                     | 739.64             | 42.98                           | 18.209               |                              |
| 2,100.00                                                                                 | 2,097.05                    | 2,075.11                    | 2,075.05                    | 7.46                | 37.81            | 62.38                       | 717.53                 | 420.66          | 779.81                                                     | 734.54             | 45.27                           | 17.225               |                              |
| 2,200.00                                                                                 | 2,196.87                    | 2,174.93                    | 2,174.87                    | 7.82                | 39.81            | 62.77                       | 717.53                 | 420.66          | 777.08                                                     | 729.45             | 47.63                           | 16.314               |                              |
| 2,300.00                                                                                 | 2,296.70                    | 2,274.76                    | 2,274.70                    | 8.18                | 41.81            | 63.15                       | 717.53                 | 420.66          | 774.39                                                     | 724.40             | 49.99                           | 15.491               |                              |
| 2,400.00                                                                                 | 2,396.52                    | 2,374.59                    | 2,374.52                    | 8.54                | 43.81            | 63.55                       | 717.53                 | 420.66          | 771.74                                                     | 719.39             | 52.35                           | 14.742               |                              |
| 2,500.00                                                                                 | 2,496.35                    | 2,474.41                    | 2,474.35                    | 8.90                | 45.81            | 63.94                       | 717.53                 | 420.66          | 769.12                                                     | 714.41             | 54.71                           | 14.058               |                              |
| 2,600.00                                                                                 | 2,596.18                    | 2,574.81                    | 2,574.74                    | 9.26                | 47.82            | 64.26                       | 719.16                 | 420.66          | 767.81                                                     | 710.73             | 57.08                           | 13.452               |                              |
| 2,700.00                                                                                 | 2,696.00                    | 2,675.41                    | 2,675.33                    | 9.62                | 49.83            | 64.67                       | 719.00                 | 420.66          | 765.14                                                     | 705.68             | 59.45                           | 12.870               |                              |
| 2,800.00                                                                                 | 2,795.83                    | 2,776.00                    | 2,775.92                    | 9.98                | 51.85            | 65.09                       | 718.71                 | 420.66          | 762.40                                                     | 700.57             | 61.83                           | 12.331               |                              |
| 2,900.00                                                                                 | 2,895.65                    | 2,876.57                    | 2,876.49                    | 10.34               | 53.86            | 65.52                       | 718.29                 | 420.66          | 759.60                                                     | 695.40             | 64.20                           | 11.832               |                              |
| 3,000.00                                                                                 | 2,995.48                    | 2,977.14                    | 2,977.05                    | 10.70               | 55.88            | 65.95                       | 717.74                 | 420.66          | 756.75                                                     | 690.18             | 66.57                           | 11.367               |                              |
| 3,100.00                                                                                 | 3,095.30                    | 3,073.48                    | 3,073.30                    | 11.06               | 57.86            | 66.36                       | 717.53                 | 420.66          | 754.19                                                     | 685.27             | 68.92                           | 10.944               |                              |
| 3,200.00                                                                                 | 3,195.13                    | 3,173.31                    | 3,173.13                    | 11.42               | 59.94            | 66.77                       | 717.53                 | 420.66          | 751.83                                                     | 680.48             | 71.36                           | 10.536               |                              |
| 3,300.00                                                                                 | 3,294.95                    | 3,273.31                    | 3,273.12                    | 11.78               | 62.02            | 67.13                       | 718.63                 | 420.66          | 750.34                                                     | 676.54             | 73.80                           | 10.167               |                              |
| 3,400.00                                                                                 | 3,394.78                    | 3,375.11                    | 3,374.92                    | 12.14               | 64.15            | 67.56                       | 718.42                 | 420.66          | 747.91                                                     | 671.63             | 76.28                           | 9.805                |                              |
| 3,500.00                                                                                 | 3,494.60                    | 3,476.88                    | 3,476.68                    | 12.49               | 66.27            | 68.02                       | 717.85                 | 420.66          | 745.25                                                     | 666.49             | 78.76                           | 9.463                |                              |
| 3,600.00                                                                                 | 3,594.41                    | 3,572.67                    | 3,572.41                    | 12.85               | 68.27            | -9.12                       | 717.53                 | 420.66          | 740.18                                                     | 659.06             | 81.12                           | 9.125                |                              |
| 3,700.00                                                                                 | 3,693.54                    | 3,671.80                    | 3,671.54                    | 13.19               | 70.35            | -32.00                      | 717.53                 | 420.66          | 728.53                                                     | 644.99             | 83.53                           | 8.721                |                              |
| 3,800.00                                                                                 | 3,790.92                    | 3,769.82                    | 3,769.55                    | 13.52               | 72.40            | -40.36                      | 718.48                 | 420.66          | 711.01                                                     | 625.10             | 85.92                           | 8.276                |                              |
| 3,900.00                                                                                 | 3,885.46                    | 3,866.40                    | 3,866.12                    | 13.84               | 74.43            | -46.30                      | 718.18                 | 420.66          | 686.65                                                     | 598.39             | 88.26                           | 7.780                |                              |
| 4,000.00                                                                                 | 3,976.15                    | 3,959.00                    | 3,958.72                    | 14.17               | 76.37            | -52.09                      | 717.56                 | 420.66          | 657.15                                                     | 566.65             | 90.50                           | 7.261                |                              |
| 4,100.00                                                                                 | 4,061.97                    | 3,994.00                    | 3,993.67                    | 14.50               | 77.10            | -56.10                      | 717.53                 | 420.66          | 626.51                                                     | 535.16             | 91.35                           | 6.859                |                              |
| 4,200.00                                                                                 | 4,142.00                    | 3,994.00                    | 3,993.67                    | 14.84               | 77.10            | -58.00                      | 717.53                 | 420.66          | 604.67                                                     | 514.61             | 90.06                           | 6.714 SF             |                              |
| 4,300.00                                                                                 | 4,215.36                    | 3,994.00                    | 3,993.67                    | 15.20               | 77.10            | -59.07                      | 717.53                 | 420.66          | 594.15                                                     | 506.81             | 87.34                           | 6.803 ES             |                              |
| 4,337.61                                                                                 | 4,241.06                    | 3,994.00                    | 3,993.67                    | 15.34               | 77.10            | -59.27                      | 717.53                 | 420.66          | 593.29                                                     | 507.25             | 86.04                           | 6.896 CC             |                              |
| 4,400.00                                                                                 | 4,281.24                    | 3,994.00                    | 3,993.67                    | 15.57               | 77.10            | -59.36                      | 717.53                 | 420.66          | 595.65                                                     | 511.95             | 83.70                           | 7.117                |                              |
| 4,500.00                                                                                 | 4,338.92                    | 3,994.00                    | 3,993.67                    | 15.98               | 77.10            | -58.91                      | 717.53                 | 420.66          | 609.07                                                     | 529.11             | 79.97                           | 7.617                |                              |
| 4,600.00                                                                                 | 4,389.56                    | 3,994.00                    | 3,993.67                    | 16.42               | 77.10            | -58.57                      | 717.53                 | 420.66          | 634.43                                                     | 557.56             | 76.87                           | 8.253                |                              |
| 4,700.00                                                                                 | 4,439.56                    | 3,994.00                    | 3,993.67                    | 16.90               | 77.10            | -58.57                      | 717.53                 | 420.66          | 673.52                                                     | 599.04             | 74.48                           | 9.043                |                              |
| 4,800.00                                                                                 | 4,486.55                    | 3,994.00                    | 3,993.67                    | 17.42               | 77.10            | -55.51                      | 717.53                 | 420.66          | 722.87                                                     | 649.79             | 73.07                           | 9.892                |                              |
| 4,900.00                                                                                 | 4,518.67                    | 3,994.00                    | 3,993.67                    | 17.96               | 77.10            | -50.69                      | 717.53                 | 420.66          | 774.53                                                     | 701.22             | 73.31                           | 10.565               |                              |
| 5,000.00                                                                                 | 4,533.88                    | 3,994.00                    | 3,993.67                    | 18.51               | 77.10            | -46.17                      | 717.53                 | 420.66          | 826.20                                                     | 751.25             | 74.94                           | 11.024               |                              |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design:SMITHDALE 29 FEDERAL - OFFSET: STALEY STATE 3 - Wellbore #1 - Wellbore #1 |                       |                       |                       |                  |               |                       |              |                        |                        |                                  |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|--------------|------------------------|------------------------|----------------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 539-INC-ONLY                                                            |                       | Reference             |                       | 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) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning            |           |
| 5,100.00                                                                                | 4,536.45              | 3,994.00              | 3,993.67              | 19.06            | 77.10         | -45.06                | 717.53       | 420.66                 | 879.30                 | 802.00                           | 77.30                     | 11.375            |                    |           |
| 5,200.00                                                                                | 4,538.42              | 3,994.00              | 3,993.67              | 19.66            | 77.10         | -45.06                | 717.53       | 420.66                 | 939.74                 | 860.22                           | 79.52                     | 11.818            |                    |           |
| 5,300.00                                                                                | 4,540.40              | 3,994.00              | 3,993.67              | 20.30            | 77.10         | -45.06                | 717.53       | 420.66                 | 1,006.51               | 925.03                           | 81.48                     | 12.353            |                    |           |
| 5,400.00                                                                                | 4,542.37              | 3,994.00              | 3,993.67              | 20.99            | 77.10         | -45.06                | 717.53       | 420.66                 | 1,078.43               | 995.26                           | 83.18                     | 12.966            |                    |           |
| 5,500.00                                                                                | 4,544.34              | 3,994.00              | 3,993.67              | 21.71            | 77.10         | -45.06                | 717.53       | 420.66                 | 1,154.54               | 1,069.93                         | 84.62                     | 13.644            |                    |           |
| 5,600.00                                                                                | 4,546.31              | 3,994.00              | 3,993.67              | 22.46            | 77.10         | -45.06                | 717.53       | 420.66                 | 1,234.07               | 1,148.23                         | 85.84                     | 14.377            |                    |           |
| 5,700.00                                                                                | 4,548.28              | 3,994.00              | 3,993.67              | 23.25            | 77.10         | -45.06                | 717.53       | 420.66                 | 1,316.39               | 1,229.52                         | 86.87                     | 15.154            |                    |           |
| 5,800.00                                                                                | 4,550.25              | 3,994.00              | 3,993.67              | 24.06            | 77.10         | -45.06                | 717.53       | 420.66                 | 1,401.01               | 1,313.27                         | 87.74                     | 15.968            |                    |           |
| 5,900.00                                                                                | 4,552.22              | 3,994.00              | 3,993.67              | 24.90            | 77.10         | -45.06                | 717.53       | 420.66                 | 1,487.54               | 1,399.06                         | 88.48                     | 16.812            |                    |           |
| 6,000.00                                                                                | 4,554.19              | 3,994.00              | 3,993.67              | 25.76            | 77.10         | -45.06                | 717.53       | 420.66                 | 1,575.67               | 1,486.55                         | 89.12                     | 17.681            |                    |           |
| 6,100.00                                                                                | 4,556.17              | 3,994.00              | 3,993.67              | 26.64            | 77.10         | -45.06                | 717.53       | 420.66                 | 1,665.14               | 1,575.47                         | 89.66                     | 18.571            |                    |           |
| 6,200.00                                                                                | 4,558.14              | 3,994.00              | 3,993.67              | 27.53            | 77.10         | -45.06                | 717.53       | 420.66                 | 1,755.74               | 1,665.61                         | 90.14                     | 19.478            |                    |           |
| 6,300.00                                                                                | 4,560.11              | 3,994.00              | 3,993.67              | 28.45            | 77.10         | -45.06                | 717.53       | 420.66                 | 1,847.32               | 1,756.77                         | 90.55                     | 20.401            |                    |           |
| 6,400.00                                                                                | 4,562.08              | 3,994.00              | 3,993.67              | 29.38            | 77.10         | -45.06                | 717.53       | 420.66                 | 1,939.73               | 1,848.81                         | 90.91                     | 21.336            |                    |           |
| 6,500.00                                                                                | 4,564.05              | 3,994.00              | 3,993.67              | 30.32            | 77.10         | -45.06                | 717.53       | 420.66                 | 2,032.85               | 1,941.62                         | 91.23                     | 22.282            |                    |           |
| 6,600.00                                                                                | 4,566.02              | 3,994.00              | 3,993.67              | 31.27            | 77.10         | -45.06                | 717.53       | 420.66                 | 2,126.60               | 2,035.09                         | 91.52                     | 23.237            |                    |           |
| 6,700.00                                                                                | 4,567.99              | 3,994.00              | 3,993.67              | 32.24            | 77.10         | -45.06                | 717.53       | 420.66                 | 2,220.90               | 2,129.13                         | 91.77                     | 24.200            |                    |           |
| 6,800.00                                                                                | 4,569.96              | 3,994.00              | 3,993.67              | 33.21            | 77.10         | -45.06                | 717.53       | 420.66                 | 2,315.67               | 2,223.67                         | 92.00                     | 25.169            |                    |           |
| 6,900.00                                                                                | 4,571.94              | 3,994.00              | 3,993.67              | 34.20            | 77.10         | -45.06                | 717.53       | 420.66                 | 2,410.87               | 2,318.66                         | 92.21                     | 26.145            |                    |           |
| 7,000.00                                                                                | 4,573.91              | 3,994.00              | 3,993.67              | 35.19            | 77.10         | -45.06                | 717.53       | 420.66                 | 2,506.44               | 2,414.04                         | 92.40                     | 27.126            |                    |           |
| 7,100.00                                                                                | 4,575.88              | 3,994.00              | 3,993.67              | 36.19            | 77.10         | -45.06                | 717.53       | 420.66                 | 2,602.35               | 2,509.77                         | 92.58                     | 28.110            |                    |           |
| 7,200.00                                                                                | 4,577.85              | 3,994.00              | 3,993.67              | 37.20            | 77.10         | -45.06                | 717.53       | 420.66                 | 2,698.55               | 2,605.81                         | 92.74                     | 29.099            |                    |           |
| 7,300.00                                                                                | 4,579.82              | 3,994.00              | 3,993.67              | 38.21            | 77.10         | -45.06                | 717.53       | 420.66                 | 2,795.01               | 2,702.13                         | 92.89                     | 30.091            |                    |           |
| 7,400.00                                                                                | 4,581.79              | 3,994.00              | 3,993.67              | 39.23            | 77.10         | -45.06                | 717.53       | 420.66                 | 2,891.72               | 2,798.70                         | 93.02                     | 31.086            |                    |           |
| 7,500.00                                                                                | 4,583.76              | 3,994.00              | 3,993.67              | 40.26            | 77.10         | -45.06                | 717.53       | 420.66                 | 2,988.65               | 2,895.49                         | 93.15                     | 32.083            |                    |           |
| 7,600.00                                                                                | 4,585.73              | 3,994.00              | 3,993.67              | 41.29            | 77.10         | -45.06                | 717.53       | 420.66                 | 3,085.77               | 2,992.49                         | 93.28                     | 33.082            |                    |           |
| 7,700.00                                                                                | 4,587.70              | 3,994.00              | 3,993.67              | 42.33            | 77.10         | -45.06                | 717.53       | 420.66                 | 3,183.07               | 3,089.67                         | 93.39                     | 34.082            |                    |           |
| 7,800.00                                                                                | 4,589.68              | 3,994.00              | 3,993.67              | 43.37            | 77.10         | -45.06                | 717.53       | 420.66                 | 3,280.53               | 3,187.02                         | 93.50                     | 35.084            |                    |           |
| 7,900.00                                                                                | 4,591.65              | 3,994.00              | 3,993.67              | 44.41            | 77.10         | -45.06                | 717.53       | 420.66                 | 3,378.14               | 3,284.53                         | 93.61                     | 36.088            |                    |           |
| 8,000.00                                                                                | 4,593.62              | 3,994.00              | 3,993.67              | 45.46            | 77.10         | -45.06                | 717.53       | 420.66                 | 3,475.88               | 3,382.17                         | 93.71                     | 37.092            |                    |           |
| 8,100.00                                                                                | 4,595.59              | 3,994.00              | 3,993.67              | 46.52            | 77.10         | -45.06                | 717.53       | 420.66                 | 3,573.75               | 3,479.95                         | 93.81                     | 38.097            |                    |           |
| 8,200.00                                                                                | 4,597.56              | 3,994.00              | 3,993.67              | 47.57            | 77.10         | -45.06                | 717.53       | 420.66                 | 3,671.74               | 3,577.84                         | 93.90                     | 39.102            |                    |           |
| 8,300.00                                                                                | 4,599.53              | 3,994.00              | 3,993.67              | 48.63            | 77.10         | -45.06                | 717.53       | 420.66                 | 3,769.83               | 3,675.84                         | 93.99                     | 40.108            |                    |           |
| 8,400.00                                                                                | 4,601.50              | 3,994.00              | 3,993.67              | 49.69            | 77.10         | -45.06                | 717.53       | 420.66                 | 3,868.02               | 3,773.94                         | 94.08                     | 41.114            |                    |           |
| 8,500.00                                                                                | 4,603.47              | 3,994.00              | 3,993.67              | 50.76            | 77.10         | -45.06                | 717.53       | 420.66                 | 3,966.30               | 3,872.13                         | 94.17                     | 42.121            |                    |           |
| 8,600.00                                                                                | 4,605.45              | 3,994.00              | 3,993.67              | 51.83            | 77.10         | -45.06                | 717.53       | 420.66                 | 4,064.66               | 3,970.41                         | 94.25                     | 43.127            |                    |           |
| 8,700.00                                                                                | 4,607.42              | 3,994.00              | 3,993.67              | 52.90            | 77.10         | -45.06                | 717.53       | 420.66                 | 4,163.10               | 4,068.77                         | 94.33                     | 44.133            |                    |           |
| 8,800.00                                                                                | 4,609.39              | 3,994.00              | 3,993.67              | 53.97            | 77.10         | -45.06                | 717.53       | 420.66                 | 4,261.62               | 4,167.21                         | 94.41                     | 45.139            |                    |           |
| 8,900.00                                                                                | 4,611.36              | 3,994.00              | 3,993.67              | 55.04            | 77.10         | -45.06                | 717.53       | 420.66                 | 4,360.20               | 4,265.71                         | 94.49                     | 46.144            |                    |           |
| 9,000.00                                                                                | 4,613.33              | 3,994.00              | 3,993.67              | 56.12            | 77.10         | -45.06                | 717.53       | 420.66                 | 4,458.84               | 4,364.27                         | 94.57                     | 47.149            |                    |           |
| 9,100.00                                                                                | 4,615.30              | 3,994.00              | 3,993.67              | 57.20            | 77.10         | -45.06                | 717.53       | 420.66                 | 4,557.55               | 4,462.90                         | 94.65                     | 48.153            |                    |           |
| 9,200.00                                                                                | 4,617.27              | 3,994.00              | 3,993.67              | 58.28            | 77.10         | -45.06                | 717.53       | 420.66                 | 4,656.31               | 4,561.58                         | 94.72                     | 49.157            |                    |           |
| 9,300.00                                                                                | 4,619.24              | 3,994.00              | 3,993.67              | 59.36            | 77.10         | -45.06                | 717.53       | 420.66                 | 4,755.12               | 4,660.32                         | 94.80                     | 50.160            |                    |           |
| 9,400.00                                                                                | 4,621.22              | 3,994.00              | 3,993.67              | 60.45            | 77.10         | -45.06                | 717.53       | 420.66                 | 4,853.98               | 4,759.10                         | 94.87                     | 51.162            |                    |           |
| 9,500.00                                                                                | 4,623.19              | 3,994.00              | 3,993.67              | 61.53            | 77.10         | -45.06                | 717.53       | 420.66                 | 4,952.88               | 4,857.93                         | 94.95                     | 52.164            |                    |           |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design: SMITHDALE 29 FEDERAL - OFFSET: STALEY STATE 7 - Wellbore #1 - Wellbore #1 |                       |                       |                       |                  |               |                        |              |                |                        |                         |                           |                   | Offset Site Error: |
|------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|--------------|----------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|
| Survey Program: 425-INC-ONLY                                                             |                       |                       |                       |                  |               |                        |              |                |                        |                         |                           |                   | Offset Well Error: |
| Reference                                                                                | Offset                | Semi Major Axis       |                       | Highside         |               | 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) | Toolface (°)           | +N/-S (usft) | +E/-W (usft)   | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) |                   |                    |
| 0.00                                                                                     | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | -57.84                 | 152.87       | -243.15        | 287.72                 | 287.72                  |                           |                   |                    |
| 100.00                                                                                   | 100.00                | 83.00                 | 83.00                 | 0.29             | 1.41          | -57.84                 | 152.87       | -243.15        | 287.21                 | 285.52                  | 1.69                      | 169.497           |                    |
| 200.00                                                                                   | 200.00                | 183.00                | 183.00                | 0.65             | 3.10          | -57.84                 | 152.87       | -243.15        | 287.21                 | 283.46                  | 3.75                      | 76.610            |                    |
| 300.00                                                                                   | 300.00                | 283.00                | 283.00                | 1.00             | 4.80          | -57.84                 | 152.87       | -243.15        | 287.21                 | 281.41                  | 5.80                      | 49.489            |                    |
| 400.00                                                                                   | 399.98                | 382.98                | 382.98                | 1.36             | 6.50          | -32.28                 | 152.87       | -243.15        | 285.74                 | 277.88                  | 7.86                      | 36.366            |                    |
| 500.00                                                                                   | 499.85                | 482.85                | 482.85                | 1.73             | 8.23          | -32.87                 | 152.87       | -243.15        | 281.46                 | 271.51                  | 9.95                      | 28.291            |                    |
| 600.00                                                                                   | 599.67                | 582.67                | 582.67                | 2.08             | 9.98          | -33.53                 | 152.87       | -243.15        | 276.51                 | 264.45                  | 12.06                     | 22.926            |                    |
| 700.00                                                                                   | 699.50                | 682.50                | 682.50                | 2.44             | 11.74         | -34.22                 | 152.87       | -243.15        | 271.60                 | 257.43                  | 14.17                     | 19.161            |                    |
| 800.00                                                                                   | 799.32                | 782.32                | 782.32                | 2.80             | 13.50         | -34.93                 | 152.87       | -243.15        | 266.73                 | 250.44                  | 16.29                     | 16.376            |                    |
| 900.00                                                                                   | 899.15                | 882.15                | 882.15                | 3.15             | 15.25         | -35.67                 | 152.87       | -243.15        | 261.90                 | 243.50                  | 18.40                     | 14.232            |                    |
| 1,000.00                                                                                 | 998.97                | 981.97                | 981.97                | 3.51             | 17.01         | -36.44                 | 152.87       | -243.15        | 257.12                 | 236.60                  | 20.52                     | 12.530            |                    |
| 1,100.00                                                                                 | 1,098.80              | 1,081.80              | 1,081.80              | 3.87             | 18.78         | -37.24                 | 152.87       | -243.15        | 252.39                 | 229.74                  | 22.64                     | 11.146            |                    |
| 1,200.00                                                                                 | 1,198.62              | 1,181.63              | 1,181.62              | 4.23             | 20.55         | -38.06                 | 152.87       | -243.15        | 247.70                 | 222.94                  | 24.77                     | 10.002            |                    |
| 1,300.00                                                                                 | 1,298.45              | 1,281.54              | 1,281.54              | 4.59             | 22.31         | -38.87                 | 153.10       | -243.15        | 243.17                 | 216.28                  | 26.89                     | 9.043             |                    |
| 1,400.00                                                                                 | 1,398.27              | 1,381.45              | 1,381.45              | 4.95             | 24.08         | -39.79                 | 152.97       | -243.15        | 238.54                 | 209.53                  | 29.02                     | 8.221             |                    |
| 1,500.00                                                                                 | 1,498.10              | 1,481.11              | 1,481.10              | 5.31             | 25.85         | -40.74                 | 152.87       | -243.15        | 233.98                 | 202.84                  | 31.15                     | 7.512             |                    |
| 1,600.00                                                                                 | 1,597.92              | 1,580.93              | 1,580.92              | 5.67             | 27.64         | -41.70                 | 152.87       | -243.15        | 229.53                 | 196.24                  | 33.29                     | 6.894             |                    |
| 1,700.00                                                                                 | 1,697.75              | 1,680.76              | 1,680.76              | 6.03             | 29.43         | -42.64                 | 153.13       | -243.15        | 225.25                 | 189.81                  | 35.44                     | 6.356             |                    |
| 1,800.00                                                                                 | 1,797.57              | 1,780.66              | 1,780.65              | 6.39             | 31.22         | -43.69                 | 153.07       | -243.15        | 220.91                 | 183.32                  | 37.59                     | 5.877             |                    |
| 1,900.00                                                                                 | 1,897.40              | 1,880.55              | 1,880.54              | 6.74             | 33.01         | -44.81                 | 152.92       | -243.15        | 216.62                 | 176.88                  | 39.74                     | 5.451             |                    |
| 2,000.00                                                                                 | 1,997.22              | 1,980.24              | 1,980.22              | 7.10             | 34.82         | -45.95                 | 152.87       | -243.15        | 212.45                 | 170.54                  | 41.91                     | 5.069             |                    |
| 2,100.00                                                                                 | 2,097.05              | 2,080.07              | 2,080.05              | 7.46             | 36.65         | -47.11                 | 152.87       | -243.15        | 208.38                 | 164.29                  | 44.09                     | 4.726             |                    |
| 2,200.00                                                                                 | 2,196.87              | 2,179.90              | 2,179.88              | 7.82             | 38.47         | -48.17                 | 153.45       | -243.15        | 204.56                 | 158.29                  | 46.27                     | 4.421             |                    |
| 2,300.00                                                                                 | 2,296.70              | 2,279.81              | 2,279.79              | 8.18             | 40.29         | -49.45                 | 153.36       | -243.15        | 200.64                 | 152.18                  | 48.45                     | 4.141             |                    |
| 2,400.00                                                                                 | 2,396.52              | 2,379.71              | 2,379.68              | 8.54             | 42.12         | -50.83                 | 153.11       | -243.15        | 196.78                 | 146.15                  | 50.63                     | 3.886             |                    |
| 2,500.00                                                                                 | 2,496.35              | 2,479.39              | 2,479.35              | 8.90             | 43.93         | -52.26                 | 152.87       | -243.15        | 193.05                 | 140.24                  | 52.80                     | 3.656             |                    |
| 2,600.00                                                                                 | 2,596.18              | 2,579.21              | 2,579.18              | 9.26             | 45.73         | -53.67                 | 152.87       | -243.15        | 189.48                 | 134.52                  | 54.96                     | 3.448             |                    |
| 2,700.00                                                                                 | 2,696.00              | 2,679.04              | 2,679.00              | 9.62             | 47.52         | -54.98                 | 153.38       | -243.15        | 186.12                 | 129.00                  | 57.12                     | 3.258             |                    |
| 2,800.00                                                                                 | 2,795.83              | 2,778.91              | 2,778.87              | 9.98             | 49.32         | -56.52                 | 153.29       | -243.15        | 182.77                 | 123.50                  | 59.28                     | 3.083             |                    |
| 2,900.00                                                                                 | 2,895.65              | 2,878.77              | 2,878.73              | 10.34            | 51.12         | -58.18                 | 153.01       | -243.15        | 179.55                 | 118.11                  | 61.43                     | 2.923             |                    |
| 3,000.00                                                                                 | 2,995.48              | 2,978.52              | 2,978.48              | 10.70            | 52.92         | -59.86                 | 152.87       | -243.15        | 176.49                 | 112.89                  | 63.59                     | 2.775             |                    |
| 3,100.00                                                                                 | 3,095.30              | 3,078.35              | 3,078.30              | 11.06            | 54.72         | -61.54                 | 152.87       | -243.15        | 173.59                 | 107.84                  | 65.75                     | 2.640             |                    |
| 3,200.00                                                                                 | 3,195.13              | 3,178.17              | 3,178.13              | 11.42            | 56.52         | -63.19                 | 153.14       | -243.15        | 170.85                 | 102.94                  | 67.91                     | 2.516             |                    |
| 3,300.00                                                                                 | 3,294.95              | 3,278.00              | 3,277.95              | 11.78            | 58.32         | -65.00                 | 153.09       | -243.15        | 168.27                 | 98.20                   | 70.07                     | 2.401             |                    |
| 3,400.00                                                                                 | 3,394.78              | 3,377.81              | 3,377.76              | 12.14            | 60.12         | -66.90                 | 152.95       | -243.15        | 165.86                 | 93.63                   | 72.23                     | 2.296             |                    |
| 3,500.00                                                                                 | 3,494.60              | 3,477.66              | 3,477.60              | 12.49            | 61.96         | -68.83                 | 152.87       | -243.15        | 163.63                 | 89.20                   | 74.43                     | 2.198             |                    |
| 3,523.15                                                                                 | 3,517.72              | 3,500.77              | 3,500.72              | 12.58            | 62.39         | -90.00                 | 152.87       | -243.15        | 163.38                 | 88.44                   | 74.94                     | 2.180 CC, ES      |                    |
| 3,600.00                                                                                 | 3,594.41              | 3,577.47              | 3,577.41              | 12.85            | 63.83         | -147.75                | 152.87       | -243.15        | 165.51                 | 88.85                   | 76.65                     | 2.159 SF          |                    |
| 3,700.00                                                                                 | 3,693.54              | 3,676.60              | 3,676.54              | 13.19            | 65.68         | -171.01                | 152.87       | -243.15        | 177.77                 | 98.92                   | 78.85                     | 2.254             |                    |
| 3,800.00                                                                                 | 3,790.92              | 3,773.94              | 3,773.88              | 13.52            | 67.51         | -178.01                | 153.39       | -243.15        | 200.19                 | 119.19                  | 81.01                     | 2.471             |                    |
| 3,900.00                                                                                 | 3,885.46              | 3,868.43              | 3,868.37              | 13.84            | 69.28         | 178.65                 | 153.17       | -243.15        | 232.66                 | 149.57                  | 83.09                     | 2.800             |                    |
| 4,000.00                                                                                 | 3,976.15              | 3,959.24              | 3,959.15              | 14.17            | 70.98         | 176.85                 | 152.87       | -243.15        | 274.71                 | 189.62                  | 85.09                     | 3.229             |                    |
| 4,100.00                                                                                 | 4,061.97              | 3,962.00              | 3,961.91              | 14.50            | 71.03         | 174.98                 | 152.87       | -243.15        | 336.28                 | 253.40                  | 82.88                     | 4.058             |                    |
| 4,200.00                                                                                 | 4,142.00              | 3,962.00              | 3,961.91              | 14.84            | 71.03         | 172.51                 | 152.87       | -243.15        | 418.70                 | 339.53                  | 79.16                     | 5.289             |                    |
| 4,300.00                                                                                 | 4,215.36              | 3,962.00              | 3,961.91              | 15.20            | 71.03         | 168.33                 | 152.87       | -243.15        | 511.33                 | 434.83                  | 76.50                     | 6.684             |                    |
| 4,400.00                                                                                 | 4,281.24              | 3,962.00              | 3,961.91              | 15.57            | 71.03         | 158.52                 | 152.87       | -243.15        | 608.76                 | 533.69                  | 75.07                     | 8.110             |                    |
| 4,500.00                                                                                 | 4,338.92              | 3,962.00              | 3,961.91              | 15.98            | 71.03         | 117.05                 | 152.87       | -243.15        | 708.17                 | 633.60                  | 74.57                     | 9.497             |                    |
| 4,600.00                                                                                 | 4,389.56              | 3,962.00              | 3,961.91              | 16.42            | 71.03         | 78.67                  | 152.87       | -243.15        | 808.02                 | 733.40                  | 74.62                     | 10.829            |                    |
| 4,700.00                                                                                 | 4,439.56              | 3,962.00              | 3,961.91              | 16.90            | 71.03         | 78.67                  | 152.87       | -243.15        | 907.89                 | 833.19                  | 74.70                     | 12.154            |                    |
| 4,800.00                                                                                 | 4,486.55              | 3,962.00              | 3,961.91              | 17.42            | 71.03         | 19.93                  | 152.87       | -243.15        | 1,007.65               | 932.74                  | 74.91                     | 13.452            |                    |
| 4,900.00                                                                                 | 4,518.67              | 3,962.00              | 3,961.91              | 17.96            | 71.03         | 8.00                   | 152.87       | -243.15        | 1,105.62               | 1,029.96                | 75.66                     | 14.614            |                    |
| 5,000.00                                                                                 | 4,533.88              | 3,962.00              | 3,961.91              | 18.51            | 71.03         | 4.89                   | 152.87       | -243.15        | 1,199.62               | 1,122.81                | 76.81                     | 15.619            |                    |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | 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  |               | 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                                                                                 | 4,536.45              | 3,962.00              | 3,961.91              | 19.06            | 71.03         | 4.44                  | 152.87                 | -243.15      | 1,290.12                | 1,212.02                | 78.09                     | 16.520            |                    |           |
| 5,200.00                                                                                 | 4,538.42              | 3,962.00              | 3,961.91              | 19.66            | 71.03         | 4.44                  | 152.87                 | -243.15      | 1,381.70                | 1,302.53                | 79.17                     | 17.452            |                    |           |
| 5,300.00                                                                                 | 4,540.40              | 3,962.00              | 3,961.91              | 20.30            | 71.03         | 4.44                  | 152.87                 | -243.15      | 1,474.38                | 1,394.31                | 80.06                     | 18.415            |                    |           |
| 5,400.00                                                                                 | 4,542.37              | 3,962.00              | 3,961.91              | 20.99            | 71.03         | 4.44                  | 152.87                 | -243.15      | 1,567.95                | 1,487.14                | 80.81                     | 19.403            |                    |           |
| 5,500.00                                                                                 | 4,544.34              | 3,962.00              | 3,961.91              | 21.71            | 71.03         | 4.44                  | 152.87                 | -243.15      | 1,662.28                | 1,580.83                | 81.44                     | 20.410            |                    |           |
| 5,600.00                                                                                 | 4,546.31              | 3,962.00              | 3,961.91              | 22.46            | 71.03         | 4.44                  | 152.87                 | -243.15      | 1,757.23                | 1,675.24                | 81.98                     | 21.434            |                    |           |
| 5,700.00                                                                                 | 4,548.28              | 3,962.00              | 3,961.91              | 23.25            | 71.03         | 4.44                  | 152.87                 | -243.15      | 1,852.71                | 1,770.26                | 82.45                     | 22.471            |                    |           |
| 5,800.00                                                                                 | 4,550.25              | 3,962.00              | 3,961.91              | 24.06            | 71.03         | 4.44                  | 152.87                 | -243.15      | 1,948.65                | 1,865.79                | 82.85                     | 23.519            |                    |           |
| 5,900.00                                                                                 | 4,552.22              | 3,962.00              | 3,961.91              | 24.90            | 71.03         | 4.44                  | 152.87                 | -243.15      | 2,044.97                | 1,961.76                | 83.21                     | 24.576            |                    |           |
| 6,000.00                                                                                 | 4,554.19              | 3,962.00              | 3,961.91              | 25.76            | 71.03         | 4.44                  | 152.87                 | -243.15      | 2,141.64                | 2,058.11                | 83.52                     | 25.641            |                    |           |
| 6,100.00                                                                                 | 4,556.17              | 3,962.00              | 3,961.91              | 26.64            | 71.03         | 4.44                  | 152.87                 | -243.15      | 2,238.59                | 2,154.79                | 83.80                     | 26.712            |                    |           |
| 6,200.00                                                                                 | 4,558.14              | 3,962.00              | 3,961.91              | 27.53            | 71.03         | 4.44                  | 152.87                 | -243.15      | 2,335.81                | 2,251.75                | 84.06                     | 27.789            |                    |           |
| 6,300.00                                                                                 | 4,560.11              | 3,962.00              | 3,961.91              | 28.45            | 71.03         | 4.44                  | 152.87                 | -243.15      | 2,433.24                | 2,348.96                | 84.28                     | 28.870            |                    |           |
| 6,400.00                                                                                 | 4,562.08              | 3,962.00              | 3,961.91              | 29.38            | 71.03         | 4.44                  | 152.87                 | -243.15      | 2,530.88                | 2,446.39                | 84.49                     | 29.955            |                    |           |
| 6,500.00                                                                                 | 4,564.05              | 3,962.00              | 3,961.91              | 30.32            | 71.03         | 4.44                  | 152.87                 | -243.15      | 2,628.70                | 2,544.02                | 84.68                     | 31.044            |                    |           |
| 6,600.00                                                                                 | 4,566.02              | 3,962.00              | 3,961.91              | 31.27            | 71.03         | 4.44                  | 152.87                 | -243.15      | 2,726.67                | 2,641.82                | 84.85                     | 32.135            |                    |           |
| 6,700.00                                                                                 | 4,567.99              | 3,962.00              | 3,961.91              | 32.24            | 71.03         | 4.44                  | 152.87                 | -243.15      | 2,824.79                | 2,739.78                | 85.01                     | 33.228            |                    |           |
| 6,800.00                                                                                 | 4,569.96              | 3,962.00              | 3,961.91              | 33.21            | 71.03         | 4.44                  | 152.87                 | -243.15      | 2,923.03                | 2,837.87                | 85.16                     | 34.324            |                    |           |
| 6,900.00                                                                                 | 4,571.94              | 3,962.00              | 3,961.91              | 34.20            | 71.03         | 4.44                  | 152.87                 | -243.15      | 3,021.39                | 2,936.09                | 85.30                     | 35.421            |                    |           |
| 7,000.00                                                                                 | 4,573.91              | 3,962.00              | 3,961.91              | 35.19            | 71.03         | 4.44                  | 152.87                 | -243.15      | 3,119.86                | 3,034.42                | 85.43                     | 36.519            |                    |           |
| 7,100.00                                                                                 | 4,575.88              | 3,962.00              | 3,961.91              | 36.19            | 71.03         | 4.44                  | 152.87                 | -243.15      | 3,218.41                | 3,132.86                | 85.56                     | 37.618            |                    |           |
| 7,200.00                                                                                 | 4,577.85              | 3,962.00              | 3,961.91              | 37.20            | 71.03         | 4.44                  | 152.87                 | -243.15      | 3,317.06                | 3,231.39                | 85.67                     | 38.718            |                    |           |
| 7,300.00                                                                                 | 4,579.82              | 3,962.00              | 3,961.91              | 38.21            | 71.03         | 4.44                  | 152.87                 | -243.15      | 3,415.78                | 3,330.00                | 85.78                     | 39.818            |                    |           |
| 7,400.00                                                                                 | 4,581.79              | 3,962.00              | 3,961.91              | 39.23            | 71.03         | 4.44                  | 152.87                 | -243.15      | 3,514.58                | 3,428.69                | 85.89                     | 40.919            |                    |           |
| 7,500.00                                                                                 | 4,583.76              | 3,962.00              | 3,961.91              | 40.26            | 71.03         | 4.44                  | 152.87                 | -243.15      | 3,613.44                | 3,527.44                | 85.99                     | 42.019            |                    |           |
| 7,600.00                                                                                 | 4,585.73              | 3,962.00              | 3,961.91              | 41.29            | 71.03         | 4.44                  | 152.87                 | -243.15      | 3,712.36                | 3,626.27                | 86.09                     | 43.120            |                    |           |
| 7,700.00                                                                                 | 4,587.70              | 3,962.00              | 3,961.91              | 42.33            | 71.03         | 4.44                  | 152.87                 | -243.15      | 3,811.34                | 3,725.15                | 86.19                     | 44.220            |                    |           |
| 7,800.00                                                                                 | 4,589.68              | 3,962.00              | 3,961.91              | 43.37            | 71.03         | 4.44                  | 152.87                 | -243.15      | 3,910.37                | 3,824.09                | 86.28                     | 45.321            |                    |           |
| 7,900.00                                                                                 | 4,591.65              | 3,962.00              | 3,961.91              | 44.41            | 71.03         | 4.44                  | 152.87                 | -243.15      | 4,009.45                | 3,923.08                | 86.37                     | 46.420            |                    |           |
| 8,000.00                                                                                 | 4,593.62              | 3,962.00              | 3,961.91              | 45.46            | 71.03         | 4.44                  | 152.87                 | -243.15      | 4,108.58                | 4,022.11                | 86.46                     | 47.520            |                    |           |
| 8,100.00                                                                                 | 4,595.59              | 3,962.00              | 3,961.91              | 46.52            | 71.03         | 4.44                  | 152.87                 | -243.15      | 4,207.74                | 4,121.19                | 86.55                     | 48.618            |                    |           |
| 8,200.00                                                                                 | 4,597.56              | 3,962.00              | 3,961.91              | 47.57            | 71.03         | 4.44                  | 152.87                 | -243.15      | 4,306.94                | 4,220.31                | 86.63                     | 49.716            |                    |           |
| 8,300.00                                                                                 | 4,599.53              | 3,962.00              | 3,961.91              | 48.63            | 71.03         | 4.44                  | 152.87                 | -243.15      | 4,406.18                | 4,319.47                | 86.71                     | 50.813            |                    |           |
| 8,400.00                                                                                 | 4,601.50              | 3,962.00              | 3,961.91              | 49.69            | 71.03         | 4.44                  | 152.87                 | -243.15      | 4,505.46                | 4,418.66                | 86.80                     | 51.909            |                    |           |
| 8,500.00                                                                                 | 4,603.47              | 3,962.00              | 3,961.91              | 50.76            | 71.03         | 4.44                  | 152.87                 | -243.15      | 4,604.76                | 4,517.89                | 86.88                     | 53.004            |                    |           |
| 8,600.00                                                                                 | 4,605.45              | 3,962.00              | 3,961.91              | 51.83            | 71.03         | 4.44                  | 152.87                 | -243.15      | 4,704.10                | 4,617.14                | 86.96                     | 54.097            |                    |           |
| 8,700.00                                                                                 | 4,607.42              | 3,962.00              | 3,961.91              | 52.90            | 71.03         | 4.44                  | 152.87                 | -243.15      | 4,803.46                | 4,716.42                | 87.03                     | 55.190            |                    |           |
| 8,800.00                                                                                 | 4,609.39              | 3,962.00              | 3,961.91              | 53.97            | 71.03         | 4.44                  | 152.87                 | -243.15      | 4,902.85                | 4,815.73                | 87.11                     | 56.281            |                    |           |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | 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) | Rule Assigned: Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor  | Warning   |
| 0.00                                                                                        | 0.00                  | 82.99                 | 82.99                 | 0.00                             | 3.32                          | 83.66                 | 443.37                 | 3,988.30 | 4,012.87                        |                                        |                           |                    |           |
| 100.00                                                                                      | 100.00                | 182.99                | 182.99                | 0.29                             | 7.32                          | 83.66                 | 443.37                 | 3,988.30 | 4,012.87                        | 4,005.26                               | 7.61                      | 527.554            |           |
| 200.00                                                                                      | 200.00                | 282.99                | 282.99                | 0.65                             | 11.32                         | 83.66                 | 443.37                 | 3,988.30 | 4,012.87                        | 4,000.90                               | 11.96                     | 335.385            |           |
| 300.00                                                                                      | 300.00                | 382.99                | 382.99                | 1.00                             | 15.32                         | 83.66                 | 443.37                 | 3,988.30 | 4,012.87                        | 3,996.55                               | 16.32                     | 245.835            |           |
| 400.00                                                                                      | 399.98                | 482.97                | 482.97                | 1.36                             | 19.32                         | 109.43                | 443.37                 | 3,988.30 | 4,013.45                        | 3,992.77                               | 20.68                     | 194.074            |           |
| 500.00                                                                                      | 499.85                | 582.84                | 582.84                | 1.73                             | 23.31                         | 109.48                | 443.37                 | 3,988.30 | 4,015.14                        | 3,990.11                               | 25.03                     | 160.402            |           |
| 600.00                                                                                      | 599.67                | 682.67                | 682.67                | 2.08                             | 27.31                         | 109.56                | 443.37                 | 3,988.30 | 4,017.12                        | 3,987.74                               | 29.38                     | 136.722            |           |
| 700.00                                                                                      | 699.50                | 782.49                | 782.49                | 2.44                             | 31.30                         | 109.63                | 443.37                 | 3,988.30 | 4,019.10                        | 3,985.37                               | 33.73                     | 119.148            |           |
| 800.00                                                                                      | 799.32                | 882.32                | 882.32                | 2.80                             | 35.29                         | 109.71                | 443.37                 | 3,988.30 | 4,021.10                        | 3,983.01                               | 38.08                     | 105.588            |           |
| 900.00                                                                                      | 899.15                | 982.14                | 982.14                | 3.15                             | 39.29                         | 109.79                | 443.37                 | 3,988.30 | 4,023.10                        | 3,980.66                               | 42.43                     | 94.808             |           |
| 1,000.00                                                                                    | 998.97                | 1,081.97              | 1,081.97              | 3.51                             | 43.28                         | 109.87                | 443.37                 | 3,988.30 | 4,025.11                        | 3,978.32                               | 46.79                     | 86.034             |           |
| 1,100.00                                                                                    | 1,098.80              | 1,181.79              | 1,181.79              | 3.87                             | 47.27                         | 109.95                | 443.37                 | 3,988.30 | 4,027.12                        | 3,975.99                               | 51.14                     | 78.753             |           |
| 1,200.00                                                                                    | 1,198.62              | 1,281.62              | 1,281.62              | 4.23                             | 51.26                         | 110.03                | 443.37                 | 3,988.30 | 4,029.15                        | 3,973.66                               | 55.49                     | 72.613             |           |
| 1,300.00                                                                                    | 1,298.45              | 1,381.44              | 1,381.44              | 4.59                             | 55.26                         | 110.11                | 443.37                 | 3,988.30 | 4,031.18                        | 3,971.34                               | 59.84                     | 67.367             |           |
| 1,400.00                                                                                    | 1,398.27              | 1,481.27              | 1,481.27              | 4.95                             | 59.25                         | 110.19                | 443.37                 | 3,988.30 | 4,033.22                        | 3,969.03                               | 64.19                     | 62.832             |           |
| 1,500.00                                                                                    | 1,498.10              | 1,581.09              | 1,581.09              | 5.31                             | 63.24                         | 110.27                | 443.37                 | 3,988.30 | 4,035.26                        | 3,966.72                               | 68.54                     | 58.873             |           |
| 1,600.00                                                                                    | 1,597.92              | 1,680.92              | 1,680.92              | 5.67                             | 67.24                         | 110.34                | 443.37                 | 3,988.30 | 4,037.32                        | 3,964.43                               | 72.89                     | 55.386             |           |
| 1,700.00                                                                                    | 1,697.75              | 1,780.74              | 1,780.74              | 6.03                             | 71.23                         | 110.42                | 443.37                 | 3,988.30 | 4,039.38                        | 3,962.14                               | 77.25                     | 52.293             |           |
| 1,800.00                                                                                    | 1,797.57              | 1,880.57              | 1,880.57              | 6.39                             | 75.22                         | 110.50                | 443.37                 | 3,988.30 | 4,041.45                        | 3,959.85                               | 81.60                     | 49.530             |           |
| 1,900.00                                                                                    | 1,897.40              | 1,980.39              | 1,980.39              | 6.74                             | 79.22                         | 110.58                | 443.37                 | 3,988.30 | 4,043.53                        | 3,957.58                               | 85.95                     | 47.046             |           |
| 2,000.00                                                                                    | 1,997.22              | 2,080.22              | 2,080.22              | 7.10                             | 83.21                         | 110.66                | 443.37                 | 3,988.30 | 4,045.61                        | 3,955.31                               | 90.30                     | 44.802             |           |
| 2,100.00                                                                                    | 2,097.05              | 2,180.04              | 2,180.04              | 7.46                             | 87.20                         | 110.74                | 443.37                 | 3,988.30 | 4,047.71                        | 3,953.06                               | 94.65                     | 42.764             |           |
| 2,200.00                                                                                    | 2,196.87              | 2,279.87              | 2,279.87              | 7.82                             | 91.19                         | 110.81                | 443.37                 | 3,988.30 | 4,049.81                        | 3,950.80                               | 99.00                     | 40.906             |           |
| 2,300.00                                                                                    | 2,296.70              | 2,379.69              | 2,379.69              | 8.18                             | 95.19                         | 110.89                | 443.37                 | 3,988.30 | 4,051.91                        | 3,948.56                               | 103.35                    | 39.204             |           |
| 2,400.00                                                                                    | 2,396.52              | 2,479.52              | 2,479.52              | 8.54                             | 99.18                         | 110.97                | 443.37                 | 3,988.30 | 4,054.03                        | 3,946.32                               | 107.71                    | 37.840             |           |
| 2,500.00                                                                                    | 2,496.35              | 2,579.34              | 2,579.34              | 8.90                             | 103.17                        | 111.05                | 443.37                 | 3,988.30 | 4,056.15                        | 3,944.09                               | 112.06                    | 36.197             |           |
| 2,600.00                                                                                    | 2,596.18              | 2,679.17              | 2,679.17              | 9.26                             | 107.17                        | 111.13                | 443.37                 | 3,988.30 | 4,058.28                        | 3,941.87                               | 116.41                    | 34.862             |           |
| 2,700.00                                                                                    | 2,696.00              | 2,778.99              | 2,778.99              | 9.62                             | 111.16                        | 111.20                | 443.37                 | 3,988.30 | 4,060.42                        | 3,939.66                               | 120.76                    | 33.624             |           |
| 2,800.00                                                                                    | 2,795.83              | 2,878.82              | 2,878.82              | 9.98                             | 115.15                        | 111.28                | 443.37                 | 3,988.30 | 4,062.57                        | 3,937.45                               | 125.11                    | 32.471             |           |
| 2,900.00                                                                                    | 2,895.65              | 2,978.64              | 2,978.64              | 10.34                            | 119.15                        | 111.36                | 443.37                 | 3,988.30 | 4,064.72                        | 3,935.25                               | 129.46                    | 31.396             |           |
| 3,000.00                                                                                    | 2,995.48              | 3,078.47              | 3,078.47              | 10.70                            | 123.14                        | 111.44                | 443.37                 | 3,988.30 | 4,066.88                        | 3,933.06                               | 133.82                    | 30.392             |           |
| 3,100.00                                                                                    | 3,095.30              | 3,178.29              | 3,178.29              | 11.06                            | 127.13                        | 111.51                | 443.37                 | 3,988.30 | 4,069.05                        | 3,930.88                               | 138.17                    | 29.450             |           |
| 3,200.00                                                                                    | 3,195.13              | 3,278.12              | 3,278.12              | 11.42                            | 131.12                        | 111.59                | 443.37                 | 3,988.30 | 4,071.22                        | 3,928.70                               | 142.52                    | 28.566             |           |
| 3,300.00                                                                                    | 3,294.95              | 3,377.94              | 3,377.94              | 11.78                            | 135.12                        | 111.67                | 443.37                 | 3,988.30 | 4,073.40                        | 3,926.53                               | 146.87                    | 27.735             |           |
| 3,400.00                                                                                    | 3,394.78              | 3,477.77              | 3,477.77              | 12.14                            | 139.11                        | 111.75                | 443.37                 | 3,988.30 | 4,075.59                        | 3,924.37                               | 151.22                    | 26.951             |           |
| 3,500.00                                                                                    | 3,494.60              | 3,577.59              | 3,577.59              | 12.49                            | 143.10                        | 111.82                | 443.37                 | 3,988.30 | 4,077.79                        | 3,922.22                               | 155.57                    | 26.211             |           |
| 3,600.00                                                                                    | 3,594.41              | 3,677.40              | 3,677.40              | 12.85                            | 147.10                        | 34.76                 | 443.37                 | 3,988.30 | 4,076.06                        | 3,916.13                               | 159.92                    | 25.488             |           |
| 3,700.00                                                                                    | 3,693.54              | 3,776.54              | 3,776.54              | 13.19                            | 151.06                        | 12.82                 | 443.37                 | 3,988.30 | 4,064.01                        | 3,899.79                               | 164.23                    | 24.746             |           |
| 3,800.00                                                                                    | 3,790.92              | 3,873.91              | 3,873.91              | 13.52                            | 154.96                        | 6.38                  | 443.37                 | 3,988.30 | 4,041.70                        | 3,873.25                               | 168.45                    | 23.993             |           |
| 3,900.00                                                                                    | 3,885.46              | 3,968.46              | 3,968.46              | 13.84                            | 158.74                        | 3.32                  | 443.37                 | 3,988.30 | 4,009.36                        | 3,836.81                               | 172.55                    | 23.236             |           |
| 4,000.00                                                                                    | 3,976.15              | 4,059.14              | 4,059.14              | 14.17                            | 162.37                        | 1.46                  | 443.37                 | 3,988.30 | 3,967.35                        | 3,790.88                               | 176.47                    | 22.481             |           |
| 4,100.00                                                                                    | 4,061.97              | 4,144.97              | 4,144.97              | 14.50                            | 165.80                        | 0.09                  | 443.37                 | 3,988.30 | 3,916.12                        | 3,735.95                               | 180.18                    | 21.735             |           |
| 4,200.00                                                                                    | 4,142.00              | 4,225.00              | 4,225.00              | 14.84                            | 169.00                        | -1.06                 | 443.37                 | 3,988.30 | 3,856.24                        | 3,672.62                               | 183.62                    | 21.001             |           |
| 4,300.00                                                                                    | 4,215.36              | 4,298.35              | 4,298.35              | 15.20                            | 171.93                        | -2.19                 | 443.37                 | 3,988.30 | 3,788.36                        | 3,601.59                               | 186.77                    | 20.284             |           |
| 4,400.00                                                                                    | 4,281.24              | 4,364.23              | 4,364.23              | 15.57                            | 174.57                        | -3.44                 | 443.37                 | 3,988.30 | 3,713.23                        | 3,523.65                               | 189.58                    | 19.586             |           |
| 4,500.00                                                                                    | 4,338.92              | 4,421.91              | 4,421.91              | 15.98                            | 176.88                        | -4.97                 | 443.37                 | 3,988.30 | 3,631.67                        | 3,439.63                               | 192.04                    | 18.911             |           |
| 4,600.00                                                                                    | 4,389.56              | 4,472.55              | 4,472.55              | 16.42                            | 178.90                        | -5.77                 | 443.37                 | 3,988.30 | 3,545.55                        | 3,351.36                               | 194.18                    | 18.259             |           |
| 4,700.00                                                                                    | 4,439.56              | 4,522.55              | 4,522.55              | 16.90                            | 180.90                        | -5.91                 | 443.37                 | 3,988.30 | 3,459.06                        | 3,262.76                               | 196.29                    | 17.622             |           |
| 4,800.00                                                                                    | 4,486.55              | 4,569.55              | 4,569.55              | 17.42                            | 182.78                        | -7.51                 | 443.37                 | 3,988.30 | 3,370.99                        | 3,172.70                               | 198.29                    | 17.001             |           |
| 4,900.00                                                                                    | 4,518.67              | 4,601.66              | 4,601.66              | 17.96                            | 184.07                        | -12.94                | 443.37                 | 3,988.30 | 3,276.56                        | 3,076.90                               | 199.65                    | 16.411             |           |
| 5,000.00                                                                                    | 4,533.88              | 4,616.87              | 4,616.87              | 18.51                            | 184.67                        | -40.68                | 443.37                 | 3,988.30 | 3,178.00                        | 2,977.70                               | 200.30                    | 15.866             |           |
| 5,100.00                                                                                    | 4,536.45              | 4,619.45              | 4,619.45              | 19.06                            | 184.78                        | -71.28                | 443.37                 | 3,988.30 | 3,078.20                        | 2,877.79                               | 200.42                    | 15.359             |           |

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



## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | 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) | 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                  | 0.99                  | 0.99                  | 0.00                             | 0.02                          | -137.45               | -401.61                             | -368.60                             | 545.12                          |                                        |                           |                   |         |                    |           |
| 100.00                                                                                      | 100.00                | 100.99                | 100.99                | 0.29                             | 2.25                          | -137.45               | -401.61                             | -368.60                             | 545.12                          | 542.58                                 | 2.54                      | 214.867           |         |                    |           |
| 200.00                                                                                      | 200.00                | 200.99                | 200.99                | 0.65                             | 4.48                          | -137.45               | -401.61                             | -368.60                             | 545.12                          | 540.00                                 | 5.12                      | 106.394           |         |                    |           |
| 300.00                                                                                      | 300.00                | 300.99                | 300.99                | 1.00                             | 6.71                          | -137.45               | -401.61                             | -368.60                             | 545.12                          | 537.41                                 | 7.71                      | 70.702 CC         |         |                    |           |
| 400.00                                                                                      | 399.98                | 401.00                | 400.97                | 1.36                             | 8.93                          | -111.85               | -401.61                             | -368.60                             | 545.77                          | 535.47                                 | 10.30                     | 53.010            |         |                    |           |
| 500.00                                                                                      | 499.85                | 500.87                | 500.84                | 1.73                             | 11.15                         | -112.32               | -401.61                             | -368.60                             | 547.68                          | 534.81                                 | 12.87                     | 42.560            |         |                    |           |
| 600.00                                                                                      | 599.67                | 600.70                | 600.67                | 2.08                             | 13.36                         | -112.89               | -401.61                             | -368.60                             | 549.95                          | 534.51                                 | 15.44                     | 35.619            |         |                    |           |
| 700.00                                                                                      | 699.50                | 699.60                | 699.55                | 2.44                             | 15.56                         | -113.36               | -400.29                             | -368.60                             | 551.28                          | 533.29                                 | 17.99                     | 30.641 ES         |         |                    |           |
| 800.00                                                                                      | 799.32                | 797.66                | 797.61                | 2.80                             | 17.73                         | -113.94               | -400.71                             | -368.60                             | 553.99                          | 533.46                                 | 20.52                     | 26.991            |         |                    |           |
| 900.00                                                                                      | 899.15                | 895.69                | 895.62                | 3.15                             | 19.90                         | -114.54               | -401.55                             | -368.60                             | 557.08                          | 534.02                                 | 23.06                     | 24.161            |         |                    |           |
| 1,000.00                                                                                    | 998.97                | 1,000.10              | 999.97                | 3.51                             | 22.04                         | -115.12               | -401.61                             | -368.60                             | 559.59                          | 534.04                                 | 25.55                     | 21.903            |         |                    |           |
| 1,100.00                                                                                    | 1,098.80              | 1,099.92              | 1,099.79              | 3.87                             | 24.07                         | -115.66               | -401.61                             | -368.60                             | 562.13                          | 534.19                                 | 27.94                     | 20.122            |         |                    |           |
| 1,200.00                                                                                    | 1,198.62              | 1,199.55              | 1,199.41              | 4.23                             | 26.09                         | -116.13               | -400.37                             | -368.60                             | 563.74                          | 533.42                                 | 30.32                     | 18.593            |         |                    |           |
| 1,300.00                                                                                    | 1,298.45              | 1,298.03              | 1,297.88              | 4.59                             | 28.09                         | -116.67               | -400.57                             | -368.60                             | 566.53                          | 533.85                                 | 32.68                     | 17.336            |         |                    |           |
| 1,400.00                                                                                    | 1,398.27              | 1,396.48              | 1,396.33              | 4.95                             | 30.09                         | -117.22               | -401.06                             | -368.60                             | 569.61                          | 534.57                                 | 35.04                     | 16.256            |         |                    |           |
| 1,500.00                                                                                    | 1,498.10              | 1,499.29              | 1,499.09              | 5.31                             | 32.18                         | -117.79               | -401.61                             | -368.60                             | 572.78                          | 535.29                                 | 37.49                     | 15.278            |         |                    |           |
| 1,600.00                                                                                    | 1,597.92              | 1,599.11              | 1,598.92              | 5.67                             | 34.22                         | -118.31               | -401.61                             | -368.60                             | 575.56                          | 535.68                                 | 39.88                     | 14.431            |         |                    |           |
| 1,700.00                                                                                    | 1,697.75              | 1,697.55              | 1,697.35              | 6.03                             | 36.22                         | -118.80               | -401.20                             | -368.60                             | 578.06                          | 535.81                                 | 42.25                     | 13.682            |         |                    |           |
| 1,800.00                                                                                    | 1,797.57              | 1,798.80              | 1,798.57              | 6.39                             | 38.29                         | -119.34               | -401.61                             | -368.60                             | 581.27                          | 536.60                                 | 44.67                     | 13.011            |         |                    |           |
| 1,900.00                                                                                    | 1,897.40              | 1,898.62              | 1,898.39              | 6.74                             | 40.33                         | -119.84               | -401.61                             | -368.60                             | 584.20                          | 537.13                                 | 47.07                     | 12.411            |         |                    |           |
| 2,000.00                                                                                    | 1,997.22              | 1,997.48              | 1,997.23              | 7.10                             | 42.34                         | -120.30               | -400.89                             | -368.60                             | 586.57                          | 537.12                                 | 49.45                     | 11.863            |         |                    |           |
| 2,100.00                                                                                    | 2,097.05              | 2,094.90              | 2,094.65              | 7.46                             | 44.33                         | -120.81               | -401.33                             | -368.60                             | 589.95                          | 538.16                                 | 51.79                     | 11.391            |         |                    |           |
| 2,200.00                                                                                    | 2,196.87              | 2,198.14              | 2,197.87              | 7.82                             | 46.44                         | -121.33               | -401.61                             | -368.60                             | 593.23                          | 538.97                                 | 54.26                     | 10.933            |         |                    |           |
| 2,300.00                                                                                    | 2,296.70              | 2,297.97              | 2,297.69              | 8.18                             | 48.48                         | -121.81               | -401.61                             | -368.60                             | 596.33                          | 539.67                                 | 56.66                     | 10.525            |         |                    |           |
| 2,400.00                                                                                    | 2,396.52              | 2,397.52              | 2,397.24              | 8.54                             | 50.51                         | -122.25               | -400.81                             | -368.60                             | 598.79                          | 539.74                                 | 59.05                     | 10.141            |         |                    |           |
| 2,500.00                                                                                    | 2,496.35              | 2,496.01              | 2,495.73              | 8.90                             | 52.52                         | -122.73               | -400.99                             | -368.60                             | 602.13                          | 540.71                                 | 61.42                     | 9.804             |         |                    |           |
| 2,600.00                                                                                    | 2,596.18              | 2,594.48              | 2,594.19              | 9.26                             | 54.53                         | -123.21               | -401.43                             | -368.60                             | 605.73                          | 541.94                                 | 63.79                     | 9.496             |         |                    |           |
| 2,700.00                                                                                    | 2,696.00              | 2,697.32              | 2,696.99              | 9.62                             | 56.51                         | -123.70               | -401.61                             | -368.60                             | 609.14                          | 543.02                                 | 66.13                     | 9.212             |         |                    |           |
| 2,800.00                                                                                    | 2,795.83              | 2,797.15              | 2,796.82              | 9.98                             | 58.38                         | -124.16               | -401.61                             | -368.60                             | 612.45                          | 544.09                                 | 68.36                     | 8.959             |         |                    |           |
| 2,900.00                                                                                    | 2,895.65              | 2,896.30              | 2,895.95              | 10.34                            | 60.24                         | -124.56               | -400.60                             | -368.60                             | 614.91                          | 544.33                                 | 70.58                     | 8.713             |         |                    |           |
| 3,000.00                                                                                    | 2,995.48              | 2,994.19              | 2,993.84              | 10.70                            | 62.07                         | -125.02               | -400.90                             | -368.60                             | 618.55                          | 545.78                                 | 72.77                     | 8.500             |         |                    |           |
| 3,100.00                                                                                    | 3,095.30              | 3,092.06              | 3,091.70              | 11.06                            | 63.91                         | -125.49               | -401.55                             | -368.60                             | 622.55                          | 547.59                                 | 74.96                     | 8.305             |         |                    |           |
| 3,200.00                                                                                    | 3,195.13              | 3,196.48              | 3,196.12              | 11.42                            | 65.65                         | -125.95               | -401.61                             | -368.60                             | 626.05                          | 548.98                                 | 77.07                     | 8.123             |         |                    |           |
| 3,300.00                                                                                    | 3,294.95              | 3,296.31              | 3,295.94              | 11.78                            | 67.30                         | -126.38               | -401.61                             | -368.60                             | 629.54                          | 550.46                                 | 79.08                     | 7.961             |         |                    |           |
| 3,400.00                                                                                    | 3,394.78              | 3,396.13              | 3,395.77              | 12.14                            | 68.95                         | -126.81               | -401.61                             | -368.60                             | 633.07                          | 551.98                                 | 81.09                     | 7.807             |         |                    |           |
| 3,500.00                                                                                    | 3,494.60              | 3,495.76              | 3,495.39              | 12.49                            | 70.60                         | -127.22               | -401.25                             | -368.60                             | 636.31                          | 553.21                                 | 83.09                     | 7.658             |         |                    |           |
| 3,600.00                                                                                    | 3,594.41              | 3,595.20              | 3,594.84              | 12.85                            | 72.24                         | -127.58               | -401.31                             | -368.60                             | 641.69                          | 556.60                                 | 85.09                     | 7.541             |         |                    |           |
| 3,700.00                                                                                    | 3,693.54              | 3,693.97              | 3,693.60              | 13.19                            | 73.88                         | -127.95               | -401.44                             | -368.60                             | 651.70                          | 564.63                                 | 87.06                     | 7.485 SF          |         |                    |           |
| 3,800.00                                                                                    | 3,790.92              | 3,792.28              | 3,791.91              | 13.52                            | 75.51                         | -127.81               | -401.61                             | -368.60                             | 666.57                          | 577.54                                 | 89.03                     | 7.487             |         |                    |           |
| 3,900.00                                                                                    | 3,885.46              | 3,886.83              | 3,886.46              | 13.84                            | 77.17                         | -125.92               | -401.61                             | -368.60                             | 686.63                          | 595.63                                 | 91.01                     | 7.545             |         |                    |           |
| 4,000.00                                                                                    | 3,976.15              | 3,977.51              | 3,977.14              | 14.17                            | 78.77                         | -125.47               | -401.61                             | -368.60                             | 712.71                          | 619.80                                 | 92.91                     | 7.671             |         |                    |           |
| 4,100.00                                                                                    | 4,061.97              | 4,063.34              | 4,062.97              | 14.50                            | 80.27                         | -125.59               | -401.61                             | -368.60                             | 745.48                          | 650.77                                 | 94.71                     | 7.871             |         |                    |           |
| 4,200.00                                                                                    | 4,142.00              | 4,143.37              | 4,143.00              | 14.84                            | 81.68                         | -125.80               | -401.61                             | -368.60                             | 785.52                          | 689.13                                 | 96.39                     | 8.149             |         |                    |           |
| 4,300.00                                                                                    | 4,215.36              | 4,216.72              | 4,216.35              | 15.20                            | 82.97                         | -125.77               | -401.61                             | -368.60                             | 833.16                          | 735.22                                 | 97.94                     | 8.507             |         |                    |           |
| 4,400.00                                                                                    | 4,281.24              | 4,282.41              | 4,282.04              | 15.57                            | 84.12                         | -125.23               | -401.14                             | -368.60                             | 888.14                          | 788.81                                 | 99.33                     | 8.942             |         |                    |           |
| 4,500.00                                                                                    | 4,338.92              | 4,339.92              | 4,339.55              | 15.98                            | 85.13                         | -123.89               | -401.17                             | -368.60                             | 950.86                          | 850.32                                 | 100.54                    | 9.457             |         |                    |           |
| 4,600.00                                                                                    | 4,389.56              | 4,390.40              | 4,390.03              | 16.42                            | 86.02                         | -124.92               | -401.21                             | -368.60                             | 1,019.71                        | 918.10                                 | 101.60                    | 10.036            |         |                    |           |
| 4,700.00                                                                                    | 4,439.56              | 4,440.25              | 4,439.88              | 16.90                            | 86.89                         | -127.62               | -401.26                             | -368.60                             | 1,091.33                        | 988.68                                 | 102.65                    | 10.632            |         |                    |           |
| 4,800.00                                                                                    | 4,486.55              | 4,487.10              | 4,486.73              | 17.42                            | 87.72                         | -124.23               | -401.31                             | -368.60                             | 1,166.36                        | 1,062.73                               | 103.63                    | 11.255            |         |                    |           |
| 4,900.00                                                                                    | 4,518.67              | 4,519.12              | 4,518.75              | 17.96                            | 88.28                         | -113.69               | -401.36                             | -368.60                             | 1,248.72                        | 1,144.41                               | 104.31                    | 11.971            |         |                    |           |
| 5,000.00                                                                                    | 4,533.88              | 4,534.28              | 4,533.91              | 18.51                            | 88.54                         | -97.44                | -401.38                             | -368.60                             | 1,336.40                        | 1,231.75                               | 104.65                    | 12.770            |         |                    |           |
| 5,100.00                                                                                    | 4,536.45              | 4,536.84              | 4,536.47              | 19.06                            | 88.59                         | -92.37                | -401.39                             | -368.60                             | 1,426.65                        | 1,321.92                               | 104.73                    | 13.622            |         |                    |           |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | 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                |                       | Semi Major Axis  |               | Highside Toolface (°) | 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) |                       | +N/-S (usft)           | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning            |           |
| 5,200.00                                                                                   | 4,538.42              | 4,538.81              | 4,538.43              | 19.66            | 88.62         | 92.56                 | -401.39                | -368.60      | 1,518.14               | 1,413.34                | 104.80                    | 14.486            |                    |           |
| 5,300.00                                                                                   | 4,540.40              | 4,540.77              | 4,540.40              | 20.30            | 88.66         | 92.75                 | -401.39                | -368.60      | 1,610.64               | 1,505.76                | 104.87                    | 15.358            |                    |           |
| 5,400.00                                                                                   | 4,542.37              | 4,542.73              | 4,542.36              | 20.99            | 88.69         | 92.94                 | -401.39                | -368.60      | 1,703.98               | 1,599.04                | 104.94                    | 16.237            |                    |           |
| 5,500.00                                                                                   | 4,544.34              | 4,544.69              | 4,544.32              | 21.71            | 88.73         | 93.13                 | -401.40                | -368.60      | 1,798.04               | 1,693.02                | 105.02                    | 17.121            |                    |           |
| 5,600.00                                                                                   | 4,546.31              | 4,546.66              | 4,546.28              | 22.46            | 88.76         | 93.32                 | -401.40                | -368.60      | 1,892.70               | 1,787.61                | 105.09                    | 18.011            |                    |           |
| 5,700.00                                                                                   | 4,548.28              | 4,548.62              | 4,548.25              | 23.25            | 88.80         | 93.51                 | -401.40                | -368.60      | 1,987.89               | 1,882.73                | 105.16                    | 18.904            |                    |           |
| 5,800.00                                                                                   | 4,550.25              | 4,550.58              | 4,550.21              | 24.06            | 88.83         | 93.70                 | -401.41                | -368.60      | 2,083.52               | 1,978.29                | 105.23                    | 19.800            |                    |           |
| 5,900.00                                                                                   | 4,552.22              | 4,552.54              | 4,552.17              | 24.90            | 88.86         | 93.88                 | -401.41                | -368.60      | 2,179.55               | 2,074.24                | 105.30                    | 20.698            |                    |           |
| 6,000.00                                                                                   | 4,554.19              | 4,554.51              | 4,554.13              | 25.76            | 88.90         | 94.07                 | -401.41                | -368.60      | 2,275.91               | 2,170.54                | 105.37                    | 21.599            |                    |           |
| 6,100.00                                                                                   | 4,556.17              | 4,556.47              | 4,556.10              | 26.64            | 88.93         | 94.26                 | -401.42                | -368.60      | 2,372.58               | 2,267.13                | 105.44                    | 22.501            |                    |           |
| 6,200.00                                                                                   | 4,558.14              | 4,558.43              | 4,558.06              | 27.53            | 88.97         | 94.45                 | -401.42                | -368.60      | 2,469.50               | 2,363.99                | 105.52                    | 23.404            |                    |           |
| 6,300.00                                                                                   | 4,560.11              | 4,560.39              | 4,560.02              | 28.45            | 89.00         | 94.64                 | -401.42                | -368.60      | 2,566.67               | 2,461.08                | 105.59                    | 24.309            |                    |           |
| 6,400.00                                                                                   | 4,562.08              | 4,562.35              | 4,561.98              | 29.38            | 89.04         | 94.82                 | -401.43                | -368.60      | 2,664.04               | 2,558.38                | 105.66                    | 25.214            |                    |           |
| 6,500.00                                                                                   | 4,564.05              | 4,564.32              | 4,563.94              | 30.32            | 89.07         | 95.01                 | -401.43                | -368.60      | 2,761.60               | 2,655.86                | 105.73                    | 26.119            |                    |           |
| 6,600.00                                                                                   | 4,566.02              | 4,566.28              | 4,565.91              | 31.27            | 89.11         | 95.20                 | -401.43                | -368.60      | 2,859.32               | 2,753.52                | 105.80                    | 27.025            |                    |           |
| 6,700.00                                                                                   | 4,567.99              | 4,568.24              | 4,567.87              | 32.24            | 89.14         | 95.39                 | -401.44                | -368.60      | 2,957.20               | 2,851.32                | 105.88                    | 27.931            |                    |           |
| 6,800.00                                                                                   | 4,569.96              | 4,570.20              | 4,569.83              | 33.21            | 89.17         | 95.58                 | -401.44                | -368.60      | 3,055.21               | 2,949.26                | 105.95                    | 28.836            |                    |           |
| 6,900.00                                                                                   | 4,571.94              | 4,572.16              | 4,571.79              | 34.20            | 89.21         | 95.76                 | -401.44                | -368.60      | 3,153.34               | 3,047.32                | 106.02                    | 29.742            |                    |           |
| 7,000.00                                                                                   | 4,573.91              | 4,574.13              | 4,573.75              | 35.19            | 89.24         | 95.95                 | -401.45                | -368.60      | 3,251.59               | 3,145.49                | 106.10                    | 30.647            |                    |           |
| 7,100.00                                                                                   | 4,575.88              | 4,576.09              | 4,575.72              | 36.19            | 89.28         | 96.14                 | -401.45                | -368.60      | 3,349.94               | 3,243.77                | 106.17                    | 31.552            |                    |           |
| 7,200.00                                                                                   | 4,577.85              | 4,578.05              | 4,577.68              | 37.20            | 89.31         | 96.32                 | -401.46                | -368.60      | 3,448.39               | 3,342.14                | 106.25                    | 32.456            |                    |           |
| 7,300.00                                                                                   | 4,579.82              | 4,580.01              | 4,579.64              | 38.21            | 89.35         | 96.51                 | -401.46                | -368.60      | 3,546.92               | 3,440.59                | 106.32                    | 33.359            |                    |           |
| 7,400.00                                                                                   | 4,581.79              | 4,581.97              | 4,581.60              | 39.23            | 89.38         | 96.70                 | -401.46                | -368.60      | 3,645.53               | 3,539.13                | 106.40                    | 34.262            |                    |           |
| 7,500.00                                                                                   | 4,583.76              | 4,583.94              | 4,583.56              | 40.26            | 89.42         | 96.89                 | -401.47                | -368.60      | 3,744.21               | 3,637.73                | 106.48                    | 35.164            |                    |           |
| 7,600.00                                                                                   | 4,585.73              | 4,585.90              | 4,585.53              | 41.29            | 89.45         | 97.07                 | -401.47                | -368.60      | 3,842.96               | 3,736.40                | 106.56                    | 36.065            |                    |           |
| 7,700.00                                                                                   | 4,587.70              | 4,587.86              | 4,587.49              | 42.33            | 89.48         | 97.26                 | -401.47                | -368.60      | 3,941.77               | 3,835.14                | 106.64                    | 36.965            |                    |           |
| 7,800.00                                                                                   | 4,589.68              | 4,589.82              | 4,589.45              | 43.37            | 89.52         | 97.44                 | -401.48                | -368.60      | 4,040.64               | 3,933.92                | 106.71                    | 37.864            |                    |           |
| 7,900.00                                                                                   | 4,591.65              | 4,591.78              | 4,591.41              | 44.41            | 89.55         | 97.63                 | -401.48                | -368.60      | 4,139.56               | 4,032.77                | 106.79                    | 38.762            |                    |           |
| 8,000.00                                                                                   | 4,593.62              | 4,593.74              | 4,593.37              | 45.46            | 89.59         | 97.82                 | -401.48                | -368.60      | 4,238.53               | 4,131.66                | 106.88                    | 39.659            |                    |           |
| 8,100.00                                                                                   | 4,595.59              | 4,595.71              | 4,595.33              | 46.52            | 89.62         | 98.00                 | -401.49                | -368.60      | 4,337.55               | 4,230.60                | 106.96                    | 40.554            |                    |           |
| 8,200.00                                                                                   | 4,597.56              | 4,597.67              | 4,597.30              | 47.57            | 89.66         | 98.19                 | -401.49                | -368.60      | 4,436.61               | 4,329.57                | 107.04                    | 41.449            |                    |           |
| 8,300.00                                                                                   | 4,599.53              | 4,599.63              | 4,599.26              | 48.63            | 89.69         | 98.37                 | -401.50                | -368.60      | 4,535.72               | 4,428.59                | 107.12                    | 42.342            |                    |           |
| 8,400.00                                                                                   | 4,601.50              | 4,601.59              | 4,601.22              | 49.69            | 89.73         | 98.56                 | -401.50                | -368.60      | 4,634.85               | 4,527.65                | 107.21                    | 43.233            |                    |           |
| 8,500.00                                                                                   | 4,603.47              | 4,603.55              | 4,603.18              | 50.76            | 89.76         | 98.74                 | -401.50                | -368.60      | 4,734.03               | 4,626.74                | 107.29                    | 44.124            |                    |           |
| 8,600.00                                                                                   | 4,605.45              | 4,605.51              | 4,605.14              | 51.83            | 89.79         | 98.93                 | -401.51                | -368.60      | 4,833.24               | 4,725.86                | 107.37                    | 45.013            |                    |           |
| 8,700.00                                                                                   | 4,607.42              | 4,607.48              | 4,607.10              | 52.90            | 89.83         | 99.11                 | -401.51                | -368.60      | 4,932.48               | 4,825.02                | 107.46                    | 45.900            |                    |           |

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | Offset Datum                       |

Reference Depths are relative to RKB = 20' @ 3633.00usft (AKITA 57) Coordinates are relative to: 90H

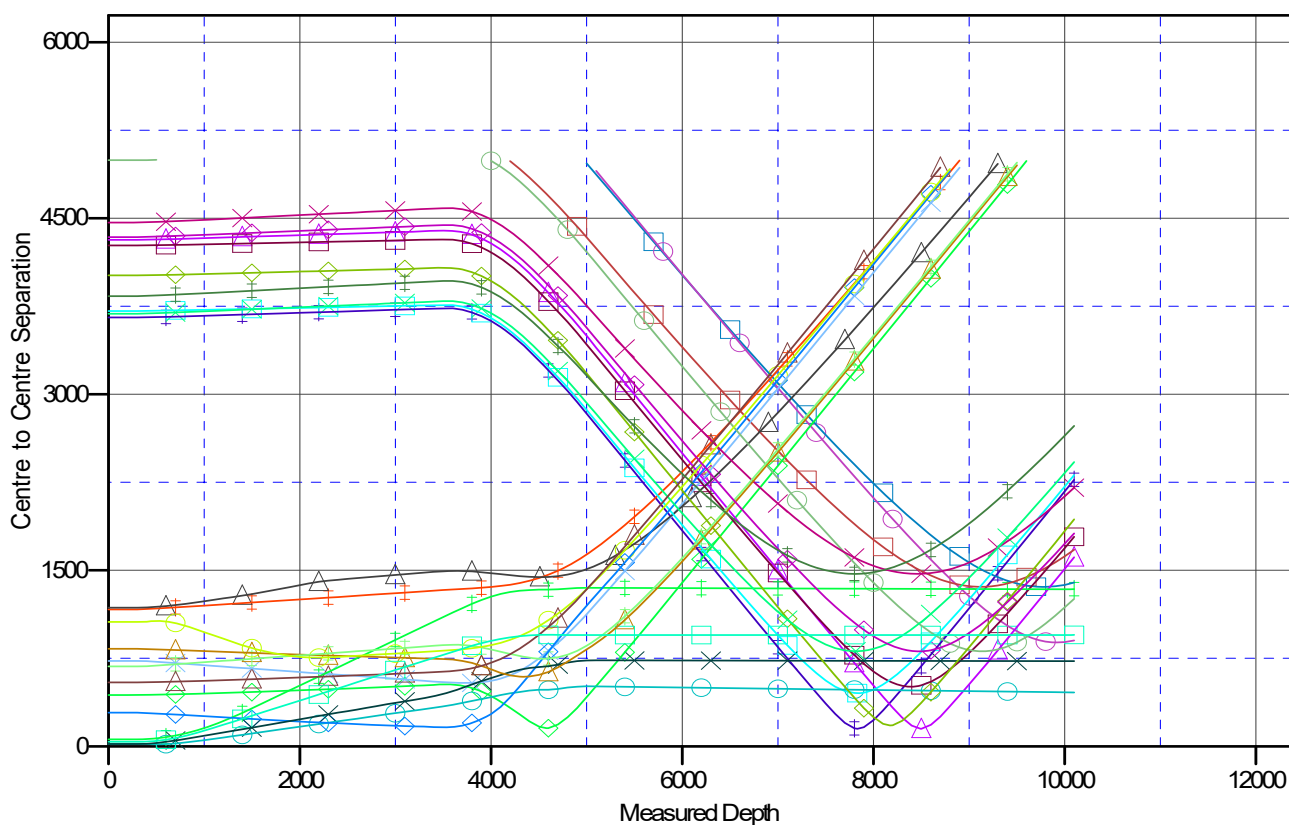
Offset Depths are relative to Offset Datum

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  
 FFSET: ANTHONY 2, Wellbore #1, Wellbore #1 V0  
 FFSET: OULAW STATE 3, Wellbore #1, Wellbore #1 V0  
 FFSET: STALEY STATE 21, 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 STATE 3, Wellbore #1, Wellbore #1 V0

FFSET: OULAW STATE 11, Wellbore #1, Wellbore #1 V0  
 71H, OH, PERMIT V0  
 FFSET: OULAW STATE12, Wellbore #1, Wellbore #1 V0  
 70H, OH, PERMIT V0  
 FFSET: STALEY STATE 7, Wellbore #1, Wellbore #1 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: ANTHONY 1, 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  
 91H, OH, PERMIT V0

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

## Anticollision Report

|                           |                                |                                     |                                    |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | SPUR ENERGY PARTNERS, LLC      | <b>Local Co-ordinate Reference:</b> | Well 90H                           |
| <b>Project:</b>           | EDDY COUNTY, NM (NAD 83 - NME) | <b>TVD Reference:</b>               | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Reference Site:</b>    | SMITHDALE 29 FEDERAL           | <b>MD Reference:</b>                | RKB = 20' @ 3633.00usft (AKITA 57) |
| <b>Site Error:</b>        | 0.00 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | 90H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.00 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | OH                             | <b>Database:</b>                    | EDM 5000.17 Single User Db         |
| <b>Reference Design:</b>  | PERMIT                         | <b>Offset TVD Reference:</b>        | Offset Datum                       |

Reference Depths are relative to RKB = 20' @ 3633.00usft (AKITA 57) Coordinates are relative to: 90H

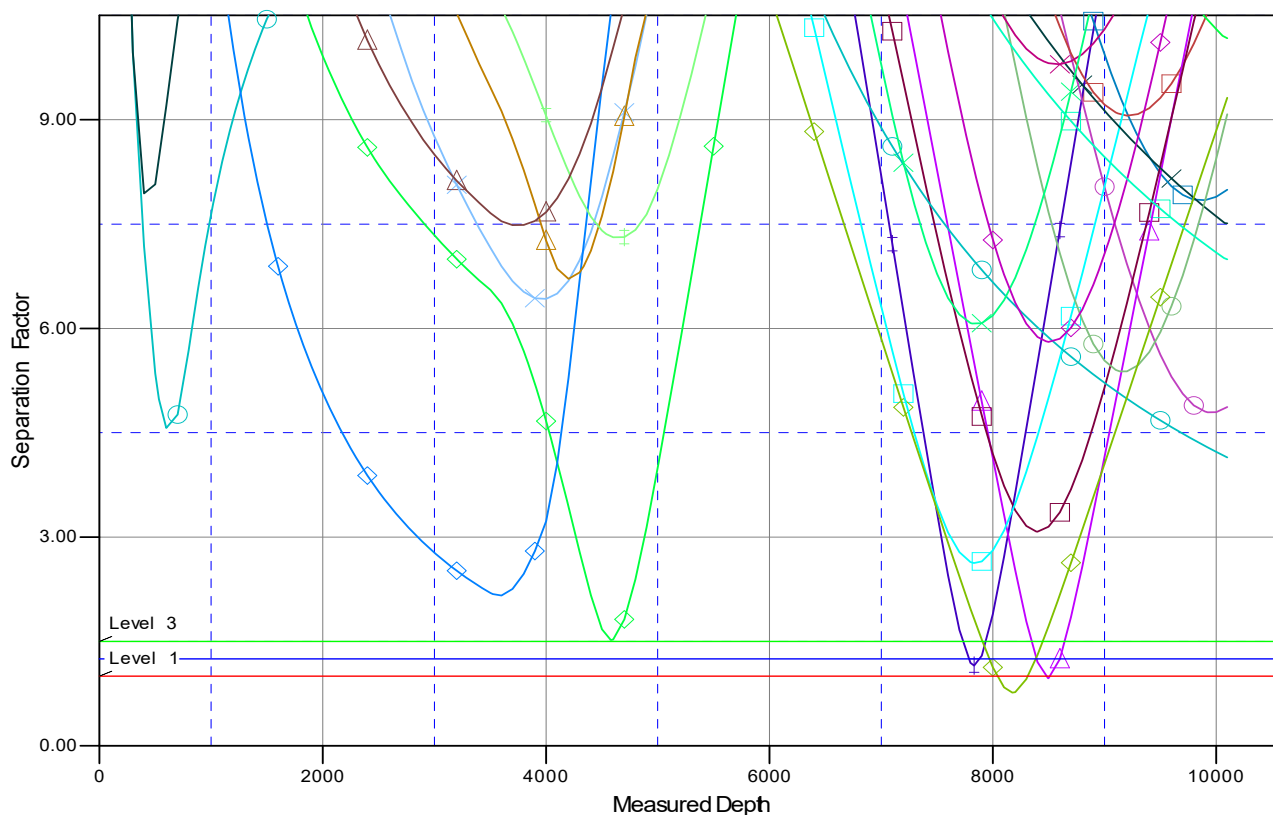
Offset Depths are relative to Offset Datum

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  
 FFSET: ANTHONY 2, Wellbore #1, Wellbore #1 V0  
 FFSET: OULAW STATE 3, Wellbore #1, Wellbore #1 V0  
 FFSET: STAEY STATE 21, Wellbore #1, Wellbore #1 V0  
 FFSET: STAEY STATE 25, Wellbore #1, Wellbore #1 V0  
 FFSET: OULAW STATE 10, Wellbore #1, Wellbore #1 V0  
 FFSET: ANTHONY STATE 3, Wellbore #1, Wellbore #1 V0

FFSET: OULAW STATE 11, Wellbore #1, Wellbore #1 V0  
 71H, OH, PERMIT V0  
 FFSET: OULAW STATE12, Wellbore #1, Wellbore #1 V0  
 70H, OH, PERMIT V0  
 FFSET: STAEY STATE 7, Wellbore #1, Wellbore #1 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: STAEY STATE 3, Wellbore #1, Wellbore #1 V0  
 FFSET: ANTHONY 1, 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  
 81H, OH, PERMIT V0

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

## Pecos District

### Application for Permit to Drill

### Conditions of Approval

#### Geology Concerns

|            |                                          |                                          |                                                   |
|------------|------------------------------------------|------------------------------------------|---------------------------------------------------|
| Potash     | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Secretary       | <input type="checkbox"/> R-111-P                  |
| Cave/Karst | <input type="checkbox"/> Medium          | <input checked="" type="checkbox"/> High | <input type="checkbox"/> Critical                 |
| H2S        | <input type="checkbox"/> None            | <input type="checkbox"/> Below 100 PPM   | <input checked="" type="checkbox"/> Above 100 PPM |
| Other      | <input type="checkbox"/> 4 String Area   | <input type="checkbox"/> Capitan Reef    | <input type="checkbox"/> SWD Well                 |

Note: The geology of the area where the well is being drilled determines the COAs that apply, not the above table.

#### Additional Engineering Requirements

Surface casing must be set at: 1,000 feet

Intermediate casing must be set at: No change from drill plan

#### General Requirements

1. Changes to the approved APD casing program need prior approval.
2. The Bureau of Land Management (BLM) will be notified in advance for a representative to witness:
  - a. Well spudding (minimum of 24 hours notice)
  - b. Setting and/or cementing of all casing strings (minimum of 4 hours notice)
  - c. BOPE tests (minimum of 4 hours notice)

#### Eddy County

620 East Greene Street, Carlsbad, NM 88220

(575) 361-2822

BLM\_NM\_CFO\_DrillingNotifications@BLM.GOV

#### Lea County

414 West Taylor, Hobbs, NM 88240

(575) 689-5981

3. The initial wellhead installed on the well will remain on the well with spools used as needed.
4. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

- a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig:
    - i. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with a Spudder Rig:
    - i. Notify the BLM when moving in and removing the Spudder Rig.
    - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - iii. BOP/BOPE test to be conducted per 43 CFR 3172.6 as soon as 2nd Rig is rigged up on well.
5. Floor controls are required for 3M or greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller, and will always be operational during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table or the area immediately above the substructure on which the draw works are located (this does not include the doghouse or stairway area).
6. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

### **Pressure Control**

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR 3172.6 and API STD 53 Sec. 5.3.
2. 5M or higher systems require an HCR valve, remote kill line, and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
3. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE, and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
  - b. The results of the test shall be reported to the appropriate BLM office.
  - c. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

- d. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
  - e. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR 3172.6(b)(9).
  - f. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - g. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, no tests shall commence until the cement has had a minimum of 24 hours setup time.
  - h. The tests shall be done by an independent service company utilizing a test plug, not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR 3172 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
4. If the operator has proposed using a 5,000 (5M) Annular on a 10M BOP:
- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi.
5. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
- a. Wellhead shall be installed by manufacturer's representatives (submit documentation with subsequent sundry).

- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed, and another wellhead installed.
6. If a variance is approved for break testing the BOPE, the following requirements apply:
- a. BOPE break testing is only approved for a BOP rated at 5M or less.
  - b. Approval is only for the intermediate hole sections, so long as those sections do not go deeper than the Bone Springs formation.
  - c. The Annular Preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.
  - d. A full BOP test shall be performed every 21 days (at a minimum).
  - e. A full BOP test is required prior to drilling the first intermediate hole section (if applicable). If any subsequent intermediate hole interval is deeper than the first, a full BOP test shall be required (a maximum 200 foot difference in true vertical depth (TVD) is allowed).
  - f. BOPE break testing is not permitted for drilling the production hole section.
  - g. While in transfer, the BOP shall be secured by the hydraulic carrier or cradle.
  - h. If any repairs or replacements of the BOPE is required, the BOPE shall be tested as required by 43 CFR 3172.
  - i. Pressure tests shall be performed on any BOPE components that have been disconnected. A low pressure (250-300 psi) and a high pressure (BOP max pressure rating) test are required.
  - j. If a testing plug is used, pressure shall be maintained for at least 10 minutes. If there is any bleed off in pressure, the test shall be considered to have failed.
  - k. If no testing plug is used, pressure shall be maintained for at least 30 minutes. If there is a decline in pressure of more than 10 percent, the test shall be considered to have failed.
  - l. The appropriate Bureau of Land Management (BLM) office shall be notified a minimum of 4 hours before testing occurs.
  - m. Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
  - n. If break testing is not used, then a full BOPE test shall be conducted.
7. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply:
- a. The flex line must meet the requirements of API 16C.

- b. Check condition of flexible line from BOP to choke manifold (replace if exterior is damaged or if line fails test).
- c. Line is to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements.
- d. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating.
- e. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, shall be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

### **Casing and Cement**

1. Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).
2. On any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. The formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
3. Provide compressive strengths (including hours to reach required 500 pounds compressive strength) prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
4. The surface casing shall be set at a minimum of 25 feet into the Rustler Anhydrite and 80 feet above the salt and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of 8 hours (or 24 hours in the Potash Area) or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

5. Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.
6. Intermediate casing must be cemented to surface. For medium/high cave/karst, potash, and Capitan Reef, wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
7. The production cement should tie-back at least 200 feet (500 feet in Secretary Potash, surface in R-111-P potash) into previous casing string. Operator shall provide method of verification.
8. Production liner cement should tie-back at least 100 feet into previous casing string. Operator shall provide verification of cement top.
9. In WIPP Areas, cement must come to surface on the first three casing strings.
10. If cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
11. No pea gravel permitted for remedial cement or fall back remedial cement without prior authorization from a BLM petroleum engineer.
12. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
13. DV tools:
  - a. First stage to DV tool (The DV tool may be cancelled if cement circulates to surface on the first stage):
    - i. Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
  - b. Second stage above DV tool:
    - i. For intermediate casing, cement to surface.
    - ii. For production casing, cement should tie-back at least 200 feet (500 feet in Secretary Potash, surface in R-111-P potash) into previous casing string. Operator shall provide method of verification.
    - iii. If cement does not circulate, contact the appropriate BLM office.

## 14. Potash Areas:

- a. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
- b. After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met:
  - i. Cement reaches a minimum compressive strength of 500 psi for all cement blends
  - ii. Until cement has been in place at least 24 hours.
- c. WOC time will be recorded in the driller's log.
- d. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- e. In R111 Potash Areas, if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing salt string must come to surface.
- f. In Secretary Potash Areas, if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

## 15. Wait on cement (WOC) for Water Basin:

- a. After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met:
  - i. Cement reaches a minimum compressive strength of 500 psi at the shoe
  - ii. Until cement has been in place at least 8 hours.
- b. WOC time will be recorded in the driller's log.

## 16. Medium/High/Critical Cave/Karst Areas:

- a. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
- b. In Critical Cave/Karst Areas cement must come to surface on the first three casing strings.
- c. In Medium and High Cave/Karst Areas, if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- d. In Critical Cave/Karst Areas, if cement does not circulate to surface on the first three casing strings, the cement on the 4th casing string must come to surface.

**Drilling Mud**

1. Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation and shall be used until production casing is run and cemented.

**Waste Material and Fluids**

1. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and

disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

2. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

## **Special Requirements**

1. Communitization Agreement
  - a. The operator will submit a Communitization Agreement to the Santa Fe Office (301 Dinosaur Trail, Santa Fe, NM 87508), at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division.
  - b. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
    - i. The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
    - ii. If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
  - c. In addition, the well sign shall include the surface and bottom hole lease numbers.
    - i. When the Communitization Agreement number is known, it shall also be on the sign.
2. Unit Wells
  - a. The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers.
    - i. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.
  - b. Commercial Well Determination
    - i. A commercial well determination shall be submitted after production has been established for at least six months (this is not necessary for secondary recovery unit wells).
3. Hydrogen Sulfide (H<sub>2</sub>S)
  - a. If H<sub>2</sub>S is encountered, provide measured values and formations to the BLM.
  - b. An H<sub>2</sub>S area must meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items.

- c. An H2S Drilling Plan shall be activated 500 feet prior to drilling into any formation designated as having H2S.
  - d. Hydrogen Sulfide monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items.
- 4. Capitan Reef
  - a. If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following (Use this for 3 string wells in the Capitan Reef, if it is a 4 string well ensure fresh water based mud is used across the Capitan interval):
    - i. Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
    - ii. Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports.
    - iii. The daily drilling report should show mud volume per shift/tour.
    - iv. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval.
    - v. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.
- 5. Salt Water Disposal Wells
  - a. The operator shall supply the BLM with a copy of a mudlog over the permitted disposal interval and estimated in situ water salinity based on open-hole logs.
  - b. If hydrocarbons are encountered while drilling, the operator shall notify the BLM.
  - c. The operator shall provide to the BLM a summary of formation depth picks based on mudlog and geophysical logs along with a copy of the mudlog and open-hole logs from total depth to top of Devonian.
  - d. An NOI sundry with the completion procedure for this well shall be submitted and approved prior to commencing completion work. The procedure will be reviewed to verify that the completion proposal will allow the operator to:
    - i. Properly evaluate the injection zone utilizing open-hole logs, swab testing and/or any other method to confirm that hydrocarbons cannot be produced in paying quantities. This evaluation shall be reviewed by the BLM prior to injection commencing.
    - ii. Restrict the injection fluid to the approved formation.
    - iii. If a step rate test will be run, an NOI sundry shall be submitted to the BLM for approval.

- e. If off-lease water will be disposed in this well, the operator shall provide proof of right-of-way approval.

6. WIPP Requirements

- a. If the proposed surface well or bottom hole is located within 330 feet of the WIPP Land Withdrawal Area boundary:
  - i. Daily drilling reports, logs, and deviation survey information are required to be submitted to the Bureau of Land Management Engineering Department and the U.S. Department of Energy (per requirements of the Joint Powers Agreement) until a total vertical depth of 7,000 feet is reached. These reports will have at a minimum the rate of penetration and a clearly marked section showing the deviation for each 500-foot interval. Operator may be required to do more frequent deviation surveys based on the daily information submitted and may be required to take other corrective measures.
  - ii. Information will also be provided to the New Mexico Oil Conservation Division after drilling activities have been completed.
  - iii. Upon completion of the well, the operator shall submit a complete directional survey.
  - iv. Any future entry into the well for purposes of completing additional drilling will require supplemental information.
- b. Required information shall be emailed to OilGasReports@wipp.ws.
  - i. Attached files must not be greater than 20 MB.
  - ii. Call WIPP Tech Support at 575-234-7422, during the hours of 7:00am to 4:30pm, if there are any issues sending to this address.



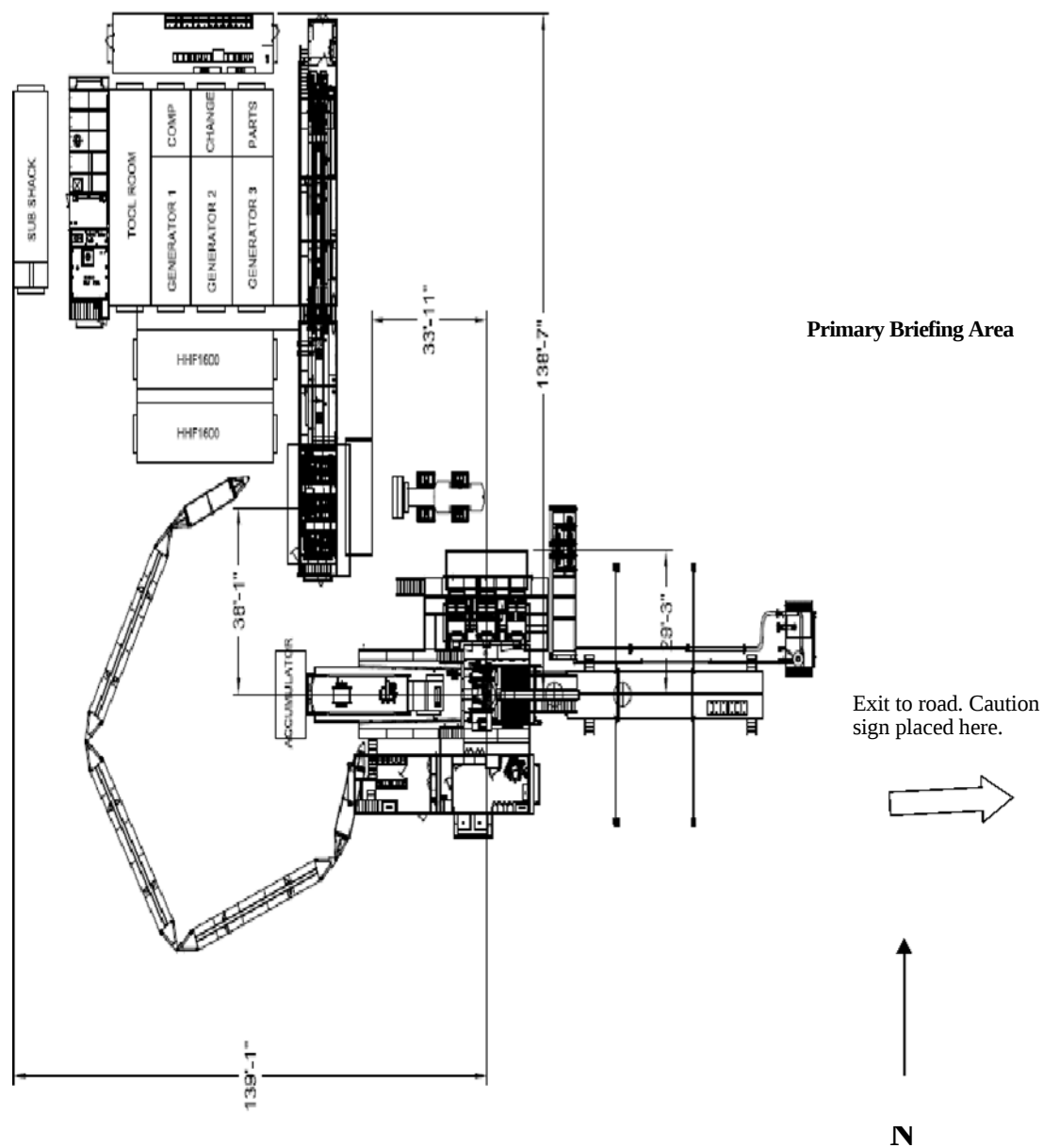
## **Permian Drilling Hydrogen Sulfide Drilling Operations Plan Smithdale 29 Federal Com Development**

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



Secondary Egress

WIND: Prevailing winds are from the Southwest

## **Spur Energy Partners New Mexico Operations Hydrogen Sulfide Operation Plan**

### **A. Introduction:**

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

The objective of this contingency plan is to provide an organized plan of action for alerting, responding to and protecting employees, other workers and the public from H<sub>2</sub>S exposure in the event of a release of a potentially hazardous volume of H<sub>2</sub>S to the atmosphere. This plan should be activated immediately if any such release occurs. The Superintendent is responsible for initiating and carrying out the plan.

### **B. Scope:**

Prevent the uncontrolled release of H<sub>2</sub>S 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 (H<sub>2</sub>S) 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 H<sub>2</sub>S. The intent is to promote sound and safe operations, while seeking effective communication surrounding operational considerations working around H<sub>2</sub>S.

This procedure applies to all Company employees and contractors working at facilities that have the potential to release 100 ppm or higher concentrations of H<sub>2</sub>S.

The plan establishes guidelines for all personnel whose work activity may involve exposure to Hydrogen Sulfide Gas (H<sub>2</sub>S).

### **C. Hydrogen Sulfide Gas (H<sub>2</sub>S) Characteristics:**

1. H<sub>2</sub>S is a toxic, poisonous gas that could cause death or injury. And it is also flammable.
2. H<sub>2</sub>S is an irritant and extremely toxic gas that is several times deadlier than carbon monoxide (CO).
3. H<sub>2</sub>S 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 H<sub>2</sub>S since wind currents can easily overcome the heavier weight. On calm days, with no wind, the H<sub>2</sub>S will tend to accumulate in dangerous concentrations; however, if the H<sub>2</sub>S is warmer than the surrounding air it may rise.
4. H<sub>2</sub>S is colorless.
5. In small concentrations, H<sub>2</sub>S 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 H<sub>2</sub>S! H<sub>2</sub>S 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. H<sub>2</sub>S burns with a blue flame and has an auto ignition temperature of 5000 F. H<sub>2</sub>S forms an explosive mixture in the range of 4.3% to 45% by volume with air. H<sub>2</sub>S, when ignited, produces Sulfur Dioxide (SO<sub>2</sub>). SO<sub>2</sub> is another toxic gas but less toxic than H<sub>2</sub>S.
7. Physiological Effects
  - 1,000-2,000+ ppm: Loss of consciousness and possible death.
  - 100-1,000 ppm: Serious respiratory, central nervous, and cardiovascular system effects.
  - 150-200 ppm: Olfactory fatigue (sense of smell is significantly impaired).
  - 100 ppm: Immediately Dangerous to Life and Health (IDLH concentration).
  - 5-30 ppm: Moderate irritation of the eyes.
  - 5-10 ppm: Relatively minor metabolic changes in exercising individuals during short-term exposures.
  - Less than 5 ppm: Metabolic changes observed in exercising individuals, but not clinically significant.
  - 5 ppm: Increase in anxiety symptoms (single exposure).
  - 5 ppm: Start of the dose-response curve (short-term exposure).
  - 0.032-0.02 ppm: Olfactory threshold (begin to smell).

#### **D. H<sub>2</sub>S 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 (H<sub>2</sub>S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H<sub>2</sub>S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.
5. The procedures for operating process equipment.

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

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

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

Note: All H<sub>2</sub>S 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 H<sub>2</sub>S 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 H<sub>2</sub>S 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. H<sub>2</sub>S warning signs must be placed at the entrance to the facility as well as other key locations.
6. Personal H<sub>2</sub>S Monitor are required to be worn by all personnel on locations.
7. Stairs and ladders leading to the top of a tank or vessel containing 300 ppm or greater shall be chained or marked to restrict entry.

#### **F. Emergency Procedures**

##### **1. Spill or Release of H<sub>2</sub>S gas**

If a spill or leak releases H<sub>2</sub>S the following action must be initiated and completed:

- a. Internally – Employee contacts supervisor and HSE Department and performs “d” below.
- b. Externally - Someone identifies a possible H<sub>2</sub>S emergency and reports it to Company Management, via the listed phone number on posted facility signs.
- c. The Company dispatches an employee to investigate possible H<sub>2</sub>S 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**

| <b>Spur Energy Partners Emergency Contact List</b>                             |                  |                                   |                   |
|--------------------------------------------------------------------------------|------------------|-----------------------------------|-------------------|
| <b>Person</b>                                                                  | <b>Location</b>  | <b>Office Phone</b>               | <b>Cell Phone</b> |
| <b>Drilling and Completions Department</b>                                     |                  |                                   |                   |
| 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      |
| <b>HES/Environmental and Regulatory Department</b>                             |                  |                                   |                   |
| 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      |
| <b>Regulatory Agencies</b>                                                     |                  |                                   |                   |
| 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<br>Public Regulation Commission | Santa Fe         | 505-827-3549<br>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<br>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<br>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<br>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 |
| <b>Law Enforcement - FBI</b>         |                 |              |
| FBI                                  | Albuquerque     | 505-224-2000 |
| FBI                                  | Midland         | 432-570-0255 |
| <b>Law Enforcement - DPS (911)</b>   |                 |              |
| 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 |
| <b>Firefighting and Rescue (911)</b> |                 |              |
| 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 |

| <b>Ambulance (911)</b>               |                 |              |
|--------------------------------------|-----------------|--------------|
| 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          |
| <b>Medical Air Ambulance Service</b> |                 |              |
| 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 H<sub>2</sub>S exposure.**

**ATTACHMENT 1: SPUR FACILITIES WITH ROE REVIEW**

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

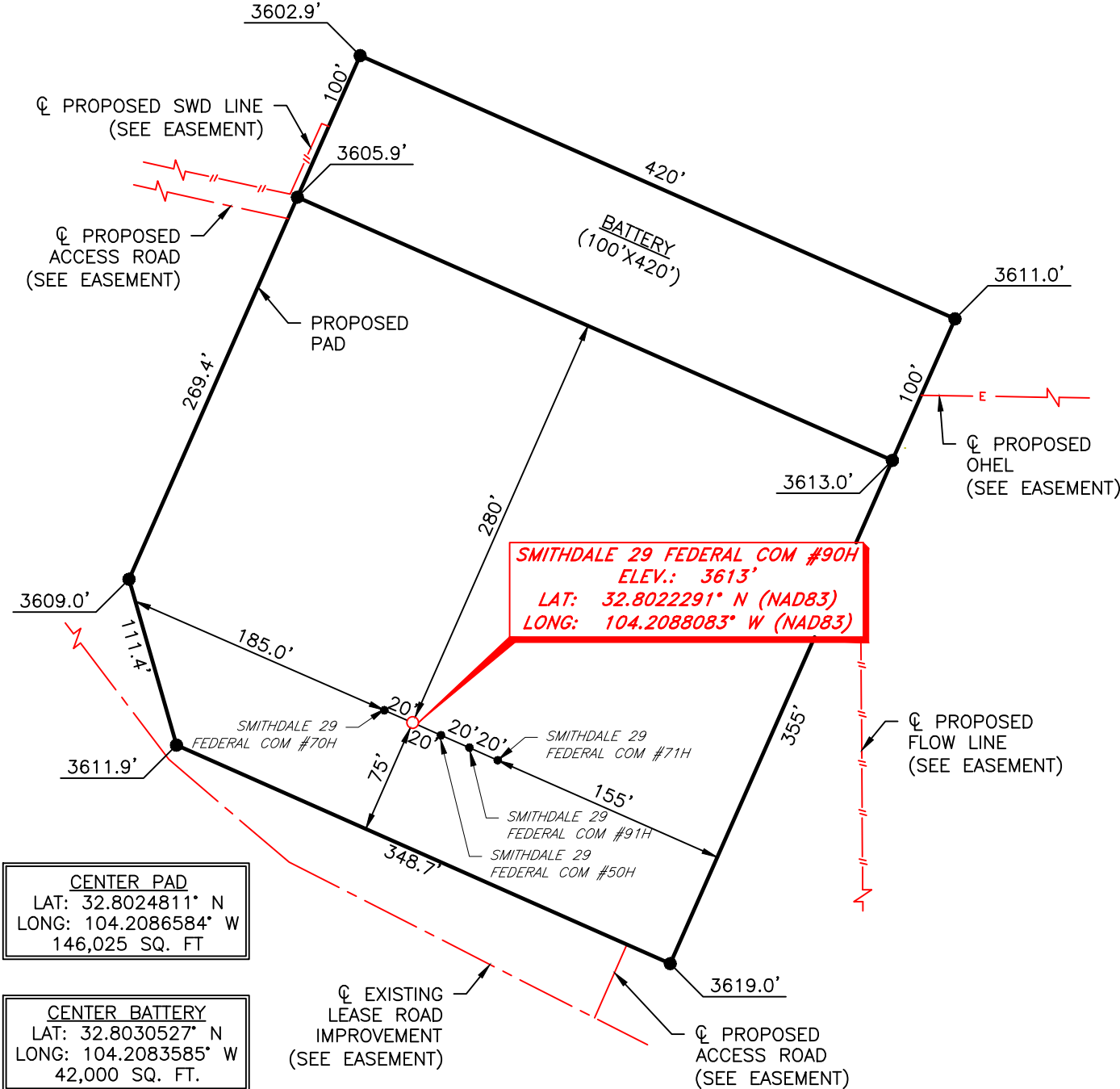
**ATTACHMENT 1: SPUR FACILITIES WITH ROE REVIEW**

|                                             |                                     |
|---------------------------------------------|-------------------------------------|
| 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 #90H  
(1594' FSL & 744' FEL)  
SECTION 30, T17S, R28E  
N. M. P. M., EDDY CO., NEW MEXICO

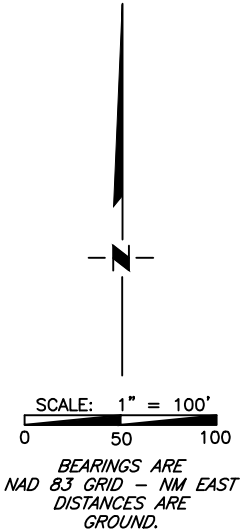


DIRECTIONS TO LOCATION

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*  
Dale E. Bell NM PS 14400



|                        |             |          |
|------------------------|-------------|----------|
|                        |             |          |
| 1                      | NAME CHANGE | 12/17/24 |
| NO.                    | REVISION    | DATE     |
| JOB NO.: LS24100886D1  |             |          |
| DWG. NO.: 24100886D1-4 |             |          |



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<sub>1,150 HP Double Mast Drilling Rig</sub>

## 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:

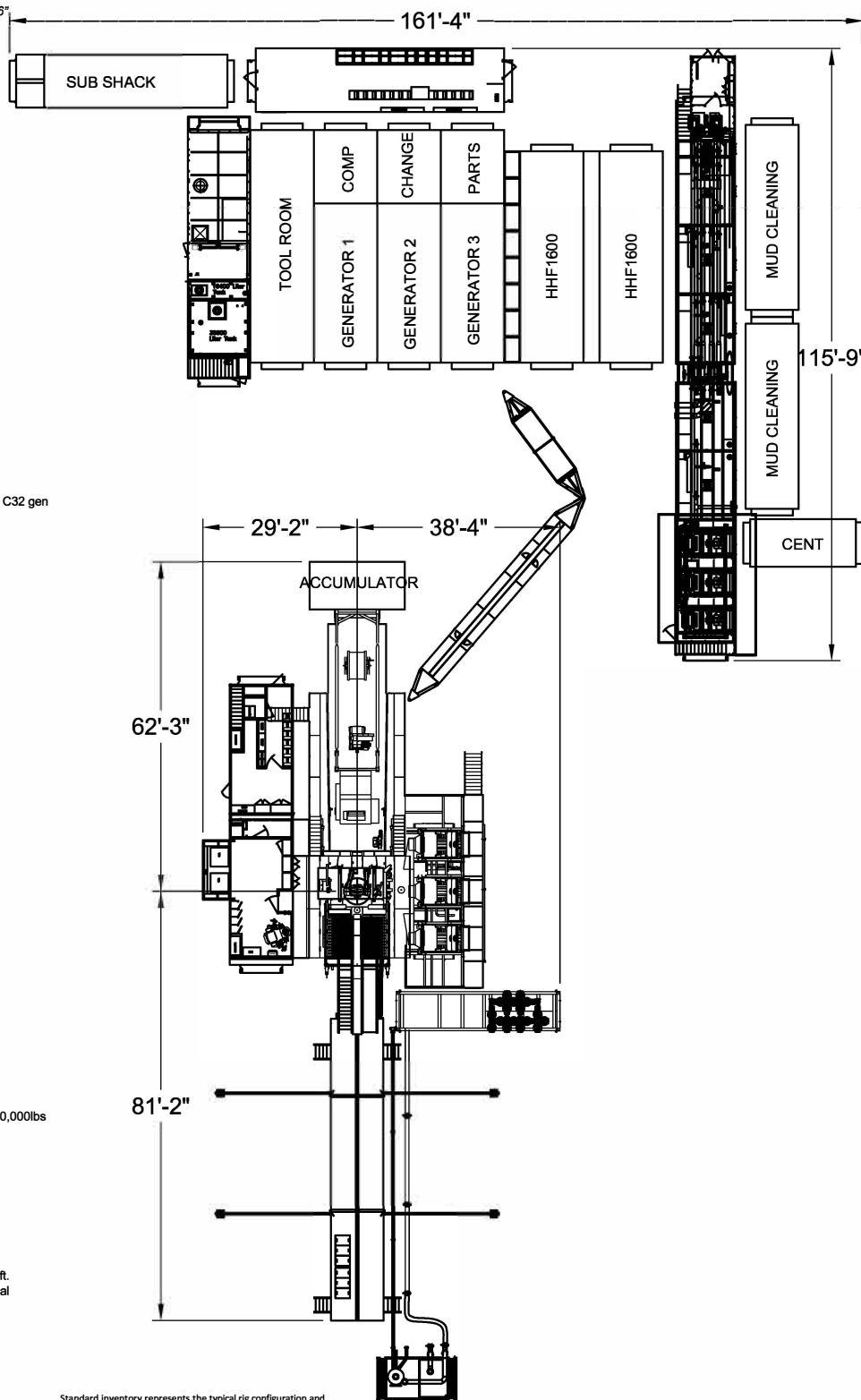
Walking beam hydraulic pony sub moving system for linear motion & side shift.

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

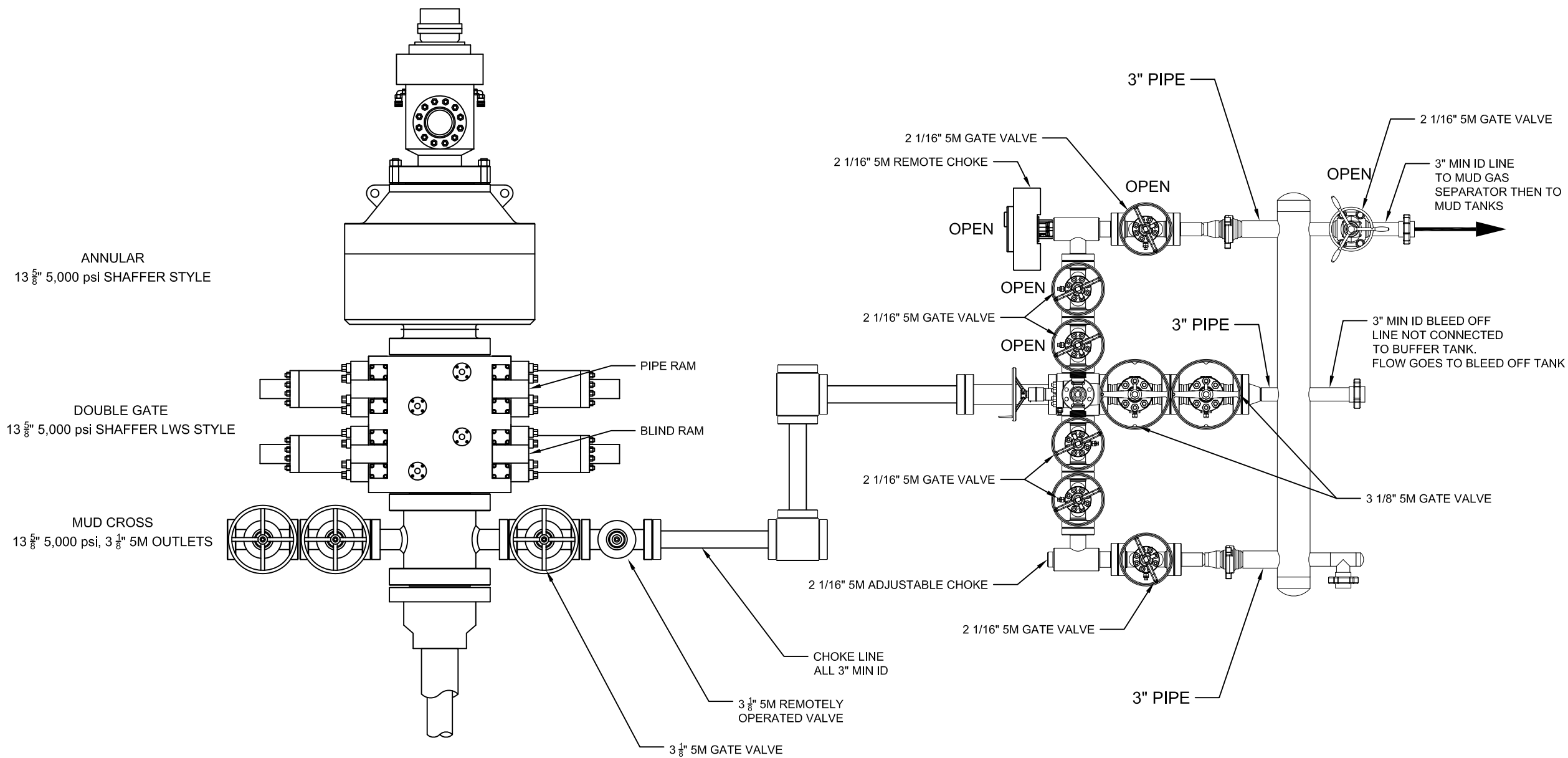


Standard inventory represents the typical rig configuration and inventory available, but specifications are subject to slight modifications from time to time due to customer requirements.

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

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TRANSCEND RIG 4</b>            | 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    | <ul style="list-style-type: none"> <li>• 13 3/8" handling tools</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 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: <ul style="list-style-type: none"> <li>• (2) 36" pipe wrenches</li> <li>• (2) 24" pipe wrenches</li> <li>• (2) 18" pipe wrenches</li> <li>• (1) 24" crescent wrench</li> <li>• (2) 12" crescent wrenches</li> <li>• (1) 4 lb shop hammer</li> <li>• (1) 12 lb sledge hammer</li> <li>• (1) 4 foot pry bar</li> <li>• Vehicles for Contractor personnel</li> <li>• Air Impact Wrench with Sockets</li> <li>• Mud Scales (as needed)</li> </ul> 1- F800 pump<br>1- Pill pit 80bbl<br>1- 400 bbl mud mix<br>1- Shaker 150mesh<br>1- 500 bbl fresh water frac tank |



Notes  
-  
-  
-

| No. | Revision | Date |
|-----|----------|------|
|-----|----------|------|

**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 &amp; 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 : |          |

F-PRD-005B

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

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**

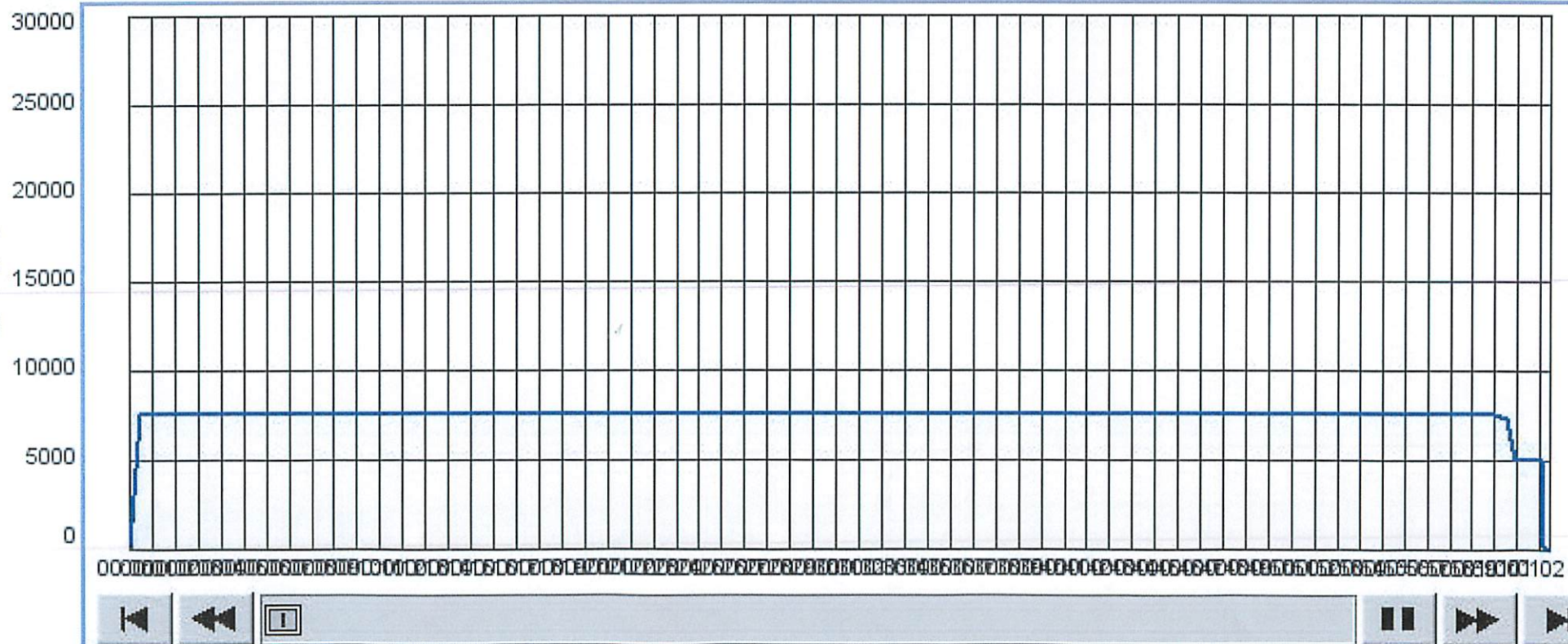
Description = **3.5 5K 3 1/8 FLG 5K**

Technician= **CHRIS OLIVO**

12/19/2017 16:53:26

17:55:52

P  
S  
I  
G





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

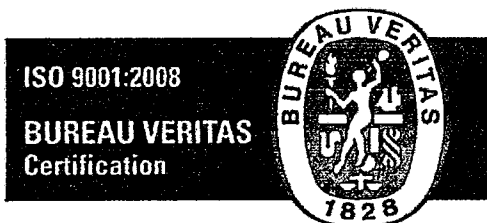
The Safety Clamp unit identified on this certificate has been load tested completely assembled; including the clamp body, (2) 3/4" shackles, 5/8" x 48" wire rope sling and anchor tab. Thus, all components are tested at the "Proof" load. Do not disassemble. Do not interchange any part or parts of this 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.



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# 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.          |  |
| <p>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.</p> <p>Cutting/Removing either one or both stainless steel Tamper-proof hardware cables renders this Test Certificate VOID.</p> <p>* Safe Work Load</p> |             |                     |           |                     |  |

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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 445723

**CONDITIONS**

|                                                                                 |                                                                       |
|---------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Operator:<br>Spur Energy Partners LLC<br>9655 Katy Freeway<br>Houston, TX 77024 | OGRID:<br>328947                                                      |
|                                                                                 | Action Number:<br>445723                                              |
|                                                                                 | Action Type:<br>[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.                                                                                                                                                                                                                     | 4/11/2025      |
| ward.rikala | File As Drilled C-102 and a directional Survey with C-104 completion packet.                                                                                                                                                                                          | 4/11/2025      |
| 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. | 4/11/2025      |
| 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.                  | 4/11/2025      |