

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

General Information  
Phone: (505) 629-6116

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

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

Form C-101  
August 1, 2011  
Permit 414528

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

1. Operator Name and Address Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024		2. OGRID Number 328947
4. Property Code 339196		3. API Number 30-015-58180
5. Property Name CECILIA 35 STATE COM		6. Well No. 030H

**7. Surface Location**

UL - Lot D	Section 36	Township 17S	Range 28E	Lot Idn D	Feet From 65	N/S Line N	Feet From 750	E/W Line W	County Eddy
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**8. Proposed Bottom Hole Location**

UL - Lot D	Section 35	Township 17S	Range 28E	Lot Idn D	Feet From 770	N/S Line N	Feet From 50	E/W Line W	County Eddy
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**9. Pool Information**

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

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3675
16. Multiple N	17. Proposed Depth 10129	18. Formation Paddock	19. Contractor	20. Spud Date 8/3/2026
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.625	36	1275	323	0
Prod	8.75	7	32	4800	1605	0
Prod	8.75	5.5	20	10129	1605	0

**Casing/Cement Program: Additional Comments**

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**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5	5000	SHAFFER

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well. I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input type="checkbox"/> if applicable.  Signature:	<b>OIL CONSERVATION DIVISION</b>	
	Printed Name: Electronically filed by Sarah Chapman	Approved By: Jeffrey Harrison
	Title: Regulatory Director	Title: Petroleum Specialist III
	Email Address: schapman@spurenergy.com	Approved Date: 5/4/2026      Expiration Date: 5/4/2028
	Date: 4/15/2026      Phone: 832-930-8613	Conditions of Approval Attached

C-102  Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
	Submittal Type: <input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled	

WELL LOCATION INFORMATION

API Number <b>30-015- 58180</b>	Pool Code <b>96830</b>	Pool Name <b>ARTESIA; GLORIETA-YESO</b>
Property Code <b>339196</b>	Property Name <b>CECILIA 35 STATE COM</b>	Well Number <b>30H</b>
OGRID No. <b>328947</b>	Operator Name <b>SPUR ENERGY PARTNERS LLC.</b>	Ground Level Elevation <b>3675'</b>
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 type="checkbox"/> Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	36	17S	28E		65 FNL	750 FWL	32.7990928°N	104.1360809°W	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	35	17S	28E		770 FNL	50 FWL	32.7964603°N	104.1553342°W	EDDY

Dedicated Acres <b>320</b>	Infill or Defining Well <b>INFILL</b>	Defining Well API <small>CECILIA 35 STATE COM 1H APD PENDING SUBMITTAL</small>	Overlapping Spacing Unit (Y/N) <b>Y</b>	Consolidation Code <b>F &amp; C</b>
Order Numbers. <b>R-24281 SLO CA: PENDING</b>			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No <b>NA</b>	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	36	17S	28E		628 FNL	857 FWL	32.7975490°N	104.1357304°W	EDDY


First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	35	17S	28E		770 FNL	100 FEL	32.7971152°N	104.1388420°W	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	35	17S	28E		770 FNL	100 FWL	32.7964667°N	104.1551717°W	EDDY

Unitized Area or Area of Uniform Interest <b>SLO CA: PENDING</b>	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: <b>3675' GL</b>
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<p><b>OPERATOR CERTIFICATIONS</b></p> <p><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></p> <p><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></p> <p><i>Sarah Savino</i>      04/15/2026</p>	<p><b>SURVEYOR CERTIFICATIONS</b></p> <p><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></p> <div style="text-align: right;">  </div>
Signature <b>SARAH SAVINO</b>	Signature and Seal of Professional Surveyor <i>Dale E. Bell</i>
Printed Name <b>SSAVINO@SPURENERGY.COM</b>	Certificate Number <b>14400</b>
Email Address	Date of Survey <b>02/28/2025</b>

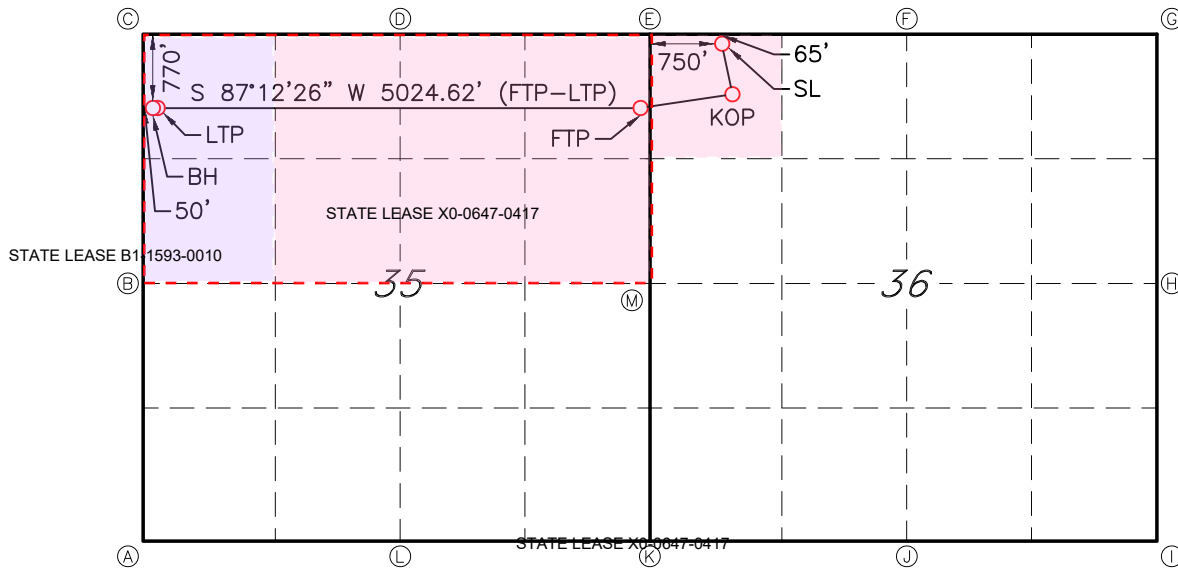
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

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.

**CECILIA 35 STATE COM #30H**



GEODETTIC DATA  
NAD 83 GRID - NM EAST

SURFACE LOCATION (SL)  
65' FNL & 750' FWL SEC.36  
N: 654498.9 - E: 601947.2

LAT: 32.7990928° N  
LONG: 104.1360809° W

KICK OFF POINT (KOP)  
628' FNL & 857' FWL SEC.36  
N: 653937.4 - E: 602056.0

LAT: 32.7975490° N  
LONG: 104.1357304° W

FIRST TAKE POINT (FTP)  
770' FNL & 100' FEL SEC.35  
N: 653777.8 - E: 601100.1

LAT: 32.7971152° N  
LONG: 104.1388420° W

LAST TAKE POINT (LTP)  
770' FNL & 100' FWL SEC.35  
N: 653533.1 - E: 596082.8

LAT: 32.7964667° N  
LONG: 104.1551717° W

BOTTOM HOLE (BH)  
770' FNL & 50' FWL SEC.35  
N: 653530.7 - E: 596032.8

LAT: 32.7964603° N  
LONG: 104.1553342° W

CORNER DATA  
NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1941"  
N: 649121.0 - E: 596015.9

B: FOUND BRASS CAP "1941"  
N: 651709.5 - E: 595996.2

C: FOUND BRASS CAP "1941"  
N: 654298.0 - E: 595977.3

D: FOUND BRASS CAP "1941"  
N: 654424.1 - E: 598586.6

E: FOUND BRASS CAP "1941"  
N: 654552.6 - E: 601197.1

F: FOUND BRASS CAP "1941"  
N: 654592.1 - E: 603810.5

G: FOUND BRASS CAP "1914"  
N: 654636.5 - E: 606423.2

H: FOUND BRASS CAP "1914"  
N: 651981.3 - E: 606420.0

I: FOUND BRASS CAP "1914"  
N: 649333.0 - E: 606416.7

J: FOUND BRASS CAP "1941"  
N: 649280.1 - E: 603816.6

K: FOUND BRASS CAP "1941"  
N: 649227.2 - E: 601217.2

L: FOUND BRASS CAP "1941"  
N: 649173.8 - E: 598615.9

M: FOUND BRASS CAP "1941"  
N: 651888.7 - E: 601207.1



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**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form APD Conditions

Permit 414528

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: Spur Energy Partners LLC [328947] 9655 Katy Freeway Houston, TX 77024	API Number: 30-015-58180
	Well: CECILIA 35 STATE COM #030H

OCD Reviewer	Condition
jeffrey.harrison	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.
jeffrey.harrison	All logs run on the well must be submitted to NMOCD.
jeffrey.harrison	NSP required prior to production if not included in an existing order or not an infill to an appropriate defining well in the same pool and spacing unit.
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
jeffrey.harrison	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.
jeffrey.harrison	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.
jeffrey.harrison	If the method of isolation was not by circulation, a CBL must be performed; if strata isolation is not achieved, then remediation will be required before further operations.
jeffrey.harrison	Cement is required to circulate to surface on the first two strings of casing.

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:** 04 / 14 / 2026

**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
JACKHAMMER 26 STATE COM 70H	30-015-	D-36-17S-28E	25' FNL 750' FWL	432 BBL/D	435 MCF/D	1312 BBL/D
JACKHAMMER 26 STATE COM 90H	30-015-	D-36-17S-28E	45' FNL 750' FWL	431 BBL/D	444 MCF/D	1621 BBL/D
CECILIA 35 STATE COM 30H	30-015-	D-36-17S-28E	65' FNL 750' FWL	432 BBL/D	635 MCF/D	1312 BBL/D

**IV. Central Delivery Point Name:** JACK CECILIA 35 26 STATE COM TANK BATTERY [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
JACKHAMMER 26 STATE COM 70H	30-015-	08/01/2026	09/06/2026	10/02/2026	10/12/2026	11/06/2026
JACKHAMMER 26 STATE COM 90H	30-015-	08/02/2026	09/12/2026	10/02/2026	10/12/2026	11/06/2026
CECILIA 35 STATE COM 30H	30-015-	08/03/2026	09/18/2026	10/02/2026	10/12/2026	11/06/2026

**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 Savino</i>
Printed Name:	SARAH SAVINO
Title:	REGULATORY DIRECTOR
E-mail Address:	SSAVINO@SPUREENERGY.COM
Date:	04/14/2026
Phone:	832-930-8613

**OIL CONSERVATION DIVISION**  
**(Only applicable when submitted as a standalone form)**

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



## Natural Gas Management Plan – Attachment

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

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

- A. Spur will maximize the recovery of natural gas by minimizing waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. Spur will ensure that our wells will be connected to a natural gas gathering system with sufficient capacity to transport natural gas.
- B. All drilling operations will be equipped with a rig flare at least 100 feet from the nearest surface hole location. Rig flare will be utilized to combust any natural gas that is brought to surface during normal operations. In the case of emergency, flaring volumes will be reported appropriately.
- C. During completion operations any natural gas brought to surface will be flared. Immediately following completion operations, wells will flow to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. If natural gas does not meet gathering pipeline specifications, Spur will flare for 60 days or until natural gas meets the pipeline specifications. Spur will ensure flare is properly sized and is equipped with an automatic igniter or continuous pilot. Gas samples will be taken twice per week and natural gas will be routed into a gathering system as soon as the pipeline specifications are met.
- D. Natural gas will not be flared with the exception of 19.15.27.8(D)(1-4). If there is no adequate takeaway for the separator gas, wells will be shut-in until that natural gas gathering system is available with exception of emergency or malfunction situations. Volumes will be reported appropriately.
- E. Spur will comply with performance standards pursuant to 19.15.27.8(E)(1-8). All equipment will be designed and sized to handle maximum pressures to minimize waste. Storage tanks constructed after May 25, 2021 will be equipped with an automatic gauging system that reduces venting of natural gas. Flare stacks installed or replaced after May 25, 2021 will be equipped with an automatic igniter or continuous pilot. Spur will conduct AVO inspections as described in 19.15.27.8(E)(5)(a) with frequencies specified in 19.15.27.8(E)(5)(b) and (c). All emergencies or malfunctions will be resolved as quickly and safely as possible to minimize waste.
- F. The volume of natural gas that is vented or flared as the result of an emergency or malfunction during drilling and/or completion operations will be estimated and reported accordingly. The volume of natural gas that is vented, flared or beneficially used during production operations, will be measured and reported accordingly. Spur will install equipment to measure the volume of natural gas flared from existing piping or a flowline piped from equipment such as high-pressure separators, heater treaters, or VRUs associated with a well or facility associated with a well authorized by an APD after May 25, 2021 that has an average daily production of less than 60,000 cubic feet of natural gas. If metering is not practicable due to circumstances such as low flow rate or low pressure venting or flaring, Spur will estimate the volume of flared or vented natural gas. Measuring equipment will conform to industry standards and will not be equipped with a manifold



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

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



**Permian Drilling**  
**Hydrogen Sulfide Drilling Operations Plan**  
**JACK CECILIA 26 35 DEVELOPMENT**

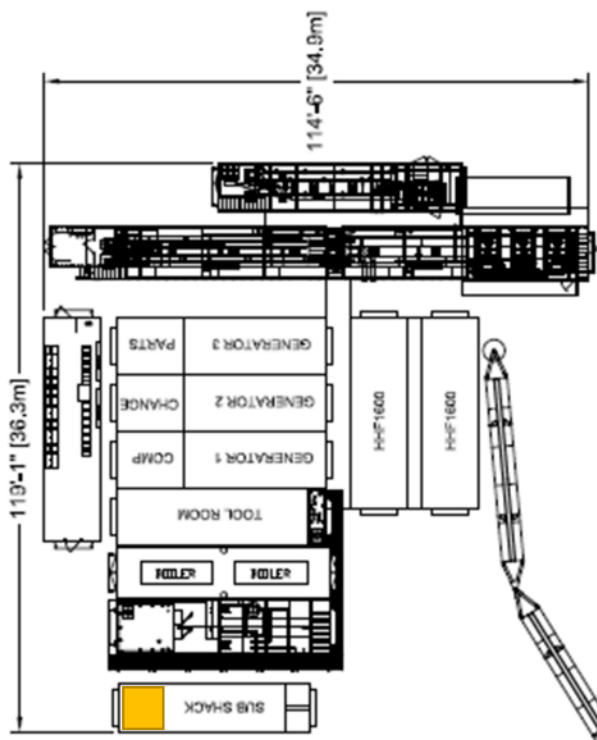
Open drill site. No homes or buildings are near the proposed location.




1. Escape

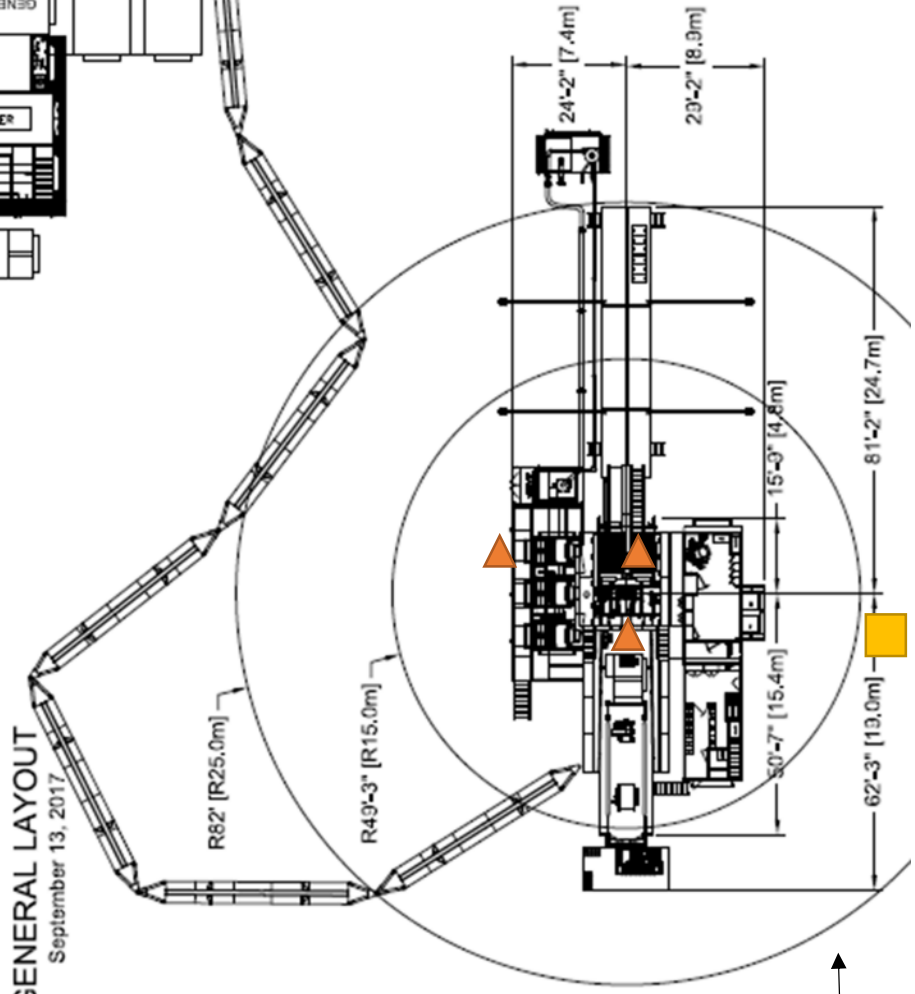
Personnel shall escape upwind of wellbore in the even of an emergency gas release.

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 secondary egress route should be taken.



-  H2S Detectors. At least three detectors will be installed: bell nipple, rig floor, and Shakers.
  -  Briefing Areas. At least two briefing areas will be placed, 9 deg off.
  -  Wind direction indicators. Visible from rig floor and from the mud pits area.
- A gas buster is connected to both the choke manifold and the flowline outlets.



**AKITA DRILLING LTD.**  
**RIG 57**  
 GENERAL LAYOUT  
 September 13, 2017

**Wind:** Prevailing winds are from the Southwest.

Primary Briefing Area

Secondary Egress

Secondary Briefing Area

Exit to road. Caution sign placed here.

## **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 Public Regulation Commission	Santa Fe	505-827-3549 505-490-2375	
EPA Hotline	Dallas	214-665-6444	
Federal OSHA, Area Office	Lubbock	806-472-7681	
National Response Center	Washington, D.C.	800-424-8803	
National Infrastructure Coordinator Center	Washington, D.C.	202-282-2901	
New Mexico Air Quality Bureau	Santa Fe	505-827-1494	
New Mexico Oil Conservation Division	Artesia	575-748-1283 575-370-7545After	
New Mexico Oil Conservation Division	Hobbs	575-393-6161	
New Mexico Oil Conservation Division	Santa Fe	505-476-3770	
New Mexico OCD Environmental Bureau	Santa Fe	505-827-7152 505-476-3470	
New Mexico Environmental Department	Hobbs	575-827-9329	
NM State Emergency Response Center	Santa Fe	505-476-9600	

<b>Medical Facilities</b>		
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
<b>Law Enforcement - Sheriff</b>		
Ector County Sheriff's Department	Odessa	432-335-3050
Ector County Sheriff's Department	Artesia	575-746-2704

Ector County Sheriff's Department	Carlsbad	575-887-7551
Lea County Sherrif's Department	Eunice	575-384-2020
Lea County Sherrif's Department	Hobbs	575-393-2515
Lea County Sherrif's Department	Lovington	575-396-3611
Lubbock County Sheriff's Department	Abernathy	806-296-2724
Midland County Sheriff's Department	Midland	432-688-1277
Union County Sheriff's Department	Clayton	575-374-2583
<b>Law Enforcement - Police</b>		
Abernathy Police Department	Abernathy	806-298-2545
Artesia City Police	Artesia	575-746-2704
Carlsbad City Police	Carlsbad	575-885-2111
Clayton City Police	Clayton	575-374-2504
Eunice City Police	Eunice	575-394-2112
Hobbs City Police	Hobbs	575-397-9265 575-393-2677
Jal City Police	Jal	575-395-2501
Lovington City Police	Lovington	575-396-2811

Midland City Police	Midland	432-685-7113
Odessa City Police	Odessa	432-335-3378
<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 H2S exposure.**

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

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

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

FIR FEDERAL TNK BTY  
FIRECRACKER STATE TB  
FLEMMING STATE OIL BATTERY  
FOLK FEDERAL B TNK BTY  
FOLK FEDERAL TNK BTY  
FOLK STATE TANK BATTERY  
FORAN STATE OIL BATTERY  
GC FEDERAL 11 TNK BTY  
GC FEDERAL 27 TNK BTY  
GC FEDERAL TNK BTY  
GILLESPIE STATE OIL BATTERY  
GISSLER FEDERAL 13H TANK BATT  
GJ WEST COOP SOUTH TB  
GJ WEST COOP UNIT 092 BTY  
GJ WEST COOP UNIT 191 BTY  
GJ WEST COOP UNIT 210 BTY  
GJ WEST COOP UNIT CENTRAL  
GJ WEST COOP UNIT N TNK BTY  
GOLD STAR TNK BTY  
GOODMAN 22 TANK BATTERY  
GRAVE DIGGER FEDERAL COM TANK BATTERY  
GRAVE DIGGER ST COM #3H TANK BATTERY  
GRAVE DIGGER STATE COM #8H SWB  
HALBERD 27 ST 3H BATTERY  
HANOVER STATE #3 (YESO)  
HARPER STATE TNK BTY  
HARVARD FEDERAL TNK BTY  
HATFIELD B TB  
HEARSE 36 ST COM TANK BATTERY  
HOBGOBLIN 7 FED COM 4H TK BAT  
HOLDER CB 11 TNK BTY  
HOLDER CB FEDERAL 6&7 TNK BTY  
HOLIDAY  
HOUMA STATE TNK BTY  
HT 18 FED 01.05.04 TANK BATTERY  
HT 18 FEDERAL 8  
HUBER 10,11,12 FEDERAL OIL TANK BATTERY  
HUBER 3 FEDERAL OIL TANK BATTERY  
HUBER 5 FEDERAL OIL TANK BATTERY  
HYDRUS 10 FED 03.07.08.11 TANK BATTERY  
HYDRUS 10 FED 04.05 TANK BATTERY  
HYDRUS 10 FED 06.09.10.12 TANK BATTERY  
IMPERIAL STATE TNK BTY

IVAR THE BONELESS FED 11H - BATTERY  
JC FEDERAL 13 TNK BTY  
JC FEDERAL 2 (SOUR) TNK BTY  
JC FEDERAL 27 TNK BTY  
JENKINS B FEDERAL TNK BTY  
JG STATE 16 1 TANK BATTERY  
JG STATE 16 7 TANK BATTERY  
JON BOB 1  
JUNIPER STATE TNK BTY  
KIOWA OIL BATTERY  
KOOL AID STATE  
LAKEWOOD NORTH TANK BATTERY  
LAKEWOOD SOUTH TANK BATTERY  
LARA MICHELLE STATE OIL BTTY  
LEAKER CC STATE TB  
LEE 3 FEE 6H - TK BATT  
LIVE OAK TANK BATTERY  
MALCO 23 FEDERAL COM #13H  
MAPLE STATE  
MARACAS 22 STATE TANK BATTERY  
MARY FEDERAL OIL BATTERY  
MAYARO 22 STATE TANK BATTERY  
MC FEDERAL 14 TANK BATTERY  
MC FEDERAL 6 DEVONIAN  
MC FEDERAL PADDOCK TNK BTY  
MC SOUTHEAST BATTERY  
MC STATE OIL BATTERY  
MCCOY STATE TB  
MCINTYRE A EAST TANK BATTERY  
MCINTYRE B 10  
MCINTYRE B 4  
MCINTYRE B TNK BTY  
MCINTYRE DK 15 TNK BTY  
MCINTYRE DK FEDERAL 28H SWB  
MEADOWHAWK 5 FEDERAL 3  
MELROSE FEDERAL TNK BTY  
MERAK 7 FEDERAL 8 TANK BATTERY  
MESILLA STATE 3 & 5 TNK BTY  
MESILLA STATE TNK BTY  
MESQUITE STATE TANK BATTERY  
MIMOSA STATE TNK BTY  
MIRANDA FEDERAL B TNK BTY  
MIRANDA FEDERAL TB

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

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

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

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



Project: EDDY COUNTY, NM (NAD 83 - NME)  
 Site: CECILIA 35 STATE COM  
 Well: 30H  
 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

WELL DETAILS: 30H

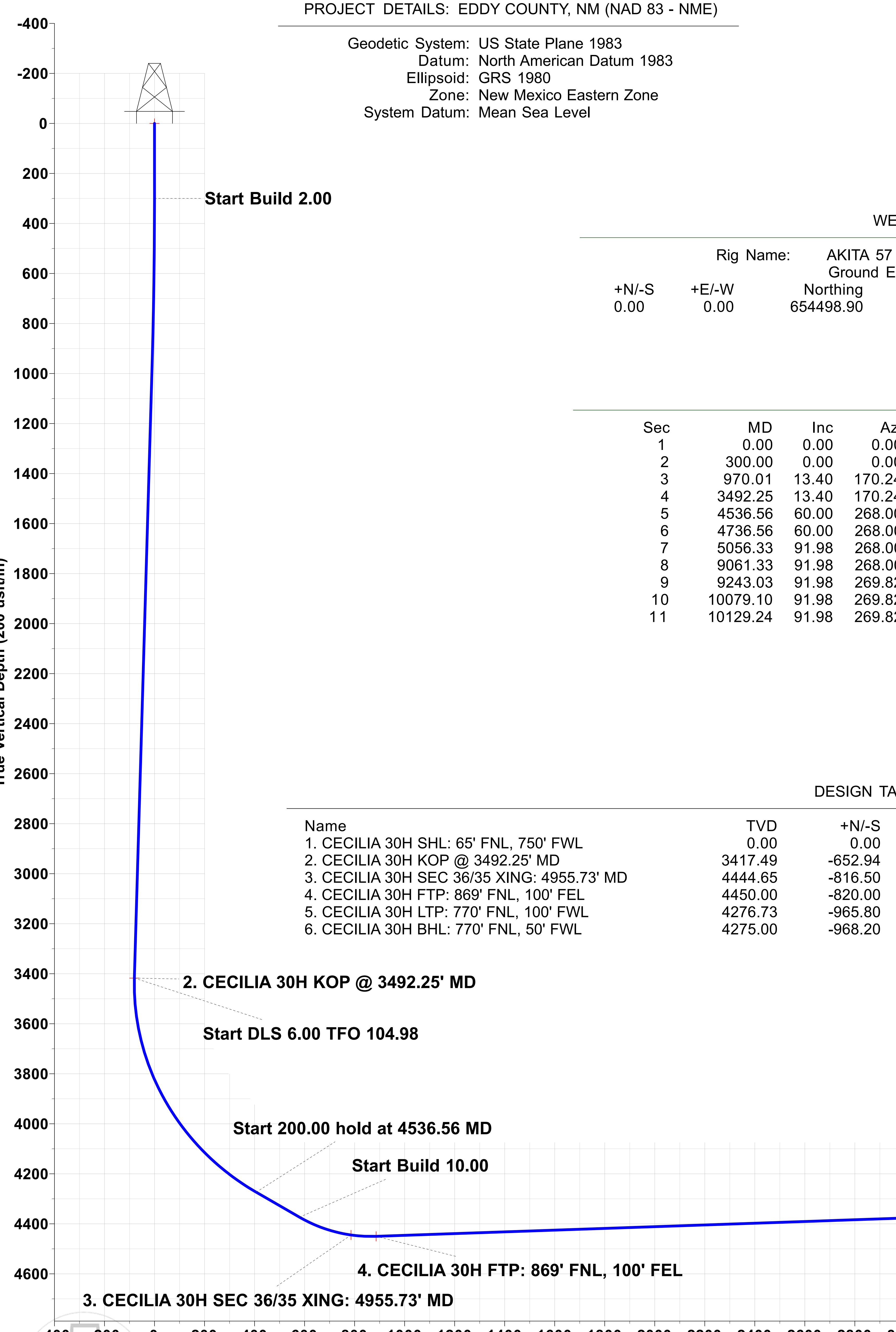
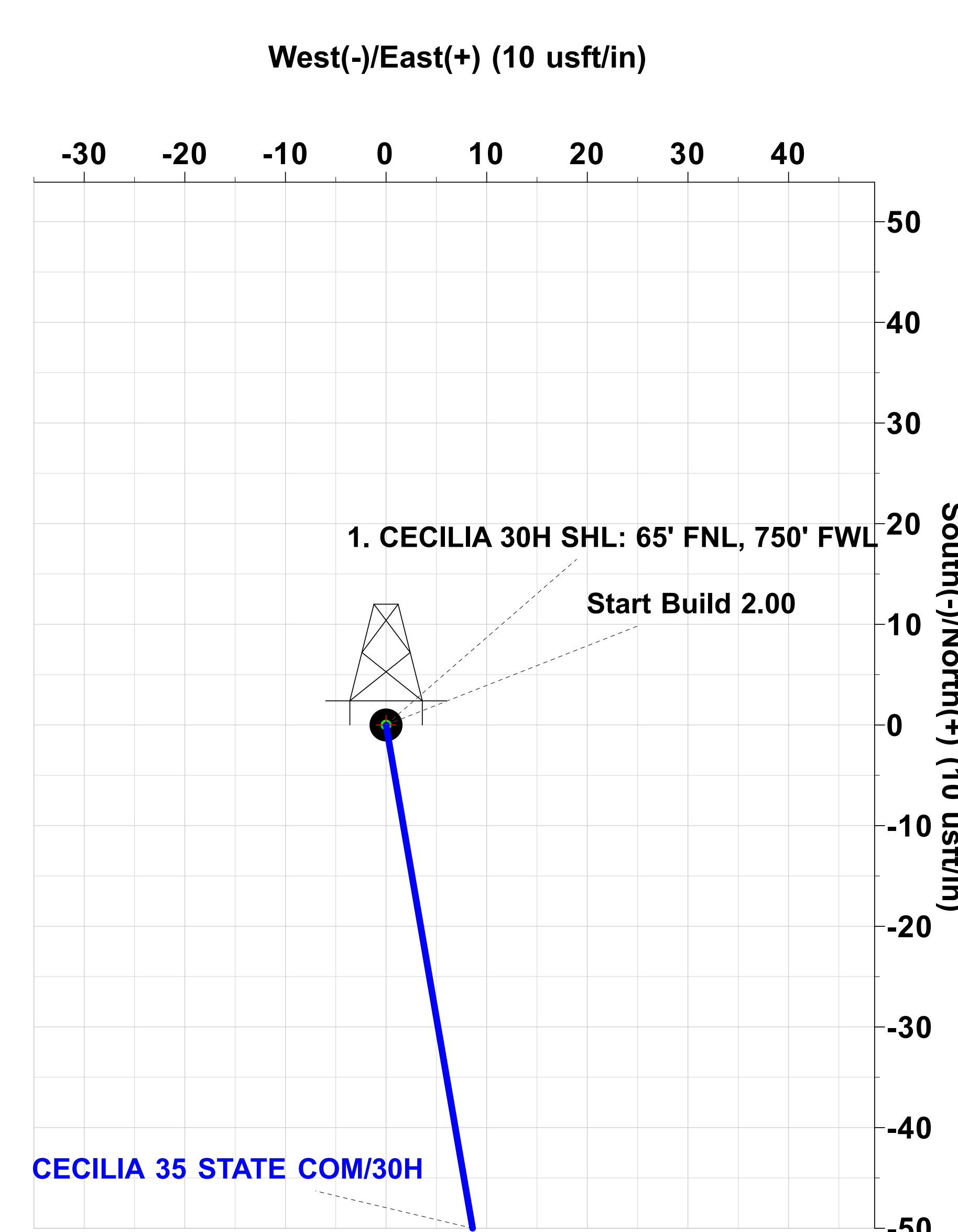
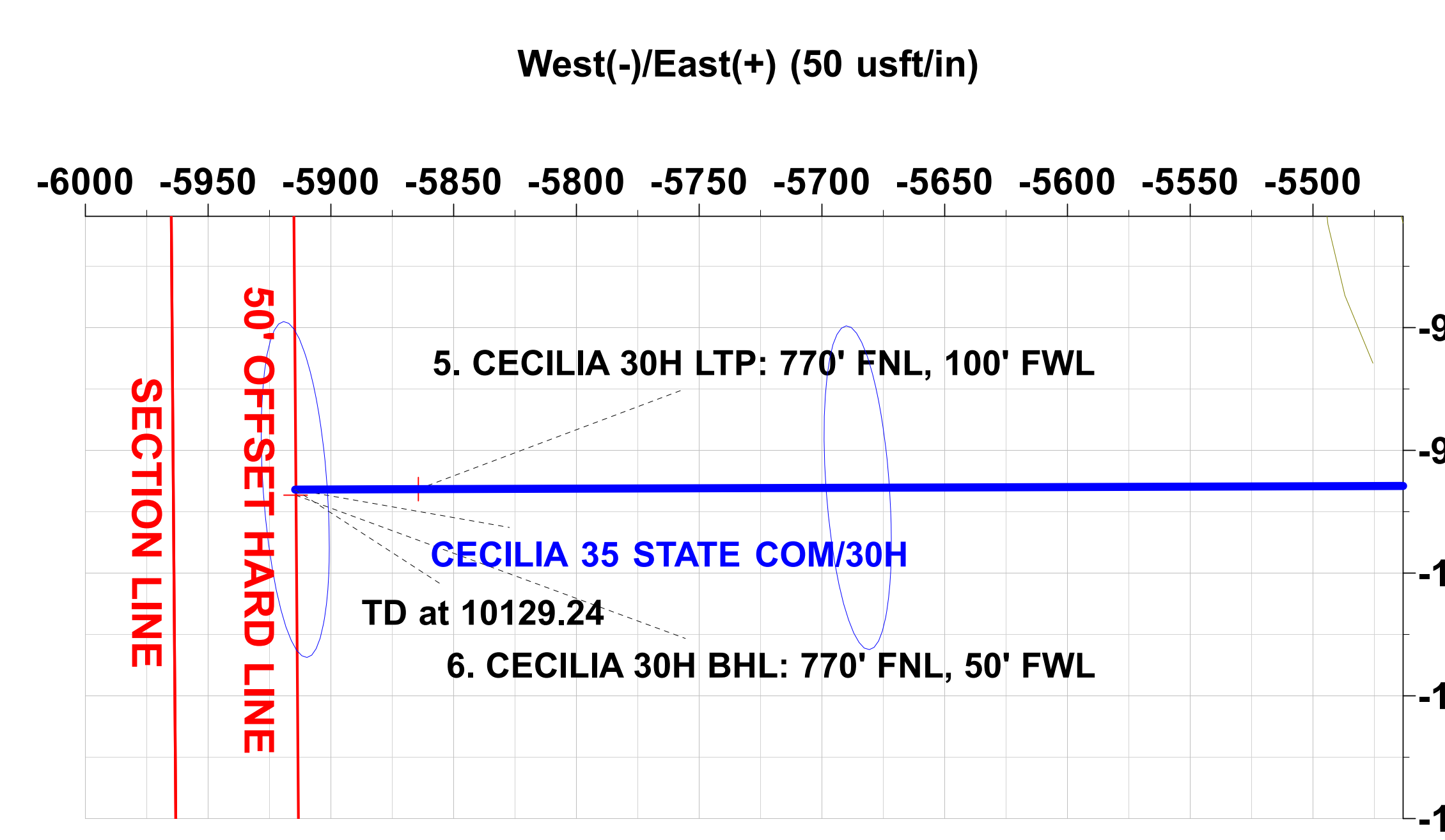
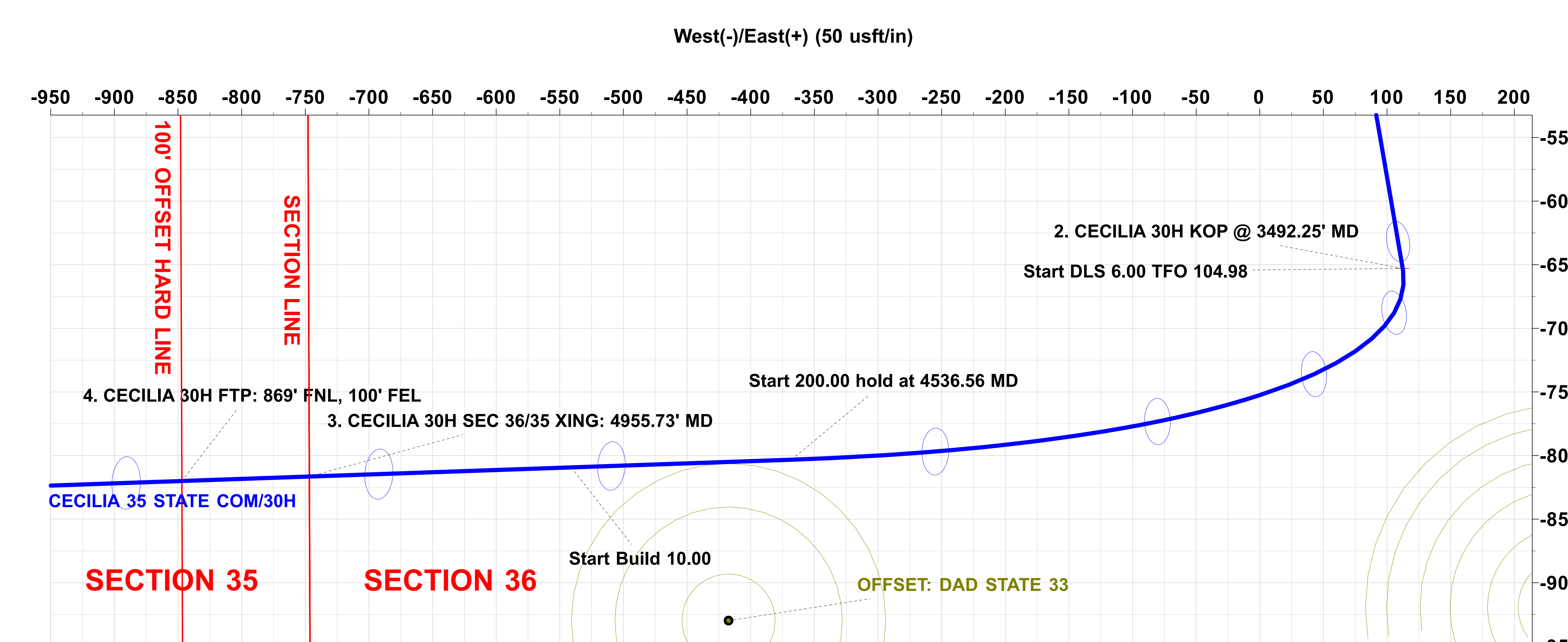
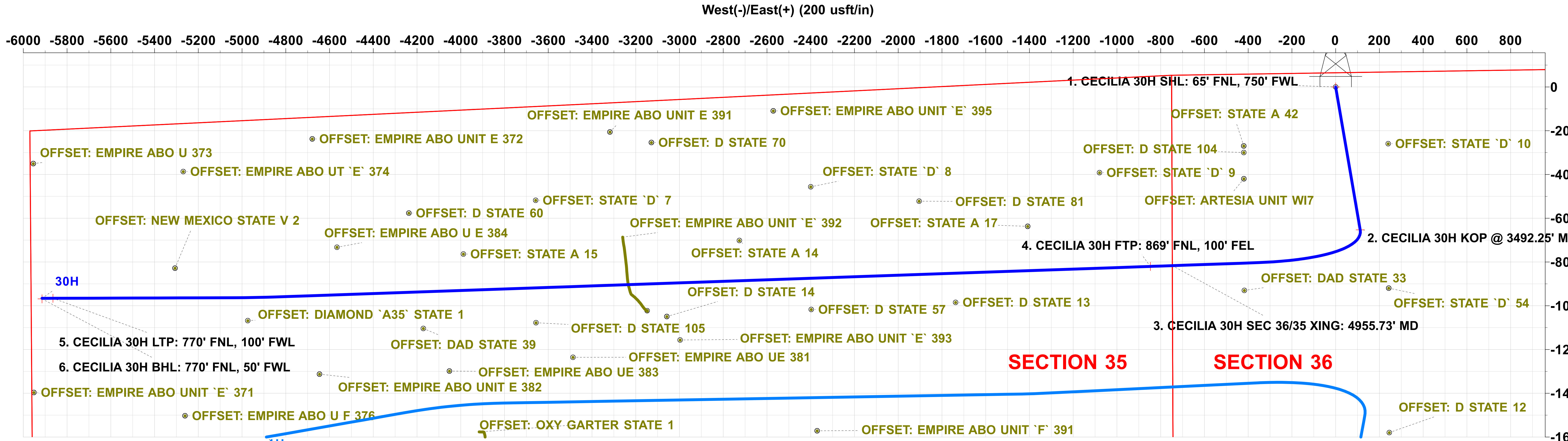
Rig Name:	AKITA 57	RKB = 20' @ 3695.00usft (AKITA 57)			
Ground Elevation:	3675.00				
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	654498.90	601947.20	32.79909	-104.13608

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	970.01	13.40	170.24	963.92	-76.87	13.22	2.00	-9.47
4	3492.25	13.40	170.24	3417.49	-652.94	112.32	0.00	-80.40
5	4536.56	60.00	268.00	4273.58	-803.27	-367.94	6.00	406.60
6	4736.56	60.00	268.00	4373.58	-809.31	-541.04	0.00	579.79
7	5056.33	91.98	268.00	4450.00	-820.00	-847.10	10.00	886.01
8	9061.33	91.98	268.00	4311.83	-959.69	-4847.28	0.00	4888.25
9	9243.03	91.98	269.82	4305.56	-963.15	-5028.83	1.00	5069.75
10	10079.10	91.98	269.82	4276.73	-965.80	-5864.40	0.00	5904.46
11	10129.24	91.98	269.82	4275.00	-965.96	-5914.51	0.00	5954.52

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
1. CECILIA 30H SHL: 65' FNL, 750' FWL	0.00	0.00	0.00	654498.90	601947.20	32.79909	-104.13608
2. CECILIA 30H KOP @ 3492.25' MD	3417.49	-652.94	112.32	653845.96	602059.52	32.79730	-104.13572
3. CECILIA 30H SEC 36/35 XING: 4955.73' MD	4444.65	-816.50	-746.83	653682.40	601200.37	32.79685	-104.13852
4. CECILIA 30H FTP: 869' FNL, 100' FEL	4450.00	-820.00	-847.10	653678.90	601100.10	32.79684	-104.13884
5. CECILIA 30H LTP: 770' FNL, 100' FWL	4276.73	-965.80	-5864.40	653533.10	596082.80	32.79647	-104.15517
6. CECILIA 30H BHL: 770' FNL, 50' FWL	4275.00	-968.20	-5914.40	653530.70	596032.80	32.79646	-104.15533



Vertical Section at 267.21° (200 usft/in)

Plan: PERMIT (30H/OH)

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# **SPUR ENERGY PARTNERS, LLC**

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

**CECILIA 35 STATE COM**

**30H**

**OH**

**Plan: PERMIT**

## **Standard Planning Report**

**06 January, 2026**



**PROTOTYPE  
WELL PLANNING**

WELL PLANNED. WELL EXECUTED.



**PROTOTYPE**  
Planning Report



<b>Database:</b>	EDM 5000.17 Single User Db	<b>Local Co-ordinate Reference:</b>	Well 30H
<b>Company:</b>	SPUR ENERGY PARTNERS, LLC	<b>TVD Reference:</b>	RKB = 20' @ 3695.00usft (AKITA 57)
<b>Project:</b>	EDDY COUNTY, NM (NAD 83 - NME)	<b>MD Reference:</b>	RKB = 20' @ 3695.00usft (AKITA 57)
<b>Site:</b>	CECILIA 35 STATE COM	<b>North Reference:</b>	Grid
<b>Well:</b>	30H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PERMIT		

<b>Project</b>	EDDY COUNTY, NM (NAD 83 - NME)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	New Mexico Eastern Zone		

<b>Well</b>	30H					
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	654,498.90 usft	<b>Latitude:</b>	32.79909
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	601,947.20 usft	<b>Longitude:</b>	-104.13608
<b>Position Uncertainty</b>		0.00 usft	<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b>	3,675.00 usft
<b>Grid Convergence:</b>		0.11 °				

<b>Design</b>	PERMIT			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	267.21

<b>Plan Survey Tool Program</b>	<b>Date</b>	1/6/2026		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	10,129.24 PERMIT (OH)	MWD+IFR1+MS	OWSG MWD + IFR1 + Mult

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
970.01	13.40	170.24	963.92	-76.87	13.22	2.00	2.00	0.00	170.24	
3,492.25	13.40	170.24	3,417.49	-652.94	112.32	0.00	0.00	0.00	0.00	
4,536.56	60.00	268.00	4,273.58	-803.27	-367.94	6.00	4.46	9.36	104.98	
4,736.56	60.00	268.00	4,373.58	-809.31	-541.04	0.00	0.00	0.00	0.00	
5,056.33	91.98	268.00	4,450.00	-820.00	-847.10	10.00	10.00	0.00	0.00	4. CECILIA 30H FT
9,061.33	91.98	268.00	4,311.83	-959.69	-4,847.28	0.00	0.00	0.00	0.00	
9,243.03	91.98	269.82	4,305.56	-963.15	-5,028.83	1.00	0.00	1.00	90.00	
10,079.10	91.98	269.82	4,276.73	-965.80	-5,864.40	0.00	0.00	0.00	0.00	5. CECILIA 30H LTI
10,129.24	91.98	269.82	4,275.00	-965.96	-5,914.51	0.00	0.00	0.00	0.00	6. CECILIA 30H BH



**PROTOTYPE**  
Planning Report



<b>Database:</b>	EDM 5000.17 Single User Db	<b>Local Co-ordinate Reference:</b>	Well 30H
<b>Company:</b>	SPUR ENERGY PARTNERS, LLC	<b>TVD Reference:</b>	RKB = 20' @ 3695.00usft (AKITA 57)
<b>Project:</b>	EDDY COUNTY, NM (NAD 83 - NME)	<b>MD Reference:</b>	RKB = 20' @ 3695.00usft (AKITA 57)
<b>Site:</b>	CECILIA 35 STATE COM	<b>North Reference:</b>	Grid
<b>Well:</b>	30H	<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>1. CECILIA 30H SHL: 65' FNL, 750' FWL</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	170.24	399.98	-1.72	0.30	-0.21	2.00	2.00	0.00
500.00	4.00	170.24	499.84	-6.88	1.18	-0.85	2.00	2.00	0.00
600.00	6.00	170.24	599.45	-15.47	2.66	-1.90	2.00	2.00	0.00
700.00	8.00	170.24	698.70	-27.48	4.73	-3.38	2.00	2.00	0.00
800.00	10.00	170.24	797.47	-42.89	7.38	-5.28	2.00	2.00	0.00
900.00	12.00	170.24	895.62	-61.70	10.61	-7.60	2.00	2.00	0.00
970.01	13.40	170.24	963.92	-76.87	13.22	-9.47	2.00	2.00	0.00
1,000.00	13.40	170.24	993.09	-83.71	14.40	-10.31	0.00	0.00	0.00
1,100.00	13.40	170.24	1,090.37	-106.55	18.33	-13.12	0.00	0.00	0.00
1,200.00	13.40	170.24	1,187.65	-129.39	22.26	-15.93	0.00	0.00	0.00
1,300.00	13.40	170.24	1,284.92	-152.23	26.19	-18.75	0.00	0.00	0.00
1,400.00	13.40	170.24	1,382.20	-175.07	30.12	-21.56	0.00	0.00	0.00
1,500.00	13.40	170.24	1,479.48	-197.91	34.04	-24.37	0.00	0.00	0.00
1,600.00	13.40	170.24	1,576.76	-220.75	37.97	-27.18	0.00	0.00	0.00
1,700.00	13.40	170.24	1,674.03	-243.59	41.90	-30.00	0.00	0.00	0.00
1,800.00	13.40	170.24	1,771.31	-266.43	45.83	-32.81	0.00	0.00	0.00
1,900.00	13.40	170.24	1,868.59	-289.27	49.76	-35.62	0.00	0.00	0.00
2,000.00	13.40	170.24	1,965.87	-312.11	53.69	-38.43	0.00	0.00	0.00
2,100.00	13.40	170.24	2,063.14	-334.95	57.62	-41.25	0.00	0.00	0.00
2,200.00	13.40	170.24	2,160.42	-357.79	61.55	-44.06	0.00	0.00	0.00
2,300.00	13.40	170.24	2,257.70	-380.63	65.48	-46.87	0.00	0.00	0.00
2,400.00	13.40	170.24	2,354.98	-403.47	69.40	-49.68	0.00	0.00	0.00
2,500.00	13.40	170.24	2,452.25	-426.31	73.33	-52.50	0.00	0.00	0.00
2,600.00	13.40	170.24	2,549.53	-449.15	77.26	-55.31	0.00	0.00	0.00
2,700.00	13.40	170.24	2,646.81	-471.99	81.19	-58.12	0.00	0.00	0.00
2,800.00	13.40	170.24	2,744.09	-494.83	85.12	-60.93	0.00	0.00	0.00
2,900.00	13.40	170.24	2,841.36	-517.67	89.05	-63.75	0.00	0.00	0.00
3,000.00	13.40	170.24	2,938.64	-540.51	92.98	-66.56	0.00	0.00	0.00
3,100.00	13.40	170.24	3,035.92	-563.35	96.91	-69.37	0.00	0.00	0.00
3,200.00	13.40	170.24	3,133.20	-586.19	100.84	-72.18	0.00	0.00	0.00
3,300.00	13.40	170.24	3,230.47	-609.03	104.76	-75.00	0.00	0.00	0.00
3,400.00	13.40	170.24	3,327.75	-631.87	108.69	-77.81	0.00	0.00	0.00
3,492.25	13.40	170.24	3,417.49	-652.94	112.32	-80.40	0.00	0.00	0.00
<b>2. CECILIA 30H KOP @ 3492.25' MD</b>									
3,500.00	13.29	172.20	3,425.03	-654.70	112.59	-80.59	6.00	-1.45	25.22
3,550.00	12.94	185.36	3,473.74	-665.97	112.85	-80.30	6.00	-0.70	26.32
3,600.00	13.26	198.55	3,522.45	-676.98	110.50	-77.42	6.00	0.65	26.38
3,650.00	14.21	210.55	3,571.03	-687.71	105.56	-71.96	6.00	1.91	24.01
3,700.00	15.68	220.72	3,619.34	-698.12	98.02	-63.93	6.00	2.94	20.33
3,750.00	17.54	228.99	3,667.26	-708.19	87.93	-53.35	6.00	3.71	16.54
3,800.00	19.67	235.63	3,714.65	-717.88	75.30	-40.27	6.00	4.26	13.27
3,850.00	21.99	240.96	3,761.38	-727.18	60.17	-24.70	6.00	4.65	10.67
3,900.00	24.46	245.29	3,807.33	-736.05	42.57	-6.69	6.00	4.93	8.67
3,950.00	27.03	248.86	3,852.37	-744.48	22.57	13.70	6.00	5.14	7.14
4,000.00	29.68	251.85	3,896.37	-752.43	0.20	36.42	6.00	5.29	5.97
4,050.00	32.38	254.38	3,939.21	-759.90	-24.46	61.42	6.00	5.40	5.07
4,100.00	35.12	256.56	3,980.78	-766.85	-51.34	88.61	6.00	5.49	4.36
4,150.00	37.90	258.46	4,020.97	-773.26	-80.39	117.93	6.00	5.56	3.80
4,200.00	40.71	260.14	4,059.65	-779.13	-111.51	149.30	6.00	5.61	3.35



**PROTOTYPE**  
Planning Report



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<b>Site:</b>	CECILIA 35 STATE COM	<b>North Reference:</b>	Grid
<b>Well:</b>	30H	<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	43.54	261.63	4,096.74	-784.43	-144.61	182.62	6.00	5.66	2.99
4,300.00	46.38	262.98	4,132.12	-789.15	-179.62	217.82	6.00	5.69	2.69
4,350.00	49.24	264.20	4,165.69	-793.28	-216.43	254.79	6.00	5.72	2.45
4,400.00	52.11	265.32	4,197.38	-796.80	-254.94	293.43	6.00	5.74	2.25
4,450.00	54.99	266.36	4,227.08	-799.71	-295.05	333.63	6.00	5.76	2.08
4,500.00	57.88	267.33	4,254.72	-801.99	-336.65	375.29	6.00	5.78	1.94
4,536.56	60.00	268.00	4,273.58	-803.27	-367.94	406.60	6.00	5.79	1.83
4,600.00	60.00	268.00	4,305.30	-805.18	-422.85	461.54	0.00	0.00	0.00
4,700.00	60.00	268.00	4,355.30	-808.21	-509.40	548.13	0.00	0.00	0.00
4,736.56	60.00	268.00	4,373.58	-809.31	-541.04	579.79	0.00	0.00	0.00
4,750.00	61.34	268.00	4,380.16	-809.72	-552.75	591.51	10.00	10.00	0.00
4,800.00	66.34	268.00	4,402.20	-811.29	-597.59	636.37	10.00	10.00	0.00
4,850.00	71.34	268.00	4,420.24	-812.91	-644.18	682.98	10.00	10.00	0.00
4,900.00	76.34	268.00	4,434.14	-814.59	-692.16	730.99	10.00	10.00	0.00
4,950.00	81.34	268.00	4,443.81	-816.30	-741.17	780.02	10.00	10.00	0.00
4,955.73	81.92	268.00	4,444.65	-816.50	-746.83	785.69	10.00	10.00	0.00
<b>3. CECILIA 30H SEC 36/35 XING: 4955.73' MD</b>									
5,000.00	86.34	268.00	4,449.18	-818.04	-790.83	829.71	10.00	10.00	0.00
5,050.00	91.34	268.00	4,450.18	-819.78	-840.77	879.68	10.00	10.00	0.00
5,056.33	91.98	268.00	4,450.00	-820.00	-847.10	886.01	10.00	10.00	0.00
<b>4. CECILIA 30H FTP: 869' FNL, 100' FEL</b>									
5,100.00	91.98	268.00	4,448.49	-821.52	-890.72	929.65	0.00	0.00	0.00
5,200.00	91.98	268.00	4,445.04	-825.01	-990.60	1,029.58	0.00	0.00	0.00
5,300.00	91.98	268.00	4,441.59	-828.50	-1,090.47	1,129.51	0.00	0.00	0.00
5,400.00	91.98	268.00	4,438.14	-831.99	-1,190.35	1,229.44	0.00	0.00	0.00
5,500.00	91.98	268.00	4,434.69	-835.47	-1,290.23	1,329.37	0.00	0.00	0.00
5,600.00	91.98	268.00	4,431.24	-838.96	-1,390.11	1,429.30	0.00	0.00	0.00
5,700.00	91.98	268.00	4,427.79	-842.45	-1,489.99	1,529.23	0.00	0.00	0.00
5,800.00	91.98	268.00	4,424.34	-845.94	-1,589.87	1,629.16	0.00	0.00	0.00
5,900.00	91.98	268.00	4,420.89	-849.43	-1,689.75	1,729.10	0.00	0.00	0.00
6,000.00	91.98	268.00	4,417.44	-852.91	-1,789.63	1,829.03	0.00	0.00	0.00
6,100.00	91.98	268.00	4,413.99	-856.40	-1,889.51	1,928.96	0.00	0.00	0.00
6,200.00	91.98	268.00	4,410.54	-859.89	-1,989.39	2,028.89	0.00	0.00	0.00
6,300.00	91.98	268.00	4,407.09	-863.38	-2,089.27	2,128.82	0.00	0.00	0.00
6,400.00	91.98	268.00	4,403.64	-866.87	-2,189.15	2,228.75	0.00	0.00	0.00
6,500.00	91.98	268.00	4,400.19	-870.35	-2,289.03	2,328.68	0.00	0.00	0.00
6,600.00	91.98	268.00	4,396.74	-873.84	-2,388.91	2,428.61	0.00	0.00	0.00
6,700.00	91.98	268.00	4,393.29	-877.33	-2,488.79	2,528.54	0.00	0.00	0.00
6,800.00	91.98	268.00	4,389.84	-880.82	-2,588.67	2,628.47	0.00	0.00	0.00
6,900.00	91.98	268.00	4,386.39	-884.30	-2,688.55	2,728.41	0.00	0.00	0.00
7,000.00	91.98	268.00	4,382.94	-887.79	-2,788.43	2,828.34	0.00	0.00	0.00
7,100.00	91.98	268.00	4,379.49	-891.28	-2,888.31	2,928.27	0.00	0.00	0.00
7,200.00	91.98	268.00	4,376.04	-894.77	-2,988.19	3,028.20	0.00	0.00	0.00
7,300.00	91.98	268.00	4,372.59	-898.26	-3,088.07	3,128.13	0.00	0.00	0.00
7,400.00	91.98	268.00	4,369.14	-901.74	-3,187.95	3,228.06	0.00	0.00	0.00
7,500.00	91.98	268.00	4,365.69	-905.23	-3,287.83	3,327.99	0.00	0.00	0.00
7,600.00	91.98	268.00	4,362.24	-908.72	-3,387.71	3,427.92	0.00	0.00	0.00
7,700.00	91.98	268.00	4,358.79	-912.21	-3,487.59	3,527.85	0.00	0.00	0.00
7,800.00	91.98	268.00	4,355.34	-915.70	-3,587.46	3,627.78	0.00	0.00	0.00
7,900.00	91.98	268.00	4,351.89	-919.18	-3,687.34	3,727.72	0.00	0.00	0.00
8,000.00	91.98	268.00	4,348.44	-922.67	-3,787.22	3,827.65	0.00	0.00	0.00
8,100.00	91.98	268.00	4,344.99	-926.16	-3,887.10	3,927.58	0.00	0.00	0.00
8,200.00	91.98	268.00	4,341.54	-929.65	-3,986.98	4,027.51	0.00	0.00	0.00
8,300.00	91.98	268.00	4,338.09	-933.14	-4,086.86	4,127.44	0.00	0.00	0.00



**PROTOTYPE**  
Planning Report



<b>Database:</b>	EDM 5000.17 Single User Db	<b>Local Co-ordinate Reference:</b>	Well 30H
<b>Company:</b>	SPUR ENERGY PARTNERS, LLC	<b>TVD Reference:</b>	RKB = 20' @ 3695.00usft (AKITA 57)
<b>Project:</b>	EDDY COUNTY, NM (NAD 83 - NME)	<b>MD Reference:</b>	RKB = 20' @ 3695.00usft (AKITA 57)
<b>Site:</b>	CECILIA 35 STATE COM	<b>North Reference:</b>	Grid
<b>Well:</b>	30H	<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)
8,400.00	91.98	268.00	4,334.64	-936.62	-4,186.74	4,227.37	0.00	0.00	0.00
8,500.00	91.98	268.00	4,331.19	-940.11	-4,286.62	4,327.30	0.00	0.00	0.00
8,600.00	91.98	268.00	4,327.74	-943.60	-4,386.50	4,427.23	0.00	0.00	0.00
8,700.00	91.98	268.00	4,324.29	-947.09	-4,486.38	4,527.16	0.00	0.00	0.00
8,800.00	91.98	268.00	4,320.84	-950.57	-4,586.26	4,627.09	0.00	0.00	0.00
8,900.00	91.98	268.00	4,317.39	-954.06	-4,686.14	4,727.02	0.00	0.00	0.00
9,000.00	91.98	268.00	4,313.94	-957.55	-4,786.02	4,826.96	0.00	0.00	0.00
9,061.33	91.98	268.00	4,311.83	-959.69	-4,847.28	4,888.25	0.00	0.00	0.00
9,100.00	91.98	268.39	4,310.49	-960.91	-4,885.90	4,926.88	1.00	0.00	1.00
9,200.00	91.98	269.39	4,307.04	-962.85	-4,985.82	5,026.78	1.00	0.00	1.00
9,243.03	91.98	269.82	4,305.56	-963.15	-5,028.83	5,069.75	1.00	0.00	1.00
9,300.00	91.98	269.82	4,303.60	-963.33	-5,085.76	5,126.63	0.00	0.00	0.00
9,400.00	91.98	269.82	4,300.15	-963.64	-5,185.70	5,226.46	0.00	0.00	0.00
9,500.00	91.98	269.82	4,296.70	-963.96	-5,285.64	5,326.30	0.00	0.00	0.00
9,600.00	91.98	269.82	4,293.25	-964.28	-5,385.58	5,426.14	0.00	0.00	0.00
9,700.00	91.98	269.82	4,289.80	-964.60	-5,485.52	5,525.97	0.00	0.00	0.00
9,800.00	91.98	269.82	4,286.35	-964.91	-5,585.46	5,625.81	0.00	0.00	0.00
9,900.00	91.98	269.82	4,282.91	-965.23	-5,685.40	5,725.65	0.00	0.00	0.00
10,000.00	91.98	269.82	4,279.46	-965.55	-5,785.34	5,825.48	0.00	0.00	0.00
10,079.10	91.98	269.82	4,276.73	-965.80	-5,864.40	5,904.46	0.00	0.00	0.00
<b>5. CECILIA 30H LTP: 770' FNL, 100' FWL</b>									
10,100.00	91.98	269.82	4,276.01	-965.87	-5,885.28	5,925.32	0.00	0.00	0.00
10,129.14	91.98	269.82	4,275.00	-965.96	-5,914.41	5,954.42	0.00	0.00	0.00
<b>6. CECILIA 30H BHL: 770' FNL, 50' FWL</b>									
10,129.24	91.98	269.82	4,275.00	-965.96	-5,914.51	5,954.52	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
1. CECILIA 30H SHL: - hit/miss target center - Shape - Point	0.00	0.00	0.00	0.00	0.00	654,498.90	601,947.20	32.79909	-104.13608
2. CECILIA 30H KOP - plan hits target center - Point	0.00	0.00	3,417.49	-652.94	112.32	653,845.97	602,059.52	32.79730	-104.13572
6. CECILIA 30H BHL: - plan misses target center by 2.24usft at 10129.14usft MD (4275.00 TVD, -965.96 N, -5914.41 E) - Point	0.00	0.00	4,275.00	-968.20	-5,914.40	653,530.70	596,032.80	32.79646	-104.15534
5. CECILIA 30H LTP: - plan hits target center - Point	0.00	0.00	4,276.73	-965.80	-5,864.40	653,533.10	596,082.80	32.79647	-104.15517
3. CECILIA 30H SEC - plan hits target center - Point	0.00	0.00	4,444.65	-816.50	-746.83	653,682.41	601,200.37	32.79685	-104.13852
4. CECILIA 30H FTP: - plan hits target center - Point	0.00	0.00	4,450.00	-820.00	-847.10	653,678.90	601,100.10	32.79684	-104.13885



# PROTOTYPE Planning Report



<b>Database:</b>	EDM 5000.17 Single User Db	<b>Local Co-ordinate Reference:</b>	Well 30H
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<b>Project:</b>	EDDY COUNTY, NM (NAD 83 - NME)	<b>MD Reference:</b>	RKB = 20' @ 3695.00usft (AKITA 57)
<b>Site:</b>	CECILIA 35 STATE COM	<b>North Reference:</b>	Grid
<b>Well:</b>	30H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PERMIT		

**Spur Energy Partners LLC – Cecilia 35 State Com 30H**

**1. Geologic Formations**

TVD of Target	4,275'
MD at TD	10,129'

Formation	Depth	Lithology	Expected Fluids
Quaternary	0'	Dolomite, other: Caliche	Useable Water
Yates	775'	Dolomite, Limestone, Shale, Siltstone	None
Seven Rivers	1070'	Dolomite, Limestone	None
Queen	1700'	Anhydrite, Dolomite, Sandstone	None
Grayburg	2165'	Dolomite, Sandstone, Anhydrite	Natural Gas, Oil
San Andres	2485'	Dolomite, Limestone	Natural Gas, Oil
Glorieta	4000'	Dolomite, Siltstone	Natural Gas, Oil
Paddock	4115'	Dolomite, Limestone	Natural Gas, Oil
Blinebry	4715'	Dolomite, Limestone	Natural Gas, Oil

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

**2. Casing Program**

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

Casing Formation Set Interval	Hole Size (in)	Casing Interval		Csg. Size (in)	Weight (lbs)	Grade	Conn.	SF	SF Burst	Body SF	Joint SF
		From (ft)	To (ft)					Collapse		Tension	Tension
Seven Rivers	12.25	0	1275	9.625	36	J-55	BTC	1.125	1.2	1.4	1.4
N/A	8.75	0	4800	7	32	L-80	GBCD	1.125	1.2	1.4	1.4
Yeso	8.75	4800	10129	5.5	20	L-80	GBCD	1.125	1.2	1.4	1.4
SF Values will meet or Exceed											

**Spur Energy Partners LLC – Cecilia 35 State Com 30H**

	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?	N/A
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	50%
Surface (Tail)	950	1275	100%
Production (Lead)	0	3800	100%
Production (Tail)	3800	10129	25%

Casing String	# Sks	Wt. (lb/gal)	Yld (ft3/sack)	H2O (gal/sk)	500# Comp. Strength (hours)	Slurry Description
Surface (Lead)	204	12	2.4	13.48	8:12	Clas C Premium Plus Cement
Surface (Tail)	119	13.2	1.87	9.92	6:59	Clas C Premium Plus Cement
Production (Lead)	402	11.4	2.42	15.29	N/A	Clas C Premium Plus Cement
Production (Tail)	1203	13.2	1.56	9.81	N/A	Clas C Premium Plus Cement

**Spur Energy Partners LLC – Cecilia 35 State Com 30H**

**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
			Blind Ram	✓	250 psi / 3000 psi
		Pipe Ram	✓		
		Double Ram			
		Other*			
8.75" Hole	13-5/8"	5M	Annular	✓	70% of working pressure
			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	2060 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	116°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.

<p>Formation integrity test will be performed per Onshore Order #2.                  On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.</p>
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**Spur Energy Partners LLC – Cecilia 35 State Com 30H**

Y	Are anchors required by manufacturer?
A conventional wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. See attached schematics.	

**5. BOP Break Testing Request**

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

BOP break test under the following conditions:

- After a full BOP test is conducted
- When skidding to drill the production section, where the surface casing point is shallower than the 3 Bone Spring or 10,000 TVD.
- When skidding to drill a production section that does not penetrate the 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	1275	Water-Based Mud	8.6-8.9	32-36	N/C
1275	10129	Water-Based Mud	8.6-8.9	32-36	N/C

What will be used to monitor the loss or gain of fluid?	PVT/PASON/Visual Monitoring
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**Spur Energy Partners LLC – Cecilia 35 State Com 30H**

**7. Logging and Testing Procedures**

<b>Logging, Coring and Testing.</b>		
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	
<b>Additional logs planned</b>		<b>Interval</b>
No	Resistivity	
No	Density	
No	CBL	
Yes	Mud log	SCP - TD
No	PEX	

**8. Drilling Conditions**

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

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S Plan attached

**Total estimated cuttings volume:** 939.2 bbls.

**Spur Energy Partners LLC – Cecilia 35 State Com 30H**

**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