

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 408248

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 338808 | | | | | | 3. API Number 30-015-57771 |
| 5. Property Name CACTUS SOUR STATE COM | | | | | | 6. Well No. 110H |

7. Surface Location

| | | | | | | | | | |
|---------------|---------------|-----------------|--------------|--------------|-------------------|---------------|------------------|---------------|----------------|
| UL - Lot M | Section 31 | Township 17S | Range 28E | Lot Idn 4 | Feet From 1300 | N/S Line S | Feet From 680 | E/W Line W | County Eddy |
|---------------|---------------|-----------------|--------------|--------------|-------------------|---------------|------------------|---------------|----------------|

8. Proposed Bottom Hole Location

| | | | | | | | | | |
|---------------|---------------|-----------------|--------------|--------------|-------------------|---------------|-----------------|---------------|----------------|
| UL - Lot L | Section 36 | Township 17S | Range 27E | Lot Idn L | Feet From 1750 | N/S Line S | Feet From 50 | E/W Line W | County Eddy |
|---------------|---------------|-----------------|--------------|--------------|-------------------|---------------|-----------------|---------------|----------------|

9. Pool Information

| | |
|----------------------------|-------|
| RED LAKE;QUEEN-GRAYBURG-SA | 51300 |
|----------------------------|-------|

Additional Well Information

| | | | | |
|---------------------------|----------------------------|--|-------------------------|------------------------------------|
| 11. Work Type New Well | 12. Well Type OIL | 13. Cable/Rotary | 14. Lease Type State | 15. Ground Level Elevation 3674 |
| 16. Multiple N | 17. Proposed Depth 8257 | 18. Formation San Andres | 19. Contractor | 20. Spud Date 4/16/2026 |
| Depth to Ground water | | Distance from nearest fresh water well | | |

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 | 1050 | 303 | 0 |
| Prod | 8.75 | 7 | 32 | 2850 | 1391 | 0 |
| Prod | 8.75 | 5.5 | 20 | 8257 | 1391 | 0 |

Casing/Cement Program: Additional Comments

| Casing/Cement Program: Additional Comments | | | |
|--|--|--|--|
| | | | |

22. Proposed Blowout Prevention Program

| Type | Working Pressure | Test Pressure | Manufacturer |
|------------|------------------|---------------|--------------|
| Double Ram | 5 | 5000 | SHAFFER |

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

I 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 and/or 19.15.14.9 (B) NMAC , if applicable.

Signature:

| | | |
|---|---------------------------------|---------------------------------|
| 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: 2/4/2026 | Expiration Date: 2/4/2028 |
| Date: 2/3/2026 | Phone: 832-930-8613 | Conditions of Approval Attached |

OIL CONSERVATION DIVISION

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

WELL LOCATION INFORMATION

| | | | |
|--|---|--|--|
| API Number 30-015-57771 | Pool Code 51300 | Pool Name RED LAKE; QUEEN-GRAYBURG-SAN ANDRES | |
| Property Code 338808 | Property Name CACTUS SOUR STATE COM | | Well Number 110H |
| OGRID No. 328947 | Operator Name SPUR ENERGY PARTNERS LLC. | | Ground Level Elevation 3674' |
| Surface Owner: <input type="checkbox"/> State <input checked="" 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 M | Section 31 | Township 17S | Range 28E | Lot 4 | Ft. from N/S 1300 FSL | Ft. from E/W 680 FWL | Latitude 32.7868683°N | Longitude 104.2213155°W | County EDDY |
|----------------|----------------------|------------------------|---------------------|-----------------|---------------------------------|--------------------------------|---------------------------------|-----------------------------------|-----------------------|

Bottom Hole Location

| | | | | | | | | | |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|-------------------------------|---------------------------------|-----------------------------------|-----------------------|
| UL L | Section 36 | Township 17S | Range 27E | Lot | Ft. from N/S 1750 FSL | Ft. from E/W 50 FWL | Latitude 32.7882337°N | Longitude 104.2406471°W | County EDDY |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|-------------------------------|---------------------------------|-----------------------------------|-----------------------|

| | | | | | |
|----------------------------------|--|---------------------------------|---|--|--|
| Dedicated Acres 160 | Infill or Defining Well DEFINING | Defining Well API N/A | Overlapping Spacing Unit (Y/N) Y | Consolidation Code F & C | |
| Order Numbers. R-23965 | | | Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |

Kick Off Point (KOP)

| | | | | | | | | | |
|----------------|----------------------|------------------------|---------------------|-----------------|---------------------------------|--------------------------------|---------------------------------|-----------------------------------|-----------------------|
| UL L | Section 31 | Township 17S | Range 28E | Lot 3 | Ft. from N/S 1554 FSL | Ft. from E/W 783 FWL | Latitude 32.7875703°N | Longitude 104.2209830°W | County EDDY |
|----------------|----------------------|------------------------|---------------------|-----------------|---------------------------------|--------------------------------|---------------------------------|-----------------------------------|-----------------------|

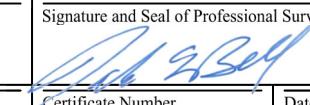
First Take Point (FTP)

| | | | | | | | | | |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|--------------------------------|---------------------------------|-----------------------------------|-----------------------|
| UL I | Section 36 | Township 17S | Range 27E | Lot | Ft. from N/S 1750 FSL | Ft. from E/W 100 FEL | Latitude 32.7880728°N | Longitude 104.2238595°W | County EDDY |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|--------------------------------|---------------------------------|-----------------------------------|-----------------------|

Last Take Point (LTP)

| | | | | | | | | | |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|--------------------------------|---------------------------------|-----------------------------------|-----------------------|
| UL L | Section 36 | Township 17S | Range 27E | Lot | Ft. from N/S 1750 FSL | Ft. from E/W 100 FWL | Latitude 32.7882322°N | Longitude 104.2404844°W | County EDDY |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|--------------------------------|---------------------------------|-----------------------------------|-----------------------|

| | | |
|---|--|--|
| Unitized Area or Area of Uniform Interest Y | Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical | Ground Floor Elevation: 3674' GL |
|---|--|--|

| | | | | | |
|---|--|--|--|-------------------------------------|--|
| OPERATOR CERTIFICATIONS | | | SURVEYOR CERTIFICATIONS | | |
| <p>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.</p> <p>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.</p> <p><i>Sarah Savino</i> 02/03/2026</p> | | | <p>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.</p> <p></p> | | |
| Signature SARAH SAVINO | | | Signature and Seal of Professional Surveyor  | | |
| Printed Name SSAVINO@SPURENERGY.COM | | | Certificate Number 14400 | Date of Survey 09/18/2025 | |
| Email Address | | | | | |

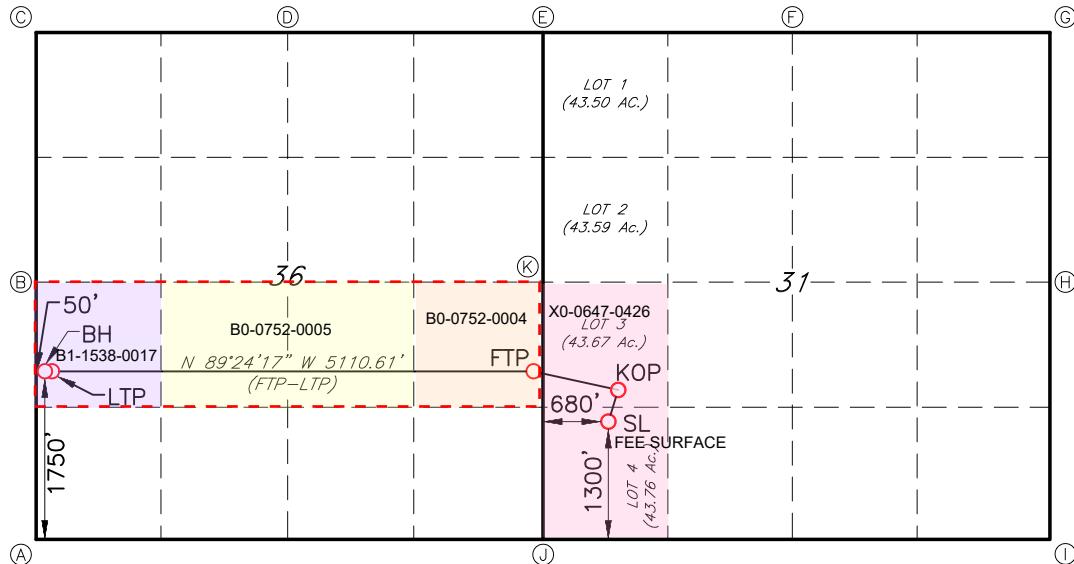
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

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.

CACTUS SOUR STATE COM #110H

GEODETIC DATA
NAD 83 GRID - NM EAST

SURFACE LOCATION (SL)
1300' FSL & 680' FWL SEC.31
N: 650013.2 - E: 575619.9

LAT: 32.7868683° N
LONG: 104.2213155° W

KICK OFF POINT (KOP)
1554' FSL & 783' FWL SEC.31
N: 650268.7 - E: 575863.8

LAT: 32.7875703° N
LONG: 104.2209830° W

FIRST TAKE POINT (FTP)
1750' FSL & 100' FFL SEC.36
N: 650450.6 - E: 574979.6

LAT: 32.7880728° N
LONG: 104.2238595° W

LAST TAKE POINT (LTP)
1750' FSL & 100' FWL SEC.36
N: 650503.7 - E: 569870.6

LAT: 32.7882322° N
LONG: 104.2404844° W

BOTTOM HOLE (BH)
1750' FSL & 50' FWL SEC.36
N: 650504.2 - E: 569820.6

LAT: 32.7882337° N
LONG: 104.2406471° W

CORNER DATA
NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1941"
N: 648755.1 - E: 569774.2

B: FOUND BRASS CAP "1941"
N: 651389.1 - E: 569768.8

C: FOUND BRASS CAP "1941"
N: 654022.0 - E: 569763.3

D: FOUND BRASS CAP "1941"
N: 654002.1 - E: 572411.1

E: FOUND BRASS CAP "1941"
N: 653983.5 - E: 575058.5

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

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

H: FOUND BRASS CAP "1941"
N: 651411.9 - E: 580372.5

I: CALCULATED CORNER
N: 648805.9 - E: 580413.8

J: FOUND BRASS CAP "1941"
N: 648700.0 - E: 575089.7

K: FOUND BRASS CAP "1941"
N: 651341.8 - E: 575074.4



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

Form APD Comments

Permit 408248

PERMIT COMMENTS

| | |
|---|--------------------------------------|
| Operator Name and Address: Spur Energy Partners LLC [328947] 9655 Katy Freeway Houston, TX 77024 | API Number: 30-015-57771 |
| | Well: CACTUS SOUR STATE COM #110H |

| Created By | Comment | Comment Date |
|------------------|-----------------------------|--------------|
| jeffrey.harrison | Submitted as defining well. | 2/4/2026 |

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

Form APD Conditions

Permit 408248

PERMIT CONDITIONS OF APPROVAL

| | |
|---|--------------------------------------|
| Operator Name and Address: Spur Energy Partners LLC [328947] 9655 Katy Freeway Houston, TX 77024 | API Number: 30-015-57771 |
| | Well: CACTUS SOUR STATE COM #110H |

| 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 | Cement is required to circulate on both surface and production strings of casing. |
| jeffrey.harrison | If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing. |
| 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 | 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 | 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. |

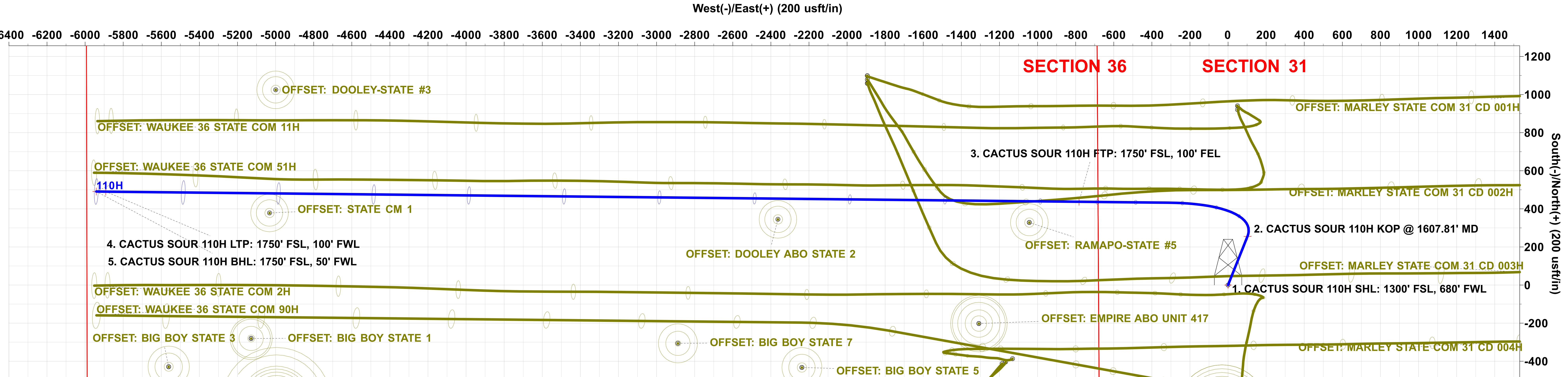


PROJECT DETAILS: EDDY COUNTY, NM (NAD 83 - NME)

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

Project: EDDY COUNTY, NM (NAD 83 - NME)
 Site: CACTUS SOUR STATE COM
 Well: 110H

Wellbore: OH
 Design: PERMIT

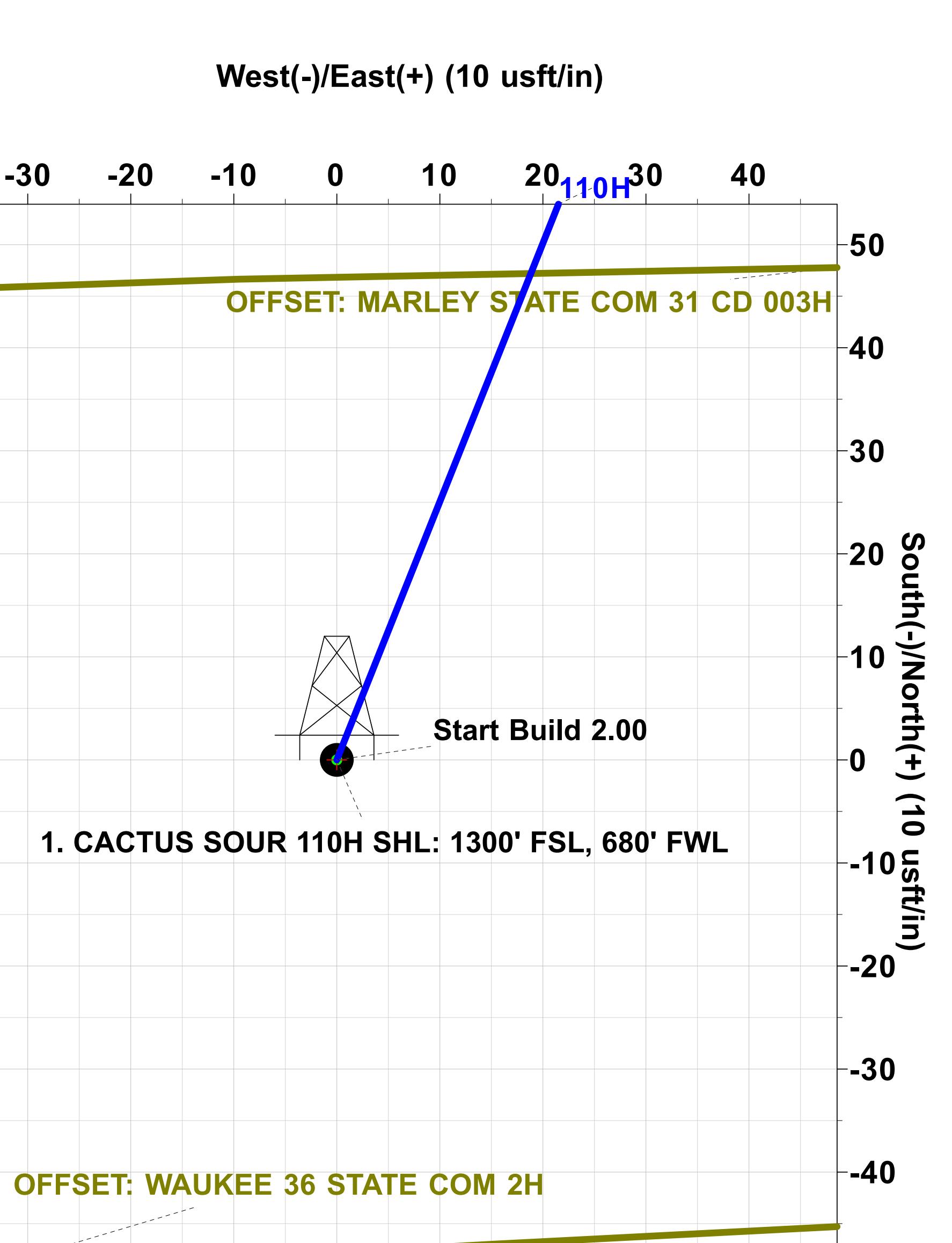
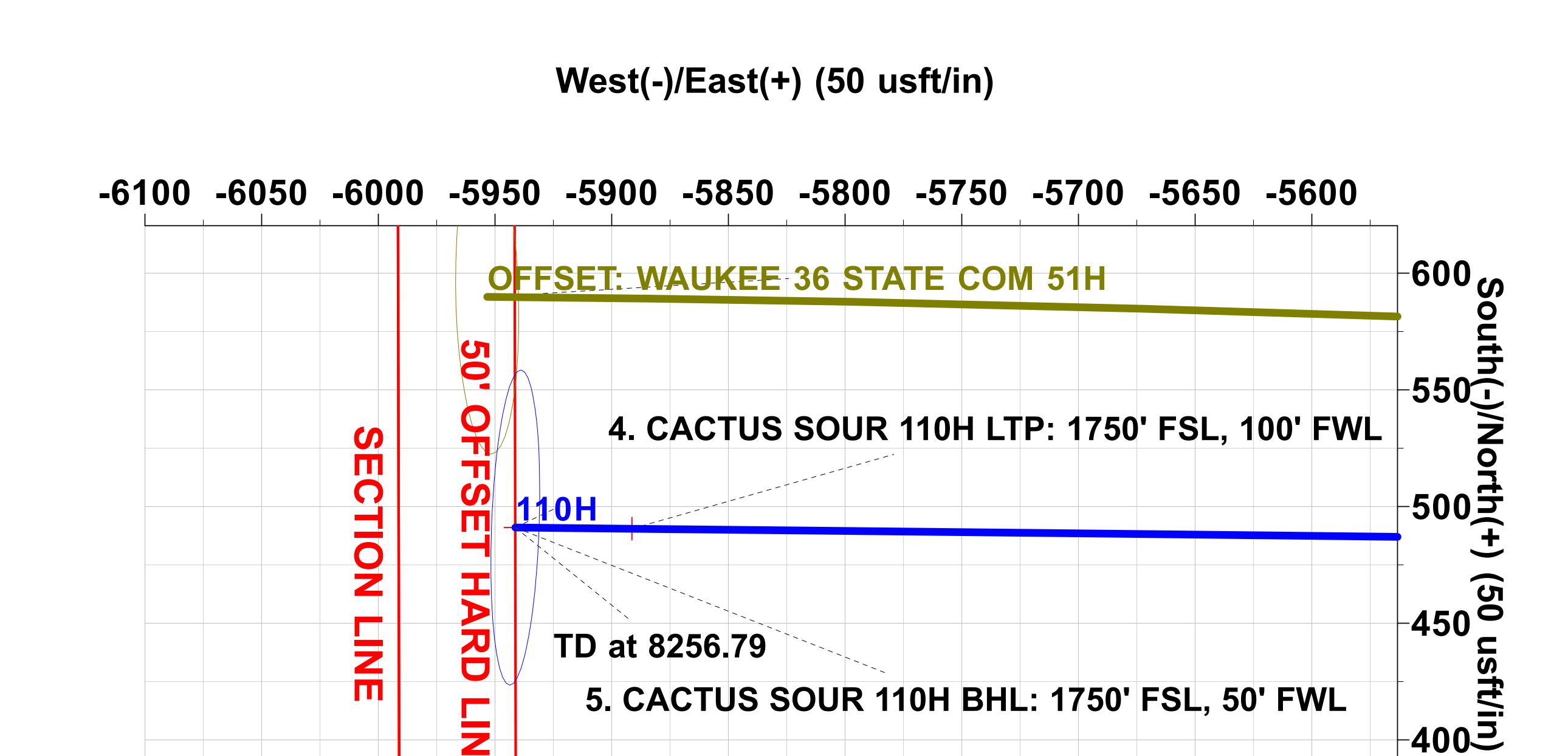
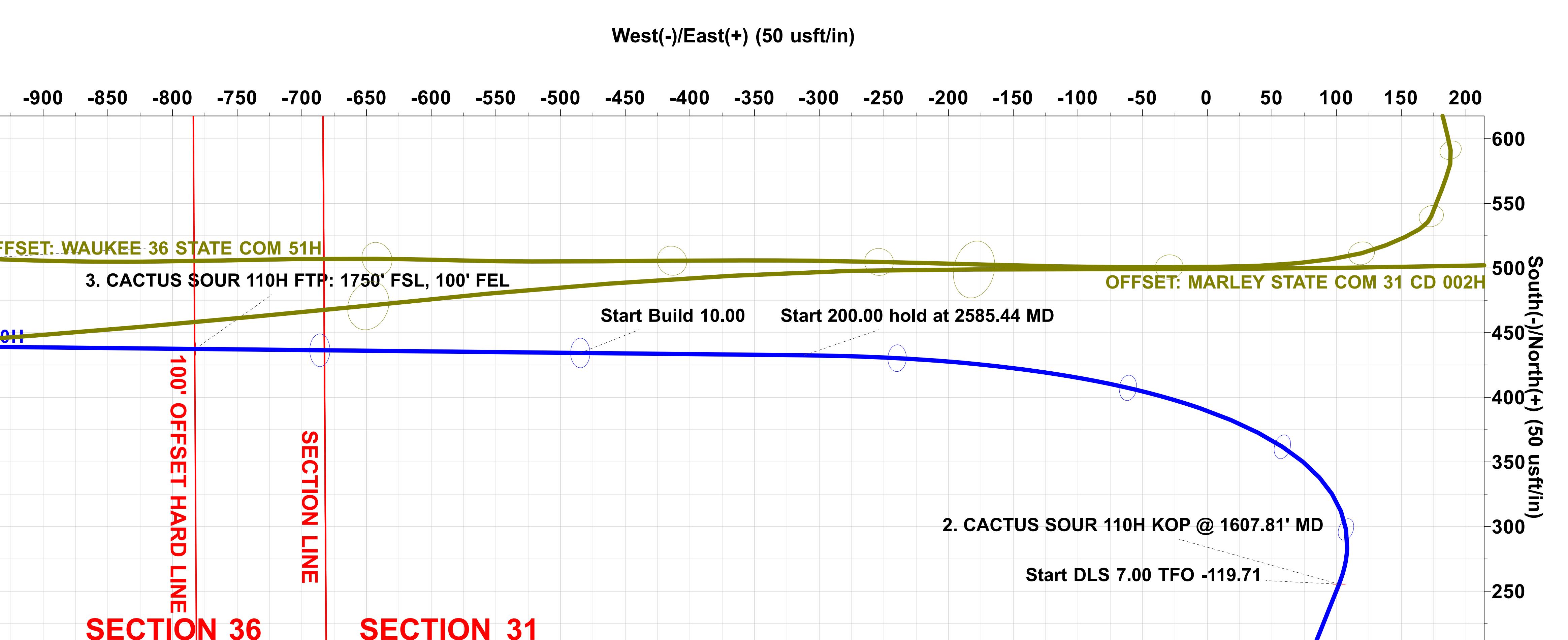
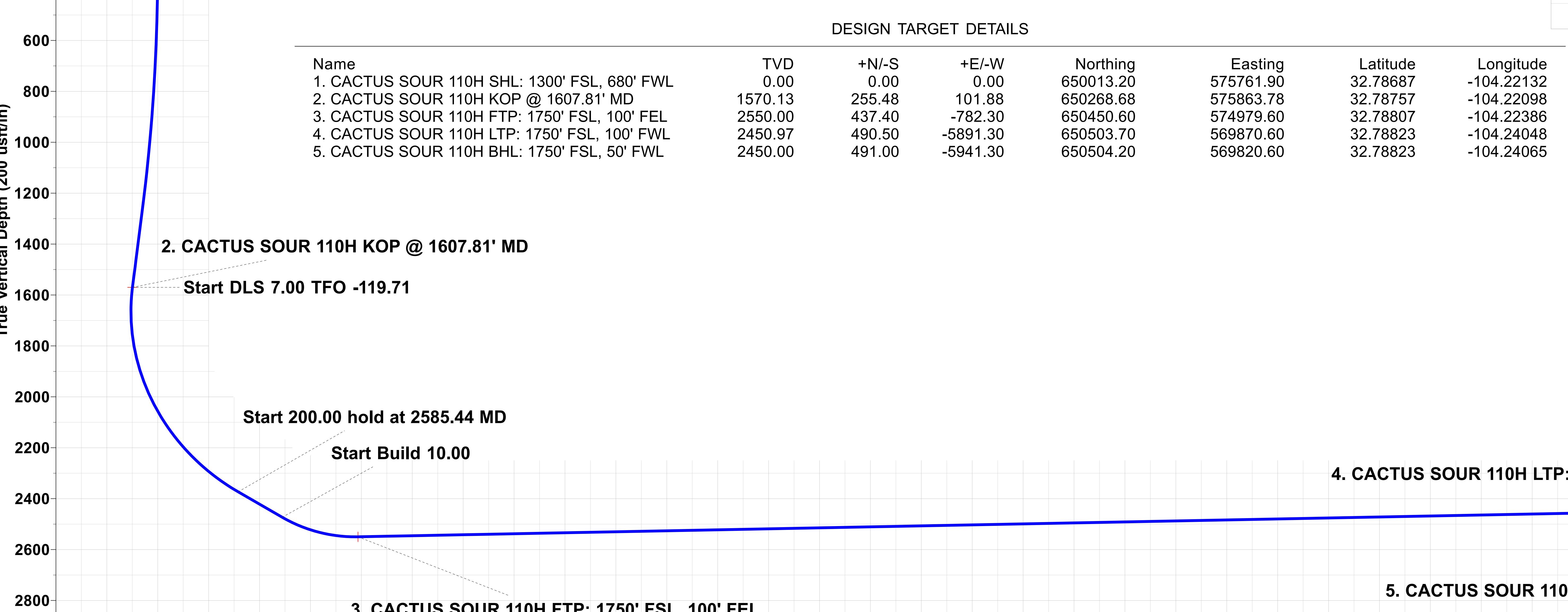


WELL DETAILS: 110H

| | | |
|-------------------|------------|------------------------------------|
| Rig Name: | AKITA 57 | RKB = 20' @ 3694.00usft (AKITA 57) |
| Ground Elevation: | 3674.00 | |
| +N/S | 0.00 | |
| +E/W | 0.00 | |
| Northing | 650013.20 | |
| Easting | 575761.90 | |
| Latitude | 32.78687 | |
| Longitude | -104.22132 | |

| 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 | 1271.67 | 19.43 | 21.74 | 1253.15 | 151.60 | 60.46 | 2.00 | -58.86 |
| 4 | 1607.81 | 19.43 | 21.74 | 1570.13 | 255.48 | 101.88 | 0.00 | -99.20 |
| 5 | 2585.44 | 60.00 | 270.60 | 2373.35 | 432.51 | -311.54 | 7.00 | 316.05 |
| 6 | 2785.44 | 60.00 | 270.60 | 2473.35 | 434.31 | -484.73 | 0.00 | 489.26 |
| 7 | 3096.54 | 91.11 | 270.60 | 2550.00 | 437.40 | -782.30 | 10.00 | 786.84 |
| 8 | 8206.78 | 91.11 | 270.60 | 2450.97 | 490.48 | -5891.30 | 0.00 | 5896.11 |
| 9 | 8256.79 | 91.11 | 270.60 | 2450.00 | 491.00 | -5941.30 | 0.00 | 5946.12 |

Start Build 2.00



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Plan: PERMIT (110H/OH)

Created By: PROTOTYPE WELL PLANNING Date: 14:02, January 28 20



SPUR ENERGY PARTNERS, LLC

**EDDY COUNTY, NM (NAD 83 - NME)
CACTUS SOUR STATE COM
110H**

OH

Plan: PERMIT

Standard Planning Report

28 January, 2026





| | | | |
|--|--|--|--|
| Database: Company: Project: Site: Well: Wellbore: Design: | EDM 5000.17 Single User Db SPUR ENERGY PARTNERS, LLC EDDY COUNTY, NM (NAD 83 - NME) CACTUS SOUR STATE COM 110H OH PERMIT | Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: | Well 110H RKB = 20' @ 3694.00usft (AKITA 57) RKB = 20' @ 3694.00usft (AKITA 57) Grid Minimum Curvature |
|--|--|--|--|

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

| | | | |
|-----------------------------|--------------------------|-------------------------------------|---------------------------------------|
| Well | 110H | | |
| Well Position | +N/S 0.00 usft | Northing: 650,013.20 usft | Latitude: 32.78687 |
| | +E/W 0.00 usft | Easting: 575,761.90 usft | Longitude: -104.22132 |
| Position Uncertainty | 0.00 usft | Wellhead Elevation: usft | Ground Level: 3,674.00 usft |
| Grid Convergence: | 0.06 ° | | |

| | | | | |
|--------------------------|-----------------------------------|-----------------------|-----------------------|-------------------------|
| Design | PERMIT | | | |
| Audit Notes: | | | | |
| Version: | | | | |
| | Phase: PLAN | | | |
| Vertical Section: | Depth From (TVD) (usft) | +N/S (usft) | +E/W (usft) | Direction (°) |
| | 0.00 | 0.00 | 0.00 | 270.60 |

| | | |
|---------------------------------|---------------------------|--|
| Plan Survey Tool Program | Date | 1/28/2026 |
| Depth From (usft) | Depth To (usft) | Survey (Wellbore) |
| 1 0.00 | 8,256.79 | 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 | 0.00 |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,271.67 | 19.43 | 21.74 | 1,253.15 | 151.60 | 60.46 | 2.00 | 2.00 | 0.00 | 21.74 | |
| 1,607.81 | 19.43 | 21.74 | 1,570.13 | 255.48 | 101.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,585.44 | 60.00 | 270.60 | 2,373.35 | 432.51 | -311.54 | 7.00 | 4.15 | -11.37 | -119.71 | |
| 2,785.44 | 60.00 | 270.60 | 2,473.35 | 434.31 | -484.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,096.54 | 91.11 | 270.60 | 2,550.00 | 437.40 | -782.30 | 10.00 | 10.00 | 0.00 | 0.00 | 3. CACTUS SOUR |
| 8,206.78 | 91.11 | 270.60 | 2,450.97 | 490.48 | -5,891.30 | 0.00 | 0.00 | 0.00 | 0.00 | 4. CACTUS SOUR |
| 8,256.79 | 91.11 | 270.60 | 2,450.00 | 491.00 | -5,941.30 | 0.00 | 0.00 | 0.00 | 0.00 | 5. CACTUS SOUR |



PROTOTYPE

Planning Report


PROTOTYPE
WELL PLANNING
 WELL PLANNED. WELL EXECUTED.

| | | | |
|--|--|--|--|
| Database: Company: Project: Site: Well: Wellbore: Design: | EDM 5000.17 Single User Db SPUR ENERGY PARTNERS, LLC EDDY COUNTY, NM (NAD 83 - NME) CACTUS SOUR STATE COM 110H OH PERMIT | Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: | Well 110H RKB = 20' @ 3694.00usft (AKITA 57) RKB = 20' @ 3694.00usft (AKITA 57) Grid Minimum Curvature |
|--|--|--|--|

| 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 | 0.00 |
| 1. CACTUS SOUR 110H SHL: 1300' FSL, 680' FWL | | | | | | | | | | |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 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 | 0.00 |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400.00 | 2.00 | 21.74 | 399.98 | 1.62 | 0.65 | -0.63 | 2.00 | 2.00 | 0.00 | 0.00 |
| 500.00 | 4.00 | 21.74 | 499.84 | 6.48 | 2.58 | -2.52 | 2.00 | 2.00 | 0.00 | 0.00 |
| 600.00 | 6.00 | 21.74 | 599.45 | 14.58 | 5.81 | -5.66 | 2.00 | 2.00 | 0.00 | 0.00 |
| 700.00 | 8.00 | 21.74 | 698.70 | 25.90 | 10.33 | -10.06 | 2.00 | 2.00 | 0.00 | 0.00 |
| 800.00 | 10.00 | 21.74 | 797.47 | 40.43 | 16.12 | -15.70 | 2.00 | 2.00 | 0.00 | 0.00 |
| 900.00 | 12.00 | 21.74 | 895.62 | 58.15 | 23.19 | -22.58 | 2.00 | 2.00 | 0.00 | 0.00 |
| 1,000.00 | 14.00 | 21.74 | 993.06 | 79.04 | 31.52 | -30.69 | 2.00 | 2.00 | 0.00 | 0.00 |
| 1,100.00 | 16.00 | 21.74 | 1,089.64 | 103.08 | 41.11 | -40.03 | 2.00 | 2.00 | 0.00 | 0.00 |
| 1,200.00 | 18.00 | 21.74 | 1,185.27 | 130.24 | 51.94 | -50.57 | 2.00 | 2.00 | 0.00 | 0.00 |
| 1,271.67 | 19.43 | 21.74 | 1,253.15 | 151.60 | 60.46 | -58.86 | 2.00 | 2.00 | 0.00 | 0.00 |
| 1,300.00 | 19.43 | 21.74 | 1,279.86 | 160.36 | 63.95 | -62.26 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,400.00 | 19.43 | 21.74 | 1,374.17 | 191.26 | 76.27 | -74.26 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,500.00 | 19.43 | 21.74 | 1,468.47 | 222.16 | 88.60 | -86.26 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,607.81 | 19.43 | 21.74 | 1,570.13 | 255.48 | 101.88 | -99.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2. CACTUS SOUR 110H KOP @ 1607.81' MD | | | | | | | | | | |
| 1,650.00 | 18.14 | 13.48 | 1,610.08 | 268.39 | 106.01 | -103.20 | 7.00 | -3.05 | -19.58 | |
| 1,700.00 | 17.14 | 2.40 | 1,657.75 | 283.33 | 108.14 | -105.16 | 7.00 | -2.01 | -22.16 | |
| 1,750.00 | 16.80 | 350.44 | 1,705.58 | 297.82 | 107.25 | -104.12 | 7.00 | -0.69 | -23.91 | |
| 1,800.00 | 17.15 | 338.50 | 1,753.42 | 311.81 | 103.34 | -100.07 | 7.00 | 0.71 | -23.89 | |
| 1,850.00 | 18.17 | 327.44 | 1,801.08 | 325.24 | 96.44 | -93.03 | 7.00 | 2.03 | -22.12 | |
| 1,900.00 | 19.75 | 317.80 | 1,848.37 | 338.07 | 86.57 | -83.02 | 7.00 | 3.15 | -19.28 | |
| 1,950.00 | 21.76 | 309.70 | 1,895.14 | 350.25 | 73.76 | -70.09 | 7.00 | 4.02 | -16.20 | |
| 2,000.00 | 24.10 | 303.00 | 1,941.19 | 361.73 | 58.07 | -54.27 | 7.00 | 4.68 | -13.39 | |
| 2,050.00 | 26.68 | 297.48 | 1,986.37 | 372.48 | 39.54 | -35.64 | 7.00 | 5.16 | -11.05 | |
| 2,100.00 | 29.44 | 292.90 | 2,030.49 | 382.44 | 18.26 | -14.25 | 7.00 | 5.52 | -9.17 | |
| 2,150.00 | 32.33 | 289.05 | 2,073.40 | 391.59 | -5.70 | 9.80 | 7.00 | 5.78 | -7.70 | |
| 2,200.00 | 35.32 | 285.78 | 2,114.94 | 399.88 | -32.25 | 36.44 | 7.00 | 5.98 | -6.54 | |
| 2,250.00 | 38.38 | 282.96 | 2,154.95 | 407.29 | -61.30 | 65.56 | 7.00 | 6.13 | -5.63 | |
| 2,300.00 | 41.51 | 280.50 | 2,193.28 | 413.80 | -92.73 | 97.05 | 7.00 | 6.25 | -4.91 | |
| 2,350.00 | 44.68 | 278.33 | 2,229.79 | 419.36 | -126.42 | 130.81 | 7.00 | 6.34 | -4.34 | |
| 2,400.00 | 47.89 | 276.39 | 2,264.34 | 423.98 | -162.25 | 166.69 | 7.00 | 6.42 | -3.88 | |
| 2,450.00 | 51.12 | 274.64 | 2,296.81 | 427.62 | -200.09 | 204.56 | 7.00 | 6.47 | -3.50 | |
| 2,500.00 | 54.38 | 273.05 | 2,327.07 | 430.28 | -239.80 | 244.29 | 7.00 | 6.52 | -3.19 | |
| 2,550.00 | 57.67 | 271.57 | 2,355.01 | 431.94 | -281.22 | 285.73 | 7.00 | 6.56 | -2.94 | |
| 2,585.44 | 60.00 | 270.60 | 2,373.35 | 432.51 | -311.54 | 316.05 | 7.00 | 6.59 | -2.76 | |
| 2,600.00 | 60.00 | 270.60 | 2,380.63 | 432.64 | -324.15 | 328.66 | 0.00 | 0.00 | 0.00 | |
| 2,700.00 | 60.00 | 270.60 | 2,430.63 | 433.54 | -410.75 | 415.26 | 0.00 | 0.00 | 0.00 | |
| 2,785.44 | 60.00 | 270.60 | 2,473.35 | 434.31 | -484.73 | 489.26 | 0.00 | 0.00 | 0.00 | |
| 2,800.00 | 61.46 | 270.60 | 2,480.47 | 434.44 | -497.44 | 501.96 | 10.00 | 10.00 | 0.00 | |
| 2,850.00 | 66.46 | 270.60 | 2,502.41 | 434.91 | -542.34 | 546.87 | 10.00 | 10.00 | 0.00 | |
| 2,900.00 | 71.46 | 270.60 | 2,520.36 | 435.39 | -588.99 | 593.52 | 10.00 | 10.00 | 0.00 | |
| 2,950.00 | 76.46 | 270.60 | 2,534.17 | 435.89 | -637.03 | 641.55 | 10.00 | 10.00 | 0.00 | |
| 3,000.00 | 81.46 | 270.60 | 2,543.75 | 436.40 | -686.08 | 690.61 | 10.00 | 10.00 | 0.00 | |
| 3,050.00 | 86.46 | 270.60 | 2,549.01 | 436.92 | -735.78 | 740.32 | 10.00 | 10.00 | 0.00 | |
| 3,096.54 | 91.11 | 270.60 | 2,550.00 | 437.40 | -782.30 | 786.84 | 10.00 | 10.00 | 0.00 | |
| 3. CACTUS SOUR 110H FTP: 1750' FSL, 100' FEL | | | | | | | | | | |
| 3,100.00 | 91.11 | 270.60 | 2,549.93 | 437.44 | -785.76 | 790.30 | 0.00 | 0.00 | 0.00 | |
| 3,200.00 | 91.11 | 270.60 | 2,548.00 | 438.47 | -885.73 | 890.28 | 0.00 | 0.00 | 0.00 | |



PROTOTYPE

Planning Report


PROTOTYPE
WELL PLANNING
 WELL PLANNED. WELL EXECUTED.

| | | | |
|--|--|--|--|
| Database: Company: Project: Site: Well: Wellbore: Design: | EDM 5000.17 Single User Db SPUR ENERGY PARTNERS, LLC EDDY COUNTY, NM (NAD 83 - NME) CACTUS SOUR STATE COM 110H OH PERMIT | Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: | Well 110H RKB = 20' @ 3694.00usft (AKITA 57) RKB = 20' @ 3694.00usft (AKITA 57) Grid Minimum Curvature |
|--|--|--|--|

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) |
|---|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 3,300.00 | 91.11 | 270.60 | 2,546.06 | 439.51 | -985.71 | 990.26 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 91.11 | 270.60 | 2,544.12 | 440.55 | -1,085.69 | 1,090.24 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 91.11 | 270.60 | 2,542.18 | 441.59 | -1,185.66 | 1,190.22 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 91.11 | 270.60 | 2,540.24 | 442.63 | -1,285.64 | 1,290.20 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 91.11 | 270.60 | 2,538.31 | 443.67 | -1,385.61 | 1,390.18 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 91.11 | 270.60 | 2,536.37 | 444.71 | -1,485.59 | 1,490.16 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 91.11 | 270.60 | 2,534.43 | 445.75 | -1,585.56 | 1,590.15 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 91.11 | 270.60 | 2,532.49 | 446.78 | -1,685.54 | 1,690.13 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 91.11 | 270.60 | 2,530.55 | 447.82 | -1,785.52 | 1,790.11 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 91.11 | 270.60 | 2,528.62 | 448.86 | -1,885.49 | 1,890.09 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 91.11 | 270.60 | 2,526.68 | 449.90 | -1,985.47 | 1,990.07 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 91.11 | 270.60 | 2,524.74 | 450.94 | -2,085.44 | 2,090.05 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 91.11 | 270.60 | 2,522.80 | 451.98 | -2,185.42 | 2,190.03 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 91.11 | 270.60 | 2,520.86 | 453.02 | -2,285.40 | 2,290.01 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 91.11 | 270.60 | 2,518.93 | 454.06 | -2,385.37 | 2,390.00 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 91.11 | 270.60 | 2,516.99 | 455.09 | -2,485.35 | 2,489.98 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 91.11 | 270.60 | 2,515.05 | 456.13 | -2,585.32 | 2,589.96 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 91.11 | 270.60 | 2,513.11 | 457.17 | -2,685.30 | 2,689.94 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 91.11 | 270.60 | 2,511.18 | 458.21 | -2,785.27 | 2,789.92 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 91.11 | 270.60 | 2,509.24 | 459.25 | -2,885.25 | 2,889.90 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 91.11 | 270.60 | 2,507.30 | 460.29 | -2,985.23 | 2,989.88 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 91.11 | 270.60 | 2,505.36 | 461.33 | -3,085.20 | 3,089.86 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 91.11 | 270.60 | 2,503.42 | 462.36 | -3,185.18 | 3,189.85 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 91.11 | 270.60 | 2,501.49 | 463.40 | -3,285.15 | 3,289.83 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 91.11 | 270.60 | 2,499.55 | 464.44 | -3,385.13 | 3,389.81 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 91.11 | 270.60 | 2,497.61 | 465.48 | -3,485.11 | 3,489.79 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 91.11 | 270.60 | 2,495.67 | 466.52 | -3,585.08 | 3,589.77 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 91.11 | 270.60 | 2,493.73 | 467.56 | -3,685.06 | 3,689.75 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 91.11 | 270.60 | 2,491.80 | 468.60 | -3,785.03 | 3,789.73 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 91.11 | 270.60 | 2,489.86 | 469.64 | -3,885.01 | 3,889.71 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 91.11 | 270.60 | 2,487.92 | 470.67 | -3,984.98 | 3,989.69 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 91.11 | 270.60 | 2,485.98 | 471.71 | -4,084.96 | 4,089.68 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 91.11 | 270.60 | 2,484.04 | 472.75 | -4,184.94 | 4,189.66 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 91.11 | 270.60 | 2,482.11 | 473.79 | -4,284.91 | 4,289.64 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 91.11 | 270.60 | 2,480.17 | 474.83 | -4,384.89 | 4,389.62 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 91.11 | 270.60 | 2,478.23 | 475.87 | -4,484.86 | 4,489.60 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 91.11 | 270.60 | 2,476.29 | 476.91 | -4,584.84 | 4,589.58 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 91.11 | 270.60 | 2,474.36 | 477.95 | -4,684.82 | 4,689.56 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 91.11 | 270.60 | 2,472.42 | 478.98 | -4,784.79 | 4,789.54 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 91.11 | 270.60 | 2,470.48 | 480.02 | -4,884.77 | 4,889.53 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 91.11 | 270.60 | 2,468.54 | 481.06 | -4,984.74 | 4,989.51 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 91.11 | 270.60 | 2,466.60 | 482.10 | -5,084.72 | 5,089.49 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 91.11 | 270.60 | 2,464.67 | 483.14 | -5,184.69 | 5,189.47 | 0.00 | 0.00 | 0.00 |
| 7,600.00 | 91.11 | 270.60 | 2,462.73 | 484.18 | -5,284.67 | 5,289.45 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 91.11 | 270.60 | 2,460.79 | 485.22 | -5,384.65 | 5,389.43 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 91.11 | 270.60 | 2,458.85 | 486.26 | -5,484.62 | 5,489.41 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 91.11 | 270.60 | 2,456.91 | 487.29 | -5,584.60 | 5,589.39 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 91.11 | 270.60 | 2,454.98 | 488.33 | -5,684.57 | 5,689.38 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 91.11 | 270.60 | 2,453.04 | 489.37 | -5,784.55 | 5,789.36 | 0.00 | 0.00 | 0.00 |
| 8,206.78 | 91.11 | 270.60 | 2,450.97 | 490.48 | -5,891.30 | 5,896.11 | 0.00 | 0.00 | 0.00 |
| 4. CACTUS SOUR 110H LTP: 1750' FSL, 100' FWL | | | | | | | | | |
| 8,256.79 | 91.11 | 270.60 | 2,450.00 | 491.00 | -5,941.30 | 5,946.12 | 0.00 | 0.00 | 0.00 |
| 5. CACTUS SOUR 110H BHL: 1750' FSL, 50' FWL | | | | | | | | | |



PROTOTYPE

Planning Report


PROTOTYPE
WELL PLANNING
 WELL PLANNED. WELL EXECUTED.

| | | | |
|--|--|--|--|
| Database: Company: Project: Site: Well: Wellbore: Design: | EDM 5000.17 Single User Db SPUR ENERGY PARTNERS, LLC EDDY COUNTY, NM (NAD 83 - NME) CACTUS SOUR STATE COM 110H OH PERMIT | Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: | Well 110H RKB = 20' @ 3694.00usft (AKITA 57) RKB = 20' @ 3694.00usft (AKITA 57) Grid Minimum Curvature |
|--|--|--|--|

| Design Targets | | | | | | | | | | |
|-------------------|---|------------------|-----------------|---------------|----------------|----------------|--------------------|-------------------|----------|------------|
| Target Name | | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/S (usft) | +E/W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| 1. CACTUS SOUR 11 | - hit/miss target | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 650,013.20 | 575,761.90 | 32.78687 | -104.22132 |
| | - Shape | | | | | | | | | |
| | - plan hits target center | | | | | | | | | |
| | - Point | | | | | | | | | |
| 2. CACTUS SOUR 11 | - hit/miss target | 0.00 | 0.00 | 1,570.13 | 255.48 | 101.88 | 650,268.69 | 575,863.78 | 32.78757 | -104.22099 |
| | - Shape | | | | | | | | | |
| | - plan hits target center | | | | | | | | | |
| | - Point | | | | | | | | | |
| 5. CACTUS SOUR 11 | - hit/miss target | 0.00 | 0.00 | 2,450.00 | 491.00 | -5,941.30 | 650,504.20 | 569,820.60 | 32.78823 | -104.24065 |
| | - Shape | | | | | | | | | |
| | - plan hits target center | | | | | | | | | |
| | - Point | | | | | | | | | |
| 4. CACTUS SOUR 11 | - hit/miss target | 0.00 | 0.00 | 2,450.97 | 490.50 | -5,891.30 | 650,503.70 | 569,870.60 | 32.78823 | -104.24049 |
| | - Shape | | | | | | | | | |
| | - plan misses target center by 0.02usft at 8206.78usft MD (2450.97 TVD, 490.48 N, -5891.30 E) | | | | | | | | | |
| | - Point | | | | | | | | | |
| 3. CACTUS SOUR 11 | - hit/miss target | 0.00 | 0.00 | 2,550.00 | 437.40 | -782.30 | 650,450.60 | 574,979.60 | 32.78807 | -104.22386 |
| | - Shape | | | | | | | | | |
| | - plan hits target center | | | | | | | | | |
| | - Point | | | | | | | | | |

Spur Energy Partners LLC – Cactus Sour State Com 110H

1. Geologic Formations

| | |
|---------------|--------|
| TVD of Target | 2,450' |
| MD at TD | 8,257' |

| Formation | Depth | Lithology | Expected Fluids |
|--------------|-------|---------------------------------------|------------------|
| Quaternary | 0' | Dolomite, Other: Caliche | Useable Water |
| Tansill | 200' | Sandstone, Dolomite | None |
| Yates | 330' | Dolomite, Limestone, Shale, Siltstone | None |
| Seven Rivers | 585' | Dolomite, Limestone | Natural Gas, Oil |
| Queen | 1135' | Anhydrite, Dolomite, Sandstone | Natural Gas, Oil |
| Grayburg | 1585' | Anhydrite, Sandstone | Natural Gas, Oil |
| San Andres | 1920' | Dolomite, Limestone | Natural Gas, Oil |
| Glorieta | 3365' | Dolomite, Siltstone | 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 | 1050 | 9.625 | 36 | J-55 | BTC | 1.125 | 1.2 | 1.4 | 1.4 |
| N/A | 8.75 | 0 | 2850 | 7 | 32 | L-80 | GBCD | 1.125 | 1.2 | 1.4 | 1.4 |
| San Andres | 8.75 | 2850 | 8257 | 5.5 | 20 | L-80 | GBCD | 1.125 | 1.2 | 1.4 | 1.4 |
| SF Values will meet or Exceed | | | | | | | | | | | |

Spur Energy Partners LLC – Cactus Sour State Com 110H

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

3. Cementing Program

| Casing String | Top (ft) | Bottom (ft) | % Excess |
|-------------------|----------|-------------|----------|
| Surface (Lead) | 0 | 950 | 100% |
| Surface (Tail) | 950 | 1050 | 100% |
| Production (Lead) | 0 | 1850 | 100% |
| Production (Tail) | 1850 | 8257 | 25% |

| Casing String | # Sks | Wt. (lb/gal) | Yld (ft ³ /sack) | H20 (gal/sk) | 500# Comp. Strength (hours) | Slurry Description |
|-------------------|-------|-----------------|--------------------------------|-----------------|--------------------------------------|----------------------------|
| Surface (Lead) | 259 | 12 | 2.4 | 13.48 | 8:12 | Clas C Premium Plus Cement |
| Surface (Tail) | 44 | 13.2 | 1.87 | 9.92 | 6:59 | Clas C Premium Plus Cement |
| Production (Lead) | 172 | 11.4 | 2.42 | 15.29 | N/A | Clas C Premium Plus Cement |
| Production (Tail) | 1219 | 13.2 | 1.56 | 9.81 | N/A | Clas C Premium Plus Cement |

Spur Energy Partners LLC – Cactus Sour State Com 110H

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 | ✓ | |
| | | | Pipe Ram | ✓ | |
| | | | Double Ram | | 250 psi / 3000 psi |
| | | Other* | | | |
| 8.75" Hole | 13-5/8" | 5M | Annular | ✓ | 70% of working pressure |
| | | 5M | Blind Ram | ✓ | |
| | | | Pipe Ram | ✓ | |
| | | | Double Ram | | 250 psi / 3000 psi |
| | | Other* | | | |

Spur Energy Partners LLC will be utilizing a 5M BOP

| Condition | Specify what type and where? |
|-------------------------------|------------------------------|
| BH Pressure at deepest TVD | 1181 psi |
| Abnormal Temperature | No |
| BH Temperature at deepest TVD | 101°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. |
|--|--|

Spur Energy Partners LLC – Cactus Sour State Com 110H

| | | |
|--|---|--|
| | On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i. | |
| Y | Are anchors required by manufacturer? | |
| A conventional wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. See attached schematics. | | |

5. BOP Break Testing Request

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

BOP break test under the following conditions:

- After a full BOP test is conducted
- When skidding to drill the production section, where the surface casing point is shallower than the 3rd Bone Spring or 10,000 TVD.
- When skidding to drill a production section that does not penetrate the 3rd Bone Spring or deeper.

If the kill line is broken prior to skid, four tests will be performed.

- 1) The void between the wellhead and the spool (this consists of two tests)
- 2) The spool between the kill lines and the choke manifold (this consists of two tests)

If the kill line is not broken prior to skid, two tests will be performed.

- 1) The void between the wellhead and the pipe rams

6. Mud Program

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Spur will use a closed mud system.

| Depth | | Type | Weight (ppg) | Viscosity | Water Loss |
|-----------|---------|-----------------|--------------|-----------|------------|
| From (ft) | To (ft) | | | | |
| 0 | 1050 | Water-Based Mud | 8.6-8.9 | 32-36 | N/C |
| 1050 | 8257 | 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 – Cactus Sour State Com 110H**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 | |
| No | Resistivity |
| No | Density |
| No | CBL |
| Yes | Mud log |
| No | PEX |
| Interval | |
| | SCP - TD |

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: 767.2 bbls.

Spur Energy Partners LLC – Cactus Sour State Com 110H

9. Other facets of operation

| Question | Yes/No |
|--|--------|
| Will more than one drilling rig be used for drilling operations? If yes, describe. Spur Energy Partners LLC. requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Spur Energy Partners LLC. would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig. | Yes |

Attachments

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

10. Company Personnel

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



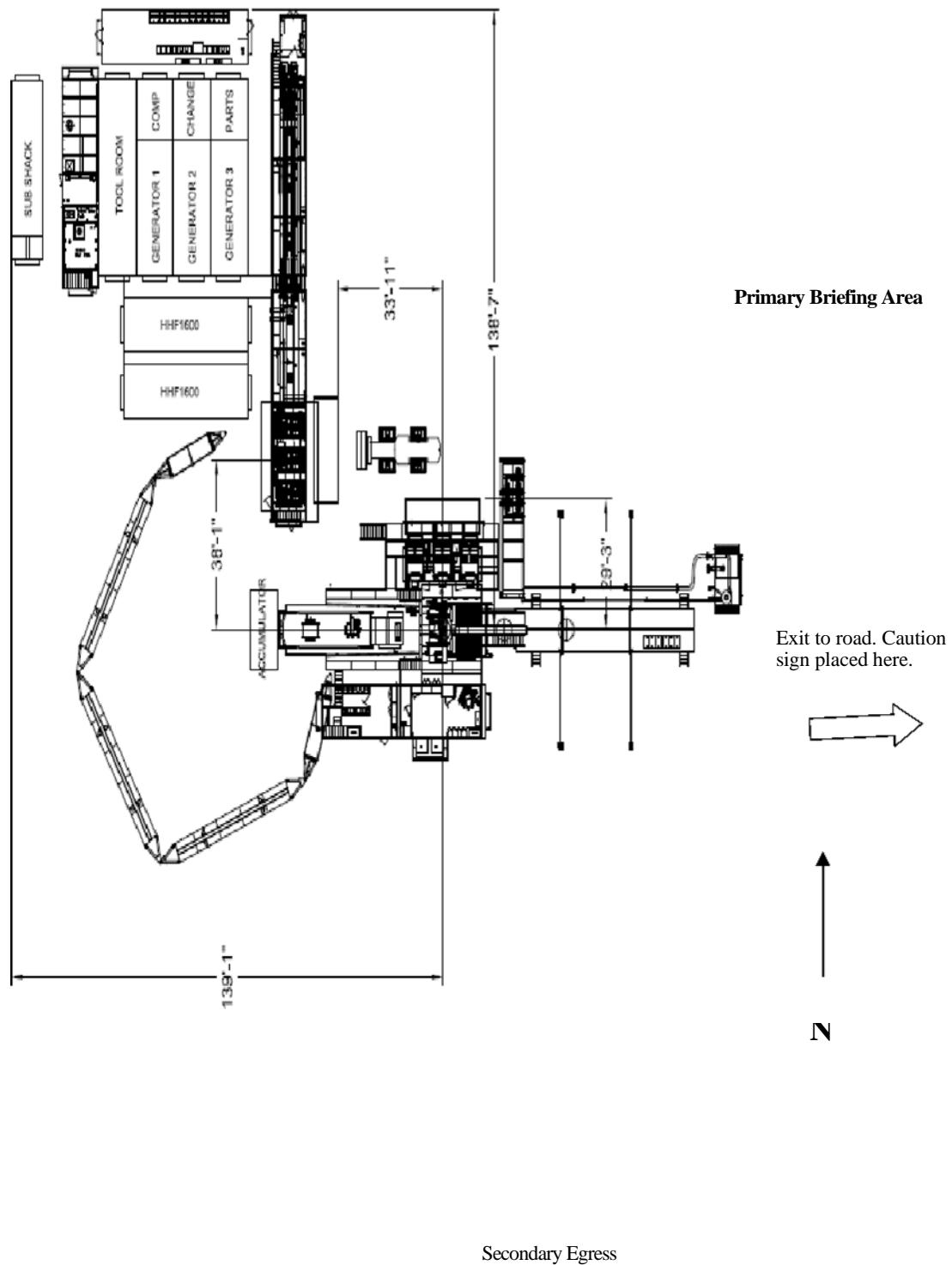
**Permian Drilling
Hydrogen Sulfide Drilling Operations Plan
CACTUS SOUR STATE COM 110H
DEVELOPMENT**

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

1. Escape

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

Secondary Briefing Area



WIND: Prevailing winds are from the Southwest

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 / 29 / 26

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 |
|----------------------------|-----|------------------|--------------------|-----------------------|-----------------------|----------------------------------|
| CACTUS SOUR STATE COM 110H | | LOT 4-31-17S-28E | 1300' FSL 680' FWL | 316 BBL/D | 548 MCF/D | 1897 BBL/D |
| | | | | | | |
| | | | | | | |
| | | | | | | |

IV. Central Delivery Point Name: WAUKEE 36 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 |
|----------------------------|---------|------------|-----------------|------------------------------|------------------------|-----------------------|
| CACTUS SOUR STATE COM 110H | 30-015- | 05/15/2026 | 05/20/2026 | 06/26/2026 | 07/11/2026 | 07/20/2026 |
| | | | | | | |

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@SPURENERGY.COM |
| Date: | 0129/2026 |
| Phone: | 832-930-8613 |
| OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form) | |
| Approved By: | |
| Title: | |
| Approval Date: | |
| Conditions of Approval: | |