Title:

Date:

Email Address:

Regulatory Director

6/30/2020

schapman@spurepllc.com

Phone: 832-930-8613

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101 August 1, 2011

Permit 279684

| | | APPLICA | ATION F | FOR PERMI | T TO DRILL, I | RE-ENTER | R, DEEPE | N, PLUGBAC | CK, OR | ADD A | ZONE | | | |
|--------------------|---------------------------------------|----------------|------------|--------------|-----------------------|-----------------|--------------|---------------|----------|------------|---------------------|--------|-----------|------|
| Spi | ame and Address ur Energy Partners | LLC | | | · | | | · | • | | OGRID Numbe | | | |
| | 55 Katy Freeway uston, TX 77024 | | | | | | | | | 3. | API Number 30-01 | 5-4725 | 5 | |
| 4. Property Co | | | 5. Proper | rty Name | | | | | | 6. | Well No. | 020 | | |
| 328 | 8505 | | | NIRVANA | | | | | | | 001H | | | |
| | | | | | 7. 3 | Surface Loc | ation | | | | | | | |
| UL - Lot M | Section 27 | Township 1 | 8S | Range 26E | Lot Idn | Feet F | rom 520 | N/S Line S | Feet F | rom 665 | E/W Line | W | County | Eddy |
| | | | | | 8. Propose | ed Bottom H | ole Location | on | | | | | | |
| UL - Lot | Section 29 | Township 18 | 38 | Range 26E | Lot Idn | Feet Fro | | N/S Line S | Feet Fro | om 1270 | E/W Lin | e E | County | Eddy |
| | | | | | 9 | Pool Inform | ation | | | | | | | |
| PENASCO D | DRAW;SA-YESO (AS | SOC) | | | <u> </u> | 1 001 111101111 | ation | | | | | 50270 | | |
| | • | , | | | A d ditia | onal Well Inf | io rmation | | | | | | | |
| 11. Work Type | | 12. Well T | ype | | 13. Cable/Rotary | | 14. Lease | е Туре | 1 | 5. Ground | d Level Elevatio | n | | |
| Ne | w Well | | OIL | | ĺ | • | | Private | | | 3370 | | | |
| 16. Multiple | | 17. Propo | sed Depth | | 18. Formation Yeso | | 19. Contr | actor | 2 | 0. Spud E | Date 7/1/2020 | | | |
| N Depth to Grou | nd water | | 9994 | | Distance from ne | | ter well | | D | | nearest surface | water | | |
| | | | | | | | | | | | | | | |
| X We will be | using a closed-loop | system in li | eu of line | ed pits | 21. Proposed | Cooling and | Coment Dr | | | | | | | |
| Туре | Hole Size | Casin | g Size | С | asing Weight/ft | Casing and | Setting D | | Sac | ks of Cem | nent | | Estimated | TOC |
| Surf | 12.25 | | 625 | | 36 | | 1200 | | | 550 | | | 0 | |
| Prod | 8.5 | | 7 | | 32 | | 3200 1963 | | | | | | 0 | |
| Prod | 8.5 | 5 | .5 | | 20 | | 9954 | 1 | | 1963 | | | 0 | |
| | | | | С | asing/Cement F | Program: Ad | ditional Co | omments | | | | | | |
| | | | | | | | | | | | | | | |
| | 1 | | | | 22. Proposed I | | vention Pr | ogram | | | | | | |
| Type | | Working P | ressure | | Te | est Pressure | | | | | Manufacturer | I | | |
| Blind | | 5 | | | | 70 | | | | Contro | ol Technology | inc. | | |
| knowledge a | tify I have complied | | | • | | • | | | OIL CONS | SERVATI | ION DIVISION | | | |
| Signature: | | | | | | | | | | | | | | |
| Printed Name: | : Electronical | y filed by Sar | ah Chapı | man | | Арр | roved By: | Raymond | Podany | | | | - | |

Title:

Approved Date:

Geologist

7/13/2020

Conditions of Approval Attached

Expiration Date: 7/13/2022

Received by OCD: 7/13/2020 3:32:02 PM

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fc, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

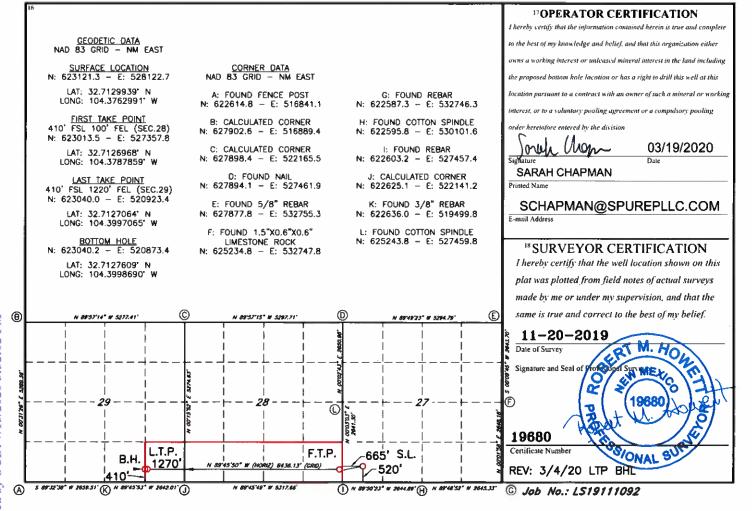
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | · | | | | | Li company | = = | | | | |
|-----------------|-----------|-------------|---------------|------------------------|----------------------------|------------------|---------------|----------|-------------------|-------------|--|--|
| 1 | API Numbe | r | l | ² Pool Code | 8 | ³ Pool Name | | | | | | |
| | | | 50 |)270 | | PENASCO | ESO | | | | | |
| 4Ргорепу Со | de | | | | 5 Property N | ame | | | 6 Well Number | | | |
| NIRVANA | | | | | | | | | | 1H | | |
| 7 OGRID I | NO, | | | | 8 Operator N | lame | | | 9E) | evation | | |
| 328947 | `` | | | SPUR I | ENERGY PARTNERS LLC. 3370' | | | | | | | |
| 925 | | | | 222 | "Surface | Location | 2.2 50 | | | | | |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet From the | East/Wes | East/West line Co | | | |
| M | 27 | 18S | 26E | | 520 | SOUTH | 665 | WES | T | EDDY | | |
| | | | 11] | Bottom H | lole Location | If Different Fr | om Surface | | | | | |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/Wes | t line | County | | |
| P | 29 | 18S | 26E | | 410 | SOUTH | 1270 | EAS | т | EDDY | | |
| Dedicated Acres | 13 Joint | or Infill 4 | Consolidation | Code 15 (| Order No. | | | | | | | |
| 200 | | | | | | | | | | | | |
| | | | | | | | | | | | | |

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



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District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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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**

| | | | GAS CA | PTURE PI | LAN | |
|--|--|---|--|--|---|---|
| Date: 7/13/2020 | | | | | | |
| ☑ Original | 0 | perator & OGRID No.: | [328947] Spur Energ | y Partners LL0 | 0 | |
| ☐ Amended - Reas Amendment: | on for _ | | | | | |
| This Gas Capture Pla | n outlines actions to b | e taken by the Operator t | to reduce well/product | ion facility flari | ng/venting for | new completion (new drill, recomplete to new zone, re-frac) activity. |
| Note: Form C-129 mu | ıst be submitted and a | pproved prior to exceed | ing 60 days allowed b | y Rule (Subse | ction A of 19. | 15.18.12 NMAC). |
| Well(s)/Production F | acility - Name of facil | ity | | | | |
| The well(s) that will b | e located at the produc | ction facility are shown in | the table below. | | | |
| Well Name | API | Well Location (ULSTR) | Footages | Expected MCF/D | Flared or Vented | Comments |
| NIRVANA #001H | 30-015-47255 | M-27-18S-26E | 0520S 0665W | 3 | Flared | WILL FLARE UNTIL GATHERING LINE TIE-IN |
| Well(s) will be connected. LUCID ENERGY DE New Mexico. It will rected. LUCID ENERGY DE Spur Energy Partner these wells will be pr | LAWARE, LLC an quire 500' of pip LAWARE, LLC a c es LLC and occessed at LUCID EN | – cility after flowback oper: d will be connected to <u>L</u> seline to connect the facili drilling, completion and e | UCID ENERGY DELA ity to Low Pressure estimated first product /ARE, LLC have p C Processing Pla | WARE, LLC gatherin ion date for we periodic confer nt located in S | Low Pres g system. Spells that are so rence calls to ec. 25, Twn | n place. The gas produced from production facility is dedicated to sure gathering system located in Eddy County, our Energy Partners LLC provides (periodically) to cheduled to be drilled in the foreseeable future. In addition, discuss changes to drilling and completion schedules. Gas from 18S, Rng. 25E, Eddy County, New Mexico. The |
| Flowback Strategy | | | | | | |
| will be monitored. Wh | nen the produced fluid unless there are opera | s contain minimal sand, | the wells will be turne ENERGY DELAWAR | d to productio | n facilities. Ga stem at that ti | I be flared or vented. During flowback, the fluids and sand content as sales should start as soon as the wells start flowing through the me. Based on current information, it is |
| Safety requirements rather than sold on a | | tions from the use of unc | derbalanced air clean | out systems m | ay necessitat | e that sand and non-pipeline quality gas be vented and/or flared |
| Alternatives to Redu | ce Flaring | | | | | |

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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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 279684

PERMIT COMMENTS

| | 10 () | |
|-----------------------------------|---------------|--|
| Operator Name and Address: | API Number: | |
| Spur Energy Partners LLC [328947] | 30-015-47255 | |
| 9655 Katy Freeway | Well: | |
| Houston, TX 77024 | NIRVANA #001H | |
| | | |

Created By Comment Comment Date

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

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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 279684

PERMIT CONDITIONS OF APPROVAL

| Operator Name and Address: | API Number: |
|-----------------------------------|---------------|
| Spur Energy Partners LLC [328947] | 30-015-47255 |
| 9655 Katy Freeway | Well: |
| Houston, TX 77024 | NIRVANA #001H |

| OCD Reviewer | Condition |
|--------------|---|
| ksimmons | Will require a directional survey with the C-104 |
| ksimmons | Cement is required to circulate on both surface and intermediate1 strings of casing |



Spur Energy Partners, LLC

Eddy County, NM (NAD 83 - NME) Nirvana #1H OH

Plan: Plan #1

Standard Plan With Toolface

04 February, 2020

Wellbenders

Standard Plan With Toolface

SPUR ENERGY

Map Zone:

Company: Spur Energy Partners, LLC
Project: Eddy County, NM (NAD 83 - NME)

Project: Eddy County, I Site: Nirvana Well: #1H

Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #1H

 TVD Reference:
 RKB=20' @ 3390.00usft (Akita 57)

 MD Reference:
 RKB=20' @ 3390.00usft (Akita 57)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: WBDS_SQL_2

Project Eddy County, NM (NAD 83 - NME)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983

New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Nirvana

Northing: 623,161.20 usft Site Position: Latitude: 32.713104 From: Мар Easting: 528,122.80 usft Longitude: -104.376299 **Position Uncertainty:** Slot Radius: **Grid Convergence:** -0.023 ° 0.00 usft 13.200 in

Well #1H **Well Position** +N/-S 0.00 usft 32.712994 Northing: 623,121.30 usft Latitude: +E/-W 0.00 usft 528.122.70 usft -104.376299 Easting: Longitude: 0.00 usft 3,370.00 usft **Position Uncertainty** Wellhead Elevation: usft **Ground Level:**

ОН Wellbore Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) 7.081 60.348 47.870.21540266 IGRF2015 2/3/2020

Design Plan #1

Audit Notes:

Version: Phase: **PLAN** Tie On Depth: 0.00 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.00 270.24 0.00 0.00

Survey Tool Program Date 2/4/2020

From To (usft) (usft)

(usft) Survey (Wellbore) Tool Name Description

0.00 9,994.33 Plan #1 (OH) MWD+IGRF OWSG MWD + IGRF or WMM

SPUR ENERGY PARTNERS

Wellbenders

Standard Plan With Toolface

Company: Spur Energy Partners, LLC

Project: Eddy County, NM (NAD 83 - NME)

Site: Nirvana
Well: #1H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:

Well #1H

 TVD Reference:
 RKB=20' @ 3390.00usft (Akita 57)

 MD Reference:
 RKB=20' @ 3390.00usft (Akita 57)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: WBDS_SQL_2

| Planned Survey | | | | | | | | | | |
|----------------|------------|----------------------|---------------|---------------|---------------|------------------|-------------------|--------------------|-------------------|--------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100ft) | Build (°/100ft) | Turn (°/100ft) | TFace (°) |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 600.00 | 2.00 | 118.80 | 599.98 | -0.84 | 1.53 | -1.53 | 2.00 | 2.00 | 0.00 | 118.801 |
| 700.00 | 4.00 | 118.80 | 699.84 | -3.36 | 6.12 | -6.13 | 2.00 | 2.00 | 0.00 | 0.000 |
| 800.00 | 6.00 | 118.80 | 799.45 | -7.56 | 13.75 | -13.78 | 2.00 | 2.00 | 0.00 | 0.000 |
| 900.00 | 8.00 | 118.80 | 898.70 | -13.43 | 24.43 | -24.49 | 2.00 | 2.00 | 0.00 | 0.000 |
| 1,000.00 | 10.00 | 118.80 | 997.47 | -20.97 | 38.14 | -38.23 | 2.00 | 2.00 | 0.00 | 0.000 |
| 1,083.80 | 11.68 | 118.80 | 1,079.77 | -28.56 | 51.95 | -52.07 | 2.00 | 2.00 | 0.00 | 0.000 |
| 1,100.00 | 11.68 | 118.80 | 1,095.63 | -30.14 | 54.82 | -54.94 | 0.00 | 0.00 | 0.00 | 0.000 |
| 1,200.00 | 11.68 | 118.80 | 1,193.56 | -39.89 | 72.55 | -72.72 | 0.00 | 0.00 | 0.00 | 0.000 |
| 1,300.00 | 11.68 | 118.80 | 1,291.49 | -49.64 | 90.29 | -90.49 | 0.00 | 0.00 | 0.00 | 0.000 |
| 1,400.00 | 11.68 | 118.80 | 1,389.42 | -59.39 | 108.02 | -108.27 | 0.00 | 0.00 | 0.00 | 0.000 |
| 1,500.00 | 11.68 | 118.80 | 1,487.36 | -69.14 | 125.76 | -126.04 | 0.00 | 0.00 | 0.00 | 0.000 |
| 1,600.00 | 11.68 | 118.80 | 1,585.29 | -78.89 | 143.49 | -143.82 | 0.00 | 0.00 | 0.00 | 0.000 |
| 1,700.00 | 11.68 | 118.80 | 1,683.22 | -88.64 | 161.23 | -161.60 | 0.00 | 0.00 | 0.00 | 0.000 |
| 1,780.75 | 11.68 | 118.80 | 1,762.29 | -96.51 | 175.55 | -175.95 | 0.00 | 0.00 | 0.00 | 0.000 |
| 1,800.00 | 10.65 | 121.55 | 1,781.18 | -98.38 | 178.77 | -179.18 | 6.00 | -5.33 | 14.28 | 153.921 |
| 1,850.00 | 8.15 | 131.79 | 1,830.51 | -103.16 | 185.35 | -185.78 | 6.00 | -5.00 | 20.48 | 151.224 |
| 1,900.00 | 6.11 | 149.77 | 1,880.13 | -107.82 | 189.33 | -189.78 | 6.00 | -4.08 | 35.96 | 141.120 |
| 1,950.00 | 5.12 | 179.15 | 1,929.90 | -112.35 | 190.70 | -191.17 | 6.00 | -1.98 | 58.76 | 123.272 |
| 2,000.00 | 5.74 | 210.59 | 1,979.68 | -116.74 | 189.46 | -189.95 | 6.00 | 1.26 | 62.87 | 94.025 |
| 2,050.00 | 7.60 | 231.18 | 2,029.35 | -120.97 | 185.61 | -186.12 | 6.00 | 3.71 | 41.18 | 62.722 |
| 2,100.00 | 10.03 | 242.84 | 2,078.76 | -125.03 | 179.16 | -179.69 | 6.00 | 4.85 | 23.33 | 42.267 |



Wellbenders

Standard Plan With Toolface

Company: Spur Energy Partners, LLC

Project: Eddy County, NM (NAD 83 - NME)

Site: Nirvana Well: #1H Wellbore: ОН Design: Plan #1

Local Co-ordinate Reference:

RKB=20' @ 3390.00usft (Akita 57)

Well #1H

TVD Reference: RKB=20' @ 3390.00usft (Akita 57) MD Reference:

North Reference: Grid

Survey Calculation Method: Minimum Curvature Database: WBDS_SQL_2

| Planned Survey | | | | | | | | | | |
|----------------|------------|----------------------|---------------|---------------|---------------|------------------|-------------------|--------------------|-------------------|--------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100ft) | Build (°/100ft) | Turn (°/100ft) | TFace (°) |
| 2,150.00 | 12.70 | 249.83 | 2,127.78 | -128.91 | 170.13 | -170.67 | 6.00 | 5.34 | 13.98 | 30.735 |
| 2,200.00 | 15.49 | 254.38 | 2,176.27 | -132.60 | 158.54 | -159.10 | 6.00 | 5.58 | 9.10 | 23.880 |
| 2,250.00 | 18.34 | 257.56 | 2,224.10 | -136.09 | 144.43 | -145.00 | 6.00 | 5.71 | 6.35 | 19.464 |
| 2,300.00 | 21.23 | 259.90 | 2,271.15 | -139.37 | 127.83 | -128.41 | 6.00 | 5.79 | 4.68 | 16.423 |
| 2,350.00 | 24.15 | 261.70 | 2,317.27 | -142.44 | 108.79 | -109.38 | 6.00 | 5.84 | 3.60 | 14.219 |
| 2,400.00 | 27.09 | 263.14 | 2,362.35 | -145.28 | 87.36 | -87.96 | 6.00 | 5.87 | 2.86 | 12.558 |
| 2,450.00 | 30.04 | 264.31 | 2,406.26 | -147.88 | 63.60 | -64.21 | 6.00 | 5.89 | 2.34 | 11.266 |
| 2,500.00 | 32.99 | 265.28 | 2,448.88 | -150.24 | 37.57 | -38.20 | 6.00 | 5.91 | 1.96 | 10.238 |
| 2,550.00 | 35.96 | 266.12 | 2,490.09 | -152.35 | 9.35 | -9.99 | 6.00 | 5.93 | 1.67 | 9.403 |
| 2,600.00 | 38.92 | 266.84 | 2,529.79 | -154.21 | -20.98 | 20.34 | 6.00 | 5.94 | 1.45 | 8.715 |
| 2,650.00 | 41.89 | 267.48 | 2,567.86 | -155.81 | -53.35 | 52.70 | 6.00 | 5.94 | 1.27 | 8.141 |
| 2,700.00 | 44.87 | 268.04 | 2,604.19 | -157.15 | -87.67 | 87.01 | 6.00 | 5.95 | 1.13 | 7.656 |
| 2,750.00 | 47.85 | 268.55 | 2,638.70 | -158.22 | -123.83 | 123.17 | 6.00 | 5.95 | 1.02 | 7.245 |
| 2,800.00 | 50.83 | 269.02 | 2,671.27 | -159.02 | -161.74 | 161.08 | 6.00 | 5.96 | 0.93 | 6.893 |
| 2,850.00 | 53.81 | 269.45 | 2,701.84 | -159.55 | -201.31 | 200.64 | 6.00 | 5.96 | 0.85 | 6.590 |
| 2,900.00 | 56.79 | 269.84 | 2,730.30 | -159.80 | -242.41 | 241.73 | 6.00 | 5.96 | 0.79 | 6.329 |
| 2,953.80 | 60.00 | 270.24 | 2,758.49 | -159.77 | -288.22 | 287.55 | 6.00 | 5.97 | 0.74 | 6.104 |
| 3,000.00 | 60.00 | 270.24 | 2,781.59 | -159.60 | -328.23 | 327.56 | 0.00 | 0.00 | 0.00 | 0.000 |
| 3,100.00 | 60.00 | 270.24 | 2,831.59 | -159.24 | -414.83 | 414.16 | 0.00 | 0.00 | 0.00 | 0.000 |
| 3,153.80 | 60.00 | 270.24 | 2,858.49 | -159.05 | -461.43 | 460.76 | 0.00 | 0.00 | 0.00 | 0.000 |
| 3,200.00 | 64.62 | 270.24 | 2,879.95 | -158.88 | -502.32 | 501.65 | 10.00 | 10.00 | 0.00 | 0.000 |
| 3,250.00 | 69.62 | 270.24 | 2,899.39 | -158.69 | -548.37 | 547.70 | 10.00 | 10.00 | 0.00 | 0.000 |
| 3,300.00 | 74.62 | 270.24 | 2,914.73 | -158.50 | -595.94 | 595.27 | 10.00 | 10.00 | 0.00 | 0.000 |
| 3,350.00 | 79.62 | 270.24 | 2,925.87 | -158.30 | -644.67 | 644.00 | 10.00 | 10.00 | 0.00 | 0.000 |
| 3,400.00 | 84.62 | 270.24 | 2,932.73 | -158.09 | -694.18 | 693.51 | 10.00 | 10.00 | 0.00 | 0.000 |
| 3,450.00 | 89.62 | 270.24 | 2,935.24 | -157.89 | -744.10 | 743.43 | 10.00 | 10.00 | 0.00 | 0.000 |
| 3,470.80 | 91.70 | 270.24 | 2,935.00 | -157.80 | -764.90 | 764.23 | 10.00 | 10.00 | 0.00 | 0.000 |

ENERGY PARTNERS

Wellbenders

Standard Plan With Toolface

Company: Spur Energy Partners, LLC

Project: Eddy County, NM (NAD 83 - NME)

Site: Nirvana Well: #1H Wellbore: ОН Design: Plan #1

Local Co-ordinate Reference:

RKB=20' @ 3390.00usft (Akita 57)

TVD Reference: RKB=20' @ 3390.00usft (Akita 57) MD Reference:

Well #1H

North Reference: Grid

Survey Calculation Method: Minimum Curvature Database: WBDS_SQL_2

| Planned Survey | | | | | | | | | | |
|----------------|------------|----------------------|---------------|---------------|---------------|------------------|-------------------|--------------------|-------------------|--------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100ft) | Build (°/100ft) | Turn (°/100ft) | TFace (°) |
| 3,500.00 | 91.70 | 270.24 | 2,934.13 | -157.68 | -794.08 | 793.42 | 0.00 | 0.00 | 0.00 | 0.000 |
| 3,600.00 | 91.70 | 270.24 | 2,931.17 | -157.27 | -894.04 | 893.37 | 0.00 | 0.00 | 0.00 | 0.000 |
| 3,700.00 | 91.70 | 270.24 | 2,928.20 | -156.85 | -993.99 | 993.33 | 0.00 | 0.00 | 0.00 | 0.000 |
| 3,800.00 | 91.70 | 270.24 | 2,925.23 | -156.44 | -1,093.95 | 1,093.28 | 0.00 | 0.00 | 0.00 | 0.000 |
| 3,900.00 | 91.70 | 270.24 | 2,922.27 | -156.03 | -1,193.90 | 1,193.24 | 0.00 | 0.00 | 0.00 | 0.000 |
| 4,000.00 | 91.70 | 270.24 | 2,919.30 | -155.62 | -1,293.86 | 1,293.20 | 0.00 | 0.00 | 0.00 | 0.000 |
| 4,100.00 | 91.70 | 270.24 | 2,916.33 | -155.21 | -1,393.82 | 1,393.15 | 0.00 | 0.00 | 0.00 | 0.000 |
| 4,200.00 | 91.70 | 270.24 | 2,913.37 | -154.79 | -1,493.77 | 1,493.11 | 0.00 | 0.00 | 0.00 | 0.000 |
| 4,300.00 | 91.70 | 270.24 | 2,910.40 | -154.38 | -1,593.73 | 1,593.06 | 0.00 | 0.00 | 0.00 | 0.000 |
| 4,400.00 | 91.70 | 270.24 | 2,907.43 | -153.97 | -1,693.68 | 1,693.02 | 0.00 | 0.00 | 0.00 | 0.000 |
| 4,500.00 | 91.70 | 270.24 | 2,904.47 | -153.56 | -1,793.64 | 1,792.98 | 0.00 | 0.00 | 0.00 | 0.000 |
| 4,600.00 | 91.70 | 270.24 | 2,901.50 | -153.14 | -1,893.59 | 1,892.93 | 0.00 | 0.00 | 0.00 | 0.000 |
| 4,700.00 | 91.70 | 270.24 | 2,898.53 | -152.73 | -1,993.55 | 1,992.89 | 0.00 | 0.00 | 0.00 | 0.000 |
| 4,800.00 | 91.70 | 270.24 | 2,895.57 | -152.32 | -2,093.50 | 2,092.84 | 0.00 | 0.00 | 0.00 | 0.000 |
| 4,900.00 | 91.70 | 270.24 | 2,892.60 | -151.91 | -2,193.46 | 2,192.80 | 0.00 | 0.00 | 0.00 | 0.000 |
| 5,000.00 | 91.70 | 270.24 | 2,889.63 | -151.49 | -2,293.41 | 2,292.76 | 0.00 | 0.00 | 0.00 | 0.000 |
| 5,100.00 | 91.70 | 270.24 | 2,886.67 | -151.08 | -2,393.37 | 2,392.71 | 0.00 | 0.00 | 0.00 | 0.000 |
| 5,200.00 | 91.70 | 270.24 | 2,883.70 | -150.67 | -2,493.32 | 2,492.67 | 0.00 | 0.00 | 0.00 | 0.000 |
| 5,300.00 | 91.70 | 270.24 | 2,880.73 | -150.26 | -2,593.28 | 2,592.62 | 0.00 | 0.00 | 0.00 | 0.000 |
| 5,400.00 | 91.70 | 270.24 | 2,877.77 | -149.84 | -2,693.23 | 2,692.58 | 0.00 | 0.00 | 0.00 | 0.000 |
| 5,500.00 | 91.70 | 270.24 | 2,874.80 | -149.43 | -2,793.19 | 2,792.54 | 0.00 | 0.00 | 0.00 | 0.000 |
| 5,600.00 | 91.70 | 270.24 | 2,871.83 | -149.02 | -2,893.14 | 2,892.49 | 0.00 | 0.00 | 0.00 | 0.000 |
| 5,700.00 | 91.70 | 270.24 | 2,868.87 | -148.61 | -2,993.10 | 2,992.45 | 0.00 | 0.00 | 0.00 | 0.000 |
| 5,800.00 | 91.70 | 270.24 | 2,865.90 | -148.20 | -3,093.05 | 3,092.40 | 0.00 | 0.00 | 0.00 | 0.000 |
| 5,900.00 | 91.70 | 270.24 | 2,862.93 | -147.78 | -3,193.01 | 3,192.36 | 0.00 | 0.00 | 0.00 | 0.000 |
| 6,000.00 | 91.70 | 270.24 | 2,859.97 | -147.37 | -3,292.96 | 3,292.32 | 0.00 | 0.00 | 0.00 | 0.000 |
| 6,100.00 | 91.70 | 270.24 | 2,857.00 | -146.96 | -3,392.92 | 3,392.27 | 0.00 | 0.00 | 0.00 | 0.000 |

SPUR ENERGY PARTNERS

Wellbenders

Standard Plan With Toolface

Company: Spur Energy Partners, LLC

Project: Eddy County, NM (NAD 83 - NME)

Site: Nirvana
Well: #1H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:

Well #1H

TVD Reference:

RKB=20' @ 3390.00usft (Akita 57)

MD Reference: RKB=20' @ 3390.00usft (Akita 57)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: WBDS_SQL_2

| Planned Survey | | | | | | | | | | |
|----------------|------------|----------------------|---------------|---------------|---------------|------------------|-------------------|--------------------|-------------------|--------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100ft) | Build (°/100ft) | Turn (°/100ft) | TFace (°) |
| 6,200.00 | 91.70 | 270.24 | 2,854.03 | -146.55 | -3,492.87 | 3,492.23 | 0.00 | 0.00 | 0.00 | 0.000 |
| 6,300.00 | 91.70 | 270.24 | 2,851.07 | -146.13 | -3,592.83 | 3,592.18 | 0.00 | 0.00 | 0.00 | 0.000 |
| 6,400.00 | 91.70 | 270.24 | 2,848.10 | -145.72 | -3,692.78 | 3,692.14 | 0.00 | 0.00 | 0.00 | 0.000 |
| 6,500.00 | 91.70 | 270.24 | 2,845.14 | -145.31 | -3,792.74 | 3,792.10 | 0.00 | 0.00 | 0.00 | 0.000 |
| 6,600.00 | 91.70 | 270.24 | 2,842.17 | -144.90 | -3,892.69 | 3,892.05 | 0.00 | 0.00 | 0.00 | 0.000 |
| 6,700.00 | 91.70 | 270.24 | 2,839.20 | -144.48 | -3,992.65 | 3,992.01 | 0.00 | 0.00 | 0.00 | 0.000 |
| 6,800.00 | 91.70 | 270.24 | 2,836.24 | -144.07 | -4,092.60 | 4,091.96 | 0.00 | 0.00 | 0.00 | 0.000 |
| 6,900.00 | 91.70 | 270.24 | 2,833.27 | -143.66 | -4,192.56 | 4,191.92 | 0.00 | 0.00 | 0.00 | 0.000 |
| 7,000.00 | 91.70 | 270.24 | 2,830.30 | -143.25 | -4,292.51 | 4,291.88 | 0.00 | 0.00 | 0.00 | 0.000 |
| 7,100.00 | 91.70 | 270.24 | 2,827.34 | -142.83 | -4,392.47 | 4,391.83 | 0.00 | 0.00 | 0.00 | 0.000 |
| 7,200.00 | 91.70 | 270.24 | 2,824.37 | -142.42 | -4,492.42 | 4,491.79 | 0.00 | 0.00 | 0.00 | 0.000 |
| 7,300.00 | 91.70 | 270.24 | 2,821.40 | -142.01 | -4,592.38 | 4,591.74 | 0.00 | 0.00 | 0.00 | 0.000 |
| 7,400.00 | 91.70 | 270.24 | 2,818.44 | -141.60 | -4,692.33 | 4,691.70 | 0.00 | 0.00 | 0.00 | 0.000 |
| 7,500.00 | 91.70 | 270.24 | 2,815.47 | -141.19 | -4,792.29 | 4,791.66 | 0.00 | 0.00 | 0.00 | 0.000 |
| 7,600.00 | 91.70 | 270.24 | 2,812.50 | -140.77 | -4,892.24 | 4,891.61 | 0.00 | 0.00 | 0.00 | 0.000 |
| 7,700.00 | 91.70 | 270.24 | 2,809.54 | -140.36 | -4,992.20 | 4,991.57 | 0.00 | 0.00 | 0.00 | 0.000 |
| 7,800.00 | 91.70 | 270.24 | 2,806.57 | -139.95 | -5,092.16 | 5,091.52 | 0.00 | 0.00 | 0.00 | 0.000 |
| 7,900.00 | 91.70 | 270.24 | 2,803.60 | -139.54 | -5,192.11 | 5,191.48 | 0.00 | 0.00 | 0.00 | 0.000 |
| 8,000.00 | 91.70 | 270.24 | 2,800.64 | -139.12 | -5,292.07 | 5,291.44 | 0.00 | 0.00 | 0.00 | 0.000 |
| 8,100.00 | 91.70 | 270.24 | 2,797.67 | -138.71 | -5,392.02 | 5,391.39 | 0.00 | 0.00 | 0.00 | 0.000 |
| 8,200.00 | 91.70 | 270.24 | 2,794.70 | -138.30 | -5,491.98 | 5,491.35 | 0.00 | 0.00 | 0.00 | 0.000 |
| 8,300.00 | 91.70 | 270.24 | 2,791.74 | -137.89 | -5,591.93 | 5,591.30 | 0.00 | 0.00 | 0.00 | 0.000 |
| 8,400.00 | 91.70 | 270.24 | 2,788.77 | -137.47 | -5,691.89 | 5,691.26 | 0.00 | 0.00 | 0.00 | 0.000 |
| 8,500.00 | 91.70 | 270.24 | 2,785.80 | -137.06 | -5,791.84 | 5,791.22 | 0.00 | 0.00 | 0.00 | 0.000 |
| 8,600.00 | 91.70 | 270.24 | 2,782.84 | -136.65 | -5,891.80 | 5,891.17 | 0.00 | 0.00 | 0.00 | 0.000 |
| 8,700.00 | 91.70 | 270.24 | 2,779.87 | -136.24 | -5,991.75 | 5,991.13 | 0.00 | 0.00 | 0.00 | 0.000 |
| 8,800.00 | 91.70 | 270.24 | 2,776.90 | -135.82 | -6,091.71 | 6,091.08 | 0.00 | 0.00 | 0.00 | 0.000 |

SPUR ENERGY PARTNERS

Wellbenders

Standard Plan With Toolface

Company: Spur Energy Partners, LLC

Project: Eddy County, NM (NAD 83 - NME)

Site: Nirvana
Well: #1H
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Local Co-ordinate Reference:

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TVD Reference:

RKB=20' @ 3390.00usft (Akita 57)

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North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: WBDS_SQL_2

| Planned Survey | | | | | | | | | | |
|----------------|------------|----------------------|---------------|---------------|---------------|------------------|-------------------|--------------------|-------------------|--------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100ft) | Build (°/100ft) | Turn (°/100ft) | TFace (°) |
| 8,900.00 | 91.70 | 270.24 | 2,773.94 | -135.41 | -6,191.66 | 6,191.04 | 0.00 | 0.00 | 0.00 | 0.000 |
| 9,000.00 | 91.70 | 270.24 | 2,770.97 | -135.00 | -6,291.62 | 6,291.00 | 0.00 | 0.00 | 0.00 | 0.000 |
| 9,100.00 | 91.70 | 270.24 | 2,768.00 | -134.59 | -6,391.57 | 6,390.95 | 0.00 | 0.00 | 0.00 | 0.000 |
| 9,200.00 | 91.70 | 270.24 | 2,765.04 | -134.18 | -6,491.53 | 6,490.91 | 0.00 | 0.00 | 0.00 | 0.000 |
| 9,300.00 | 91.70 | 270.24 | 2,762.07 | -133.76 | -6,591.48 | 6,590.86 | 0.00 | 0.00 | 0.00 | 0.000 |
| 9,400.00 | 91.70 | 270.24 | 2,759.10 | -133.35 | -6,691.44 | 6,690.82 | 0.00 | 0.00 | 0.00 | 0.000 |
| 9,500.00 | 91.70 | 270.24 | 2,756.14 | -132.94 | -6,791.39 | 6,790.78 | 0.00 | 0.00 | 0.00 | 0.000 |
| 9,600.00 | 91.70 | 270.24 | 2,753.17 | -132.53 | -6,891.35 | 6,890.73 | 0.00 | 0.00 | 0.00 | 0.000 |
| 9,700.00 | 91.70 | 270.24 | 2,750.20 | -132.11 | -6,991.30 | 6,990.69 | 0.00 | 0.00 | 0.00 | 0.000 |
| 9,800.00 | 91.70 | 270.24 | 2,747.24 | -131.70 | -7,091.26 | 7,090.64 | 0.00 | 0.00 | 0.00 | 0.000 |
| 9,900.00 | 91.70 | 270.24 | 2,744.27 | -131.29 | -7,191.21 | 7,190.60 | 0.00 | 0.00 | 0.00 | 0.000 |
| 9,914.39 | 91.70 | 270.24 | 2,743.84 | -131.23 | -7,205.60 | 7,204.99 | 0.00 | 0.00 | 0.00 | 0.000 |
| 9,994.33 | 91.70 | 270.24 | 2,741.47 | -130.90 | -7,285.50 | 7,284.89 | 0.00 | 0.00 | 0.00 | 0.000 |

| Checked By: | Approved By: | Date: |
|-------------|--------------|-------|
| | . 46 | |



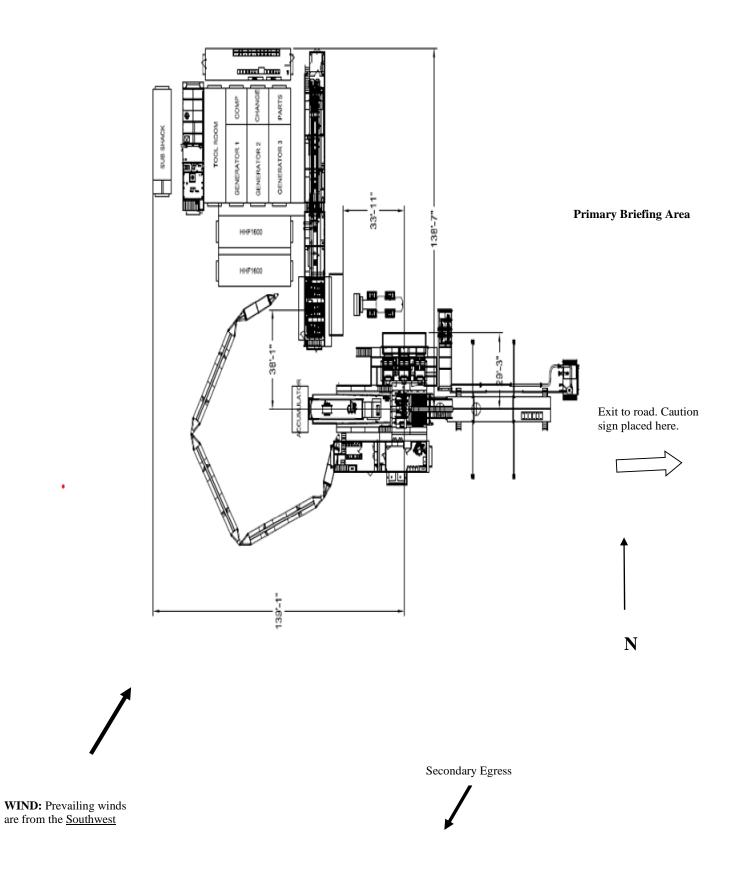
Permian Drilling Hydrogen Sulfide Drilling Operations Plan Nirvana 1H

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



| Inten | t | As Dril | led | | | | | | | | | | |
|--------------------|-------------------------|--------------|-------------|---------|-----------------------|--------------|-------|---------|--------|-------|--------|-------------|---------------|
| API # | : | | | | | | | | | | | | |
| Operator Name: | | | | | Property N | ame | : | | | | | Well Number | |
| Kick (| Off Point | (KOB) | | | | | | | | | | | |
| UL | Section | Township | Range | Lot | Feet | From N | I/S | Feet | | From | E/W | County | |
| Latitu | ude | | | | Longitu | ıde | | | | | | NAD | |
| First ⁻ | Take Poir | t (FTP) | Range | Lot | Feet | From N | I/S | Feet | | From | F/W | County | |
| Latitu | | 1 SWIISIII P | nange | | Longitu | | ., 3 | 1101 | | | NAD | | |
| | | | | | | | | | | | | | |
| Last 1 | ake Poin | t (LTP) | | | | | | | | | | | |
| UL | Section | Township | Range | Lot | Feet | From N/S | Feet | : | From E | /W | Count | y | |
| Latitu | ıde | | | | Longitu | ıde | | | | | NAD | | |
| | | | | | | | | | | | | | |
| Is this | s well the | defining v | vell for th | ne Hori | zontal S _l | pacing Unit? | | |] | | | | |
| | | | | | | | | | | | | | |
| Is this | s well an | infill well? | | | | | | | | | | | |
| | ll is yes p ng Unit. | lease provi | ide API if | availal | ole, Ope | rator Name | and v | vell ni | umber | for D | efinir | ng well fo | r Horizontal |
| API # | : | | | | | | | | | | | | |
| Ope | rator Nai | ne: | 1 | | | Property N | ame | : | | | | | Well Number |
| | | | | | | | | | | | | | V7.06/20/2011 |

KZ 06/29/2018

1. Geologic Formations

| TVD of target | 2675' | Pilot Hole Depth | N/A |
|---------------|-------|-------------------------------|------|
| MD at TD: | 9954' | Deepest Expected fresh water: | 397' |

Delaware Basin

| Formation | TVD - RKB | Expected Fluids |
|------------------|-----------|------------------------|
| San Andres Upper | 910 | Losses |
| Glorieta Top | 2,483 | Losses |
| Yeso | 2,597 | Oil/Gas |
| Yeso Target | 2935 | Oil/Gas |

^{*}H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program

Buoyant Buoyant

| Hole | Casing 1 | Interval | Csg. | Weight | | | SF | | Body SF | Joint SF |
|-------|-----------|----------|-----------|--------|-------|-------|----------|------------|----------------|----------|
| | From (ft) | To (ft) | Size (in) | (lbs) | Grade | Conn. | Collapse | SF Burst | Tension | Tension |
| 12.25 | 0 | 1200 | 9.625 | 36 | J-55 | BTC | 1.125 | 1.2 | 1.4 | 1.4 |
| 8.75 | 0 | 3200 | 7 | 32 | L-80 | BTC | 1.125 | 1.2 | 1.4 | 1.4 |
| 8.75 | 3200 | 9954 | 5.5 | 20 | L-80 | BK-HT | 1.125 | 1.2 | 1.4 | 1.4 |
| | | | | | | | | | | |
| | | | | | | | SF V | alues will | meet or Ex | ceed |

| | 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. | Y |
| 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? | N/A |
| Is well located within Capitan Reef? | N |
| If yes, does production casing cement tie back a minimum of 50' above the Reef? | |
| Is well within the designated 4 string boundary. | |
| Is well located in SOPA but not in R-111-P? | N |
| If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing? | |
| Is well located in R-111-P and SOPA? | N |
| If yes, are the first three strings cemented to surface? | |
| Is 2 nd string set 100' to 600' below the base of salt? | |
| Is well located in high Cave/Karst? | N |
| If yes, are there two strings cemented to surface? | N |
| (For 2 string wells) If yes, is there a contingency casing if lost circulation occurs? | |
| Is well located in critical Cave/Karst? | N |
| If yes, are there three strings cemented to surface? | |

3. Cementing Program

| Casing String | # Sks | Wt. (lb/gal) | Yld (ft³/sack) | $ m H_20$ (gal/sk) | 500# Comp. Strength (hours) | Slurry Description |
|-------------------|-------|-----------------|-----------------|----------------------|-----------------------------------|-----------------------------|
| Surface (Lead) | 380 | 12.8 | 1.65 | 8.19 | 10:25 | 35/65 Poz C |
| Surface (Tail) | 170 | 14.8 | 1.33 | 6.32 | 6:40 | Class C Cement, Accelerator |
| Production (Lead) | 690 | 12.8 | 2.63 | 9.7 | N/A | 50/50 Poz C |
| Production (Tail) | 1273 | 14.8 | 1.38 | 6.686 | N/A | 50/50 Poz C |

| Casing String | Top (ft) | Bottom (ft) | % Excess |
|-------------------|----------|-------------|----------|
| Surface (Lead) | 0 | 950 | 100% |
| Surface (Tail) | 950 | 1200 | 165% |
| Production (Lead) | 0 | 5500 | 0% |
| Production (Tail) | 5500 | 9954 | 50% |

4. Pressure Control Equipment

| BOP installed and tested before drilling which hole? | Size? | Min. Required WP | Туре | | ✓ | Tested to: |
|--|---------|------------------------|------------|---------|----------|-------------------------|
| | | 3M | Annula | Annular | | 70% of working pressure |
| 12.25" Hole | 13-5/8" | | Blind Ra | ım | ✓ | • |
| 12.25" Hole | | 3M | Pipe Ram | | ✓ | 250 mgi / 2000 mgi |
| | | | Double Ram | | | 250 psi / 3000 psi |
| | | | Other* | | | |
| | | 3M | Annula | r | ~ | 70% of working pressure |
| 8.75" Hole | 13-5/8" | | Blind Ram | | ✓ | |
| | | 3M | Pipe Ram | | ✓ | 250: / 2000: |
| | | SIVI | Double Ram | | | 250 psi / 3000 psi |
| | | | Other* | | | |

^{*}Specify if additional ram is utilized.

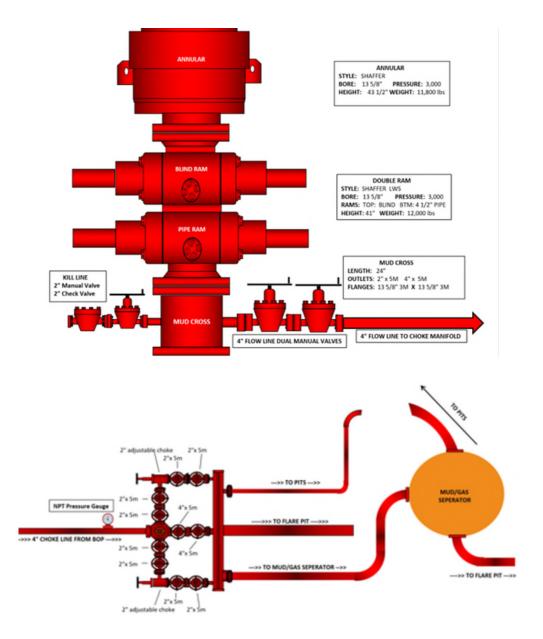
Spur will utilize a 5M annular with a 5M BOPE stack. The BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in 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.

A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.

Y Are anchors required by manufacturer?

A multibowl or a unionized multibowl 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. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015. See attached schematics.



The buffer tank and panic line will not be connected at any point during drilling operations.

Required safety valves, with appropriate wrenches and subs for the drill string being utilized, will be in the open position and accessible on the rig floor.

BOP Break Testing Request

Spur requests permission to adjust the BOP break testing requirements. 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 is set into the third Bone Spring or shallower.

• When skidding to drill a production section that does not penetrate into the third Bone Spring or deeper.

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

- 1) The void between the wellhead and the pipe rams
- 2) The kill lines and the choke manifold

If the kill line is not broken prior to skid, only one test will be performed.

1) The void between the wellhead and the pipe rams

5. Mud Program

| Depth | | Temo | Weight | Viggasita | Woton Logg | |
|-----------|---------|-----------------|---------|-----------|------------|--|
| From (ft) | To (ft) | Туре | (ppg) | Viscosity | Water Loss | |
| 0 | 1200 | Water-Based Mud | 8.6-8.9 | 32-36 | N/C | |
| 1200 | 9954 | Water-Based Mud | 8.6-8.9 | 32-36 | N/C | |

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.

| What will be used to monitor the loss or gain of fluid? | PVT/MD Totco/Visual Monitoring |
|---|---|
| What will be used to monitor the loss of gain of fluid: | 1 V 1/1VID TOLEO/ V ISUAI IVIOIIILOTING |

6. Logging and Testing Procedures

| Logg | 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 Comp | letion Report and submitted to the Bl | LM. | | | |
| No | Logs are planned based on well control or offset log information. | | | | | |
| No | Drill stem test? If yes, explain | | | | | |
| No | Coring? If yes, explain | | | | | |
| Addi | tional logs planned | Interval | | | | |
| No | Resistivity | | | | | |
| No | Density | | | | | |
| No | CBL | | | | | |
| Yes | Mud log | SCP - TD | | | | |
| No | PEX | | | | | |

7. Drilling Conditions

| Condition | Specify what type and where? |
|-------------------------------|------------------------------|
| BH Pressure at deepest TVD | 1238 psi |
| Abnormal Temperature | No |
| BH Temperature at deepest TVD | 102°F |

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 |

8. Other facets of operation

| | Yes/No |
|--|--------|
| Will the well be drilled with a walking/skidding operation? If yes, describe. | |
| • We plan to drill the two well pad in batch by section: all surface sections, | |
| and production sections. The wellhead will be secured with a night cap | |
| whenever the rig is not over the well. | |
| Will more than one drilling rig be used for drilling operations? If yes, describe. | |

Total estimated cuttings volume: 915.3 bbls.

Attachments

- _x__ Directional Plan
- _x__ H2S Contingency Plan
- _x__ Rig Attachments
- _x__ Premium Connection Specs

9. Company Personnel

| Name | <u>Title</u> | Office Phone | Mobile Phone |
|--------------------|------------------|--------------|--------------|
| Christopher Hollis | Drilling Manager | 832-930-8629 | 713-380-7754 |
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