

Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Revised July 18, 2013

Form with fields: WELL API NO., 5. Indicate Type of Lease (STATE, FEE), 6. State Oil & Gas Lease No., 7. Lease Name or Unit Agreement Name, 8. Well Number, 9. OGRID Number, 10. Pool name or Wildcat, 11. Elevation, 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data.

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK, PLUG AND ABANDON, TEMPORARILY ABANDON, CHANGE PLANS, PULL OR ALTER CASING, MULTIPLE COMPL, DOWNHOLE COMMINGLE, CLOSED-LOOP SYSTEM, OTHER: Change Well Name and surface location. SUBSEQUENT REPORT OF: REMEDIAL WORK, ALTERING CASING, COMMENCE DRILLING OPNS., P AND A, CASING/CEMENT JOB, OTHER.

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

The purpose of this C-103A is change the well name from Caveman 7-12 WCXY 2H to Caveman 402H. Also, we would like to change the surface location from 2271 FNL, 240 FWL, Unit E, Section 8, 22S, 27E, Elevation 3099' To 2420 FNL, 188 FEL, Unit H, Section 7, 22S, 27E, Elevation 3102'. I have attached a new C-102, and revised Directional Drilling Plan.

Spud Date: []

Rig Release Date: []

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

SIGNATURE [Signature] TITLE VP, Operations DATE

Type or print name Lelan J Anders E-mail address: LAnders@SantoPetroleum.com PHONE: 713-600-7502

For State Use Only

APPROVED BY: John Garcia TITLE Petroleum Specialist DATE 3/12/2021

Conditions of Approval (if any):

New Property ID is 330286

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DISTRICT IV
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 Phone (505) 476-3480 Fax: (505) 476-3482

State of New Mexico
 Energy, Minerals and Natural Resources Department

Form C-102
 Revised August 4, 2011

Submit one copy to appropriate
 District Office

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, New Mexico 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | |
|---------------|--------------------|-------------------------------|
| API Number | Pool Code | Pool Name |
| | 98220 | PURPLE SAGE WOLFCAMP GAS POOL |
| Property Code | Property Name | Well Number |
| | CAVEMAN | 402H |
| OGRID No. | Operator Name | Elevation |
| | SPC RESOURCES, LLC | 3102' |

Surface Location

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | SOUTH/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| H | 7 | 22 S | 27 E | | 2420 | NORTH | 188 | EAST | EDDY |

Bottom Hole Location If Different From Surface

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | SOUTH/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| E | 12 | 22 S | 26 E | | 1650 | NORTH | 100 | WEST | EDDY |

| | | | |
|-----------------|-----------------|--------------------|-----------|
| Dedicated Acres | Joint or Infill | Consolidation Code | Order No. |
| 1267.10 | | | |

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

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and 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 such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date _____

Printed Name _____

Email Address _____

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

FEBRUARY 2021
 GARY JONES
 NEW MEXICO
 PROFESSIONAL SURVEYOR
 7977

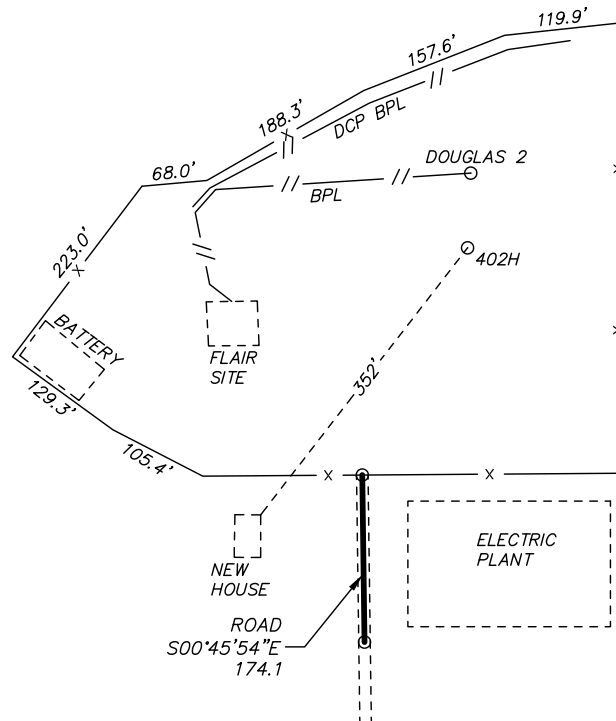
Date Surveyed _____
 Signature & Seal of Professional Surveyor _____

Certificate No. GARY JONES 7977
 BASIN SURVEYS

0' 1000' 2000' 3000' 4000' N
 SCALE: 1" = 2000'
 WO Num.: 34729

| | | | |
|-----------------------------|------------------------|-------------------------|-------------------------|
| BOTTOM HOLE LOCATION | LAST TAKE POINT | FIRST TAKE POINT | SURFACE LOCATION |
| Lat - N 32.410061 | 1650 FNL & 330 FWL | 1650 FNL & 330 FEL | Lat - N 32.408132 |
| Long - W 104.254726 | Lat - N 32.410039 | Lat - N 32.410231 | Long - W 104.220836 |
| NMSPCE - N 512920.2 | Long - W 104.253981 | Long - W 104.221300 | NMSPCE - N 512227.9 |
| E 565595.8 | NMSPCE - N 512912.4 | NMSPCE - N 512991.2 | E 576054.9 |
| (NAD-83) | E 565826.0 | E 575910.6 | (NAD-83) |
| | (NAD-83) | (NAD-83) | |

SECTION 7, TOWNSHIP 22 SOUTH, RANGE 27 EAST. N.M.P.M.,
LEA COUNTY, NEW MEXICO.



SPC RESOURCES, LLC
CAVEMAN 402H
ELEV. - 3102'
Lat - N 32.408132
Long - W 104.220836
NMSPCE - N 512227.9
E 576054.9
(NAD-83)



CARLSBAD, NM IS ±1 MILES TO THE NORTHWEST OF LOCATION.
200 0 200 400 FEET
SCALE: 1" = 200'

SPC RESOURCES, LLC

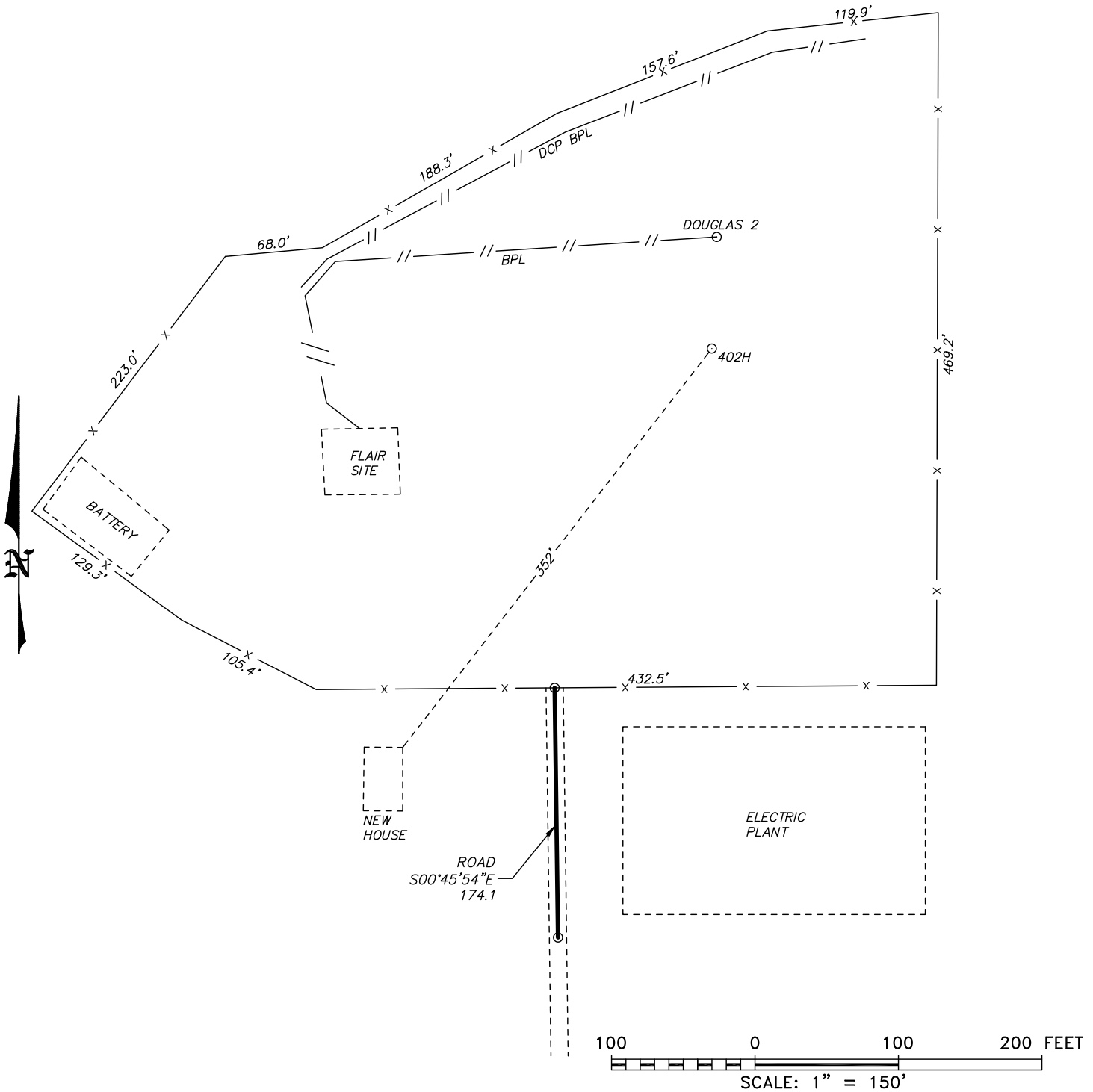
REF: CAVEMAN 402H / WELL PAD TOPO

THE CAVEMAN 402H LOCATED 2420' FROM
THE NORTH LINE AND 188' FROM THE EAST LINE OF
SECTION 7, TOWNSHIP 22 SOUTH, RANGE 27 EAST.
N.M.P.M., EDDY COUNTY, NEW MEXICO.

basin surveys
focused on excellence
in the oilfield

P.O. Box 1786 (575) 393-7316 - Office
1120 N. West County Rd. (575) 392-2206 - Fax
Hobbs, New Mexico 88241 basin-surveys.com

SECTION 7, TOWNSHIP 22 SOUTH, RANGE 27 EAST. N.M.P.M.,
LEA COUNTY, NEW MEXICO.



SPC RESOURCES, LLC

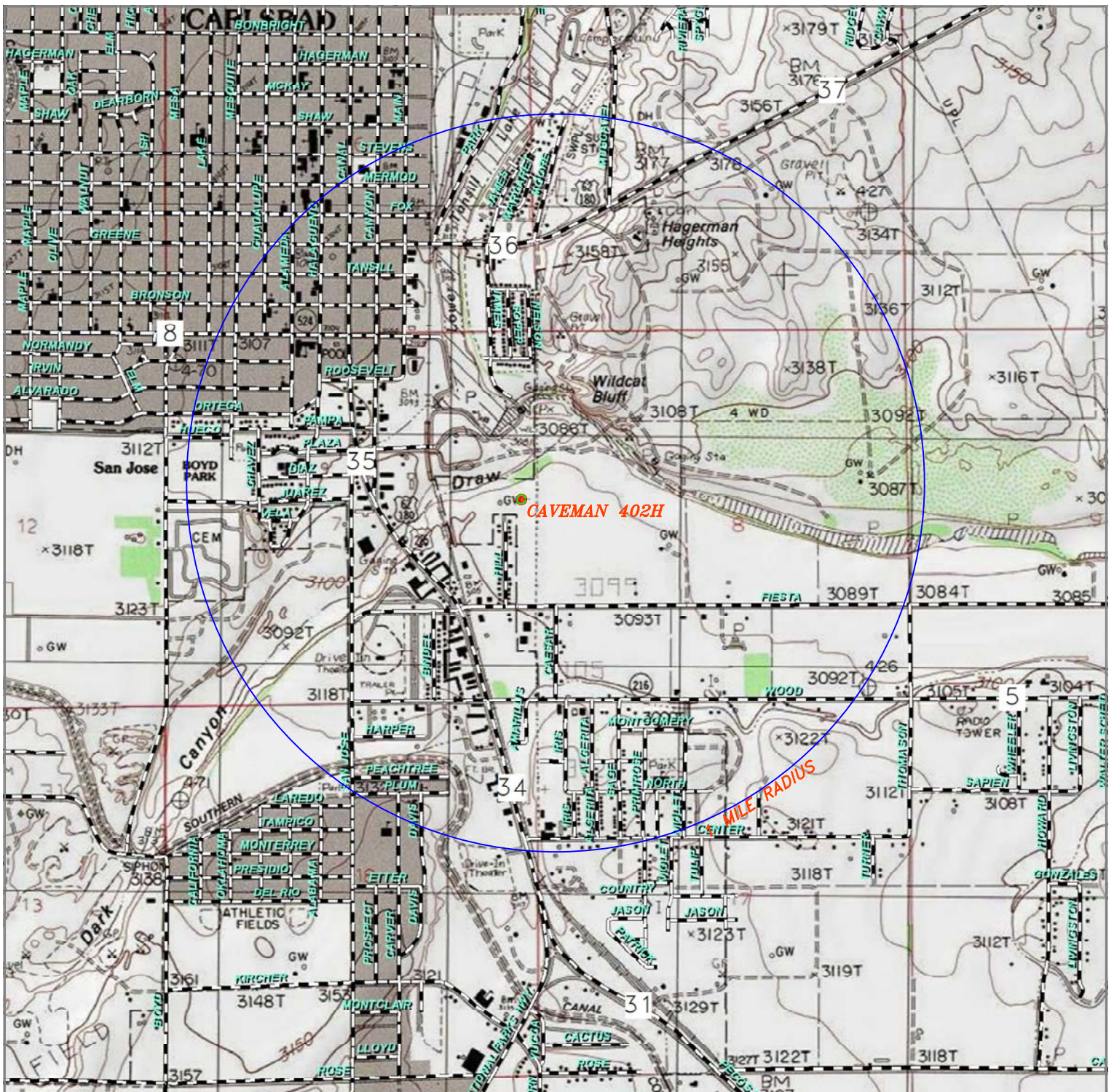
REF: CAVEMAN 402H / WELL PAD TOPO

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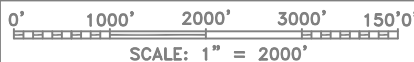


CAVEMAN 402H

Located 2420' FNL and 188' FEL
 Section 7, Township 22 South, Range 27 East,
 N.M.P.M., Eddy County, New Mexico.



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 Hobbs, New Mexico 88241
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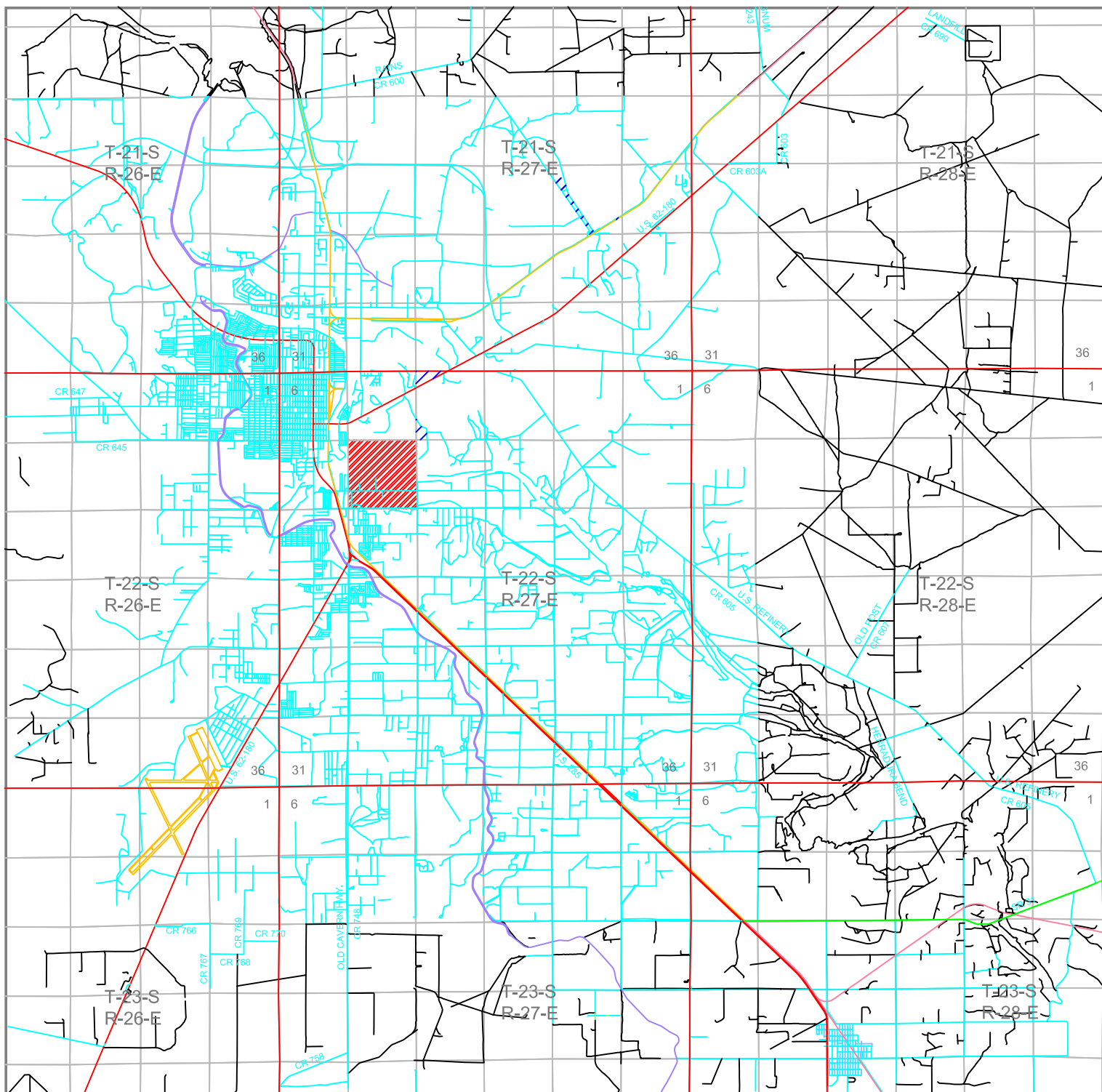
W.O. Number: JG 34729

Survey Date: 7-31-2019

YELLOW TINT - USA LAND
 BLUE TINT - STATE LAND
 NATURAL COLOR - FEE LAND



SPC
RESOURCES,
LLC

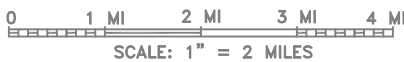


CAVEMAN 402H

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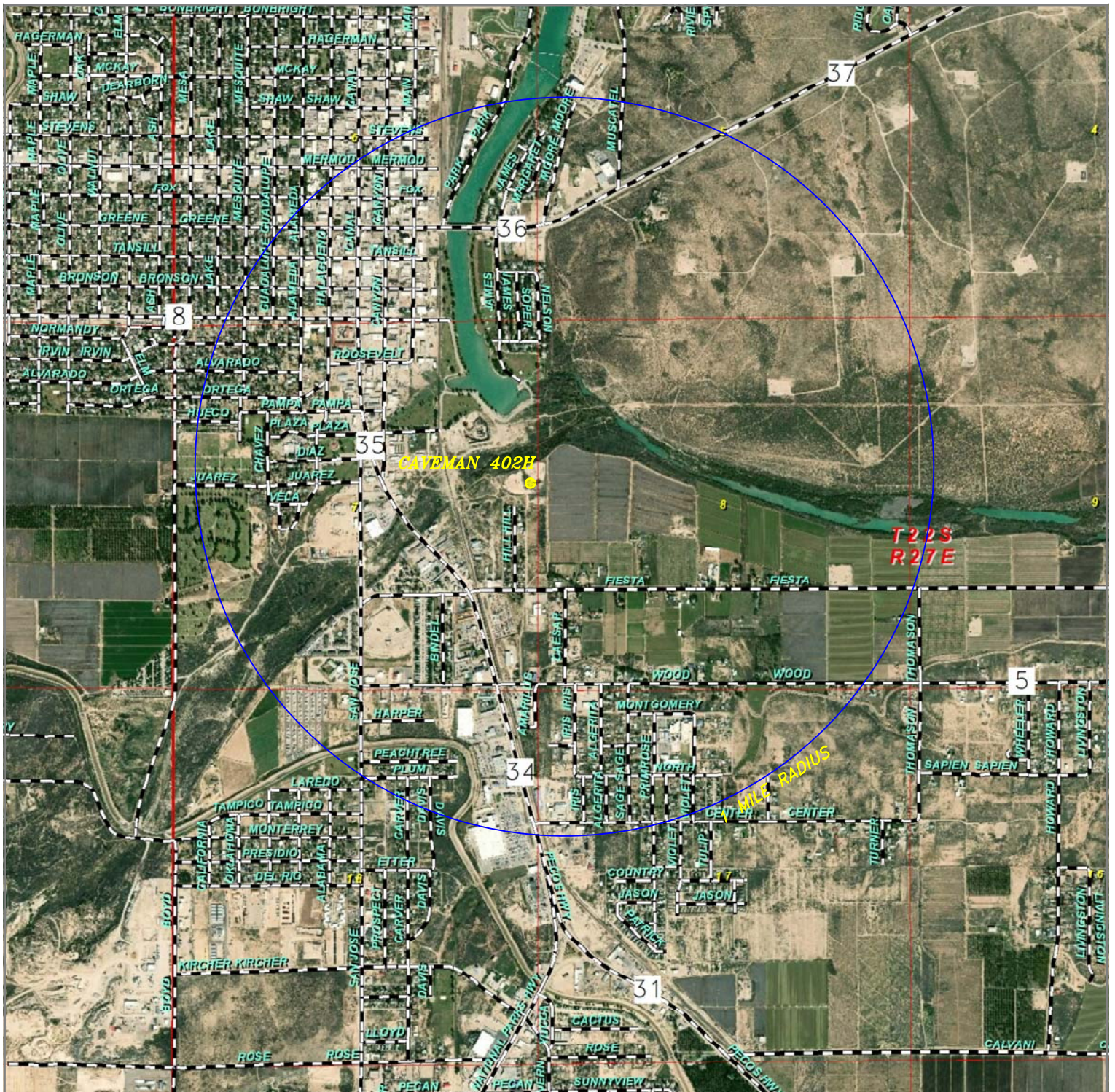
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SPC
RESOURCES,
LLC

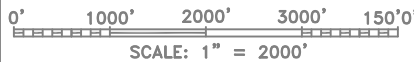


CAVEMAN 402H

Located 2420' FNL and 188' FEL
 Section 7, Township 22 South, Range 27 East,
 N.M.P.M., Eddy County, New Mexico.



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YELLOW TINT - USA LAND
 BLUE TINT - STATE LAND
 NATURAL COLOR - FEE LAND



SPC
RESOURCES,
LLC



Santo Petroleum

Eddy County, NM (NAD 83 - NME)

Caveman 7-12

#402H

ST01

Plan: ST01: Plan #4

Standard Planning Report

08 March, 2021





Planning Report

| | | | |
|------------------|--------------------------------|-------------------------------------|-------------------------|
| Database: | WBDS_SQL_2 | Local Co-ordinate Reference: | Well #402H |
| Company: | Santo Petroleum | TVD Reference: | RKB = 25' @ 3127.00usft |
| Project: | Eddy County, NM (NAD 83 - NME) | MD Reference: | RKB = 25' @ 3127.00usft |
| Site: | Caveman 7-12 | North Reference: | Grid |
| Well: | #402H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ST01 | | |
| Design: | ST01: Plan #4 | | |

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

| | | | | | |
|------------------------------|--------------|---------------------|-----------------|--------------------------|-------------|
| Site | Caveman 7-12 | | | | |
| Site Position: | | Northing: | 512,385.60 usft | Latitude: | 32.408564 |
| From: | Map | Easting: | 576,482.00 usft | Longitude: | -104.219452 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13.200 in | Grid Convergence: | 0.061 ° |

| | | | | | | |
|-----------------------------|--------------|--------------|----------------------------|-----------------|----------------------|---------------|
| Well | #402H | | | | | |
| Well Position | +N/-S | -157.62 usft | Northing: | 512,227.98 usft | Latitude: | 32.408132 |
| | +E/-W | -427.02 usft | Easting: | 576,054.99 usft | Longitude: | -104.220836 |
| Position Uncertainty | | 0.00 usft | Wellhead Elevation: | | Ground Level: | 3,102.00 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | ST01 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2020 | 3/10/2021 | 6.890 | 59.979 | 47,564.95128308 |

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| Design | ST01: Plan #4 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 8,272.68 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
| | 0.00 | 0.00 | 0.00 | 269.61 |

| | | | | |
|---------------------------------|------------------------|--------------------------|----------------------|-----------------------------------|
| Plan Survey Tool Program | Date | 3/8/2021 | | |
| Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks |
| 1 | 8,272.68 | 19,220.06 | ST01: Plan #4 (ST01) | MWD+IGRF OWSG MWD + IGRF or WM |

| Plan Sections | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-----------------------|----------------------|---------------------|---------|------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
| 8,272.68 | 0.00 | 0.00 | 8,224.04 | 765.32 | 160.09 | 0.00 | 0.00 | 0.00 | 0.000 | |
| 9,173.85 | 90.12 | 269.61 | 8,797.00 | 761.37 | -414.02 | 10.00 | 10.00 | -10.03 | 269.606 | |
| 16,035.02 | 90.12 | 269.61 | 8,783.00 | 714.14 | -7,275.02 | 0.00 | 0.00 | 0.00 | 0.000 | Caveman #402H D |
| 16,093.59 | 91.29 | 269.61 | 8,782.28 | 713.74 | -7,333.58 | 2.00 | 2.00 | 0.00 | -0.002 | |
| 19,220.06 | 91.29 | 269.61 | 8,712.00 | 692.22 | -10,459.18 | 0.00 | 0.00 | 0.00 | 0.000 | PLAT PBHL: 1650' |



Planning Report

| | | | |
|------------------|--------------------------------|-------------------------------------|-------------------------|
| Database: | WBDS_SQL_2 | Local Co-ordinate Reference: | Well #402H |
| Company: | Santo Petroleum | TVD Reference: | RKB = 25' @ 3127.00usft |
| Project: | Eddy County, NM (NAD 83 - NME) | MD Reference: | RKB = 25' @ 3127.00usft |
| Site: | Caveman 7-12 | North Reference: | Grid |
| Well: | #402H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ST01 | | |
| Design: | ST01: Plan #4 | | |

| Planned Survey | | | | | | | | | | |
|---|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| PLAT #402H SHL: 2420' FNL & 188' FEL | | | | | | | | | | |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 600.00 | 0.00 | 0.00 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 700.00 | 0.00 | 0.00 | 700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 800.00 | 0.00 | 0.00 | 800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 900.00 | 0.00 | 0.00 | 900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,000.00 | 0.00 | 0.00 | 1,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,100.00 | 0.00 | 0.00 | 1,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,200.00 | 0.00 | 0.00 | 1,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,300.00 | 0.00 | 0.00 | 1,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,400.00 | 0.00 | 0.00 | 1,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,500.00 | 0.00 | 0.00 | 1,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,600.00 | 2.00 | 11.81 | 1,599.98 | 1.71 | 0.36 | -0.37 | 2.00 | 2.00 | 0.00 | |
| 1,700.00 | 4.00 | 11.81 | 1,699.84 | 6.83 | 1.43 | -1.48 | 2.00 | 2.00 | 0.00 | |
| 1,800.00 | 6.00 | 11.81 | 1,799.45 | 15.36 | 3.21 | -3.32 | 2.00 | 2.00 | 0.00 | |
| 1,863.06 | 7.26 | 11.81 | 1,862.09 | 22.49 | 4.70 | -4.86 | 2.00 | 2.00 | 0.00 | |
| 1,900.00 | 7.26 | 11.81 | 1,898.73 | 27.06 | 5.66 | -5.84 | 0.00 | 0.00 | 0.00 | |
| 2,000.00 | 7.26 | 11.81 | 1,997.93 | 39.43 | 8.25 | -8.52 | 0.00 | 0.00 | 0.00 | |
| 2,100.00 | 7.26 | 11.81 | 2,097.13 | 51.80 | 10.84 | -11.19 | 0.00 | 0.00 | 0.00 | |
| 2,200.00 | 7.26 | 11.81 | 2,196.33 | 64.17 | 13.42 | -13.86 | 0.00 | 0.00 | 0.00 | |
| 2,300.00 | 7.26 | 11.81 | 2,295.52 | 76.55 | 16.01 | -16.53 | 0.00 | 0.00 | 0.00 | |
| 2,400.00 | 7.26 | 11.81 | 2,394.72 | 88.92 | 18.60 | -19.20 | 0.00 | 0.00 | 0.00 | |
| 2,500.00 | 7.26 | 11.81 | 2,493.92 | 101.29 | 21.19 | -21.88 | 0.00 | 0.00 | 0.00 | |
| 2,600.00 | 7.26 | 11.81 | 2,593.12 | 113.66 | 23.78 | -24.55 | 0.00 | 0.00 | 0.00 | |
| 2,700.00 | 7.26 | 11.81 | 2,692.32 | 126.03 | 26.36 | -27.22 | 0.00 | 0.00 | 0.00 | |
| 2,800.00 | 7.26 | 11.81 | 2,791.51 | 138.40 | 28.95 | -29.89 | 0.00 | 0.00 | 0.00 | |
| 2,900.00 | 7.26 | 11.81 | 2,890.71 | 150.78 | 31.54 | -32.56 | 0.00 | 0.00 | 0.00 | |
| 3,000.00 | 7.26 | 11.81 | 2,989.91 | 163.15 | 34.13 | -35.24 | 0.00 | 0.00 | 0.00 | |
| 3,100.00 | 7.26 | 11.81 | 3,089.11 | 175.52 | 36.72 | -37.91 | 0.00 | 0.00 | 0.00 | |
| 3,200.00 | 7.26 | 11.81 | 3,188.31 | 187.89 | 39.30 | -40.58 | 0.00 | 0.00 | 0.00 | |
| 3,300.00 | 7.26 | 11.81 | 3,287.50 | 200.26 | 41.89 | -43.25 | 0.00 | 0.00 | 0.00 | |
| 3,400.00 | 7.26 | 11.81 | 3,386.70 | 212.63 | 44.48 | -45.93 | 0.00 | 0.00 | 0.00 | |
| 3,500.00 | 7.26 | 11.81 | 3,485.90 | 225.01 | 47.07 | -48.60 | 0.00 | 0.00 | 0.00 | |
| 3,600.00 | 7.26 | 11.81 | 3,585.10 | 237.38 | 49.65 | -51.27 | 0.00 | 0.00 | 0.00 | |
| 3,700.00 | 7.26 | 11.81 | 3,684.30 | 249.75 | 52.24 | -53.94 | 0.00 | 0.00 | 0.00 | |
| 3,800.00 | 7.26 | 11.81 | 3,783.49 | 262.12 | 54.83 | -56.61 | 0.00 | 0.00 | 0.00 | |
| 3,900.00 | 7.26 | 11.81 | 3,882.69 | 274.49 | 57.42 | -59.29 | 0.00 | 0.00 | 0.00 | |
| 4,000.00 | 7.26 | 11.81 | 3,981.89 | 286.86 | 60.01 | -61.96 | 0.00 | 0.00 | 0.00 | |
| 4,100.00 | 7.26 | 11.81 | 4,081.09 | 299.24 | 62.59 | -64.63 | 0.00 | 0.00 | 0.00 | |
| 4,200.00 | 7.26 | 11.81 | 4,180.29 | 311.61 | 65.18 | -67.30 | 0.00 | 0.00 | 0.00 | |
| 4,300.00 | 7.26 | 11.81 | 4,279.48 | 323.98 | 67.77 | -69.97 | 0.00 | 0.00 | 0.00 | |
| 4,400.00 | 7.26 | 11.81 | 4,378.68 | 336.35 | 70.36 | -72.65 | 0.00 | 0.00 | 0.00 | |
| 4,500.00 | 7.26 | 11.81 | 4,477.88 | 348.72 | 72.95 | -75.32 | 0.00 | 0.00 | 0.00 | |
| 4,600.00 | 7.26 | 11.81 | 4,577.08 | 361.09 | 75.53 | -77.99 | 0.00 | 0.00 | 0.00 | |
| 4,700.00 | 7.26 | 11.81 | 4,676.28 | 373.47 | 78.12 | -80.66 | 0.00 | 0.00 | 0.00 | |
| 4,800.00 | 7.26 | 11.81 | 4,775.47 | 385.84 | 80.71 | -83.33 | 0.00 | 0.00 | 0.00 | |
| 4,900.00 | 7.26 | 11.81 | 4,874.67 | 398.21 | 83.30 | -86.01 | 0.00 | 0.00 | 0.00 | |
| 5,000.00 | 7.26 | 11.81 | 4,973.87 | 410.58 | 85.89 | -88.68 | 0.00 | 0.00 | 0.00 | |
| 5,100.00 | 7.26 | 11.81 | 5,073.07 | 422.95 | 88.47 | -91.35 | 0.00 | 0.00 | 0.00 | |



Planning Report

| | | | |
|------------------|--------------------------------|-------------------------------------|-------------------------|
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| Company: | Santo Petroleum | TVD Reference: | RKB = 25' @ 3127.00usft |
| Project: | Eddy County, NM (NAD 83 - NME) | MD Reference: | RKB = 25' @ 3127.00usft |
| Site: | Caveman 7-12 | North Reference: | Grid |
| Well: | #402H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ST01 | | |
| Design: | ST01: Plan #4 | | |

| Planned Survey | | | | | | | | | |
|--|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 5,200.00 | 7.26 | 11.81 | 5,172.27 | 435.32 | 91.06 | -94.02 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 7.26 | 11.81 | 5,271.46 | 447.70 | 93.65 | -96.69 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 7.26 | 11.81 | 5,370.66 | 460.07 | 96.24 | -99.37 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 7.26 | 11.81 | 5,469.86 | 472.44 | 98.83 | -102.04 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 7.26 | 11.81 | 5,569.06 | 484.81 | 101.41 | -104.71 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 7.26 | 11.81 | 5,668.26 | 497.18 | 104.00 | -107.38 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 7.26 | 11.81 | 5,767.45 | 509.55 | 106.59 | -110.05 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 7.26 | 11.81 | 5,866.65 | 521.93 | 109.18 | -112.73 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 7.26 | 11.81 | 5,965.85 | 534.30 | 111.76 | -115.40 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 7.26 | 11.81 | 6,065.05 | 546.67 | 114.35 | -118.07 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 7.26 | 11.81 | 6,164.25 | 559.04 | 116.94 | -120.74 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 7.26 | 11.81 | 6,263.45 | 571.41 | 119.53 | -123.42 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 7.26 | 11.81 | 6,362.64 | 583.78 | 122.12 | -126.09 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 7.26 | 11.81 | 6,461.84 | 596.16 | 124.70 | -128.76 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 7.26 | 11.81 | 6,561.04 | 608.53 | 127.29 | -131.43 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 7.26 | 11.81 | 6,660.24 | 620.90 | 129.88 | -134.10 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 7.26 | 11.81 | 6,759.44 | 633.27 | 132.47 | -136.78 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 7.26 | 11.81 | 6,858.63 | 645.64 | 135.06 | -139.45 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 7.26 | 11.81 | 6,957.83 | 658.01 | 137.64 | -142.12 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 7.26 | 11.81 | 7,057.03 | 670.39 | 140.23 | -144.79 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 7.26 | 11.81 | 7,156.23 | 682.76 | 142.82 | -147.46 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 7.26 | 11.81 | 7,255.43 | 695.13 | 145.41 | -150.14 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 7.26 | 11.81 | 7,354.62 | 707.50 | 148.00 | -152.81 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 7.26 | 11.81 | 7,453.82 | 719.87 | 150.58 | -155.48 | 0.00 | 0.00 | 0.00 |
| 7,600.00 | 7.26 | 11.81 | 7,553.02 | 732.24 | 153.17 | -158.15 | 0.00 | 0.00 | 0.00 |
| 7,685.57 | 7.26 | 11.81 | 7,637.91 | 742.83 | 155.39 | -160.44 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 6.97 | 11.81 | 7,652.22 | 744.58 | 155.75 | -160.82 | 2.00 | -2.00 | 0.00 |
| 7,800.00 | 4.97 | 11.81 | 7,751.67 | 754.77 | 157.88 | -163.02 | 2.00 | -2.00 | 0.00 |
| 7,900.00 | 2.97 | 11.81 | 7,851.43 | 761.55 | 159.30 | -164.48 | 2.00 | -2.00 | 0.00 |
| 8,000.00 | 0.97 | 11.81 | 7,951.36 | 764.92 | 160.01 | -165.21 | 2.00 | -2.00 | 0.00 |
| 8,048.64 | 0.00 | 0.00 | 8,000.00 | 765.32 | 160.09 | -165.30 | 2.00 | -2.00 | 0.00 |
| 8,100.00 | 0.00 | 0.00 | 8,051.36 | 765.32 | 160.09 | -165.30 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 0.00 | 0.00 | 8,151.36 | 765.32 | 160.09 | -165.30 | 0.00 | 0.00 | 0.00 |
| 8,272.68 | 0.00 | 0.00 | 8,224.04 | 765.32 | 160.09 | -165.30 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 2.73 | 269.61 | 8,251.35 | 765.32 | 159.44 | -164.64 | 10.00 | 10.00 | 0.00 |
| 8,350.00 | 7.73 | 269.61 | 8,301.13 | 765.28 | 154.88 | -160.09 | 10.00 | 10.00 | 0.00 |
| 8,391.49 | 11.88 | 269.61 | 8,342.00 | 765.24 | 147.82 | -153.02 | 10.00 | 10.00 | 0.00 |
| Top 3rd Bone Spring Sand (John) | | | | | | | | | |
| 8,400.00 | 12.73 | 269.61 | 8,350.32 | 765.22 | 146.00 | -151.21 | 10.00 | 10.00 | 0.00 |
| 8,450.00 | 17.73 | 269.61 | 8,398.54 | 765.13 | 132.87 | -138.08 | 10.00 | 10.00 | 0.00 |
| 8,500.00 | 22.73 | 269.61 | 8,445.44 | 765.01 | 115.58 | -120.79 | 10.00 | 10.00 | 0.00 |
| 8,550.00 | 27.73 | 269.61 | 8,490.66 | 764.87 | 94.28 | -99.48 | 10.00 | 10.00 | 0.00 |
| 8,600.00 | 32.73 | 269.61 | 8,533.85 | 764.69 | 69.11 | -74.31 | 10.00 | 10.00 | 0.00 |
| 8,650.00 | 37.73 | 269.61 | 8,574.67 | 764.50 | 40.28 | -45.48 | 10.00 | 10.00 | 0.00 |
| 8,700.00 | 42.73 | 269.61 | 8,612.83 | 764.27 | 7.99 | -13.20 | 10.00 | 10.00 | 0.00 |
| 8,750.00 | 47.73 | 269.61 | 8,648.03 | 764.03 | -27.49 | 22.29 | 10.00 | 10.00 | 0.00 |
| 8,800.00 | 52.73 | 269.61 | 8,680.01 | 763.76 | -65.91 | 60.71 | 10.00 | 10.00 | 0.00 |
| 8,829.04 | 55.64 | 269.61 | 8,697.00 | 763.60 | -89.46 | 84.26 | 10.00 | 10.00 | 0.00 |
| WOLFCAMP A (John) | | | | | | | | | |
| 8,850.00 | 57.73 | 269.61 | 8,708.51 | 763.48 | -106.97 | 101.77 | 10.00 | 10.00 | 0.00 |
| 8,900.00 | 62.73 | 269.61 | 8,733.33 | 763.18 | -150.36 | 145.16 | 10.00 | 10.00 | 0.00 |
| 8,919.52 | 64.68 | 269.61 | 8,741.97 | 763.06 | -167.85 | 162.66 | 10.00 | 10.00 | 0.00 |
| PLAT FTP:1650' FNL & 330' FEL | | | | | | | | | |



Planning Report

| | | | |
|------------------|--------------------------------|-------------------------------------|-------------------------|
| Database: | WBDS_SQL_2 | Local Co-ordinate Reference: | Well #402H |
| Company: | Santo Petroleum | TVD Reference: | RKB = 25' @ 3127.00usft |
| Project: | Eddy County, NM (NAD 83 - NME) | MD Reference: | RKB = 25' @ 3127.00usft |
| Site: | Caveman 7-12 | North Reference: | Grid |
| Well: | #402H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ST01 | | |
| Design: | ST01: Plan #4 | | |

| Planned Survey | | | | | | | | | | |
|----------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | |
| 8,950.00 | 67.73 | 269.61 | 8,754.27 | 762.87 | -195.74 | 190.55 | 10.00 | 10.00 | 0.00 | |
| 9,000.00 | 72.73 | 269.61 | 8,771.17 | 762.55 | -242.78 | 237.59 | 10.00 | 10.00 | 0.00 | |
| Caveman #402H: Pilot PBHL | | | | | | | | | | |
| 9,041.29 | 76.86 | 269.61 | 8,782.00 | 762.27 | -282.62 | 277.42 | 10.00 | 10.00 | 0.00 | |
| Y Sand Top (John) | | | | | | | | | | |
| 9,050.00 | 77.73 | 269.61 | 8,783.91 | 762.21 | -291.11 | 285.92 | 10.00 | 10.00 | 0.00 | |
| 9,055.22 | 78.25 | 269.61 | 8,785.00 | 762.18 | -296.22 | 291.02 | 10.00 | 10.00 | 0.00 | |
| TOP WINDOW | | | | | | | | | | |
| 9,100.00 | 82.73 | 269.61 | 8,792.40 | 761.88 | -340.37 | 335.18 | 10.00 | 10.00 | 0.00 | |
| 9,150.00 | 87.73 | 269.61 | 8,796.55 | 761.53 | -390.18 | 384.99 | 10.00 | 10.00 | 0.00 | |
| 9,172.36 | 90.12 | 269.61 | 8,797.00 | 761.38 | -412.53 | 407.34 | 10.67 | 10.67 | 0.00 | |
| TARGET LANDING | | | | | | | | | | |
| 9,173.85 | 90.12 | 269.61 | 8,797.00 | 761.37 | -414.02 | 408.83 | 0.00 | 0.00 | 0.00 | |
| PLAN: LP | | | | | | | | | | |
| 9,200.00 | 90.12 | 269.61 | 8,796.94 | 761.19 | -440.17 | 434.98 | 0.00 | 0.00 | 0.00 | |
| 9,300.00 | 90.12 | 269.61 | 8,796.74 | 760.50 | -540.17 | 534.98 | 0.00 | 0.00 | 0.00 | |
| 9,400.00 | 90.12 | 269.61 | 8,796.54 | 759.81 | -640.17 | 634.98 | 0.00 | 0.00 | 0.00 | |
| 9,500.00 | 90.12 | 269.61 | 8,796.33 | 759.12 | -740.17 | 734.98 | 0.00 | 0.00 | 0.00 | |
| 9,600.00 | 90.12 | 269.61 | 8,796.13 | 758.43 | -840.16 | 834.98 | 0.00 | 0.00 | 0.00 | |
| 9,700.00 | 90.12 | 269.61 | 8,795.92 | 757.75 | -940.16 | 934.98 | 0.00 | 0.00 | 0.00 | |
| 9,800.00 | 90.12 | 269.61 | 8,795.72 | 757.06 | -1,040.16 | 1,034.98 | 0.00 | 0.00 | 0.00 | |
| 9,900.00 | 90.12 | 269.61 | 8,795.52 | 756.37 | -1,140.16 | 1,134.98 | 0.00 | 0.00 | 0.00 | |
| 10,000.00 | 90.12 | 269.61 | 8,795.31 | 755.68 | -1,240.15 | 1,234.98 | 0.00 | 0.00 | 0.00 | |
| 10,100.00 | 90.12 | 269.61 | 8,795.11 | 754.99 | -1,340.15 | 1,334.98 | 0.00 | 0.00 | 0.00 | |
| 10,200.00 | 90.12 | 269.61 | 8,794.90 | 754.30 | -1,440.15 | 1,434.98 | 0.00 | 0.00 | 0.00 | |
| 10,300.00 | 90.12 | 269.61 | 8,794.70 | 753.62 | -1,540.15 | 1,534.98 | 0.00 | 0.00 | 0.00 | |
| 10,400.00 | 90.12 | 269.61 | 8,794.50 | 752.93 | -1,640.14 | 1,634.98 | 0.00 | 0.00 | 0.00 | |
| 10,500.00 | 90.12 | 269.61 | 8,794.29 | 752.24 | -1,740.14 | 1,734.98 | 0.00 | 0.00 | 0.00 | |
| 10,600.00 | 90.12 | 269.61 | 8,794.09 | 751.55 | -1,840.14 | 1,834.98 | 0.00 | 0.00 | 0.00 | |
| 10,700.00 | 90.12 | 269.61 | 8,793.88 | 750.86 | -1,940.14 | 1,934.98 | 0.00 | 0.00 | 0.00 | |
| 10,800.00 | 90.12 | 269.61 | 8,793.68 | 750.17 | -2,040.13 | 2,034.98 | 0.00 | 0.00 | 0.00 | |
| 10,900.00 | 90.12 | 269.61 | 8,793.48 | 749.49 | -2,140.13 | 2,134.98 | 0.00 | 0.00 | 0.00 | |
| 11,000.00 | 90.12 | 269.61 | 8,793.27 | 748.80 | -2,240.13 | 2,234.98 | 0.00 | 0.00 | 0.00 | |
| 11,100.00 | 90.12 | 269.61 | 8,793.07 | 748.11 | -2,340.13 | 2,334.98 | 0.00 | 0.00 | 0.00 | |
| 11,200.00 | 90.12 | 269.61 | 8,792.86 | 747.42 | -2,440.12 | 2,434.98 | 0.00 | 0.00 | 0.00 | |
| 11,300.00 | 90.12 | 269.61 | 8,792.66 | 746.73 | -2,540.12 | 2,534.98 | 0.00 | 0.00 | 0.00 | |
| 11,400.00 | 90.12 | 269.61 | 8,792.46 | 746.04 | -2,640.12 | 2,634.98 | 0.00 | 0.00 | 0.00 | |
| 11,500.00 | 90.12 | 269.61 | 8,792.25 | 745.36 | -2,740.11 | 2,734.98 | 0.00 | 0.00 | 0.00 | |
| 11,600.00 | 90.12 | 269.61 | 8,792.05 | 744.67 | -2,840.11 | 2,834.98 | 0.00 | 0.00 | 0.00 | |
| 11,700.00 | 90.12 | 269.61 | 8,791.84 | 743.98 | -2,940.11 | 2,934.98 | 0.00 | 0.00 | 0.00 | |
| 11,800.00 | 90.12 | 269.61 | 8,791.64 | 743.29 | -3,040.11 | 3,034.98 | 0.00 | 0.00 | 0.00 | |
| 11,900.00 | 90.12 | 269.61 | 8,791.44 | 742.60 | -3,140.10 | 3,134.98 | 0.00 | 0.00 | 0.00 | |
| 12,000.00 | 90.12 | 269.61 | 8,791.23 | 741.91 | -3,240.10 | 3,234.98 | 0.00 | 0.00 | 0.00 | |
| 12,100.00 | 90.12 | 269.61 | 8,791.03 | 741.23 | -3,340.10 | 3,334.98 | 0.00 | 0.00 | 0.00 | |
| 12,200.00 | 90.12 | 269.61 | 8,790.82 | 740.54 | -3,440.10 | 3,434.98 | 0.00 | 0.00 | 0.00 | |
| 12,300.00 | 90.12 | 269.61 | 8,790.62 | 739.85 | -3,540.09 | 3,534.98 | 0.00 | 0.00 | 0.00 | |
| 12,400.00 | 90.12 | 269.61 | 8,790.42 | 739.16 | -3,640.09 | 3,634.98 | 0.00 | 0.00 | 0.00 | |
| 12,500.00 | 90.12 | 269.61 | 8,790.21 | 738.47 | -3,740.09 | 3,734.98 | 0.00 | 0.00 | 0.00 | |
| 12,600.00 | 90.12 | 269.61 | 8,790.01 | 737.78 | -3,840.09 | 3,834.98 | 0.00 | 0.00 | 0.00 | |
| 12,700.00 | 90.12 | 269.61 | 8,789.80 | 737.10 | -3,940.08 | 3,934.98 | 0.00 | 0.00 | 0.00 | |
| 12,800.00 | 90.12 | 269.61 | 8,789.60 | 736.41 | -4,040.08 | 4,034.98 | 0.00 | 0.00 | 0.00 | |
| 12,900.00 | 90.12 | 269.61 | 8,789.40 | 735.72 | -4,140.08 | 4,134.98 | 0.00 | 0.00 | 0.00 | |
| 13,000.00 | 90.12 | 269.61 | 8,789.19 | 735.03 | -4,240.08 | 4,234.97 | 0.00 | 0.00 | 0.00 | |



Planning Report

| | | | |
|------------------|--------------------------------|-------------------------------------|-------------------------|
| Database: | WBDS_SQL_2 | Local Co-ordinate Reference: | Well #402H |
| Company: | Santo Petroleum | TVD Reference: | RKB = 25' @ 3127.00usft |
| Project: | Eddy County, NM (NAD 83 - NME) | MD Reference: | RKB = 25' @ 3127.00usft |
| Site: | Caveman 7-12 | North Reference: | Grid |
| Well: | #402H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ST01 | | |
| Design: | ST01: Plan #4 | | |

| Planned Survey | | | | | | | | | | |
|---------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | |
| 13,100.00 | 90.12 | 269.61 | 8,788.99 | 734.34 | -4,340.07 | 4,334.97 | 0.00 | 0.00 | 0.00 | |
| 13,200.00 | 90.12 | 269.61 | 8,788.78 | 733.65 | -4,440.07 | 4,434.97 | 0.00 | 0.00 | 0.00 | |
| 13,300.00 | 90.12 | 269.61 | 8,788.58 | 732.97 | -4,540.07 | 4,534.97 | 0.00 | 0.00 | 0.00 | |
| 13,400.00 | 90.12 | 269.61 | 8,788.38 | 732.28 | -4,640.07 | 4,634.97 | 0.00 | 0.00 | 0.00 | |
| 13,500.00 | 90.12 | 269.61 | 8,788.17 | 731.59 | -4,740.06 | 4,734.97 | 0.00 | 0.00 | 0.00 | |
| 13,600.00 | 90.12 | 269.61 | 8,787.97 | 730.90 | -4,840.06 | 4,834.97 | 0.00 | 0.00 | 0.00 | |
| 13,700.00 | 90.12 | 269.61 | 8,787.76 | 730.21 | -4,940.06 | 4,934.97 | 0.00 | 0.00 | 0.00 | |
| 13,800.00 | 90.12 | 269.61 | 8,787.56 | 729.52 | -5,040.06 | 5,034.97 | 0.00 | 0.00 | 0.00 | |
| 13,900.00 | 90.12 | 269.61 | 8,787.36 | 728.84 | -5,140.05 | 5,134.97 | 0.00 | 0.00 | 0.00 | |
| 14,000.00 | 90.12 | 269.61 | 8,787.15 | 728.15 | -5,240.05 | 5,234.97 | 0.00 | 0.00 | 0.00 | |
| 14,100.00 | 90.12 | 269.61 | 8,786.95 | 727.46 | -5,340.05 | 5,334.97 | 0.00 | 0.00 | 0.00 | |
| 14,200.00 | 90.12 | 269.61 | 8,786.74 | 726.77 | -5,440.05 | 5,434.97 | 0.00 | 0.00 | 0.00 | |
| 14,300.00 | 90.12 | 269.61 | 8,786.54 | 726.08 | -5,540.04 | 5,534.97 | 0.00 | 0.00 | 0.00 | |
| 14,400.00 | 90.12 | 269.61 | 8,786.34 | 725.39 | -5,640.04 | 5,634.97 | 0.00 | 0.00 | 0.00 | |
| 14,500.00 | 90.12 | 269.61 | 8,786.13 | 724.71 | -5,740.04 | 5,734.97 | 0.00 | 0.00 | 0.00 | |
| 14,600.00 | 90.12 | 269.61 | 8,785.93 | 724.02 | -5,840.04 | 5,834.97 | 0.00 | 0.00 | 0.00 | |
| 14,700.00 | 90.12 | 269.61 | 8,785.72 | 723.33 | -5,940.03 | 5,934.97 | 0.00 | 0.00 | 0.00 | |
| 14,800.00 | 90.12 | 269.61 | 8,785.52 | 722.64 | -6,040.03 | 6,034.97 | 0.00 | 0.00 | 0.00 | |
| 14,900.00 | 90.12 | 269.61 | 8,785.32 | 721.95 | -6,140.03 | 6,134.97 | 0.00 | 0.00 | 0.00 | |
| 15,000.00 | 90.12 | 269.61 | 8,785.11 | 721.26 | -6,240.02 | 6,234.97 | 0.00 | 0.00 | 0.00 | |
| 15,100.00 | 90.12 | 269.61 | 8,784.91 | 720.58 | -6,340.02 | 6,334.97 | 0.00 | 0.00 | 0.00 | |
| 15,200.00 | 90.12 | 269.61 | 8,784.70 | 719.89 | -6,440.02 | 6,434.97 | 0.00 | 0.00 | 0.00 | |
| 15,300.00 | 90.12 | 269.61 | 8,784.50 | 719.20 | -6,540.02 | 6,534.97 | 0.00 | 0.00 | 0.00 | |
| 15,400.00 | 90.12 | 269.61 | 8,784.30 | 718.51 | -6,640.01 | 6,634.97 | 0.00 | 0.00 | 0.00 | |
| 15,500.00 | 90.12 | 269.61 | 8,784.09 | 717.82 | -6,740.01 | 6,734.97 | 0.00 | 0.00 | 0.00 | |
| 15,600.00 | 90.12 | 269.61 | 8,783.89 | 717.13 | -6,840.01 | 6,834.97 | 0.00 | 0.00 | 0.00 | |
| 15,700.00 | 90.12 | 269.61 | 8,783.68 | 716.45 | -6,940.01 | 6,934.97 | 0.00 | 0.00 | 0.00 | |
| 15,800.00 | 90.12 | 269.61 | 8,783.48 | 715.76 | -7,040.00 | 7,034.97 | 0.00 | 0.00 | 0.00 | |
| 15,900.00 | 90.12 | 269.61 | 8,783.28 | 715.07 | -7,140.00 | 7,134.97 | 0.00 | 0.00 | 0.00 | |
| 16,000.00 | 90.12 | 269.61 | 8,783.07 | 714.38 | -7,240.00 | 7,234.97 | 0.00 | 0.00 | 0.00 | |
| 16,035.02 | 90.12 | 269.61 | 8,783.00 | 714.14 | -7,275.02 | 7,269.99 | 0.00 | 0.00 | 0.00 | |
| Caveman #402H Deflection Point | | | | | | | | | | |
| 16,093.59 | 91.29 | 269.61 | 8,782.28 | 713.74 | -7,333.58 | 7,328.55 | 2.00 | 2.00 | 0.00 | |
| 16,100.00 | 91.29 | 269.61 | 8,782.14 | 713.69 | -7,339.99 | 7,334.96 | 0.00 | 0.00 | 0.00 | |
| 16,200.00 | 91.29 | 269.61 | 8,779.89 | 713.00 | -7,439.96 | 7,434.94 | 0.00 | 0.00 | 0.00 | |
| 16,300.00 | 91.29 | 269.61 | 8,777.64 | 712.32 | -7,539.93 | 7,534.91 | 0.00 | 0.00 | 0.00 | |
| 16,400.00 | 91.29 | 269.61 | 8,775.39 | 711.63 | -7,639.91 | 7,634.89 | 0.00 | 0.00 | 0.00 | |
| 16,500.00 | 91.29 | 269.61 | 8,773.15 | 710.94 | -7,739.88 | 7,734.86 | 0.00 | 0.00 | 0.00 | |
| 16,600.00 | 91.29 | 269.61 | 8,770.90 | 710.25 | -7,839.85 | 7,834.84 | 0.00 | 0.00 | 0.00 | |
| 16,700.00 | 91.29 | 269.61 | 8,768.65 | 709.56 | -7,939.82 | 7,934.81 | 0.00 | 0.00 | 0.00 | |
| 16,800.00 | 91.29 | 269.61 | 8,766.40 | 708.88 | -8,039.80 | 8,034.78 | 0.00 | 0.00 | 0.00 | |
| 16,900.00 | 91.29 | 269.61 | 8,764.15 | 708.19 | -8,139.77 | 8,134.76 | 0.00 | 0.00 | 0.00 | |
| 17,000.00 | 91.29 | 269.61 | 8,761.91 | 707.50 | -8,239.74 | 8,234.73 | 0.00 | 0.00 | 0.00 | |
| 17,100.00 | 91.29 | 269.61 | 8,759.66 | 706.81 | -8,339.71 | 8,334.71 | 0.00 | 0.00 | 0.00 | |
| 17,200.00 | 91.29 | 269.61 | 8,757.41 | 706.12 | -8,439.69 | 8,434.68 | 0.00 | 0.00 | 0.00 | |
| 17,300.00 | 91.29 | 269.61 | 8,755.16 | 705.43 | -8,539.66 | 8,534.66 | 0.00 | 0.00 | 0.00 | |
| 17,400.00 | 91.29 | 269.61 | 8,752.91 | 704.75 | -8,639.63 | 8,634.63 | 0.00 | 0.00 | 0.00 | |
| 17,500.00 | 91.29 | 269.61 | 8,750.67 | 704.06 | -8,739.60 | 8,734.61 | 0.00 | 0.00 | 0.00 | |
| 17,600.00 | 91.29 | 269.61 | 8,748.42 | 703.37 | -8,839.58 | 8,834.58 | 0.00 | 0.00 | 0.00 | |
| 17,700.00 | 91.29 | 269.61 | 8,746.17 | 702.68 | -8,939.55 | 8,934.56 | 0.00 | 0.00 | 0.00 | |
| 17,800.00 | 91.29 | 269.61 | 8,743.92 | 701.99 | -9,039.52 | 9,034.53 | 0.00 | 0.00 | 0.00 | |
| 17,900.00 | 91.29 | 269.61 | 8,741.67 | 701.31 | -9,139.49 | 9,134.51 | 0.00 | 0.00 | 0.00 | |
| 18,000.00 | 91.29 | 269.61 | 8,739.43 | 700.62 | -9,239.46 | 9,234.48 | 0.00 | 0.00 | 0.00 | |
| 18,100.00 | 91.29 | 269.61 | 8,737.18 | 699.93 | -9,339.44 | 9,334.46 | 0.00 | 0.00 | 0.00 | |



Planning Report

| | | | |
|------------------|--------------------------------|-------------------------------------|-------------------------|
| Database: | WBDS_SQL_2 | Local Co-ordinate Reference: | Well #402H |
| Company: | Santo Petroleum | TVD Reference: | RKB = 25' @ 3127.00usft |
| Project: | Eddy County, NM (NAD 83 - NME) | MD Reference: | RKB = 25' @ 3127.00usft |
| Site: | Caveman 7-12 | North Reference: | Grid |
| Well: | #402H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ST01 | | |
| Design: | ST01: Plan #4 | | |

| Planned Survey | | | | | | | | | |
|--|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 18,200.00 | 91.29 | 269.61 | 8,734.93 | 699.24 | -9,439.41 | 9,434.43 | 0.00 | 0.00 | 0.00 |
| 18,300.00 | 91.29 | 269.61 | 8,732.68 | 698.55 | -9,539.38 | 9,534.41 | 0.00 | 0.00 | 0.00 |
| 18,400.00 | 91.29 | 269.61 | 8,730.43 | 697.86 | -9,639.35 | 9,634.38 | 0.00 | 0.00 | 0.00 |
| 18,500.00 | 91.29 | 269.61 | 8,728.19 | 697.18 | -9,739.33 | 9,734.36 | 0.00 | 0.00 | 0.00 |
| 18,600.00 | 91.29 | 269.61 | 8,725.94 | 696.49 | -9,839.30 | 9,834.33 | 0.00 | 0.00 | 0.00 |
| 18,700.00 | 91.29 | 269.61 | 8,723.69 | 695.80 | -9,939.27 | 9,934.30 | 0.00 | 0.00 | 0.00 |
| 18,800.00 | 91.29 | 269.61 | 8,721.44 | 695.11 | -10,039.24 | 10,034.28 | 0.00 | 0.00 | 0.00 |
| 18,900.00 | 91.29 | 269.61 | 8,719.19 | 694.42 | -10,139.22 | 10,134.25 | 0.00 | 0.00 | 0.00 |
| 18,989.86 | 91.29 | 269.61 | 8,717.17 | 693.80 | -10,229.05 | 10,224.09 | 0.00 | 0.00 | 0.00 |
| PLAT LTP:1650' FNL & 330' FWL | | | | | | | | | |
| 19,000.00 | 91.29 | 269.61 | 8,716.95 | 693.73 | -10,239.19 | 10,234.23 | 0.00 | 0.00 | 0.00 |
| 19,100.00 | 91.29 | 269.61 | 8,714.70 | 693.05 | -10,339.16 | 10,334.20 | 0.00 | 0.00 | 0.00 |
| 19,200.00 | 91.29 | 269.61 | 8,712.45 | 692.36 | -10,439.13 | 10,434.18 | 0.00 | 0.00 | 0.00 |
| 19,220.06 | 91.29 | 269.61 | 8,712.00 | 692.22 | -10,459.18 | 10,454.23 | 0.00 | 0.00 | 0.00 |
| PLAT PBHL: 1650' FNL & 100' FWL | | | | | | | | | |

| Design Targets | | | | | | | | | |
|---|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------|-------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| PLAT #402H SHL: 24' - plan hits target center - Point | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 512,227.98 | 576,054.99 | 32.408132 | -104.220836 |
| PLAT PBHL: 1650' FN - plan hits target center - Point | 0.00 | 0.00 | 8,712.00 | 692.22 | -10,459.18 | 512,920.20 | 565,595.80 | 32.410061 | -104.254726 |
| PLAT LTP:1650' FNL - plan misses target center by 9.38usft at 18989.86usft MD (8717.17 TVD, 693.80 N, -10229.05 E) - Point | 0.00 | 0.00 | 8,717.18 | 684.42 | -10,228.98 | 512,912.40 | 565,826.00 | 32.410039 | -104.253980 |
| Caveman #402H Defl - plan hits target center - Point | 0.00 | 0.00 | 8,783.00 | 714.14 | -7,275.02 | 512,942.12 | 568,779.96 | 32.410114 | -104.244408 |
| PLAT FTP:1650' FNL - plan misses target center by 56.03usft at 8919.52usft MD (8741.97 TVD, 763.06 N, -167.85 E) - Point | 0.00 | 0.00 | 8,792.85 | 763.22 | -144.38 | 512,991.20 | 575,910.60 | 32.410230 | -104.221302 |
| PLAN: LP - plan misses target center by 0.01usft at 9173.85usft MD (8797.00 TVD, 761.37 N, -414.02 E) - Point | 0.00 | 0.00 | 8,797.00 | 761.37 | -414.02 | 512,989.35 | 575,640.97 | 32.410226 | -104.222175 |
| Caveman #402H: Pilo - plan misses target center by 1198.57usft at 9000.00usft MD (8771.17 TVD, 762.55 N, -242.78 E) - Point | 0.00 | 0.00 | 9,900.00 | 765.32 | 160.09 | 512,993.30 | 576,215.08 | 32.410235 | -104.220315 |



Planning Report



| | | | |
|------------------|--------------------------------|-------------------------------------|-------------------------|
| Database: | WBDS_SQL_2 | Local Co-ordinate Reference: | Well #402H |
| Company: | Santo Petroleum | TVD Reference: | RKB = 25' @ 3127.00usft |
| Project: | Eddy County, NM (NAD 83 - NME) | MD Reference: | RKB = 25' @ 3127.00usft |
| Site: | Caveman 7-12 | North Reference: | Grid |
| Well: | #402H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ST01 | | |
| Design: | ST01: Plan #4 | | |

| Formations | | | | | | |
|-----------------------|-----------------------|------------------------------------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 459.00 | 459.00 | Top Salt (John) | | | | |
| 1,153.00 | 1,153.00 | Base Salt (John) | | | | |
| 1,654.07 | 1,654.00 | Delaware | | | | |
| 1,703.17 | 1,703.00 | Lamar Limestone | | | | |
| 1,967.81 | 1,966.00 | Base Lamar Limestone | | | | |
| 5,176.55 | 5,149.00 | BONE SPRING | | | | |
| 6,337.86 | 6,301.00 | Top 1st BSPG Sand (John) | | | | |
| 6,606.01 | 6,567.00 | Top 2nd Bone Spring Carbonate (Jo | | | | |
| 6,982.03 | 6,940.00 | Top 2nd Bone Spring Sand (John) | | | | |
| 7,254.21 | 7,210.00 | Top 3rd Bone Spring Carbonate (Jol | | | | |
| 8,391.49 | 8,342.00 | Top 3rd Bone Spring Sand (John) | | | | |
| 8,829.04 | 8,697.00 | WOLFCAMP A (John) | | | | |
| 9,041.29 | 8,782.00 | Y Sand Top (John) | | | | |
| 9,055.22 | 8,785.00 | TOP WINDOW | | | | |
| 9,172.36 | 8,797.00 | TARGET LANDING | | | | |

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 Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 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

COMMENTS

Action 20470

COMMENTS

| | | | | | |
|--------------------|---------------|-------------------------|--------|----------------|--------------|
| Operator: | | | OGRID: | Action Number: | Action Type: |
| SPC RESOURCES, LLC | P.O. Box 1020 | Artesia, NM88211 | 372262 | 20470 | C-103A |
| Created By | | Comment | | Comment Date | |
| kpickford | | KP GEO Review 3/12/2021 | | 03/12/2021 | |

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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

CONDITIONS

Action 20470

CONDITIONS OF APPROVAL

| | | | | | | | | | |
|--------------|---------------------------|---------------|------------------|--------|--------|----------------|-------|--------------|--------|
| Operator: | SPC RESOURCES, LLC | P.O. Box 1020 | Artesia, NM88211 | OGRID: | 372262 | Action Number: | 20470 | Action Type: | C-103A |
| OCD Reviewer | Condition | | | | | | | | |
| jagarcia | New Property ID is 330286 | | | | | | | | |