

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

Form C-103
 Revised July 18, 2013

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

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO.
1. Type of Well: Oil Well ☐ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☐ FEE ☒
2. Name of Operator SPC Resources, LLC		6. State Oil & Gas Lease No.
3. Address of Operator P.O. Box 1020, Artesia, NM 88211		7. Lease Name or Unit Agreement Name Caveman 7-12 WCXY
4. Well Location Unit Letter <u>E</u> : 2271 feet from the <u>N</u> line and <u>240</u> feet from the <u>W</u> line Section <u>8</u> Township <u>22S</u> Range <u>27E</u> NMPM Eddy County		8. Well Number 2H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3099		9. OGRID Number 372262
		10. Pool name or Wildcat Purple Sage; Wolfcamp (Gas)

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: ☐
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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  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

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

Form C-102
Revised August 4, 2011

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

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

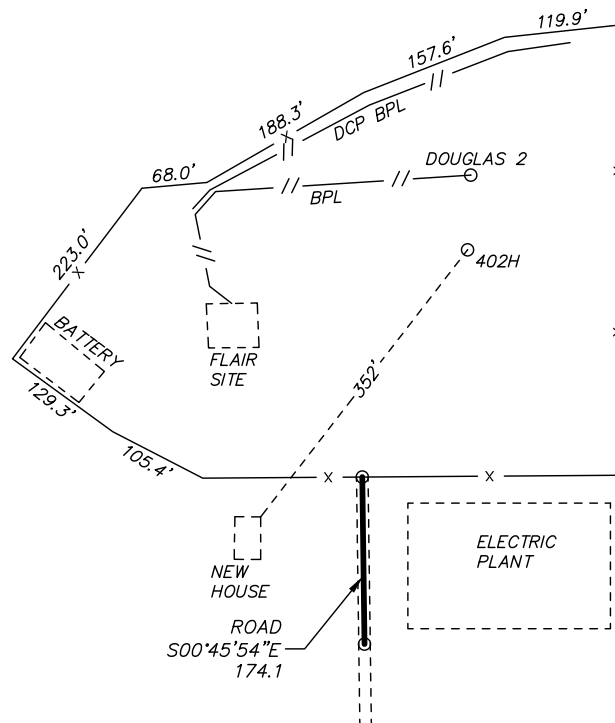
Bottom Hole Location If Different From Surface

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 1267.10	Joint or Infill	Consolidation Code	Order No.						

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 3 2021 Date Surveyed _____ Signature & Seal of Professional Surveyor _____ Certificate No. 7977 BASIN SURVEYS 0' 1000' 2000' 3000' 4000' N SCALE: 1" = 2000' WO Num.: 34729	
		BOTTOM HOLE LOCATION Lat - N 32.410061 Long - W 104.254726 NMSPCE - N 512920.2 E 565595.8 (NAD-83)	
		LAST TAKE POINT 1650 FNL & 330 FWL Lat - N 32.410039 Long - W 104.253981 NMSPCE - N 512912.4 E 565826.0 (NAD-83)	
FIRST TAKE POINT 1650 FNL & 330 FEL Lat - N 32.410231 Long - W 104.221300 NMSPCE - N 512991.2 E 575910.6 (NAD-83)		SURFACE LOCATION Lat - N 32.408132 Long - W 104.220836 NMSPCE - N 512227.9 E 576054.9 (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.

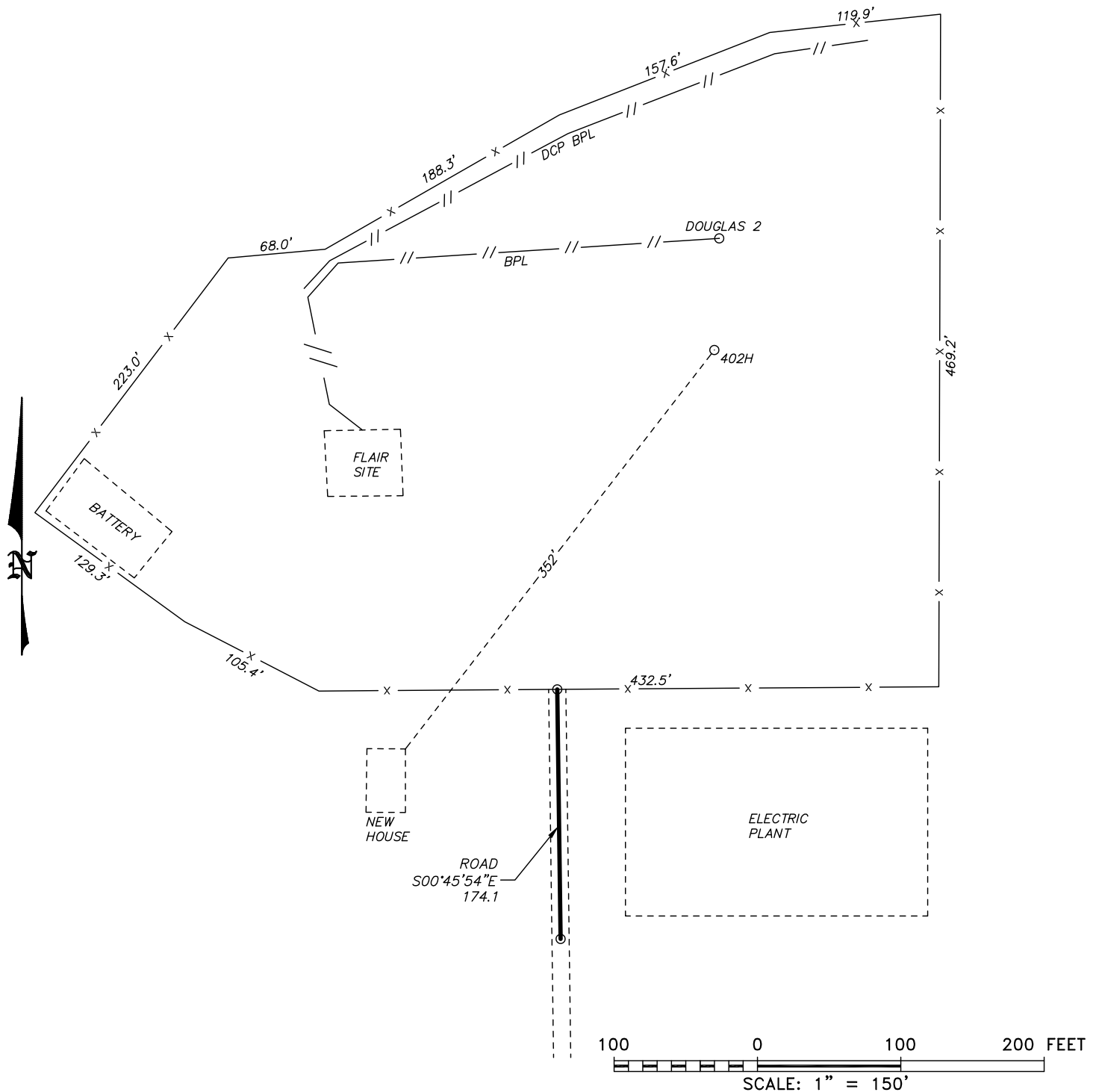
N.M.P.M., EDDY COUNTY, NEW MEXICO.

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

W.O. Number: 35040	Drawn By: J GOAD	Date: 2-21-2020	Survey Date: 2-13-2020	Sheet 1 of 1 Sheets
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SECTION 7, TOWNSHIP 22 SOUTH, RANGE 27 EAST. N.M.P.M., LEA COUNTY, NEW MEXICO.



SPC RESOURCES, LLC

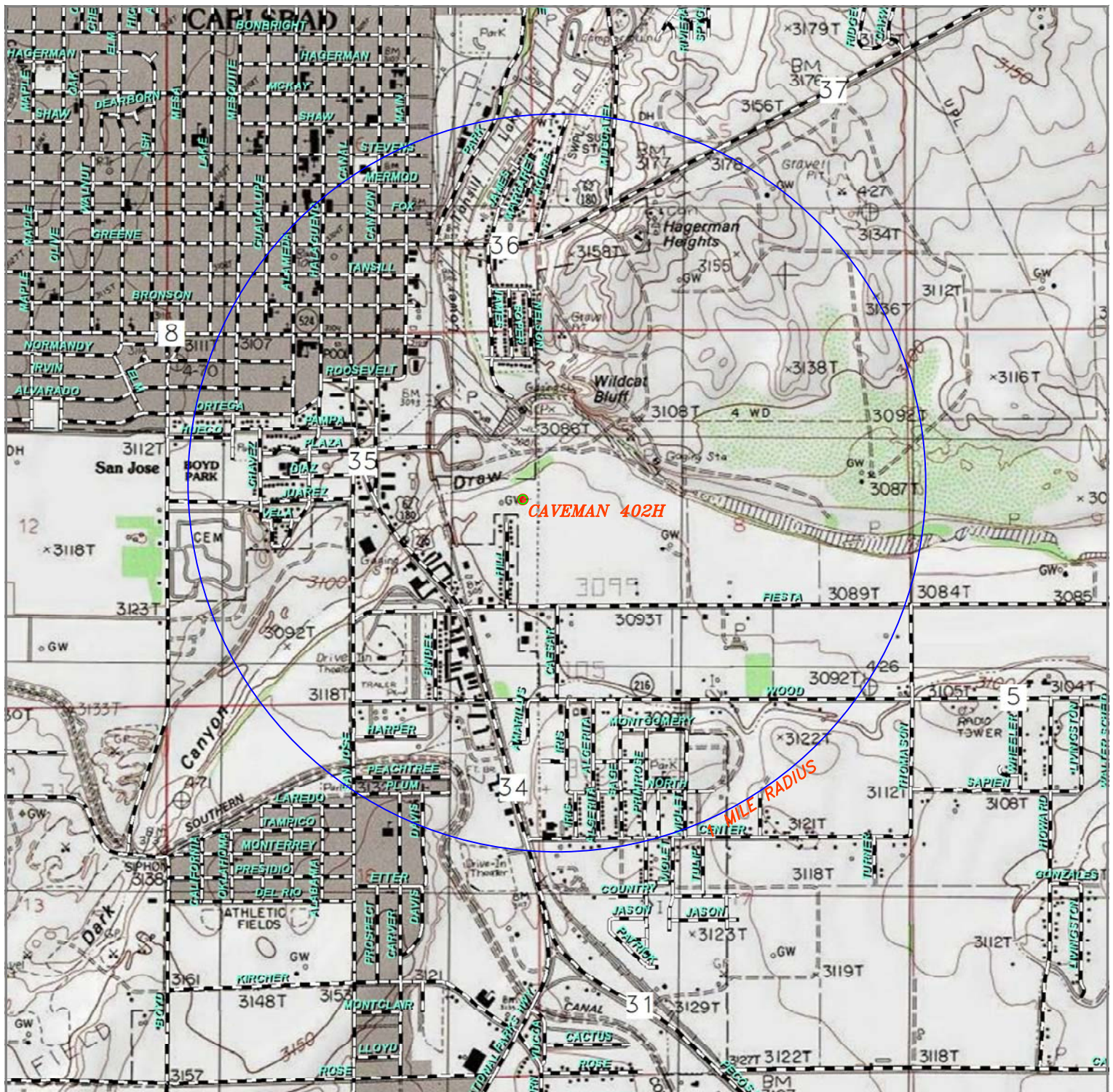
REF: CAVEMAN 402H / WELL PAD TOPO

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W.O. Number: 35040	Drawn By: J GOAD	Date: 2-21-2020	Survey Date: 2-13-2020	Sheet 1 of 1 Sheets
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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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0' 1000' 2000' 3000' 1500'
 SCALE: 1" = 2000'

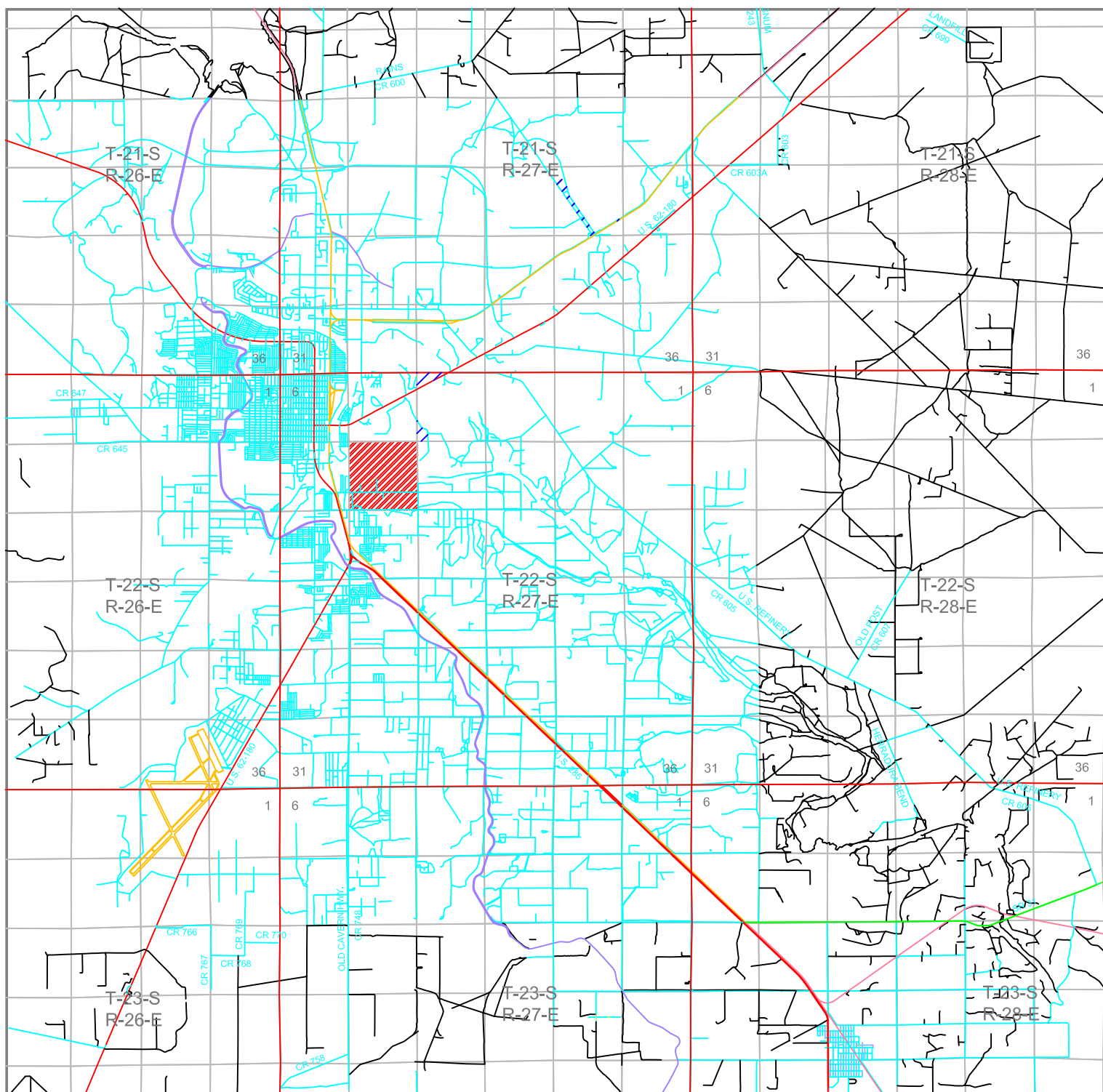
W.O. Number: JG 34729

Survey Date: 7-31-2019

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



SPC
 RESOURCES,
 LLC



CAVEMAN 402H

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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0 1 MI 2 MI 3 MI 4 MI
 SCALE: 1" = 2 MILES

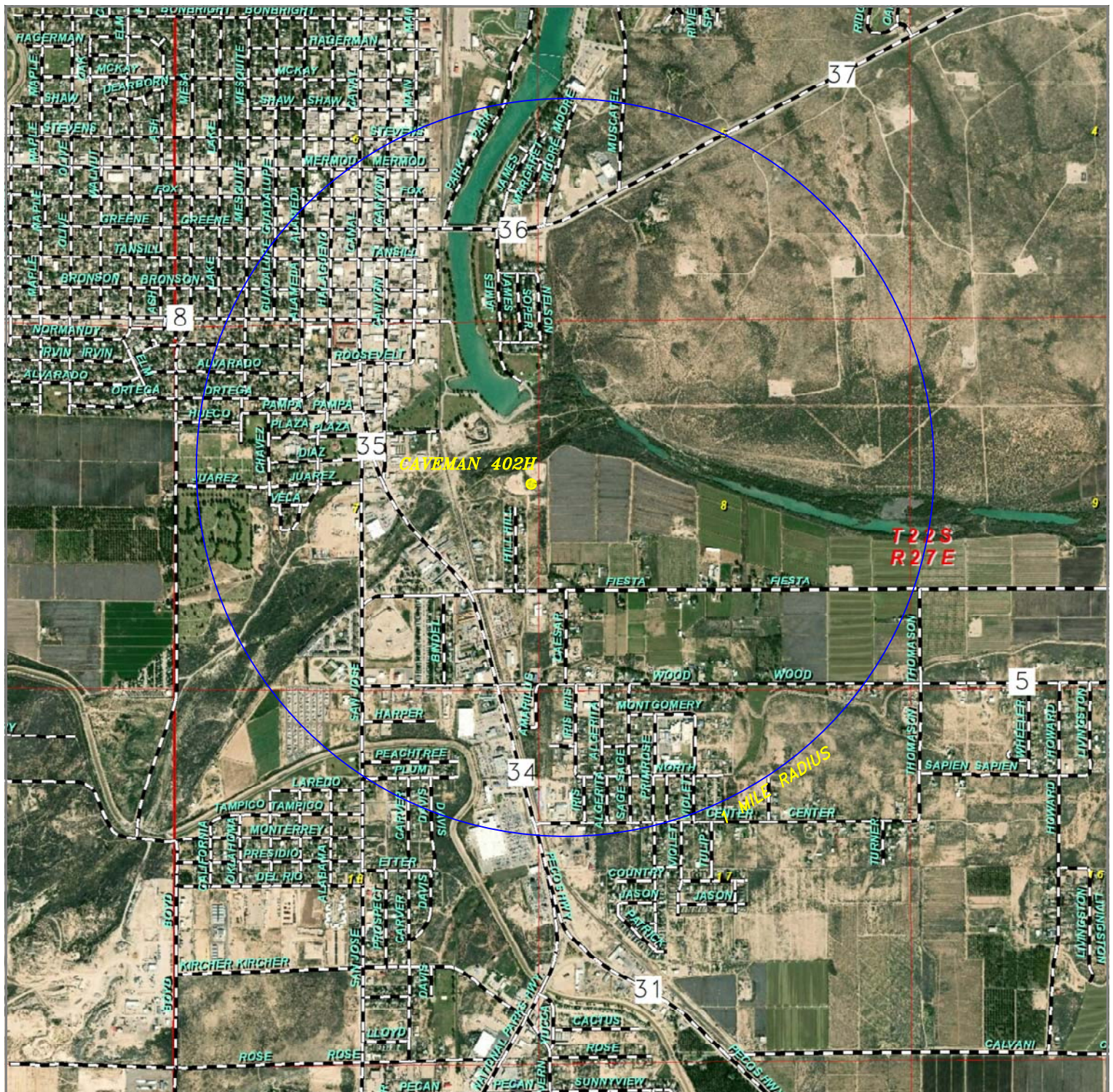
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 NATURAL COLOR - FEE LAND



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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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0' 1000' 2000' 3000' 150'0"
 SCALE: 1" = 2000'

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



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 Dr
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



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)
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

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

District IV

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

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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								