

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

WELL API NO. 30-015-49097
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Barney
8. Well Number 404H
9. OGRID Number 372262
10. Pool name or Wildcat [98220] Purple Sage, Wolfcamp [Gas]
4. Well Location Unit Letter <u>P</u> : <u>678</u> feet from the <u>South</u> line and <u>1059</u> feet from the <u>East</u> line Section <u>5</u> Township <u>22S</u> Range <u>27E</u> NMPM <u>Eddy</u> , County
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3128'

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: ☐

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.

SPC Resources, LLC has recently signed an SUA allowing for off lease access to the Barney unit. Therefore, we are moving the surface hole location of the Barney 404H well to P-5-22S-27E 678' FSL & 1059' FEL (Lat: 32.416587°, Long: -104.206567°). Updated C-102 is attached.

Similarly, we as submitting a new directional drilling plan attached.

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 Vice President of Operations DATE 8/23/2022

Type or print name Lelan J Anders E-mail address: LAnders@SantoPetroleum.com PHONE: 575-736-3250

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

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) 476-3460 Fax: (505) 476-3462

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 98220	Pool Name PURPLE SAGE WOLFCAMP GAS POOL
Property Code	Property Name BARNEY	Well Number 404H
OGRID No.	Operator Name SPC RESOURCES, LLC	Elevation 3128'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
P	5	22 S	27 E		678	SOUTH	1059	EAST	EDDY

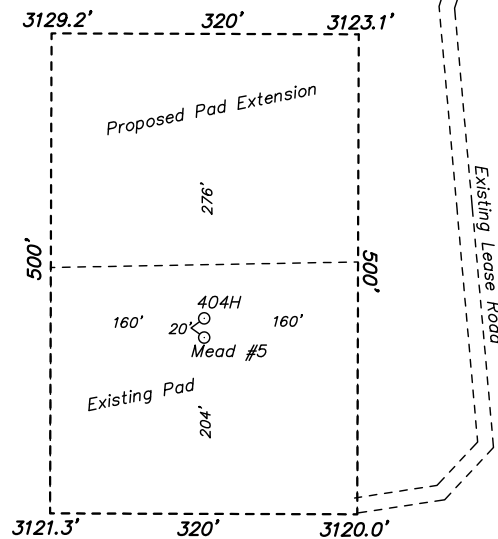
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
LOT 7	6	22 S	27 E		1000	SOUTH	100	WEST	EDDY
Dedicated Acres 473.59	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

BOTTOM HOLE LOCATION Lat - N 32.416904° Long - W 104.237197° NMSPCE- N 515414.2 E 571003.0 (NAD-83) Lat - N 32.416786° Long - W 104.236693° NMSPCE- N 515354.4 E 529821.8 (NAD-27)	LAST TAKE POINT 1000' FSL & 330' FWL Lat - N 32.416933° Long - W 104.236452° NMSPCE- N 515424.9 E 571233.0 (NAD-83) Lat - N 32.416815° Long - W 104.235947° NMSPCE- N 515365.1 E 530051.8 (NAD-27)		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 8/15/2022 Lelan J Anders Printed Name LAnders@SantoPetroleum.com Email Address
FIRST TAKE POINT 1000' FSL & 2324' FWL Lat - N 32.417514° Long - W 104.212795° NMSPCE- N 515643.7 E 578532.7 (NAD-83) Lat - N 32.417396° Long - W 104.212291° NMSPCE- N 515583.8 E 537351.4 (NAD-27)	TURN POINT 1000' FSL & 2624' FWL Lat - N 32.417508° Long - W 104.211822° NMSPCE- N 515641.8 E 578832.9 (NAD-83) Lat - N 32.417390° Long - W 104.211318° NMSPCE- N 515582.1 E 537651.6 (NAD-27)	SURFACE LOCATION Lat - N 32.416587° Long - W 104.206567° NMSPCE- N 515308.9 E 580454.8 (NAD-83) Lat - N 32.416469° Long - W 104.206064° NMSPCE- N 515249.0 E 539273.5 (NAD-27)	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. Date Surveyed 8/15/2022 Signature & Seal of Professional Surveyor 7977 Certificate No. Garry L. Jones 7977 BASIN SURVEYS Scale: 1" = 2000' WO Num.: 35828

**SECTION 5, TOWNSHIP 22 SOUTH, RANGE 27 EAST. N.M.P.M.,
EDDY COUNTY, NEW MEXICO.**



SPC RESOURCES, LLC
BARNEY 404H
ELEV. - 3128'

Lat - N 32.416587°
Long - W 104.206567°
NMSPCE- N 515308.9
E 580454.8
(NAD-83)

CARLSBAD, NM IS ± 1 MILES TO THE NORTHWEST OF LOCATION.

200 0 200 400 FEET



SCALE: 1" = 200'



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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

SPC RESOURCES, LLC

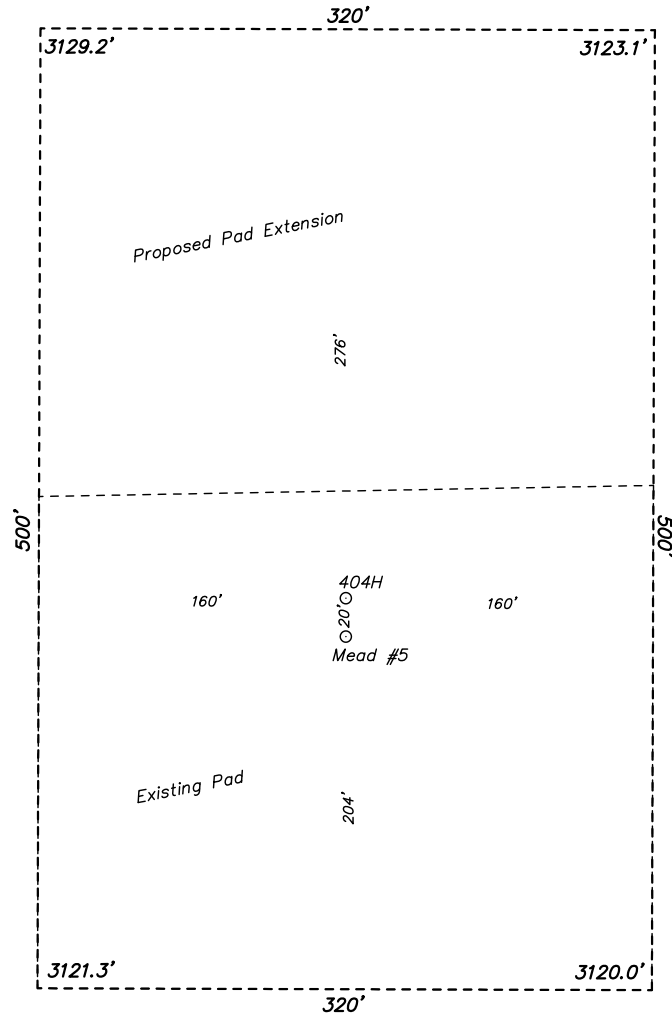
REF: BARNEY 404H / WELL PAD TOPO

THE BARNEY 404H LOCATED 678' FROM
THE SOUTH LINE AND 1059' FROM THE EAST LINE OF
SECTION 5, TOWNSHIP 22 SOUTH, RANGE 27 EAST.

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

W.O. Number: 35828	Drawn By: K. GOAD	Date: 08-01-2022	Survey Date: 07-29-2022	Sheet 1 of 1 Sheets
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**SECTION 5, TOWNSHIP 22 SOUTH, RANGE 27 EAST. N.M.P.M.,
EDDY COUNTY, NEW MEXICO.**



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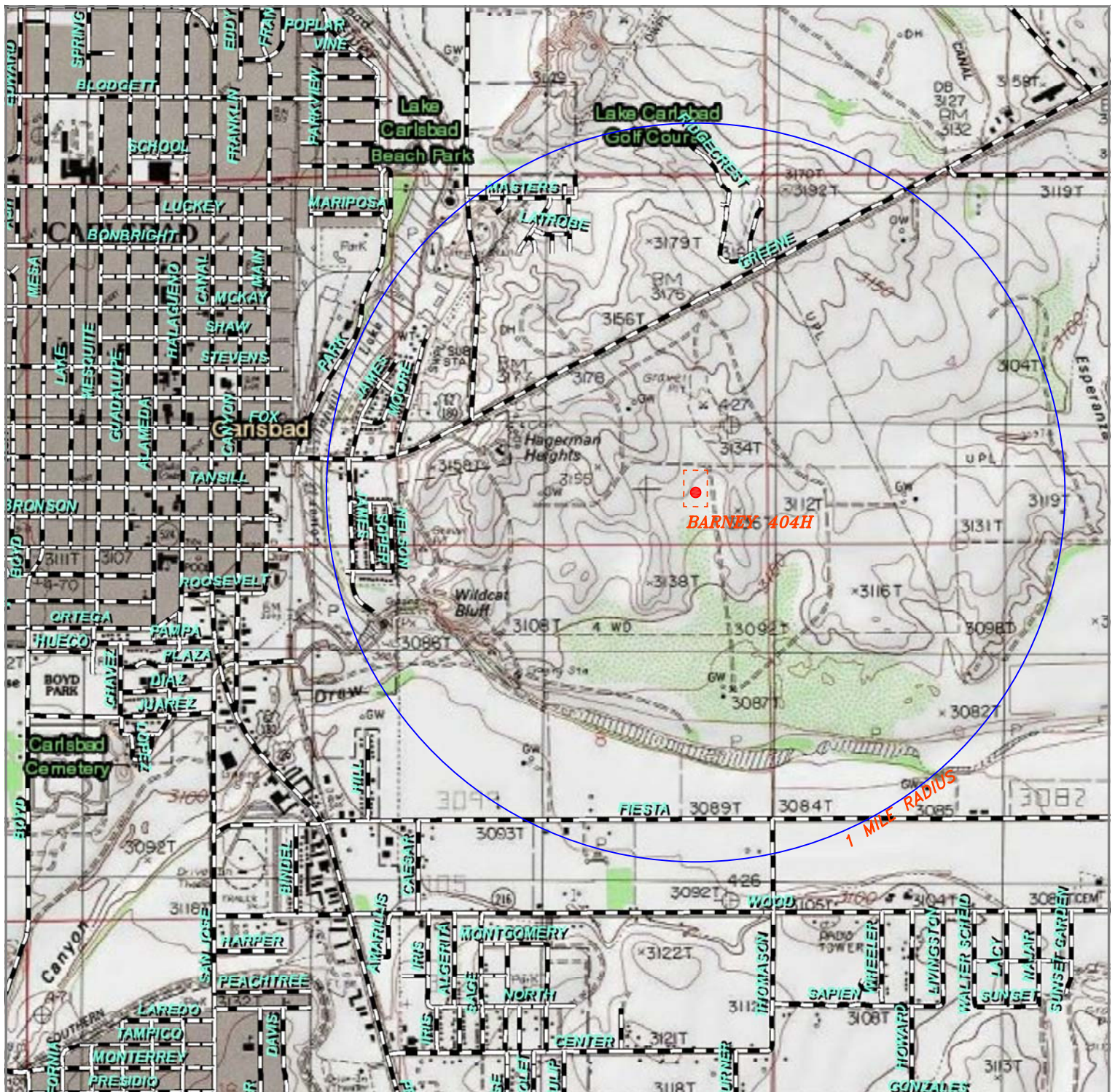
100 0 100 200 FEET
SCALE: 1" = 150'

SPC RESOURCES, LLC

REF: BARNEY 404H / WELL PAD TOPO

THE BARNEY 404H LOCATED 678' FROM
THE SOUTH LINE AND 1059' FROM THE EAST LINE OF
SECTION 5, TOWNSHIP 22 SOUTH, RANGE 27 EAST.
N.M.P.M., EDDY COUNTY, NEW MEXICO.

W.O. Number: 35828	Drawn By: K. GOAD	Date: 08-01-2022	Survey Date: 07-29-2022	Sheet 1 of 1 Sheets
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BARNEY 404H

Located 678' FSL and 1059' FEL
 Section 5, 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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0' 1000' 2000' 3000' 1500'
 SCALE: 1" = 2000'

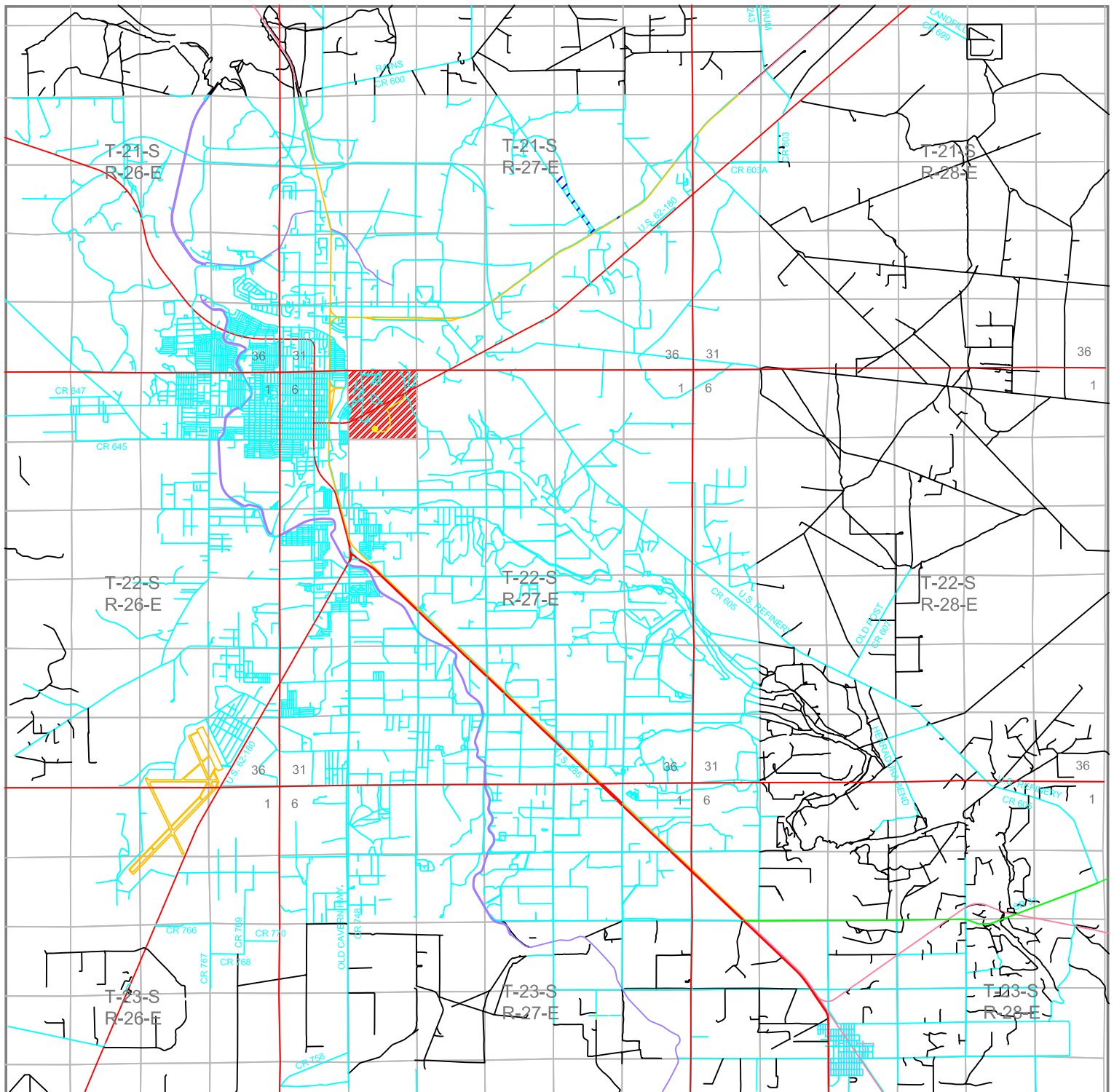
W.O. Number: KJG 35828

Survey Date: 07-29-2022

YELLOW TINT - USA LAND
 BLUE TINT - STATE LAND



SPC
 RESOURCES,
 LLC



BARNEY 404H

Located 678' FSL and 1059' FEL
Section 5, 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

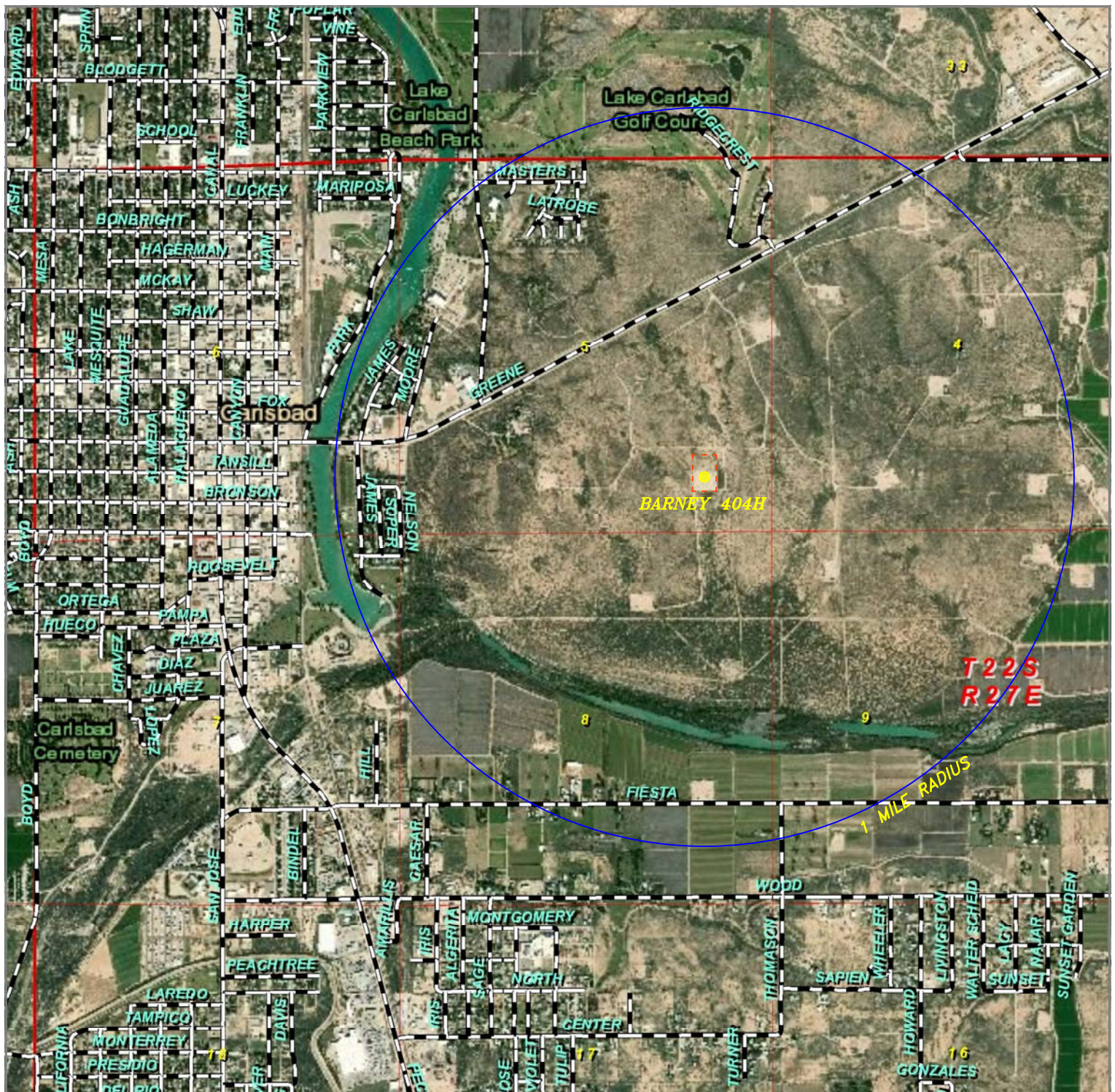
W.O. Number: KJG 35828

Survey Date: 07-29-2022

YELLOW TINT - USA LAND
BLUE TINT - STATE LAND



**SPC
RESOURCES,
LLC**



BARNEY 404H

Located 678' FSL and 1059' FEL
 Section 5, 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: KJG 35828

Survey Date: 07-29-2022

YELLOW TINT - USA LAND
 BLUE TINT - STATE LAND



SPC
RESOURCES,
LLC



Santo Petroleum

Eddy County, NM (NAD 83 - NME)

BARNEY PAD

404H

Wellbore #1

Plan: PLAN #4

Standard Planning Report

23 August, 2022





Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well 404H
Company:	Santo Petroleum	TVD Reference:	RKB = 25' @ 3153.00usft (TBD)
Project:	Eddy County, NM (NAD 83 - NME)	MD Reference:	RKB = 25' @ 3153.00usft (TBD)
Site:	BARNEY PAD	North Reference:	Grid
Well:	404H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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		BARNEY PAD			
Site Position:		Northing:	515,305.60 usft	Latitude:	32.416588
From:	Map	Easting:	577,350.20 usft	Longitude:	-104.216628
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.063

Well	404H					
Well Position	+N/-S	3.30 usft	Northing:	515,308.90 usft	Latitude:	32.416587
	+E/-W	3,104.60 usft	Easting:	580,454.80 usft	Longitude:	-104.206567
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level:	3,128.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	08/10/21	6.835	59.976	47,527.47632920

Design	PLAN #4				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	268.20	

Plan Survey Tool Program	Date	08/23/22			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	17,072.97	PLAN #4 (Wellbore #1)	MWD+IGRF	
				OWSG MWD + IGRF or W	



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well 404H
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Project:	Eddy County, NM (NAD 83 - NME)	MD Reference:	RKB = 25' @ 3153.00usft (TBD)
Site:	BARNEY PAD	North Reference:	Grid
Well:	404H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN #4		

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,464.72	9.29	287.87	1,462.69	11.54	-35.80	2.00	2.00	0.00	287.869	
7,645.12	9.29	287.87	7,561.94	317.82	-985.83	0.00	0.00	0.00	0.000	
8,109.84	0.00	270.35	8,024.63	329.36	-1,021.63	2.00	-2.00	0.00	180.000	
8,309.84	0.00	270.35	8,224.63	329.36	-1,021.63	0.00	0.00	0.00	0.000	
9,207.37	89.75	270.35	8,797.58	332.81	-1,592.11	10.00	10.00	0.00	0.000	
9,537.37	89.75	270.35	8,799.00	334.80	-1,922.10	0.00	0.00	0.00	0.000	PLAT FTP: 1000' F
11,861.23	89.75	270.35	8,809.00	348.84	-4,245.89	0.00	0.00	0.00	0.000	PLAN SEC. X-ING
12,019.07	89.71	267.19	8,809.73	345.45	-4,403.67	2.00	-0.02	-2.00	-90.710	
13,679.54	89.71	267.19	8,818.00	264.03	-6,062.13	0.00	0.00	0.00	0.000	PLAN CONTROL P
13,708.25	90.27	267.32	8,818.00	262.65	-6,090.80	2.00	1.95	0.45	12.957	
16,842.71	90.27	267.32	8,803.00	116.00	-9,221.80	0.00	0.00	0.00	0.000	PLAT LTP: 1000' F
17,072.97	90.27	267.32	8,801.90	105.23	-9,451.80	0.00	0.00	0.00	0.000	PLAT BHL: 1000' F



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well 404H
Company:	Santo Petroleum	TVD Reference:	RKB = 25' @ 3153.00usft (TBD)
Project:	Eddy County, NM (NAD 83 - NME)	MD Reference:	RKB = 25' @ 3153.00usft (TBD)
Site:	BARNEY PAD	North Reference:	Grid
Well:	404H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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
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	2.00	287.87	1,099.98	0.54	-1.66	1.64	2.00	2.00	0.00
1,200.00	4.00	287.87	1,199.84	2.14	-6.64	6.57	2.00	2.00	0.00
1,300.00	6.00	287.87	1,299.45	4.82	-14.94	14.78	2.00	2.00	0.00
1,400.00	8.00	287.87	1,398.70	8.55	-26.54	26.25	2.00	2.00	0.00
1,464.72	9.29	287.87	1,462.69	11.54	-35.80	35.42	2.00	2.00	0.00
1,500.00	9.29	287.87	1,497.50	13.29	-41.22	40.78	0.00	0.00	0.00
1,600.00	9.29	287.87	1,596.19	18.24	-56.59	55.99	0.00	0.00	0.00
1,700.00	9.29	287.87	1,694.88	23.20	-71.96	71.20	0.00	0.00	0.00
1,800.00	9.29	287.87	1,793.56	28.16	-87.33	86.41	0.00	0.00	0.00
1,900.00	9.29	287.87	1,892.25	33.11	-102.71	101.62	0.00	0.00	0.00
2,000.00	9.29	287.87	1,990.94	38.07	-118.08	116.82	0.00	0.00	0.00
2,100.00	9.29	287.87	2,089.62	43.02	-133.45	132.03	0.00	0.00	0.00
2,200.00	9.29	287.87	2,188.31	47.98	-148.82	147.24	0.00	0.00	0.00
2,300.00	9.29	287.87	2,287.00	52.93	-164.19	162.45	0.00	0.00	0.00
2,400.00	9.29	287.87	2,385.69	57.89	-179.57	177.66	0.00	0.00	0.00
2,500.00	9.29	287.87	2,484.37	62.85	-194.94	192.87	0.00	0.00	0.00
2,600.00	9.29	287.87	2,583.06	67.80	-210.31	208.08	0.00	0.00	0.00
2,700.00	9.29	287.87	2,681.75	72.76	-225.68	223.28	0.00	0.00	0.00
2,800.00	9.29	287.87	2,780.43	77.71	-241.05	238.49	0.00	0.00	0.00
2,900.00	9.29	287.87	2,879.12	82.67	-256.42	253.70	0.00	0.00	0.00
3,000.00	9.29	287.87	2,977.81	87.62	-271.80	268.91	0.00	0.00	0.00
3,100.00	9.29	287.87	3,076.50	92.58	-287.17	284.12	0.00	0.00	0.00
3,200.00	9.29	287.87	3,175.18	97.53	-302.54	299.33	0.00	0.00	0.00
3,300.00	9.29	287.87	3,273.87	102.49	-317.91	314.53	0.00	0.00	0.00
3,400.00	9.29	287.87	3,372.56	107.45	-333.28	329.74	0.00	0.00	0.00
3,500.00	9.29	287.87	3,471.24	112.40	-348.65	344.95	0.00	0.00	0.00
3,600.00	9.29	287.87	3,569.93	117.36	-364.03	360.16	0.00	0.00	0.00
3,700.00	9.29	287.87	3,668.62	122.31	-379.40	375.37	0.00	0.00	0.00
3,800.00	9.29	287.87	3,767.31	127.27	-394.77	390.58	0.00	0.00	0.00
3,900.00	9.29	287.87	3,865.99	132.22	-410.14	405.79	0.00	0.00	0.00
4,000.00	9.29	287.87	3,964.68	137.18	-425.51	420.99	0.00	0.00	0.00
4,100.00	9.29	287.87	4,063.37	142.14	-440.89	436.20	0.00	0.00	0.00
4,200.00	9.29	287.87	4,162.05	147.09	-456.26	451.41	0.00	0.00	0.00
4,300.00	9.29	287.87	4,260.74	152.05	-471.63	466.62	0.00	0.00	0.00
4,400.00	9.29	287.87	4,359.43	157.00	-487.00	481.83	0.00	0.00	0.00
4,500.00	9.29	287.87	4,458.12	161.96	-502.37	497.04	0.00	0.00	0.00
4,600.00	9.29	287.87	4,556.80	166.91	-517.74	512.25	0.00	0.00	0.00
4,700.00	9.29	287.87	4,655.49	171.87	-533.12	527.45	0.00	0.00	0.00
4,800.00	9.29	287.87	4,754.18	176.83	-548.49	542.66	0.00	0.00	0.00
4,900.00	9.29	287.87	4,852.86	181.78	-563.86	557.87	0.00	0.00	0.00
5,000.00	9.29	287.87	4,951.55	186.74	-579.23	573.08	0.00	0.00	0.00
5,100.00	9.29	287.87	5,050.24	191.69	-594.60	588.29	0.00	0.00	0.00
5,200.00	9.29	287.87	5,148.93	196.65	-609.97	603.50	0.00	0.00	0.00



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well 404H
Company:	Santo Petroleum	TVD Reference:	RKB = 25' @ 3153.00usft (TBD)
Project:	Eddy County, NM (NAD 83 - NME)	MD Reference:	RKB = 25' @ 3153.00usft (TBD)
Site:	BARNEY PAD	North Reference:	Grid
Well:	404H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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)
5,300.00	9.29	287.87	5,247.61	201.60	-625.35	618.71	0.00	0.00	0.00
5,400.00	9.29	287.87	5,346.30	206.56	-640.72	633.91	0.00	0.00	0.00
5,500.00	9.29	287.87	5,444.99	211.51	-656.09	649.12	0.00	0.00	0.00
5,600.00	9.29	287.87	5,543.67	216.47	-671.46	664.33	0.00	0.00	0.00
5,700.00	9.29	287.87	5,642.36	221.43	-686.83	679.54	0.00	0.00	0.00
5,800.00	9.29	287.87	5,741.05	226.38	-702.20	694.75	0.00	0.00	0.00
5,900.00	9.29	287.87	5,839.74	231.34	-717.58	709.96	0.00	0.00	0.00
6,000.00	9.29	287.87	5,938.42	236.29	-732.95	725.16	0.00	0.00	0.00
6,100.00	9.29	287.87	6,037.11	241.25	-748.32	740.37	0.00	0.00	0.00
6,200.00	9.29	287.87	6,135.80	246.20	-763.69	755.58	0.00	0.00	0.00
6,300.00	9.29	287.87	6,234.48	251.16	-779.06	770.79	0.00	0.00	0.00
6,400.00	9.29	287.87	6,333.17	256.12	-794.44	786.00	0.00	0.00	0.00
6,500.00	9.29	287.87	6,431.86	261.07	-809.81	801.21	0.00	0.00	0.00
6,600.00	9.29	287.87	6,530.55	266.03	-825.18	816.42	0.00	0.00	0.00
6,700.00	9.29	287.87	6,629.23	270.98	-840.55	831.62	0.00	0.00	0.00
6,800.00	9.29	287.87	6,727.92	275.94	-855.92	846.83	0.00	0.00	0.00
6,900.00	9.29	287.87	6,826.61	280.89	-871.29	862.04	0.00	0.00	0.00
7,000.00	9.29	287.87	6,925.29	285.85	-886.67	877.25	0.00	0.00	0.00
7,100.00	9.29	287.87	7,023.98	290.81	-902.04	892.46	0.00	0.00	0.00
7,200.00	9.29	287.87	7,122.67	295.76	-917.41	907.67	0.00	0.00	0.00
7,300.00	9.29	287.87	7,221.36	300.72	-932.78	922.88	0.00	0.00	0.00
7,400.00	9.29	287.87	7,320.04	305.67	-948.15	938.08	0.00	0.00	0.00
7,500.00	9.29	287.87	7,418.73	310.63	-963.52	953.29	0.00	0.00	0.00
7,600.00	9.29	287.87	7,517.42	315.58	-978.90	968.50	0.00	0.00	0.00
7,645.12	9.29	287.87	7,561.94	317.82	-985.83	975.36	0.00	0.00	0.00
7,700.00	8.20	287.87	7,616.19	320.38	-993.77	983.22	2.00	-2.00	0.00
7,800.00	6.20	287.87	7,715.39	324.22	-1,005.70	995.02	2.00	-2.00	0.00
7,900.00	4.20	287.87	7,814.98	327.00	-1,014.32	1,003.55	2.00	-2.00	0.00
8,000.00	2.20	287.87	7,914.82	328.71	-1,019.62	1,008.80	2.00	-2.00	0.00
8,109.84	0.00	270.35	8,024.63	329.36	-1,021.63	1,010.78	2.00	-2.00	0.00
8,200.00	0.00	0.00	8,114.79	329.36	-1,021.63	1,010.78	0.00	0.00	0.00
8,309.84	0.00	270.35	8,224.63	329.36	-1,021.63	1,010.78	0.00	0.00	0.00
8,350.00	4.02	270.35	8,264.76	329.37	-1,023.04	1,012.18	10.00	10.00	0.00
8,400.00	9.02	270.35	8,314.42	329.40	-1,028.71	1,017.85	10.00	10.00	0.00
8,450.00	14.02	270.35	8,363.40	329.46	-1,038.69	1,027.82	10.00	10.00	0.00
8,500.00	19.02	270.35	8,411.32	329.55	-1,052.90	1,042.02	10.00	10.00	0.00
8,550.00	24.02	270.35	8,457.82	329.66	-1,071.23	1,060.34	10.00	10.00	0.00
8,600.00	29.02	270.35	8,502.54	329.79	-1,093.54	1,082.64	10.00	10.00	0.00
8,650.00	34.02	270.35	8,545.16	329.95	-1,119.67	1,108.75	10.00	10.00	0.00
8,700.00	39.02	270.35	8,585.33	330.13	-1,149.41	1,138.48	10.00	10.00	0.00
8,750.00	44.02	270.35	8,622.75	330.33	-1,182.54	1,171.58	10.00	10.00	0.00
8,800.00	49.02	270.35	8,657.15	330.55	-1,218.81	1,207.83	10.00	10.00	0.00
8,850.00	54.02	270.35	8,688.26	330.79	-1,257.94	1,246.92	10.00	10.00	0.00
8,900.00	59.02	270.35	8,715.83	331.04	-1,299.62	1,288.58	10.00	10.00	0.00
8,950.00	64.02	270.35	8,739.67	331.30	-1,343.56	1,332.49	10.00	10.00	0.00
9,000.00	69.02	270.35	8,759.59	331.58	-1,389.40	1,378.30	10.00	10.00	0.00
9,050.00	74.02	270.35	8,775.43	331.87	-1,436.80	1,425.67	10.00	10.00	0.00
9,100.00	79.02	270.35	8,787.09	332.16	-1,485.41	1,474.24	10.00	10.00	0.00
9,150.00	84.02	270.35	8,794.46	332.46	-1,534.85	1,523.65	10.00	10.00	0.00
9,200.00	89.02	270.35	8,797.50	332.76	-1,584.74	1,573.50	10.00	10.00	0.00
9,207.37	89.75	270.35	8,797.58	332.81	-1,592.11	1,580.87	10.00	10.00	0.00
9,300.00	89.75	270.35	8,797.98	333.37	-1,684.73	1,673.43	0.00	0.00	0.00
9,400.00	89.75	270.35	8,798.41	333.97	-1,784.73	1,773.36	0.00	0.00	0.00
9,500.00	89.75	270.35	8,798.84	334.57	-1,884.73	1,873.29	0.00	0.00	0.00



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Site:	BARNEY PAD	North Reference:	Grid
Well:	404H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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)	
9,537.37	89.75	270.35	8,799.00	334.80	-1,922.10	1,910.64	0.00	0.00	0.00	
9,600.00	89.75	270.35	8,799.27	335.18	-1,984.73	1,973.22	0.00	0.00	0.00	
9,700.00	89.75	270.35	8,799.70	335.78	-2,084.72	2,073.15	0.00	0.00	0.00	
9,800.00	89.75	270.35	8,800.13	336.39	-2,184.72	2,173.08	0.00	0.00	0.00	
9,900.00	89.75	270.35	8,800.56	336.99	-2,284.72	2,273.01	0.00	0.00	0.00	
10,000.00	89.75	270.35	8,800.99	337.60	-2,384.71	2,372.93	0.00	0.00	0.00	
10,100.00	89.75	270.35	8,801.42	338.20	-2,484.71	2,472.86	0.00	0.00	0.00	
10,200.00	89.75	270.35	8,801.85	338.80	-2,584.71	2,572.79	0.00	0.00	0.00	
10,300.00	89.75	270.35	8,802.28	339.41	-2,684.71	2,672.72	0.00	0.00	0.00	
10,400.00	89.75	270.35	8,802.71	340.01	-2,784.70	2,772.65	0.00	0.00	0.00	
10,500.00	89.75	270.35	8,803.14	340.62	-2,884.70	2,872.58	0.00	0.00	0.00	
10,600.00	89.75	270.35	8,803.57	341.22	-2,984.70	2,972.51	0.00	0.00	0.00	
10,700.00	89.75	270.35	8,804.00	341.82	-3,084.70	3,072.44	0.00	0.00	0.00	
10,800.00	89.75	270.35	8,804.43	342.43	-3,184.69	3,172.37	0.00	0.00	0.00	
10,900.00	89.75	270.35	8,804.86	343.03	-3,284.69	3,272.29	0.00	0.00	0.00	
11,000.00	89.75	270.35	8,805.29	343.64	-3,384.69	3,372.22	0.00	0.00	0.00	
11,100.00	89.75	270.35	8,805.72	344.24	-3,484.68	3,472.15	0.00	0.00	0.00	
11,200.00	89.75	270.35	8,806.15	344.85	-3,584.68	3,572.08	0.00	0.00	0.00	
11,300.00	89.75	270.35	8,806.59	345.45	-3,684.68	3,672.01	0.00	0.00	0.00	
11,400.00	89.75	270.35	8,807.02	346.05	-3,784.68	3,771.94	0.00	0.00	0.00	
11,500.00	89.75	270.35	8,807.45	346.66	-3,884.67	3,871.87	0.00	0.00	0.00	
11,600.00	89.75	270.35	8,807.88	347.26	-3,984.67	3,971.80	0.00	0.00	0.00	
11,700.00	89.75	270.35	8,808.31	347.87	-4,084.67	4,071.73	0.00	0.00	0.00	
11,800.00	89.75	270.35	8,808.74	348.47	-4,184.67	4,171.65	0.00	0.00	0.00	
11,861.23	89.75	270.35	8,809.00	348.84	-4,245.89	4,232.84	0.00	0.00	0.00	
11,900.00	89.74	269.57	8,809.17	348.81	-4,284.66	4,271.59	2.00	-0.02	-2.00	
12,000.00	89.72	267.57	8,809.64	346.32	-4,384.63	4,371.58	2.00	-0.02	-2.00	
12,019.07	89.71	267.19	8,809.73	345.45	-4,403.67	4,390.65	2.00	-0.02	-2.00	
12,100.00	89.71	267.19	8,810.14	341.48	-4,484.51	4,471.57	0.00	0.00	0.00	
12,200.00	89.71	267.19	8,810.63	336.57	-4,584.39	4,571.55	0.00	0.00	0.00	
12,300.00	89.71	267.19	8,811.13	331.67	-4,684.26	4,671.53	0.00	0.00	0.00	
12,400.00	89.71	267.19	8,811.63	326.77	-4,784.14	4,771.52	0.00	0.00	0.00	
12,500.00	89.71	267.19	8,812.13	321.87	-4,884.02	4,871.50	0.00	0.00	0.00	
12,600.00	89.71	267.19	8,812.63	316.96	-4,983.90	4,971.48	0.00	0.00	0.00	
12,700.00	89.71	267.19	8,813.12	312.06	-5,083.78	5,071.47	0.00	0.00	0.00	
12,800.00	89.71	267.19	8,813.62	307.16	-5,183.66	5,171.45	0.00	0.00	0.00	
12,900.00	89.71	267.19	8,814.12	302.25	-5,283.53	5,271.43	0.00	0.00	0.00	
13,000.00	89.71	267.19	8,814.62	297.35	-5,383.41	5,371.42	0.00	0.00	0.00	
13,100.00	89.71	267.19	8,815.11	292.45	-5,483.29	5,471.40	0.00	0.00	0.00	
13,200.00	89.71	267.19	8,815.61	287.54	-5,583.17	5,571.38	0.00	0.00	0.00	
13,300.00	89.71	267.19	8,816.11	282.64	-5,683.05	5,671.37	0.00	0.00	0.00	
13,400.00	89.71	267.19	8,816.61	277.74	-5,782.93	5,771.35	0.00	0.00	0.00	
13,500.00	89.71	267.19	8,817.11	272.83	-5,882.81	5,871.33	0.00	0.00	0.00	
13,600.00	89.71	267.19	8,817.60	267.93	-5,982.68	5,971.32	0.00	0.00	0.00	
13,679.54	89.71	267.19	8,818.00	264.03	-6,062.13	6,050.85	0.00	0.00	0.00	
13,708.25	90.27	267.32	8,818.00	262.65	-6,090.80	6,079.55	2.00	1.95	0.45	
13,800.00	90.27	267.32	8,817.56	258.36	-6,182.45	6,171.29	0.00	0.00	0.00	
13,900.00	90.27	267.32	8,817.09	253.68	-6,282.34	6,271.27	0.00	0.00	0.00	
14,000.00	90.27	267.32	8,816.61	249.00	-6,382.23	6,371.26	0.00	0.00	0.00	
14,100.00	90.27	267.32	8,816.13	244.33	-6,482.12	6,471.25	0.00	0.00	0.00	
14,200.00	90.27	267.32	8,815.65	239.65	-6,582.01	6,571.24	0.00	0.00	0.00	
14,300.00	90.27	267.32	8,815.17	234.97	-6,681.90	6,671.22	0.00	0.00	0.00	
14,400.00	90.27	267.32	8,814.69	230.29	-6,781.79	6,771.21	0.00	0.00	0.00	
14,500.00	90.27	267.32	8,814.21	225.61	-6,881.68	6,871.20	0.00	0.00	0.00	



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Site:	BARNEY PAD	North Reference:	Grid
Well:	404H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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)	
14,600.00	90.27	267.32	8,813.73	220.93	-6,981.57	6,971.18	0.00	0.00	0.00	
14,700.00	90.27	267.32	8,813.26	216.25	-7,081.46	7,071.17	0.00	0.00	0.00	
14,800.00	90.27	267.32	8,812.78	211.57	-7,181.35	7,171.16	0.00	0.00	0.00	
14,900.00	90.27	267.32	8,812.30	206.90	-7,281.24	7,271.14	0.00	0.00	0.00	
15,000.00	90.27	267.32	8,811.82	202.22	-7,381.13	7,371.13	0.00	0.00	0.00	
15,100.00	90.27	267.32	8,811.34	197.54	-7,481.01	7,471.12	0.00	0.00	0.00	
15,200.00	90.27	267.32	8,810.86	192.86	-7,580.90	7,571.11	0.00	0.00	0.00	
15,300.00	90.27	267.32	8,810.38	188.18	-7,680.79	7,671.09	0.00	0.00	0.00	
15,400.00	90.27	267.32	8,809.91	183.50	-7,780.68	7,771.08	0.00	0.00	0.00	
15,500.00	90.27	267.32	8,809.43	178.82	-7,880.57	7,871.07	0.00	0.00	0.00	
15,600.00	90.27	267.32	8,808.95	174.14	-7,980.46	7,971.05	0.00	0.00	0.00	
15,700.00	90.27	267.32	8,808.47	169.47	-8,080.35	8,071.04	0.00	0.00	0.00	
15,800.00	90.27	267.32	8,807.99	164.79	-8,180.24	8,171.03	0.00	0.00	0.00	
15,900.00	90.27	267.32	8,807.51	160.11	-8,280.13	8,271.01	0.00	0.00	0.00	
16,000.00	90.27	267.32	8,807.03	155.43	-8,380.02	8,371.00	0.00	0.00	0.00	
16,100.00	90.27	267.32	8,806.56	150.75	-8,479.91	8,470.99	0.00	0.00	0.00	
16,200.00	90.27	267.32	8,806.08	146.07	-8,579.80	8,570.98	0.00	0.00	0.00	
16,300.00	90.27	267.32	8,805.60	141.39	-8,679.69	8,670.96	0.00	0.00	0.00	
16,400.00	90.27	267.32	8,805.12	136.71	-8,779.58	8,770.95	0.00	0.00	0.00	
16,500.00	90.27	267.32	8,804.64	132.03	-8,879.47	8,870.94	0.00	0.00	0.00	
16,600.00	90.27	267.32	8,804.16	127.36	-8,979.35	8,970.92	0.00	0.00	0.00	
16,700.00	90.27	267.32	8,803.68	122.68	-9,079.24	9,070.91	0.00	0.00	0.00	
16,800.00	90.27	267.32	8,803.20	118.00	-9,179.13	9,170.90	0.00	0.00	0.00	
16,842.71	90.27	267.32	8,803.00	116.00	-9,221.80	9,213.61	0.00	0.00	0.00	
16,900.00	90.27	267.32	8,802.73	113.32	-9,279.02	9,270.88	0.00	0.00	0.00	
17,000.00	90.27	267.32	8,802.25	108.64	-9,378.91	9,370.87	0.00	0.00	0.00	
17,072.97	90.27	267.32	8,801.90	105.23	-9,451.80	9,443.83	0.00	0.00	0.00	



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Site:	BARNEY PAD	North Reference:	Grid
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Wellbore:	Wellbore #1		
Design:	PLAN #4		

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 SHL: 678' FSL - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	515,308.90	580,454.80	32.416587	-104.206567
PLAN TURN POINT/k - plan hits target center - Point	0.00	0.00	8,224.63	329.36	-1,021.63	515,638.26	579,433.17	32.417496	-104.209877
PLAN #4 LP (#404) - plan hits target center - Point	0.00	0.00	8,797.58	332.81	-1,592.11	515,641.71	578,862.69	32.417507	-104.211726
PLAT FTP: 1000' FSL - plan hits target center - Point	0.00	0.00	8,799.00	334.80	-1,922.10	515,643.70	578,532.70	32.417514	-104.212795
PLAT BHL: 1000' FSL - plan misses target center by 0.07usft at 17072.97usft MD (8801.90 TVD, 105.23 N, -9451.80 E) - Point	0.00	0.00	8,801.90	105.30	-9,451.80	515,414.20	571,003.00	32.416904	-104.237197
PLAT LTP: 1000' FSL - plan hits target center - Point	0.00	0.00	8,803.00	116.00	-9,221.80	515,424.90	571,233.00	32.416933	-104.236452
PLAN SEC. X-ING (# - plan hits target center - Point	0.00	0.00	8,809.00	348.84	-4,245.89	515,657.74	576,208.91	32.417559	-104.220326
PLAN CONTROL POI - plan hits target center - Point	0.00	0.00	8,818.00	264.03	-6,062.13	515,572.93	574,392.67	32.417331	-104.226212

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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 137504

CONDITIONS

Operator: SPC RESOURCES, LLC P.O. Box 1020 Artesia, NM 88211	OGRID: 372262
	Action Number: 137504
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	8/29/2022