

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

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

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

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Form C-101
Revised July 18, 2013

Energy Minerals and Natural Resources

Oil Conservation Division

☐ AMENDED REPORT

1220 South St. Francis Dr.

Santa Fe, NM 87505

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address SPC Resources, LLC P.O. Box 1020 Artesia, NM 88211		² OGRID Number 372262
		³ API Number 30-015-34055
⁴ Property Code 27678 331802	⁵ Property Name Tracy C Com 2 St	⁶ Well No. 443H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
H	32	21 S	27 E		2469	North	440	East	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
L	32	21 S	27 E		2300	South	100	West	Eddy

9. Pool Information

PURPLE SAGE , WOLFCAMP (GAS)	Pool Name Carlsbad; Wolfcamp East	Pool Code 98220 74160
-----------------------------------------	---------------------------------------------	--------------------------------------------

Additional Well Information

¹¹ Work Type Add New Zone	¹² Well Type GAS	¹³ Cable/Rotary	¹⁴ Lease Type Private	¹⁵ Ground Level Elevation 3119
¹⁶ Multiple N	¹⁷ Proposed Depth	¹⁸ Formation Wolfcamp	¹⁹ Contractor	²⁰ Spud Date 1-1-2022
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

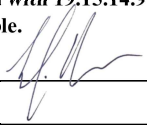
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Production	6.125	4.5	13.5	14388	520	8750
Production	6.125	5.5	20	8750	250	0

Casing/Cement Program: Additional Comments

Plan to exit existing 7" casing at 5200' and run and cement a combination long string of 4-1/2 and 5-1/2" flush joint and cement to surface.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular/Blind/Pipe	5000 psi	3500 psi	Hydril

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> , if applicable. Signature:  Printed name: Lelan J Anders Title: Vice President of Operations E-mail Address: LAnders@SantoPetroleum.com Date: 11/8/2021	OIL CONSERVATION DIVISION	
	Approved By:	
	Title:	
	Approved Date:	Expiration Date:
	Conditions of Approval Attached	

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-34055	Pool Code 74160	Pool Name CARLSBAD, WOLFCAMP, EAST (GAS)
Property Code 331802	Property Name TRACY C 2	Well Number 443H
OGRID No. 192463	Operator Name SPC RESOURCES, LLC	Elevation 3119'

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	32	21 S	27 E		2469	NORTH	440	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
L	32	21 S	27 E		2300	SOUTH	100	WEST	EDDY
Dedicated Acres	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

<p>N: 525232.0 E: 576013.5 (NAD83)</p> <p>BOTTOM HOLE LOCATION Lat - N 32.435396° Long - W 104.220483° NMSPC- N 522146.6 E 576153.3 (NAD-83) Lat - N 32.435178° Long - W 104.219979° NMSPC- N 522086.6 E 534972.2 (NAD-27)</p> <p>LAST TAKE POINT 2300' FSL & 330' FWL Lat - N 32.435399° Long - W 104.219738° NMSPC- N 522147.7 E 576393.3 (NAD-83) Lat - N 32.435281° Long - W 104.219234° NMSPC- N 522087.7 E 535202.2 (NAD-27)</p> <p>FIRST TAKE POINT 2300' FSL & 330' FEL Lat - N 32.435441° Long - W 104.204517° NMSPC- N 522168.5 E 581079.1 (NAD-83) Lat - N 32.435323° Long - W 104.204013° NMSPC- N 522108.4 E 539898.0 (NAD-27)</p> <p>N: 519847.2 E: 576084.1 (NAD83)</p> <p>N: 519860.5 E: 578748.8 (NAD83)</p>	<p>N: 525162.8 E: 581408.9 (NAD83)</p> <p>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.</p> <p>11/23/2021 Signature _____ Date Lelan J Anders Printed Name LAnders@SantoPetroleum.com Email Address</p> <p>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.</p> <p>OCTOBER 28, 2021 Date Surveyed Signature & Seal of Professional Surveyor 7977 Certificate No. Gary L. Jones 7977 BASIN SURVEYS</p> <p>0' 500' 1000' 1500' 2000' N SCALE: 1" = 1000' WO Num.: 35515</p>
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: SPC Resources, LLC **OGRID:** 372262 **Date:** 11 / 02 / 2021

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Tracy C Com #2	30-015-34055	H-32-21S-27E	2460 FNL 440 FEL	490 bopd	5700 mcfd	2800 bwpd

IV. Central Delivery Point Name: Tracy C Com CTB [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Tracy C Com #2	30-015-3455	est 2-1-2022	est 2-15-2022	est 3-1-2022	est 3-15-2022	est 4-1-2022

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan**EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☒ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☒ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☒ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☒ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices


1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

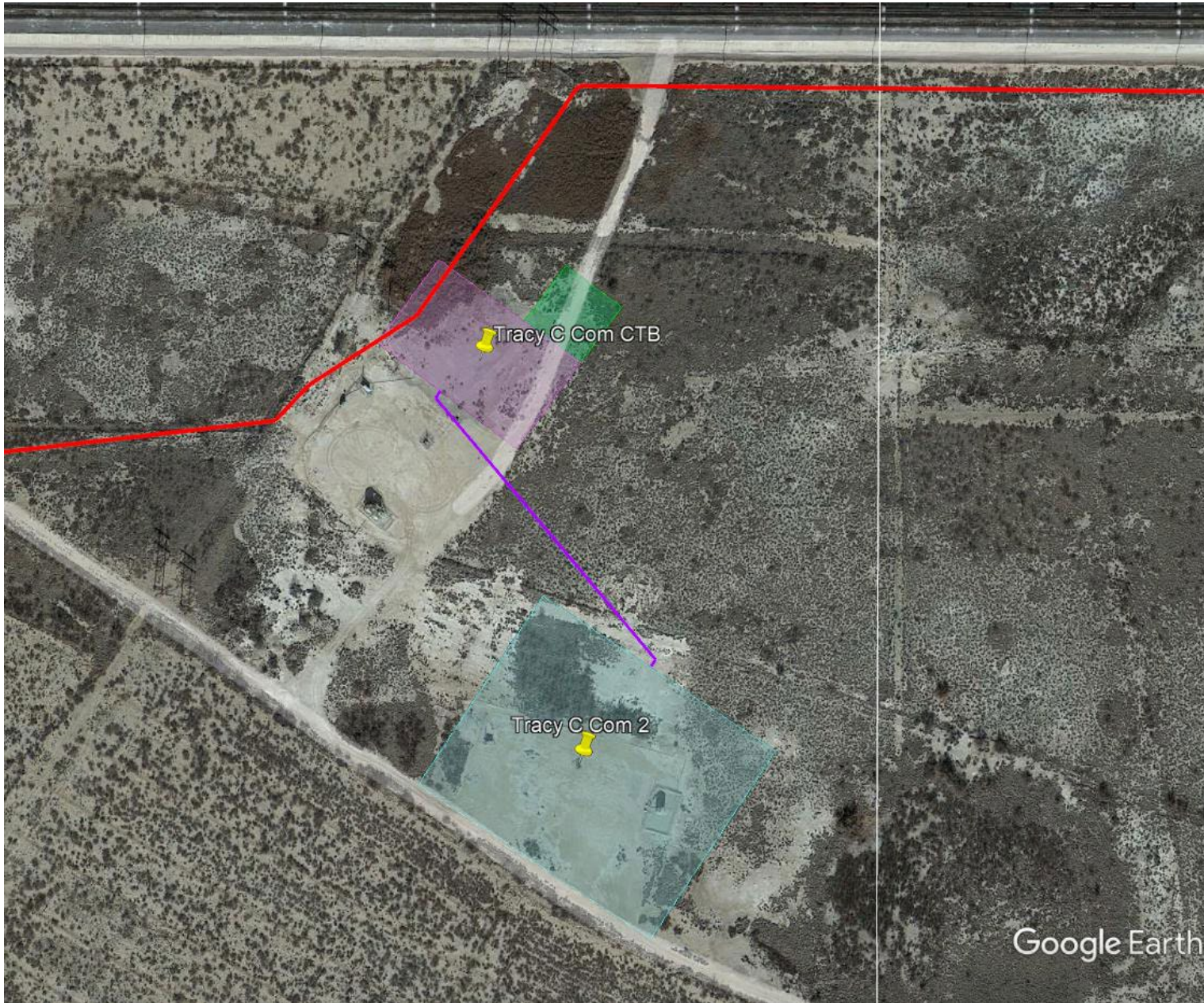
Signature: 
Printed Name: Lelan J Anders
Title: Vice President of Operations
E-mail Address: LAnders@SantoPetroleum.com
Date: 11/2/2021
Phone: 575-736-3250
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Natural Gas Management Plan – Attachment

- VI.** Separation equipment will be sized by construction engineering staff based on stated manufacturer daily throughput capacities and anticipated daily production rates to ensure adequate capacity. Closed vent system piping, compression needs, and VRUs will be sized utilizing AspenTech HYSYS modeling software to ensure adequate capacity for anticipated production volumes and conditions.
- VII.** SPC Resources, LLC (SPC) will take the following actions to comply with the regulations listed in 19.15.27.8:
- A.** SPC will maximize the recovery of natural gas by minimizing the waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. SPC will ensure that well(s) will be connected to a natural gas gathering system with sufficient capacity to transport natural gas. If there is no adequate takeaway for the gas, compression will be added to deliver volumes that are produced, well production may also be curtailed to manage the flow of gas and not overrun compression.
 - B.** All drilling operations will be equipped with a rig flare located at least 100' from the nearest surface hole. Rig flare will be utilized to combust any natural gas that is brought to surface during normal drilling operations.
 - C.** During completion operations any natural gas brought to surface will be flared. Immediately following the finish of completion operations, all well flowback will be directed to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. It is not anticipated that gas will not meet pipeline standards. However, if natural gas does not meet gathering pipeline quality specifications, SPC will flare the natural gas for up to 60 days or until the natural gas meets the pipeline quality specifications, whichever is sooner. SPC will ensure that the flare is sized properly and is equipped with automatic igniter or continuous pilot. The gas sample will be analyzed twice per week and the gas will be routed into a gathering system as soon as pipeline specifications are met.
 - D.** Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D.(1) through (4). If there is no adequate takeaway for the separator gas, well(s) will be curtailed until the natural gas gathering system is available with exception of emergency or malfunction situations. Venting and/or flaring volumes will be measured using a TOTAL FLOW meter and reported appropriately.
 - E.** SPC will comply with the performance standards requirements and provisions listed in 19.15.27.8 E.(1) through (8). All equipment will be designed and sized to handle maximum anticipated pressures and throughputs to minimize the waste. Production storage tanks constructed after May 25, 2021, will be equipped with automatic gauging system. Flares constructed after May 25, 2021, will be equipped with automatic igniter or continuous pilot. Flares will be located at least 100' from the well and storage tanks unless otherwise approved by the division. SPC will conduct AVO inspections as described in 19.15.27.8 E (5) (a) with frequencies specified in 19.15.27.8 E (5) (b) and (c). All emergencies will be resolved as quickly and safely as feasible to minimize waste.

F. The volume of natural gas that is vented or flared as the result of malfunction or emergency during drilling and completions operations will be estimated. The volume of natural gas that is vented, flared, or beneficially used during production operations, will be measured, or estimated. SPC will install equipment to measure the volume of natural gas flared from existing process piping, or a flowline piped from equipment such as high-pressure separators, heater treaters, or vapor recovery units associated with a well or facility associated with a well authorized by an SPC issued after May 25, 2021, that has an average daily production greater than 60 Mcf/day. If metering is not practicable due to circumstances such as low flow rate or low pressure venting and flaring, SPC will estimate the volume of vented or flared natural gas. Measuring equipment will conform to industry standards and will not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.

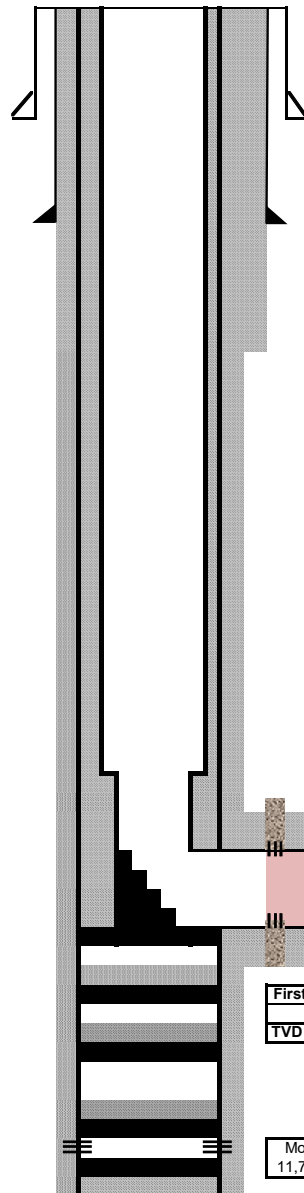
VIII. For maintenance activities involving production equipment and compression, venting will be limited to the depressurization of the subject equipment to ensure safe working conditions. For maintenance of production and compression equipment the associated producing wells will be shut in to eliminate venting. For maintenance of VRUs all gas normally routed to the VRU will be routed to flare to eliminate venting.




Red – Existing Enterprise
Field Services 61730 TO X99
NWI well tie in line

Purple – Santo flow line to
connect well to Tracy C Com
CTB

Depth	Hole Size	Casing Data	Lithology	Fluid	Cement
400'	26"	20" 94# H-40			1220 sx TOC @ Surface
2,714'	17-1/2"	9-5/8"			1485 sx TOC @ Surface
9,580'	8-3/4"	7" 26#			815 sx TOC @ 2040' via Temp Survey
Surface to 8600'	Surface to 5200' 7" CSG ID 5200' to 8750' 6-1/8" Open Hole	5-1/2" 20# HCP-110 Flush Joint		Oil Based Mud 8.5 ppg to 10.0 ppg	Lead: 250 sxs 50/50 POZ H Tail: 820 sxs Class H
8750' to 14,388'	6-1/8" Open Hole	4-1/2" 13.5# HCP-110		Oil Based Mud 8.5 ppg to 10.5 ppg	



 SANTO PETROLEUM PLANNED WELLBORE DIAGRAM	Tracy C Com 2 ST 443H	
	FIELD: [98220] - PURPLE SAGE; WOLFCAMP (GAS)	API #: 30-015-34055
	CO, ST: Eddy Co, New Mexico	D&C AFE #:
	COST CODE:	GEOMETRY: Horizontal
	LOCATION: Lat: 32.43691°, Long: -104.20492° or H-32-21S-27E	
	STATUS: Permit Pending	SPUD DATE: 6/2/2005
	LATEST RIG WORKOVER:	COMPLETED:
	DIAGRAM REVISED: 10/11/2021	REVISED BY: LJA

First Take Point
TVD 9,714
9316

4,424' Effective Lateral Length

Avg TVD	9333
Avg BHT	200
Est BHP	4667

Production Casing Shoe
14,378

TD Well
14,388'

Last Take Point
14,138
TVD 9350

Morrow Perfs
11,756 - 11790'



Santo Petroleum

Eddy County, NM (NAD 83 - NME)

TRACY C COM

#2

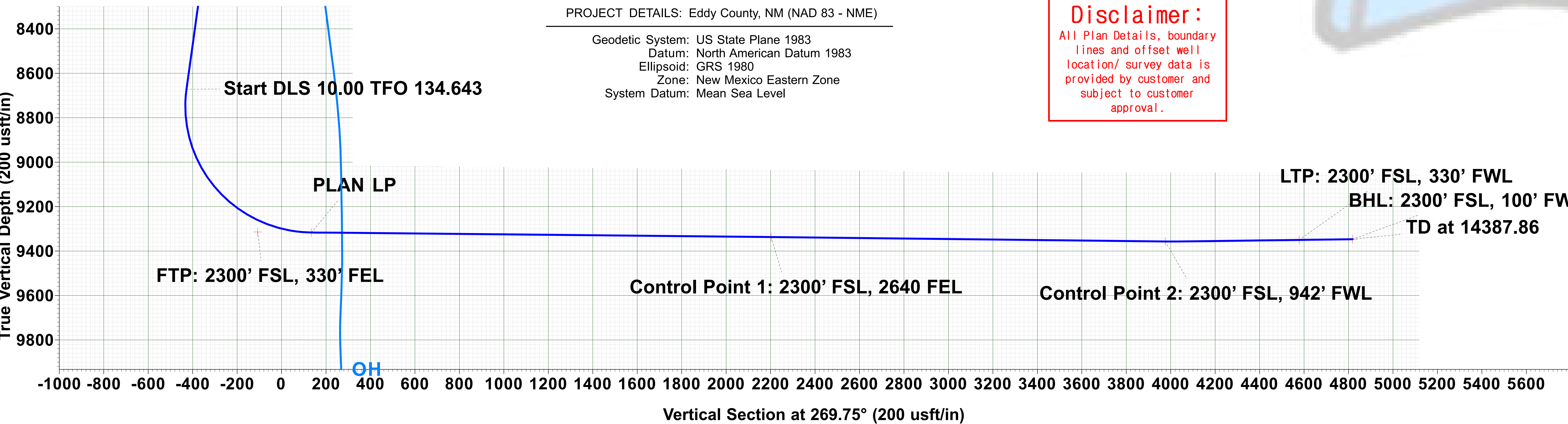
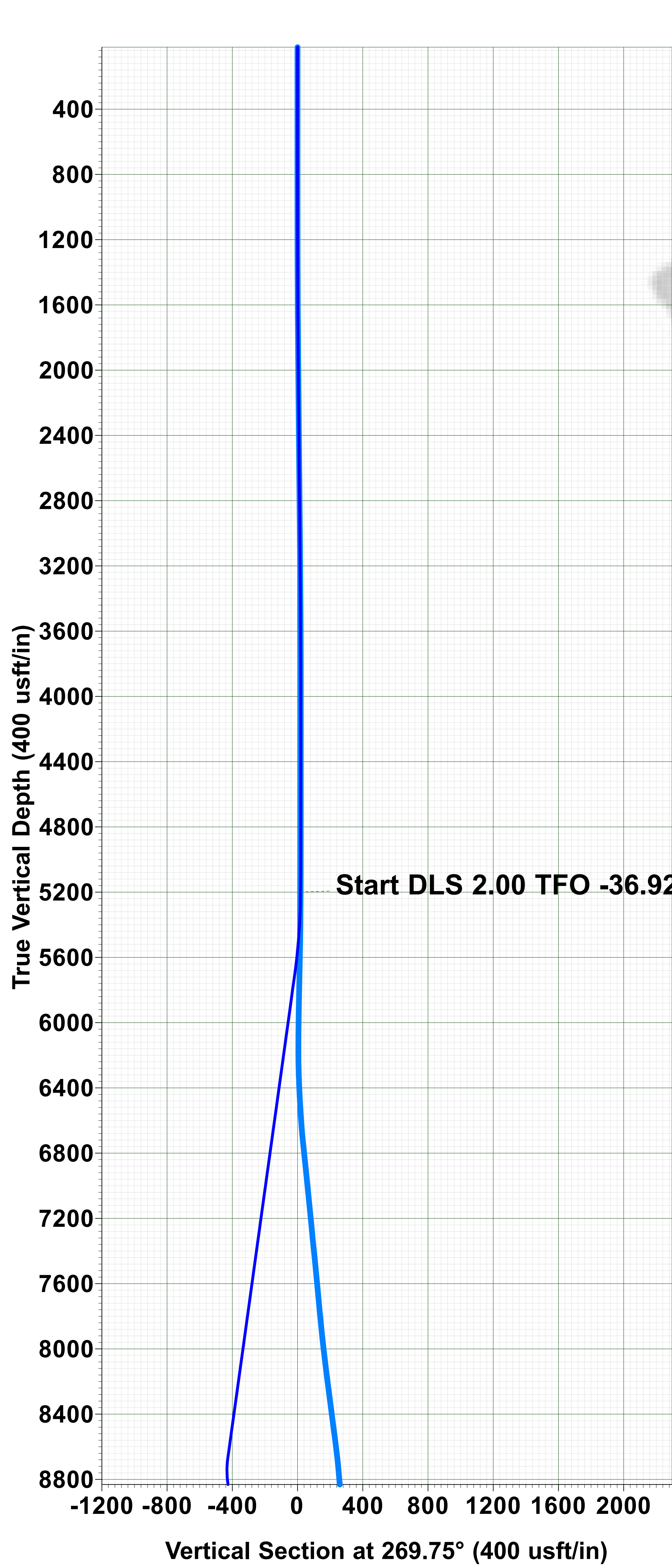
ST01

Plan: PLAN #2

Standard Planning Report

04 November, 2021





Company: Santo Petroleum
Project: Eddy County, NM (NAD 83 - NME)
Site: TRACY C COM
Well: #2
Wellbore: ST01
Rig:
Design: PLAN #2 / 9:33, November 04 2021

WELL DETAILS: #2

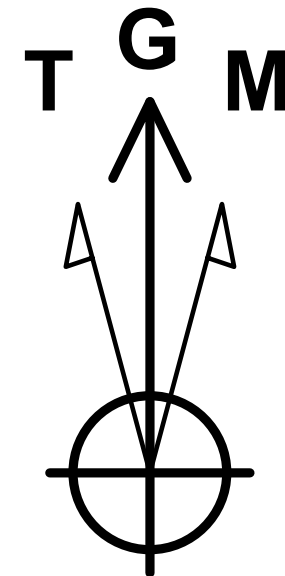
RKB = 25' @ 3144.00usft						
3119.00						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	522699.10	580969.10	32.436900	-104.204872	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect
1	5200.00	1.11	168.21	5199.81	5.87	-18.50	0.00	18.47
2	5707.61	11.06	134.70	5703.98	-33.30	17.21	2.00	-17.07
3	8731.41	11.06	134.70	8671.63	-441.31	429.54	0.00	-427.61
4	9703.87	89.43	269.80	9316.43	-531.34	-132.14	10.00	134.46
5	11771.87	89.43	269.80	9337.00	-538.56	-2200.03	0.00	2202.36
6	11777.47	89.35	269.72	9337.06	-538.58	-2205.63	2.00	2207.96
7	13545.02	89.35	269.72	9357.00	-547.28	-3973.05	0.00	3975.40
8	13614.89	90.75	269.60	9356.94	-547.69	-4042.91	2.00	4045.26
9	14147.83	90.75	269.60	9350.00	-551.40	-4575.80	0.00	4578.16
10	14387.86	90.75	269.60	9346.87	-553.07	-4815.80	0.00	4818.16

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL: 2469' FNL, 440' FEL	0.00	0.00	0.00	522699.10	580969.10	32.436900	-104.204872
FTP: 2300' FSL, 330' FEL	9314.00	-530.60	110.00	522168.50	581079.10	32.435441	-104.204517
PLAN LP	9316.43	-531.34	-132.14	522167.76	580836.96	32.435440	-104.205302
Control Point 1: 2300' FSL, 2640 FEL	9337.00	-538.56	-2200.03	522160.54	578769.07	32.435427	-104.212005
BHL: 2300' FSL, 100' FWL	9346.87	-552.50	-4815.80	522146.60	576153.30	32.435396	-104.220483
LTP: 2300' FSL, 330' FWL	9350.00	-551.40	-4575.80	522147.70	576393.30	32.435398	-104.219706
Control Point 2: 2300' FSL, 942' FWL	9357.00	-547.28	-3973.05	522151.82	576996.05	32.435408	-104.217752



Azimuths to Grid North
True North: -0.07°
Magnetic North: 6.73°

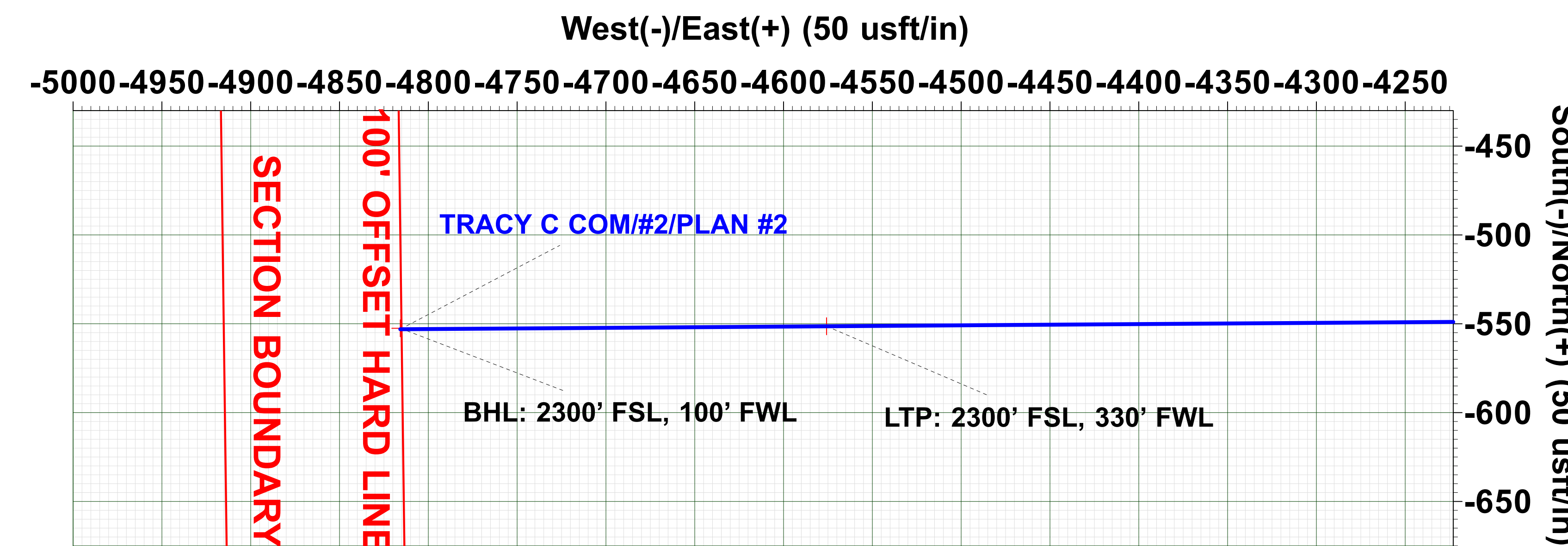
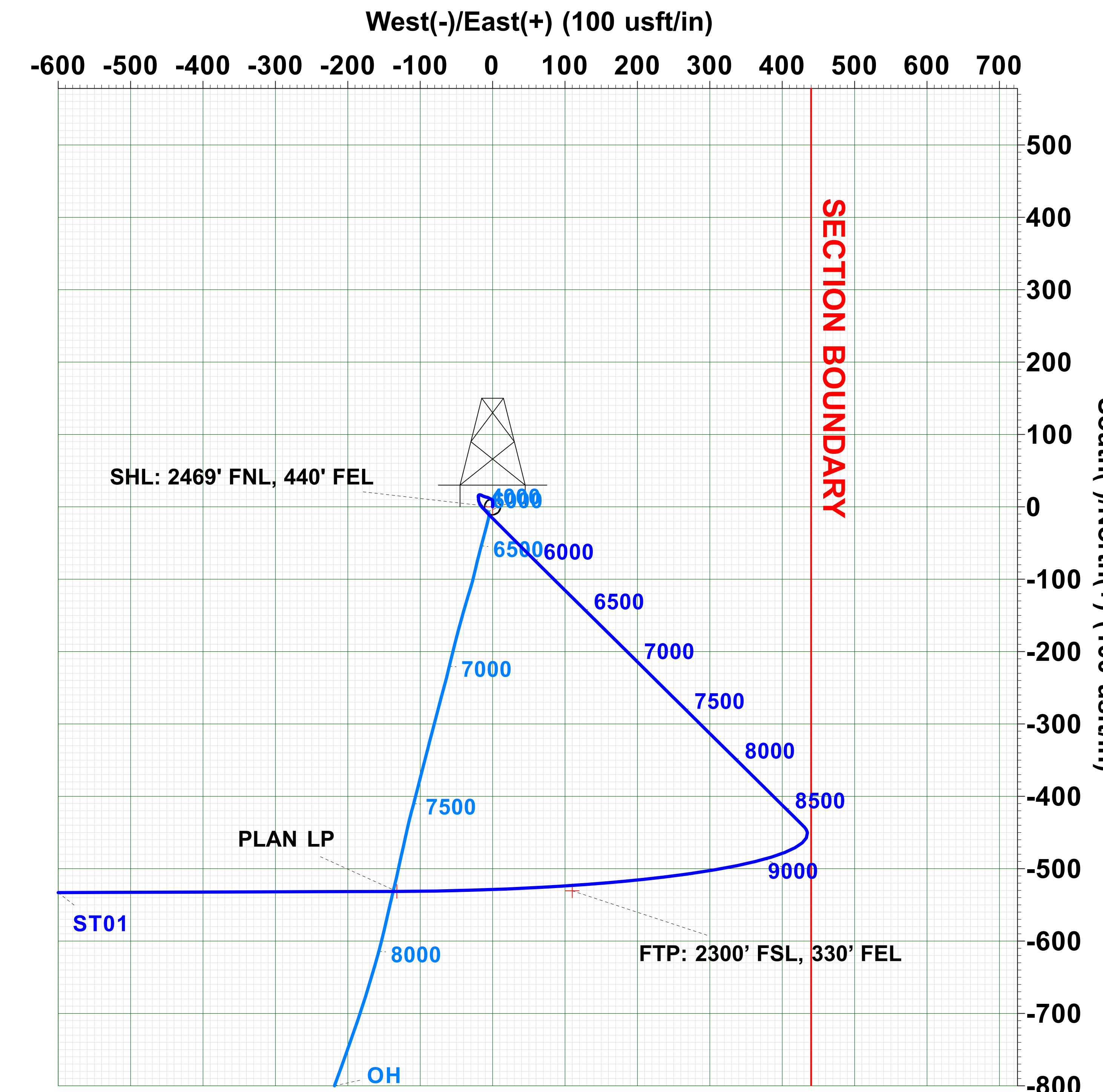
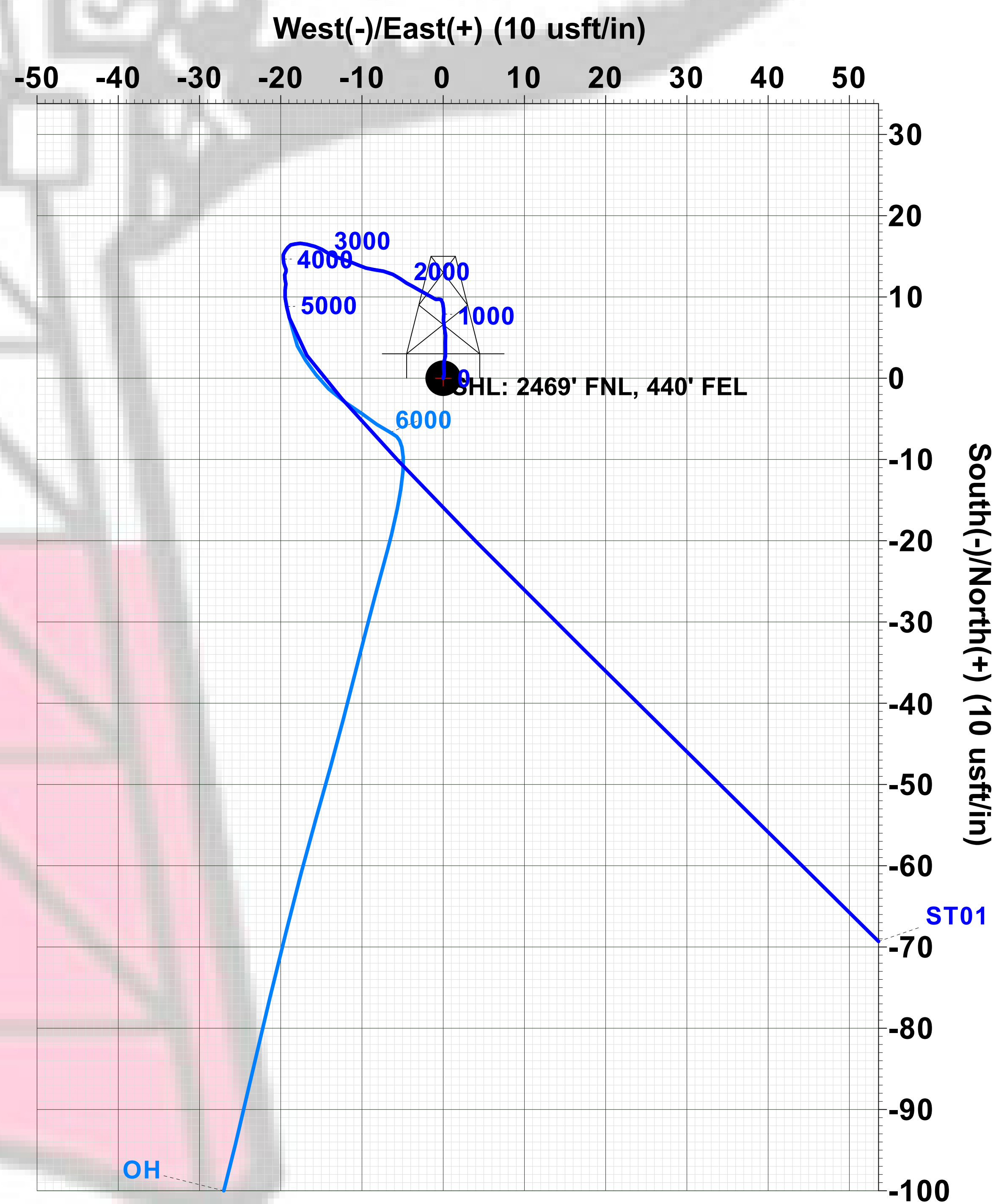
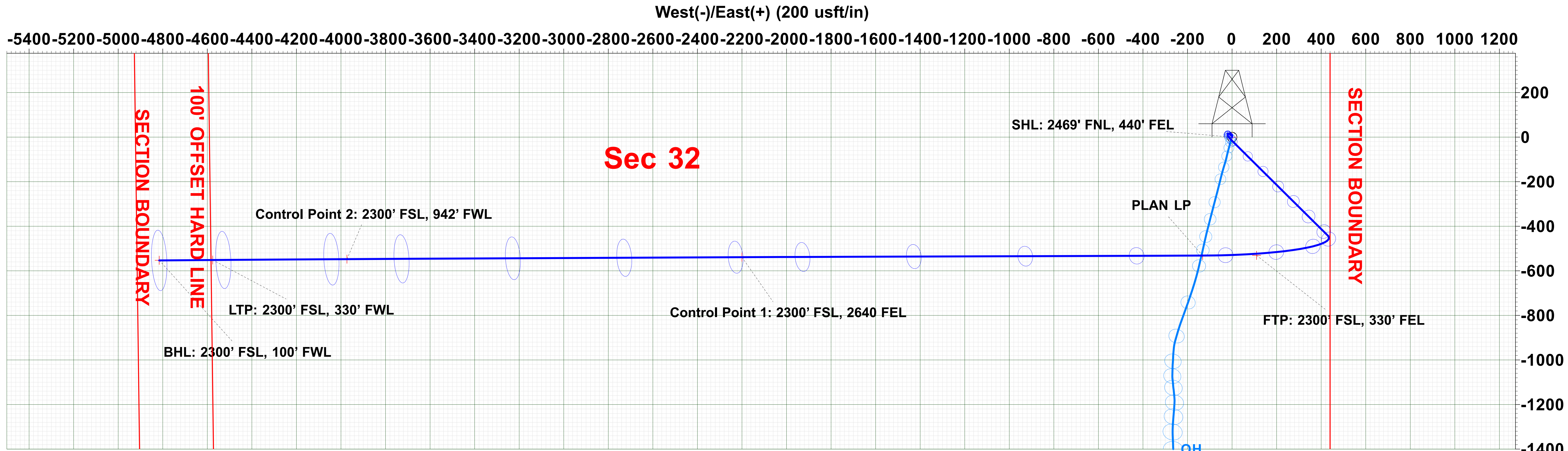
Magnetic Field
Strength: 47506.5snT
Dip Angle: 59.98°
Date: 12/6/2021
Model: IGRF2020

CORRECTION REFERENCE DATA:

To convert a Magnetic Direction to a Grid Direction, Add 6.730°
To convert a True Direction to a Grid Direction, Subtract 0.069°
To convert a Magnetic Direction to a True Direction, Add 6.799° East
Magnetic Declination: 6.799°
Magnetic Dip Angle: 59.984°
Magnetic Field Strength: 47506.45304969nT

Disclaimer:

All Plan Details, boundary lines and offset well location/ survey data is provided by customer and subject to customer approval.



Plan: PLAN #2 (#2/ST01)

Created By: Matthew May Date: 9:33, November 04 2021

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) 476-3480 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 73280	Pool Name BURTON FLAT MORROW
Property Code 27678	Property Name TRACY C COM	Well Number 2H
OGRID No. 192463	Operator Name SPC RESOURCES, LLC	Elevation 3119'

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	32	21 S	27 E		2469	NORTH	440	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
L	32	21 S	27 E		2300	SOUTH	100	WEST	EDDY
Dedicated Acres	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

<p>N.: 525232.0 E.: 576013.5 (NAD83)</p>		<p>N.: 525162.8 E.: 581408.9 (NAD83)</p>	
<p>BOTTOM HOLE LOCATION</p> <p>Lat - N 32.435396° Long - W 104.220483° NMSPC- N 522146.6 E 576153.3 (NAD-83)</p> <p>Lat - N 32.435178° Long - W 104.219979° NMSPC- N 522086.6 E 534972.2 (NAD-27)</p>		<p>LAST TAKE POINT 2300' FSL & 330' FWL</p> <p>Lat - N 32.435399° Long - W 104.219738° NMSPC- N 522147.7 E 576393.3 (NAD-83)</p> <p>Lat - N 32.435281° Long - W 104.219234° NMSPC- N 522087.7 E 535202.2 (NAD-27)</p>	
<p>N.: 519847.2 E.: 576084.1 (NAD83)</p>		<p>N.: 519860.5 E.: 578748.8 (NAD83)</p>	
<p>FIRST TAKE POINT 2300' FSL & 330' FEL</p> <p>Lat - N 32.435441° Long - W 104.204517° NMSPC- N 522168.5 E 581079.1 (NAD-83)</p> <p>Lat - N 32.435323° Long - W 104.204013° NMSPC- N 522108.4 E 539898.0 (NAD-27)</p>		<p>SURFACE LOCATION</p> <p>Lat - N 32.436900° Long - W 104.204872° NMSPC- N 522699.1 E 580969.1 (NAD-83)</p> <p>Lat - N 32.436782° Long - W 104.204368° NMSPC- N 522639.0 E 539788.0 (NAD-27)</p>	

2469'

440'

2300'

100'

BH LTP

FTP

S.L.

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.

OCTOBER 28, 2021

Date Surveyed _____

Signature & Seal of Professional Surveyor _____

Certificate No. Gary L. Jones 7977

BASIN SURVEYS

0' 500' 1000' 1500' 2000'

SCALE: 1" = 1000'

WO Num.: 35515



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #2
Company:	Santo Petroleum	TVD Reference:	RKB = 25' @ 3144.00usft
Project:	Eddy County, NM (NAD 83 - NME)	MD Reference:	RKB = 25' @ 3144.00usft
Site:	TRACY C COM	North Reference:	Grid
Well:	#2	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	PLAN #2		

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		TRACY C COM			
Site Position:		Northing:	522,704.58 usft	Latitude:	32.436915
From:	Lat/Long	Easting:	580,968.70 usft	Longitude:	-104.204873
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.069

Well	#2					
Well Position	+N/-S	-5.48 usft	Northing:	522,699.10 usft	Latitude:	32.436900
	+E/-W	0.41 usft	Easting:	580,969.10 usft	Longitude:	-104.204872
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,119.00 usft

Wellbore	ST01				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	12/6/2021	6.799	59.984	47,506.45304969

Design	PLAN #2				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	5,200.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	269.75	

Plan Survey Tool Program	Date	11/4/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	5,200.00	14,387.79	PLAN #2 (ST01)		



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #2
Company:	Santo Petroleum	TVD Reference:	RKB = 25' @ 3144.00usft
Project:	Eddy County, NM (NAD 83 - NME)	MD Reference:	RKB = 25' @ 3144.00usft
Site:	TRACY C COM	North Reference:	Grid
Well:	#2	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	PLAN #2		

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
5,200.00	1.11	168.21	5,199.81	5.87	-18.50	0.00	0.00	0.00	0.000	
5,707.61	11.06	134.70	5,703.98	-33.30	17.21	2.00	1.96	-6.60	-36.929	
8,731.42	11.06	134.70	8,671.63	-441.31	429.54	0.00	0.00	0.00	0.000	
9,703.87	89.43	269.80	9,316.43	-531.34	-132.14	10.00	8.06	13.89	134.643	
11,771.87	89.43	269.80	9,337.00	-538.56	-2,200.03	0.00	0.00	0.00	0.000	Control Point 1: 2300' FSL, 330'
11,777.47	89.35	269.72	9,337.06	-538.58	-2,205.63	2.00	-1.36	-1.46	-133.003	
13,545.02	89.35	269.72	9,357.00	-547.28	-3,973.05	0.00	0.00	0.00	0.000	Control Point 2: 2300' FSL, 330'
13,614.89	90.75	269.60	9,356.94	-547.69	-4,042.91	2.00	1.99	-0.17	-4.781	
14,147.83	90.75	269.60	9,350.00	-551.40	-4,575.80	0.00	0.00	0.00	0.000	LTP: 2300' FSL, 330'
14,387.86	90.75	269.60	9,346.87	-553.07	-4,815.80	0.00	0.00	0.00	0.000	BHL: 2300' FSL, 10'



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #2
Company:	Santo Petroleum	TVD Reference:	RKB = 25' @ 3144.00usft
Project:	Eddy County, NM (NAD 83 - NME)	MD Reference:	RKB = 25' @ 3144.00usft
Site:	TRACY C COM	North Reference:	Grid
Well:	#2	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	PLAN #2		

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
103.00	0.52	11.52	103.00	0.44	0.09	-0.09	0.50	0.50	0.00
203.00	0.42	343.18	203.00	1.24	0.08	-0.08	0.25	-0.10	-28.34
303.00	0.42	17.34	302.99	1.94	0.08	-0.09	0.25	0.00	34.16
403.00	0.52	10.53	402.99	2.74	0.27	-0.28	0.11	0.10	-6.81
503.00	0.53	349.68	502.99	3.64	0.27	-0.29	0.19	0.01	-20.85
603.00	0.35	14.40	602.98	4.39	0.26	-0.28	0.26	-0.18	24.72
703.00	0.68	355.59	702.98	5.28	0.29	-0.32	0.37	0.33	-18.81
803.00	0.55	346.02	802.97	6.33	0.13	-0.16	0.17	-0.13	-9.57
903.00	0.44	1.46	902.97	7.18	0.03	-0.06	0.17	-0.11	15.44
1,003.00	0.42	7.02	1,002.97	7.93	0.08	-0.12	0.05	-0.02	5.56
1,103.00	0.41	345.44	1,102.96	8.64	0.04	-0.07	0.16	-0.01	-21.58
1,203.00	0.28	359.27	1,202.96	9.23	-0.06	0.02	0.15	-0.13	13.83
1,303.00	0.31	317.03	1,302.96	9.67	-0.24	0.20	0.21	0.03	-42.24
1,403.00	0.19	216.57	1,402.96	9.74	-0.53	0.49	0.39	-0.12	-100.46
1,503.00	0.34	290.51	1,502.96	9.71	-0.90	0.86	0.34	0.15	73.94
1,603.00	0.53	304.68	1,602.96	10.08	-1.56	1.52	0.22	0.19	14.17
1,703.00	0.40	291.42	1,702.95	10.47	-2.27	2.22	0.17	-0.13	-13.26
1,803.00	0.52	304.80	1,802.95	10.85	-2.97	2.92	0.16	0.12	13.38
1,903.00	0.53	294.84	1,902.95	11.31	-3.76	3.71	0.09	0.01	-9.96
2,003.00	0.48	301.68	2,002.94	11.72	-4.53	4.48	0.08	-0.05	6.84
2,103.00	0.54	307.86	2,102.94	12.23	-5.26	5.21	0.08	0.06	6.18
2,203.00	0.71	295.64	2,202.93	12.79	-6.19	6.14	0.22	0.17	-12.22
2,303.00	0.70	281.15	2,302.92	13.17	-7.35	7.29	0.18	-0.01	-14.49
2,403.00	0.67	277.24	2,402.92	13.37	-8.53	8.47	0.06	-0.03	-3.91
2,503.00	0.48	286.94	2,502.91	13.56	-9.51	9.45	0.21	-0.19	9.70
2,603.00	0.67	294.55	2,602.91	13.93	-10.44	10.38	0.20	0.19	7.61
2,703.00	0.65	288.67	2,702.90	14.35	-11.51	11.45	0.07	-0.02	-5.88
2,803.00	0.58	288.79	2,802.89	14.70	-12.53	12.47	0.07	-0.07	0.12
2,903.00	0.52	294.46	2,902.89	15.05	-13.42	13.36	0.08	-0.06	5.67
3,003.00	0.48	296.04	3,002.89	15.42	-14.21	14.14	0.04	-0.04	1.58
3,103.00	0.49	306.78	3,102.88	15.86	-14.93	14.86	0.09	0.01	10.74
3,203.00	0.62	282.03	3,202.88	16.23	-15.80	15.73	0.27	0.13	-24.75
3,303.00	0.55	287.99	3,302.87	16.49	-16.79	16.72	0.09	-0.07	5.96
3,403.00	0.40	264.76	3,402.87	16.60	-17.59	17.52	0.24	-0.15	-23.23
3,503.00	0.34	260.19	3,502.87	16.52	-18.23	18.16	0.07	-0.06	-4.57
3,603.00	0.30	255.32	3,602.87	16.40	-18.78	18.71	0.05	-0.04	-4.87
3,703.00	0.30	202.43	3,702.86	16.10	-19.13	19.06	0.27	0.00	-52.89
3,803.00	0.37	226.03	3,802.86	15.63	-19.46	19.39	0.15	0.07	23.60
3,903.00	0.24	176.41	3,902.86	15.20	-19.68	19.62	0.28	-0.13	-49.62
4,003.00	0.39	181.69	4,002.86	14.65	-19.68	19.61	0.15	0.15	5.28
4,103.00	0.16	151.79	4,102.86	14.18	-19.62	19.56	0.26	-0.23	-29.90
4,203.00	0.29	167.60	4,202.86	13.81	-19.50	19.44	0.14	0.13	15.81
4,303.00	0.22	146.33	4,302.86	13.41	-19.34	19.28	0.12	-0.07	-21.27
4,403.00	0.20	220.58	4,402.86	13.12	-19.35	19.29	0.25	-0.02	74.25
4,503.00	0.29	188.98	4,502.86	12.73	-19.50	19.45	0.16	0.09	-31.60
4,603.00	0.36	168.35	4,602.85	12.18	-19.48	19.42	0.14	0.07	-20.63
4,703.00	0.31	169.54	4,702.85	11.60	-19.37	19.31	0.05	-0.05	1.19
4,803.00	0.53	197.59	4,802.85	10.89	-19.46	19.41	0.29	0.22	28.05
4,903.00	0.60	164.89	4,902.85	9.95	-19.46	19.42	0.33	0.07	-32.70
5,003.00	0.77	174.37	5,002.84	8.77	-19.26	19.22	0.20	0.17	9.48
5,103.00	0.82	159.17	5,102.83	7.44	-18.94	18.90	0.22	0.05	-15.20
5,200.00	1.11	168.21	5,199.81	5.87	-18.50	18.47	0.34	0.30	9.32
5,300.00	2.96	144.28	5,299.75	2.82	-16.79	16.78	2.00	1.85	-23.92



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #2
Company:	Santo Petroleum	TVD Reference:	RKB = 25' @ 3144.00usft
Project:	Eddy County, NM (NAD 83 - NME)	MD Reference:	RKB = 25' @ 3144.00usft
Site:	TRACY C COM	North Reference:	Grid
Well:	#2	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	PLAN #2		

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)
5,400.00	4.93	139.04	5,399.51	-2.53	-12.46	12.47	2.00	1.97	-5.24
5,500.00	6.92	136.79	5,498.97	-10.17	-5.52	5.56	2.00	1.99	-2.25
5,600.00	8.91	135.54	5,598.01	-20.09	4.03	-3.95	2.00	1.99	-1.25
5,707.61	11.06	134.70	5,703.98	-33.30	17.21	-17.07	2.00	2.00	-0.78
5,800.00	11.06	134.70	5,794.66	-45.76	29.81	-29.61	0.00	0.00	0.00
5,900.00	11.06	134.70	5,892.80	-59.26	43.45	-43.19	0.00	0.00	0.00
6,000.00	11.06	134.70	5,990.94	-72.75	57.08	-56.76	0.00	0.00	0.00
6,100.00	11.06	134.70	6,089.09	-86.24	70.72	-70.34	0.00	0.00	0.00
6,200.00	11.06	134.70	6,187.23	-99.74	84.35	-83.92	0.00	0.00	0.00
6,300.00	11.06	134.70	6,285.37	-113.23	97.99	-97.49	0.00	0.00	0.00
6,400.00	11.06	134.70	6,383.51	-126.72	111.63	-111.07	0.00	0.00	0.00
6,500.00	11.06	134.70	6,481.66	-140.22	125.26	-124.65	0.00	0.00	0.00
6,600.00	11.06	134.70	6,579.80	-153.71	138.90	-138.23	0.00	0.00	0.00
6,700.00	11.06	134.70	6,677.94	-167.20	152.53	-151.80	0.00	0.00	0.00
6,800.00	11.06	134.70	6,776.08	-180.70	166.17	-165.38	0.00	0.00	0.00
6,900.00	11.06	134.70	6,874.23	-194.19	179.81	-178.96	0.00	0.00	0.00
7,000.00	11.06	134.70	6,972.37	-207.68	193.44	-192.53	0.00	0.00	0.00
7,100.00	11.06	134.70	7,070.51	-221.18	207.08	-206.11	0.00	0.00	0.00
7,200.00	11.06	134.70	7,168.65	-234.67	220.71	-219.69	0.00	0.00	0.00
7,300.00	11.06	134.70	7,266.80	-248.16	234.35	-233.27	0.00	0.00	0.00
7,400.00	11.06	134.70	7,364.94	-261.66	247.99	-246.84	0.00	0.00	0.00
7,500.00	11.06	134.70	7,463.08	-275.15	261.62	-260.42	0.00	0.00	0.00
7,600.00	11.06	134.70	7,561.23	-288.64	275.26	-274.00	0.00	0.00	0.00
7,700.00	11.06	134.70	7,659.37	-302.14	288.89	-287.57	0.00	0.00	0.00
7,800.00	11.06	134.70	7,757.51	-315.63	302.53	-301.15	0.00	0.00	0.00
7,900.00	11.06	134.70	7,855.65	-329.12	316.17	-314.73	0.00	0.00	0.00
8,000.00	11.06	134.70	7,953.80	-342.62	329.80	-328.30	0.00	0.00	0.00
8,100.00	11.06	134.70	8,051.94	-356.11	343.44	-341.88	0.00	0.00	0.00
8,200.00	11.06	134.70	8,150.08	-369.60	357.07	-355.46	0.00	0.00	0.00
8,300.00	11.06	134.70	8,248.22	-383.10	370.71	-369.04	0.00	0.00	0.00
8,400.00	11.06	134.70	8,346.37	-396.59	384.35	-382.61	0.00	0.00	0.00
8,500.00	11.06	134.70	8,444.51	-410.08	397.98	-396.19	0.00	0.00	0.00
8,600.00	11.06	134.70	8,542.65	-423.58	411.62	-409.77	0.00	0.00	0.00
8,700.00	11.06	134.70	8,640.80	-437.07	425.26	-423.34	0.00	0.00	0.00
8,731.42	11.06	134.70	8,671.63	-441.31	429.54	-427.61	0.00	0.00	0.00
8,750.00	9.84	142.46	8,689.90	-443.82	431.77	-429.83	10.00	-6.55	41.74
8,800.00	7.90	172.86	8,739.33	-450.63	434.81	-432.84	10.00	-3.88	60.81
8,850.00	8.82	207.23	8,788.83	-457.45	433.48	-431.48	10.00	1.83	68.72
8,900.00	11.95	229.25	8,838.02	-464.24	427.80	-425.77	10.00	6.26	44.04
8,950.00	16.04	241.25	8,886.54	-470.95	417.82	-415.76	10.00	8.19	24.01
9,000.00	20.54	248.30	8,934.01	-477.52	403.61	-401.52	10.00	8.99	14.10
9,050.00	25.21	252.86	8,980.07	-483.90	385.27	-383.15	10.00	9.36	9.13
9,100.00	29.99	256.07	9,024.36	-490.05	362.95	-360.81	10.00	9.55	6.41
9,150.00	34.82	258.45	9,066.57	-495.92	336.82	-334.65	10.00	9.67	4.78
9,200.00	39.69	260.32	9,106.35	-501.47	307.07	-304.88	10.00	9.74	3.74
9,250.00	44.59	261.84	9,143.42	-506.64	273.94	-271.72	10.00	9.79	3.04
9,300.00	49.50	263.12	9,177.48	-511.41	237.67	-235.43	10.00	9.82	2.55
9,350.00	54.43	264.22	9,208.28	-515.74	198.54	-196.29	10.00	9.85	2.20
9,400.00	59.36	265.20	9,235.58	-519.59	156.85	-154.58	10.00	9.87	1.95
9,450.00	64.30	266.08	9,259.18	-522.93	112.91	-110.63	10.00	9.88	1.76
9,500.00	69.24	266.89	9,278.89	-525.75	67.07	-64.77	10.00	9.89	1.62
9,550.00	74.19	267.64	9,294.57	-528.01	19.66	-17.35	10.00	9.90	1.52
9,600.00	79.14	268.36	9,306.10	-529.70	-28.95	31.26	10.00	9.90	1.44
9,650.00	84.09	269.06	9,313.39	-530.81	-78.39	80.70	10.00	9.90	1.40



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #2
Company:	Santo Petroleum	TVD Reference:	RKB = 25' @ 3144.00usft
Project:	Eddy County, NM (NAD 83 - NME)	MD Reference:	RKB = 25' @ 3144.00usft
Site:	TRACY C COM	North Reference:	Grid
Well:	#2	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	PLAN #2		

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)
9,703.87	89.43	269.80	9,316.43	-531.34	-132.14	134.46	10.00	9.91	1.37
9,800.00	89.43	269.80	9,317.38	-531.68	-228.27	230.59	0.00	0.00	0.00
9,900.00	89.43	269.80	9,318.38	-532.03	-328.27	330.59	0.00	0.00	0.00
10,000.00	89.43	269.80	9,319.37	-532.38	-428.26	430.58	0.00	0.00	0.00
10,100.00	89.43	269.80	9,320.37	-532.72	-528.26	530.58	0.00	0.00	0.00
10,200.00	89.43	269.80	9,321.36	-533.07	-628.25	630.57	0.00	0.00	0.00
10,300.00	89.43	269.80	9,322.36	-533.42	-728.25	730.57	0.00	0.00	0.00
10,400.00	89.43	269.80	9,323.35	-533.77	-828.24	830.56	0.00	0.00	0.00
10,500.00	89.43	269.80	9,324.35	-534.12	-928.23	930.56	0.00	0.00	0.00
10,600.00	89.43	269.80	9,325.34	-534.47	-1,028.23	1,030.55	0.00	0.00	0.00
10,700.00	89.43	269.80	9,326.34	-534.82	-1,128.22	1,130.55	0.00	0.00	0.00
10,800.00	89.43	269.80	9,327.33	-535.17	-1,228.22	1,230.54	0.00	0.00	0.00
10,900.00	89.43	269.80	9,328.33	-535.52	-1,328.21	1,330.54	0.00	0.00	0.00
11,000.00	89.43	269.80	9,329.32	-535.87	-1,428.21	1,430.53	0.00	0.00	0.00
11,100.00	89.43	269.80	9,330.32	-536.21	-1,528.20	1,530.53	0.00	0.00	0.00
11,200.00	89.43	269.80	9,331.31	-536.56	-1,628.20	1,630.52	0.00	0.00	0.00
11,300.00	89.43	269.80	9,332.31	-536.91	-1,728.19	1,730.52	0.00	0.00	0.00
11,400.00	89.43	269.80	9,333.30	-537.26	-1,828.18	1,830.51	0.00	0.00	0.00
11,500.00	89.43	269.80	9,334.30	-537.61	-1,928.18	1,930.51	0.00	0.00	0.00
11,600.00	89.43	269.80	9,335.29	-537.96	-2,028.17	2,030.50	0.00	0.00	0.00
11,700.00	89.43	269.80	9,336.29	-538.31	-2,128.17	2,130.50	0.00	0.00	0.00
11,771.87	89.43	269.80	9,337.00	-538.56	-2,200.03	2,202.36	0.00	0.00	0.00
11,777.47	89.35	269.72	9,337.06	-538.58	-2,205.63	2,207.96	2.00	-1.36	-1.46
11,800.00	89.35	269.72	9,337.31	-538.69	-2,228.16	2,230.49	0.00	0.00	0.00
11,900.00	89.35	269.72	9,338.44	-539.19	-2,328.15	2,330.48	0.00	0.00	0.00
12,000.00	89.35	269.72	9,339.57	-539.68	-2,428.15	2,430.48	0.00	0.00	0.00
12,100.00	89.35	269.72	9,340.70	-540.17	-2,528.14	2,530.47	0.00	0.00	0.00
12,200.00	89.35	269.72	9,341.83	-540.66	-2,628.13	2,630.47	0.00	0.00	0.00
12,300.00	89.35	269.72	9,342.95	-541.15	-2,728.12	2,730.46	0.00	0.00	0.00
12,400.00	89.35	269.72	9,344.08	-541.65	-2,828.12	2,830.45	0.00	0.00	0.00
12,500.00	89.35	269.72	9,345.21	-542.14	-2,928.11	2,930.45	0.00	0.00	0.00
12,600.00	89.35	269.72	9,346.34	-542.63	-3,028.10	3,030.44	0.00	0.00	0.00
12,700.00	89.35	269.72	9,347.47	-543.12	-3,128.09	3,130.43	0.00	0.00	0.00
12,800.00	89.35	269.72	9,348.60	-543.61	-3,228.09	3,230.43	0.00	0.00	0.00
12,900.00	89.35	269.72	9,349.72	-544.11	-3,328.08	3,330.42	0.00	0.00	0.00
13,000.00	89.35	269.72	9,350.85	-544.60	-3,428.07	3,430.41	0.00	0.00	0.00
13,100.00	89.35	269.72	9,351.98	-545.09	-3,528.06	3,530.41	0.00	0.00	0.00
13,200.00	89.35	269.72	9,353.11	-545.58	-3,628.06	3,630.40	0.00	0.00	0.00
13,300.00	89.35	269.72	9,354.24	-546.07	-3,728.05	3,730.40	0.00	0.00	0.00
13,400.00	89.35	269.72	9,355.36	-546.57	-3,828.04	3,830.39	0.00	0.00	0.00
13,500.00	89.35	269.72	9,356.49	-547.06	-3,928.03	3,930.38	0.00	0.00	0.00
13,545.02	89.35	269.72	9,357.00	-547.28	-3,973.05	3,975.40	0.00	0.00	0.00
13,600.00	90.45	269.63	9,357.09	-547.59	-4,028.03	4,030.38	2.00	1.99	-0.17
13,614.89	90.75	269.60	9,356.94	-547.69	-4,042.91	4,045.26	2.00	1.99	-0.17
13,700.00	90.75	269.60	9,355.83	-548.29	-4,128.02	4,130.37	0.00	0.00	0.00
13,800.00	90.75	269.60	9,354.53	-548.98	-4,228.01	4,230.36	0.00	0.00	0.00
13,900.00	90.75	269.60	9,353.23	-549.68	-4,328.00	4,330.35	0.00	0.00	0.00
14,000.00	90.75	269.60	9,351.93	-550.37	-4,427.98	4,430.34	0.00	0.00	0.00
14,100.00	90.75	269.60	9,350.62	-551.07	-4,527.97	4,530.33	0.00	0.00	0.00
14,147.83	90.75	269.60	9,350.00	-551.40	-4,575.80	4,578.16	0.00	0.00	0.00
14,200.00	90.75	269.60	9,349.32	-551.76	-4,627.96	4,630.33	0.00	0.00	0.00
14,300.00	90.75	269.60	9,348.02	-552.46	-4,727.95	4,730.32	0.00	0.00	0.00
14,387.86	90.75	269.60	9,346.87	-553.07	-4,815.80	4,818.16	0.00	0.00	0.00



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #2
Company:	Santo Petroleum	TVD Reference:	RKB = 25' @ 3144.00usft
Project:	Eddy County, NM (NAD 83 - NME)	MD Reference:	RKB = 25' @ 3144.00usft
Site:	TRACY C COM	North Reference:	Grid
Well:	#2	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	PLAN #2		

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
SHL: 2469' FNL, 440' - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	522,699.10	580,969.10	32.436900	-104.204872
FTP: 2300' FSL, 330' - plan misses target center by 49.07usft at 9474.73usft MD (9269.42 TVD, -524.39 N, 90.45 E) - Point	0.00	0.00	9,314.00	-530.60	110.00	522,168.50	581,079.10	32.435441	-104.204517
PLAN LP - plan hits target center - Point	0.00	0.00	9,316.43	-531.34	-132.14	522,167.76	580,836.96	32.435440	-104.205302
Control Point 1: 2300' - plan hits target center - Point	0.00	0.00	9,337.00	-538.56	-2,200.03	522,160.54	578,769.07	32.435427	-104.212005
BHL: 2300' FSL, 100' - plan misses target center by 0.57usft at 14387.85usft MD (9346.87 TVD, -553.07 N, -4815.80 E) - Point	0.00	0.00	9,346.87	-552.50	-4,815.80	522,146.60	576,153.30	32.435396	-104.220484
LTP: 2300' FSL, 330' I - plan hits target center - Point	0.00	0.00	9,350.00	-551.40	-4,575.80	522,147.70	576,393.30	32.435399	-104.219706
Control Point 2: 2300' - plan hits target center - Point	0.00	0.00	9,357.00	-547.28	-3,973.05	522,151.82	576,996.05	32.435408	-104.217752

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. 30-015-34055
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Tracy C Com 2 ST
8. Well Number 443H
9. OGRID Number 372262
10. Pool name or Wildcat [98220] Purple Sage, Wolfcamp [Gas]
4. Well Location Unit Letter <u>H</u> : <u>2469</u> feet from the <u>North</u> line and <u>440</u> feet from the <u>East</u> line Section <u>32</u> Township <u>21S</u> Range <u>27E</u> NMPM <u>Eddy</u> , <u>County</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3119'

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 plans to use a closed loop system during the re-entry of the Tracy C Com 2 ST 443H operations.
 All drill cuttings and fluids will be trucked to a commercial disposal site via vacuum truck or haul off bins.
 Estimate work to start in Jan 2022.

Spud Date: 6/3/2005

Rig Release Date: 8/10/2005

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 11/8/2021

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):

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. 30-015-34055
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Tracy C Com 2 ST
8. Well Number 443H
9. OGRID Number 372262
10. Pool name or Wildcat [98220] Purple Sage, Wolfcamp [Gas]

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.)	
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other	
2. Name of Operator SPC Resources, LLC	
3. Address of Operator P.O. Box 1020, Artesia, NM 88210	
4. Well Location Unit Letter <u>H</u> : <u>2469</u> feet from the <u>North</u> line and <u>440</u> feet from the <u>East</u> line Section <u>32</u> Township <u>21S</u> Range <u>27E</u> NMPM <u>Eddy</u> , <u>County</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3119'	

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

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> DOWNHOLE COMMINGLE <input type="checkbox"/> CLOSED-LOOP SYSTEM <input type="checkbox"/> OTHER: Formation Tops <input checked="" type="checkbox"/>		SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/> OTHER: <input type="checkbox"/>	
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--

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.

See attached for formation top information.

Spud Date: 6/3/2005

Rig Release Date: 8/10/2005

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 11/8/2021

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): _____

SANTO OPERATING LLC
GEOLOGIC WELL PROPOSAL

PROJECT AND PROSPECT							
Project Name:		Caveman		Operator:		SPC Resources, LLC	
Prospect Name:		Fred		Geologist:		John Weihe	
Lease Name:		Tracy C Com 2		Well Number:		443H	
Type of Operation:		New Drill		Prognosis Date:		11/9/2021	
Well Profile:		Horizontal		Well Type:		Development	
Field Name(s):		Purple Sage Wolfcamp Gas Pool		API:		30015340550100	

WELL DESCRIPTION					
Wolfcamp M Horizontal Development Well					

PROPOSED BOTTOM HOLE LOCATION							
	Cnty/Parish:		Eddy	Latitude:	32.435396000	X Coord:	576,153.3
	State:		NM	Longitude:	104.220483000	Y Coord:	522,146.6
	Description (include section line & distance & direction from nearest city):					Datum:	NAD 83
	City of Carlsbad, NM L-32-21S-27E 2300 FSL 100 FWL						

PROPOSED SURFACE HOLE LOCATION (IF DIFFERENT FROM BHL) (NOTE: INPUT FROM LAND DEPARTMENT REQUIRED)							
	SHL (Same as BHL, Different from BHL, or TBD):						
	Cnty/Parish:		Eddy	Latitude:	32.436900000	X Coord:	580,969.1
	State:		NM	Longitude:	-104.204872000	Y Coord:	522,699.1
	Elevation:		3119'				
	Description (include section line & distance & direction from nearest city):					Datum:	NAD 83
East Side City of Carlsbad, NM H-32-21S-27E 2469 FNL 440 FEL							

ANTICIPATED GEOLOGIC MARKERS						
#	Marker*	MD (ft)	TVD (ft)	From MSL (ft)	Comments	
1	Option 1: Kelly Bushing	3,144			assume 25' KB from GL	
2	Ground Level Elevation estimated (no survey yet)	3,119				
3	Rustler	118	118	3,026		
4	Salt	311	311	2,833		
5	Castille (Base Salt)	370	370	2,774		
6	Capitan Formation	536	536	2,608		
7	Delaware Sands	2720	2,720	424		
8	BONE SPRING	5085	5,085	-1,941		
9	Avalon Shale Upper - Top	per directional plan	5,530	-2,386		
10	Avalon Shale Lower - Base / 1st Bone Spring Carbonate	per directional plan	5,972	-2,828		
11	Top 1st BSPG Sand	per directional plan	6,308	-3,164		
12	Top 2nd Bone Spring Carbonate	per directional plan	6,537	-3,393		
13	Top 2nd Bone Spring Sand	per directional plan	7,094	-3,950		
14	Top 3rd Bone Spring Carbonate	per directional plan	7,364	-4,220		
15	Top 3rd Bone Spring Sand	per directional plan	8,404	-5,260		
16	WOLFCAMP A	per directional plan	8,715	-5,571		
17	WOLFCAMP Y Sand Top	per directional plan	8,821	-5,677		
18	WOLFCAMP A Lower	per directional plan	8,854	-5,710		
19	Wolfcamp M Shale	per directional plan	9,175	-6,031		
20	Wolfcamp M Shale TARGET Top Window	per directional plan	9,306	-6,162		
21	Wolfcamp M Shale TARGET	per directional plan	9,316	-6,172	Landing Depth	
22	Wolfcamp M Shale TARGET Base Window	per directional plan	9,326	-6,182		
*All listed geologic markers are formation tops unless otherwise noted.						

DRILLING TARGET(S) (Top to Bottom)						
2	At TD Target:	TARGET	Target Lat:	per dir. Plan	Target X:	per dir. Plan
	SSTVD:	-6172.43	Target Lon:	per dir. Plan	Target Y:	per dir. Plan
	Target Window:	+/- 10' TVD				
3						

Comments:						
-----------	--	--	--	--	--	--

NEARBY WELLS OF INTEREST		
API Number	Well Name	Comments
1 30015340550000	Tracy C Com 2	Logs and Mud Log Available, ST Well, Morrow Prod.
2 30015213990000	Tracy C Com 1	Logs and Mud Log Available, Adjacent Well, Morrow Prod.
3 30015216310000	Tracy D Com 1	Logs and Mud Log Available, Adjacent Well, Morrow Prod.
4 30015218680000	Tracey Fairway Com 1	Logs Available, Adjacent Well, ABDN Morrow Prod.
5 30015315210000	La Huerta 32 1Y	Logs and Mud Log Available, Adjacent Well, ABDN Morrow Prod.
6		
7		
8		
9		
10		
11		
12		

ELECTRIC LOGGING			
	Interval		Logging Tool(s)
	Top (ft)	Bottom (ft)	
1			
2			

SANTO OPERATING LLC
GEOLOGIC WELL PROPOSAL

PROJECT AND PROSPECT				
Project Name:		Caveman	Operator:	SPC Resources, LLC
Prospect Name:		Fred	Geologist:	John Weihe
Lease Name:		Tracy C Com 2	Well Number:	443H
Type of Operation:		New Drill	Prognosis Date:	11/9/2021
Well Profile:		Horizontal	Well Type:	Development
Field Name(s):		Purple Sage Wolfcamp Gas Pool	API:	30015340550100

3	Bone Spring Entry Point	TD	MWD gamma ray
4			
5			
6			
7			
8			
Comments:			

OTHER EVALUATION (Mud Logging, DST, Whole Cores, Etc.)			
	Interval		Description
	Top (ft)	Bottom (ft)	
1			
2	Bone Spring Entry Point	TD	Mud Logging
3			
4			
5			
Comments:			

ANTICIPATED PORE PRESSURES				
	Interval		Gradient (psi/ft)	Comments
	Top (ft)	Bottom (ft)		
1				
	Top Bone Spring	Bone Spring 1 Sand	0.452	Based on Regional DST and Mudwts
2	Bone Spring 1 Sand	Bone Spring 2 Sand	0.465	Based on Regional DST and Mudwts
3	Bone Spring 2 Sand	Bone Spring 3 Sand	0.474	Based on Regional DST and Mudwts
4	Bone Spring 3 Sand	Wolfcamp A	0.475	Based on Regional DST and Mudwts
	Wolfcamp A	Wolfcamp M	0.525	Based on Regional DST and Mudwts
5	Wolfcamp M Target	TD	0.525	Note: T C2 10.1#, T C1 9.9#, T D1 10.2#,
				Note: La Huerta 32 8.7#
Comments:				

KNOWN ISSUES THAT COULD BE DRILLING OR SAFETY CONCERNS			
	Interval		Description
	Top (ft)	Bottom (ft)	
1			
2			
3			
4			
5			
Comments:	Desired Mudlogging Vendors to Bid: Columbine		

BOP Installed and tested before drilling which hole?	Size	Min Required WP	Type		X	Tested to:	Deepest TVD Depth (ft) per Section:
6.125" Hole	13-5/8	5M	Annular		X	3500 psi	9370
		5M	Blind Ram		X	250 psi/3500 psi	
			Pipe Ram				
			Double Ram		X		
			Other				

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

CONDITIONS

Action 60832

CONDITIONS

Operator: SPC RESOURCES, LLC P.O. Box 1020 Artesia, NM 88211	OGRID: 372262
	Action Number: 60832
	Action Type: [C-101] Drilling Non-Federal/Indian (APD)

CONDITIONS

Created By	Condition	Condition Date
kpickford	OCD conditionally approves this permit for drilling and completion activity. As a condition of approval, this well cannot be drilled or completed until: (i) the remediation of the brine well project is complete, (ii) the well is considered stabilized, and (iii) the OCD Director or his/her delegate has provided written (which includes email) confirmation that the well can be spud.	11/16/2021
kpickford	If drilling or completion activities occur after the conclusion of the brine well remediation project, this permit remains subject to the following:	11/16/2021
kpickford	1) Operator shall provide, at least 14 days prior to the start of any drilling or completion activities, a notice to OCD with a request for confirmation to proceed from the OCD.	11/16/2021
kpickford	2) Prior to the commencement of any drilling or completion activities the operator must first receive written (which includes email) confirmation from the OCD Director or his/her delegate that the OCD has no concerns with such activities proceeding.	11/16/2021
kpickford	3) OCD retains the right to require the cessation of any drilling or completion activities associated with this permit due to concerns about potential impacts to ongoing or completed remediation activities at the Carlsbad brine well.	11/16/2021
kpickford	a. If OCD orders cessation pursuant to this provision, the initial period shall be for 45 days during which time OCD shall share information about the basis for its concern.	11/16/2021
kpickford	b. If the OCD's concerns cannot be addressed during the initial 45-day period, OCD may extend any such cessation until the concerns requiring the cessation have been addressed to the OCD's satisfaction.	11/16/2021
kpickford	Notify OCD 24 hours prior to casing & cement	11/16/2021
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	11/16/2021
kpickford	a CIBP must be set at 11700 (approximately 50' above perforations), pressure tested and spot 25 sacks CI H cement on plug. WOC and tag. Spot 25 sacks cement from 9375' to 9125' to cover the Wolfcamp top.	11/16/2021