

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

Form C-101

August 1, 2011

Permit 279314

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

1. Operator Name and Address CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202		2. OGRID Number 372165
		3. API Number 30-025-46981
4. Property Code 318030	5. Property Name SOURSOP 5 STATE COM	6. Well No. 501H

7. Surface Location

UL - Lot A	Section 5	Township 22S	Range 35E	Lot Idn 1	Feet From 1000	N/S Line N	Feet From 883	E/W Line E	County Lea
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8. Proposed Bottom Hole Location

UL - Lot P	Section 8	Township 22S	Range 35E	Lot Idn P	Feet From 100	N/S Line S	Feet From 460	E/W Line E	County Lea
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9. Pool Information

WC-025 G-07 S223505N;BONE SPRING	98136
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3623
16. Multiple N	17. Proposed Depth 20085	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 12/1/2020
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
Surf	17.5	13.375	54.5	1850	1572	0
Int1	12.25	9.625	40	5650	1388	0
Prod	8.5	5.5	20	20084	2435	9630
Prod	8.75	5.5	20	10530	815	0

Casing/Cement Program: Additional Comments

Drilling 8.75 hole size for the curve and 8.5 hole size for the lateral for the 5.5 casing string.
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22. Proposed Blowout Prevention Program

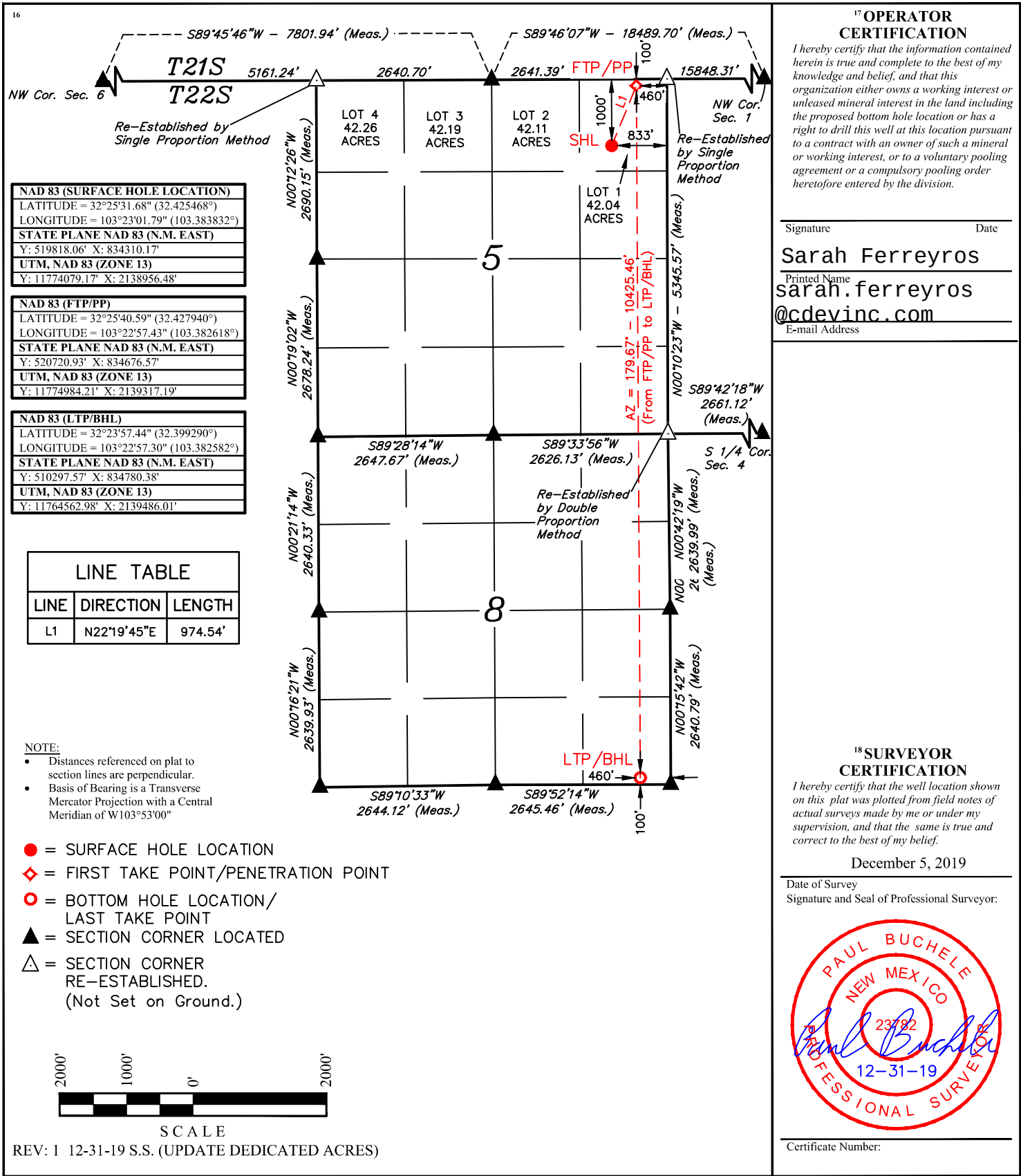
Type	Working Pressure	Test Pressure	Manufacturer
Pipe	10000	5000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ , if applicable.		OIL CONSERVATION DIVISION	
Signature:			
Printed Name:	Electronically filed by Sarah Ferreyros	Approved By:	Paul F Kautz
Title:	Senior Regulatory Analyst	Title:	Geologist
Email Address:	Sarah.Ferreyros@cdevinc.com	Approved Date:	3/12/2020
Date:	3/11/2020	Phone:	720-499-1454
		Expiration Date: 3/12/2022	
		Conditions of Approval Attached	

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

☐ AMENDED REPORT

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.



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GAS CAPTURE PLAN

Date: 3/12/2020

☒ Original

Operator & OGRID No.: [372165] CENTENNIAL RESOURCE PRODUCTION, LLC

☐ Amended - Reason for
Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
SOURSOP 5 STATE COM #501H	30-025-46981	A-5-22S-35E	1000N 0883E	2500	None	High and low pressure line

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to LUCID ENERGY DELAWARE, LLC and will be connected to LUCID ENERGY DELAWARE, LLC High Pressure gathering system located in Lea County, New Mexico. It will require 600' of pipeline to connect the facility to High Pressure gathering system. CENTENNIAL RESOURCE PRODUCTION, LLC provides (periodically) to LUCID ENERGY DELAWARE, LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, CENTENNIAL RESOURCE PRODUCTION, LLC and LUCID ENERGY DELAWARE, LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at LUCID ENERGY DELAWARE, LLC Processing Plant located in Sec. 13, Twn. 24S, Rng. 33E, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on LUCID ENERGY DELAWARE, LLC system at that time. Based on current information, it is CENTENNIAL RESOURCE PRODUCTION, LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

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

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

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Form APD Comments

Permit 279314

PERMIT COMMENTS

Operator Name and Address: CENTENNIAL RESOURCE PRODUCTION, LLC [372165] 1001 17th Street, Suite 1800 Denver, CO 80202		API Number: 30-025-46981
		Well: SOURSOP 5 STATE COM #501H
Created By	Comment	Comment Date
sferreyros	Spudder rig will preset surface casing.	3/11/2020

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Form APD Conditions

Permit 279314

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: CENTENNIAL RESOURCE PRODUCTION, LLC [372165] 1001 17th Street, Suite 1800 Denver, CO 80202	API Number: 30-025-46981
	Well: SOURSOP 5 STATE COM #501H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
pkautz	1)- The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
pkautz	It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD. If an APD expires and if site construction has occurred, site remediation is required.
pkautz	Stage Tool 1) Must notify OCD Hobbs Office prior to running Stage Tool at 5753703186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.

NEW MEXICO

LEA

SOURSOP

SOURSOP 5 STATE COM 501H

SOURSOP 5 STATE COM 501H

Plan: PWP0

Standard Planning Report

17 December, 2019

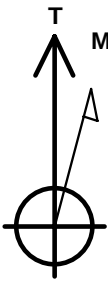


Project: LEA
Site: SOURSOP
Wells: SOURSOP 5 STATE COM 501H_502H
Design: PWP0
3623.4

PROJECT DETAILS: LEA

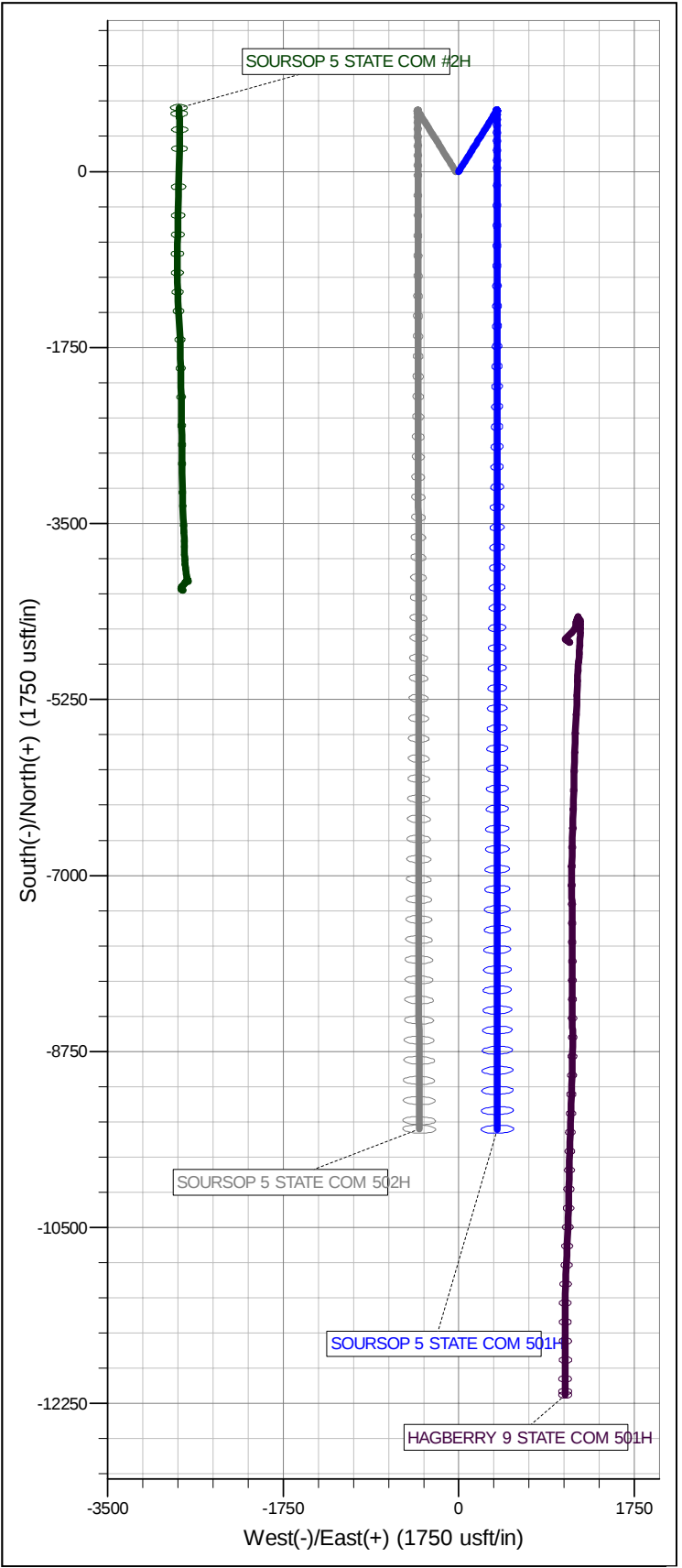
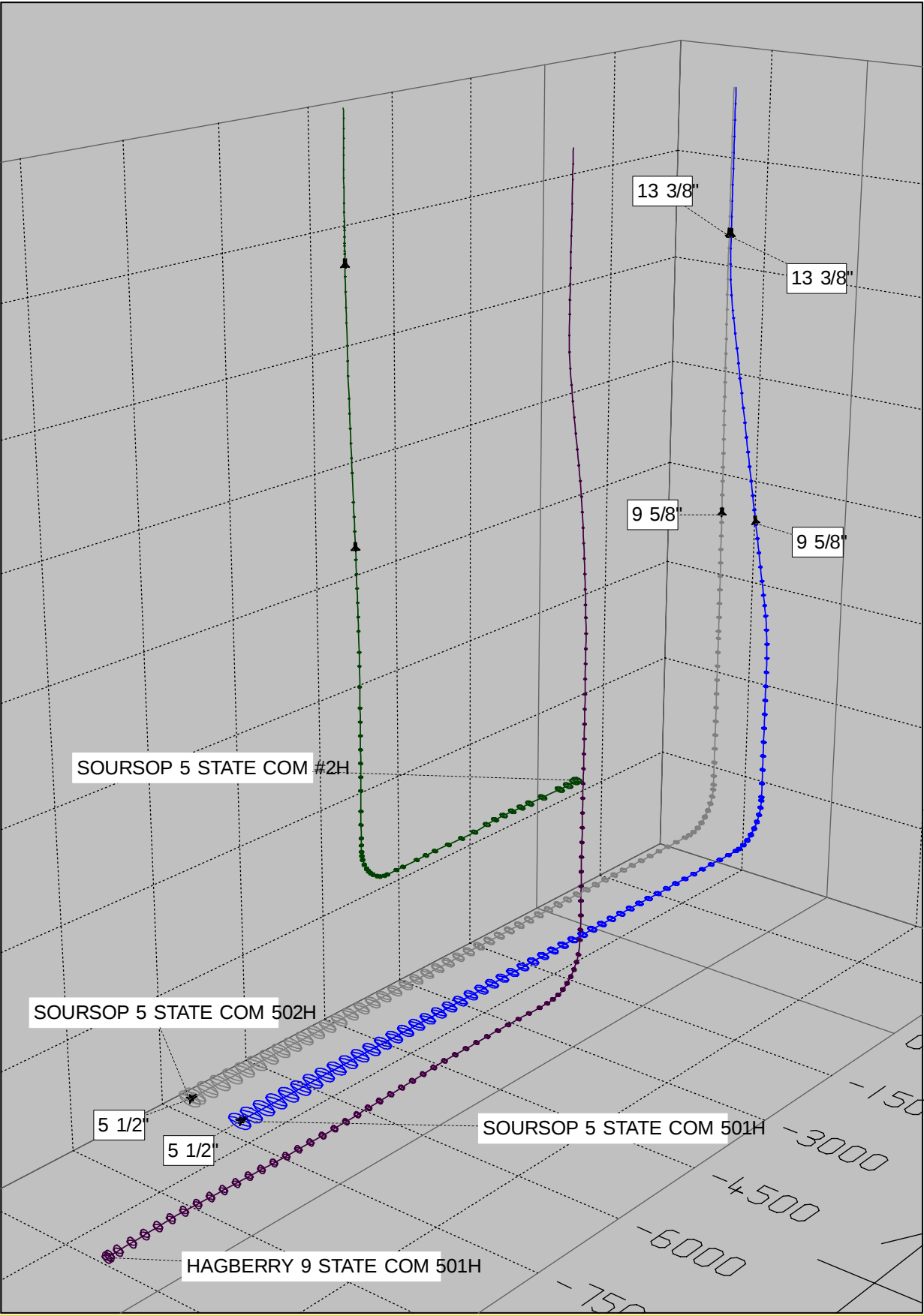
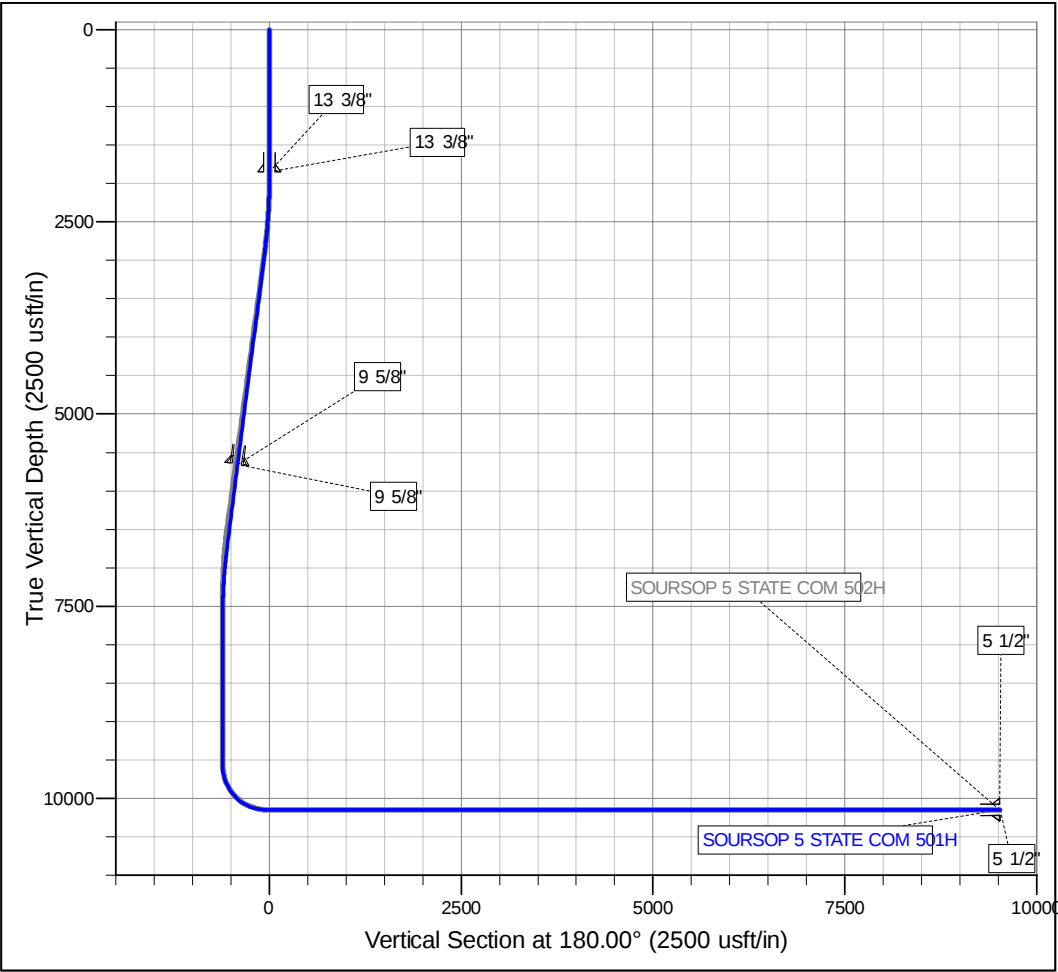
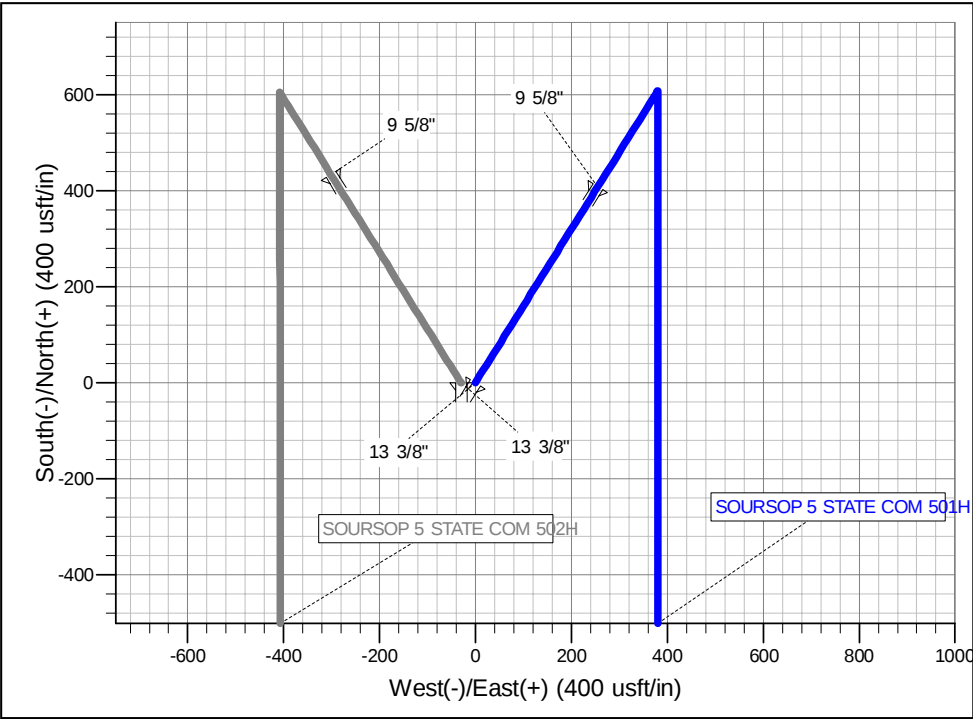
Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Zone 13N (108 W to 102 W)

System Datum: Mean Sea Level



Page 7 of 18
Azimuths to True North
Magnetic North: 7.68°

Magnetic Field
Strength: 48933.8nT
Dip Angle: 60.46°
Date: 11/6/2018
Model: IGRF200510



Centennial Resource Dev

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well SOURSOP 5 STATE COM 501H
Company:	NEW MEXICO	TVD Reference:	RKB=3623.4+25 @ 3648.4usft
Project:	LEA	MD Reference:	RKB=3623.4+25 @ 3648.4usft
Site:	SOURSOP	North Reference:	True
Well:	SOURSOP 5 STATE COM 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	SOURSOP 5 STATE COM 501H		
Design:	PWP0		

Project	LEA		
Map System:	Universal Transverse Mercator (US Survey Fee	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Zone 13N (108 W to 102 W)		

Site		SOURSOP			
Site Position:		Northing:	0.00 usft	Latitude:	0° 0' 0.000 N
From:	Map	Easting:	0.00 usft	Longitude:	109° 29' 19.478 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.00 °

Well		SOURSOP 5 STATE COM 501H				
Well Position	+N-S	11,774,087.7 usft	Northing:	11,774,079.17 usft	Latitude:	32° 25' 31.684 N
	+E-W	2,138,909.5 usft	Easting:	2,138,956.48 usft	Longitude:	103° 23' 1.794 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,623.4 usft

Wellbore						SOURSOP 5 STATE COM 501H									
Magnetics						Model Name		Sample Date		Declination (°)		Dip Angle (°)		Field Strength (nT)	
						IGRF200510		12/31/2009		7.68		60.46		48,933.80464785	

Design	PWP0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	180.00

Plan Survey Tool Program			Date	12/16/2019	
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	20,085.4	PWP0 (SOURSOP 5 STATE COMWD		
			OWSG_Rev2_ MWD - Stan		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,850.0	8.50	32.00	2,846.9	53.4	33.4	1.00	1.00	0.00	32.00	
6,850.0	8.50	32.00	6,802.9	554.8	346.7	0.00	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,649.8	608.1	380.0	1.00	-1.00	-3.76	-180.00	
9,627.0	0.00	0.00	9,576.8	608.1	380.0	0.00	0.00	0.00	0.00	
10,527.3	90.00	179.97	10,150.0	35.0	380.3	10.00	10.00	0.00	179.97	
20,085.4	90.00	179.97	10,150.0	-9,523.1	385.3	0.00	0.00	0.00	0.00	LTP/BHL - SOURSOP

Centennial Resource Dev

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well SOURSOP 5 STATE COM 501H
Company:	NEW MEXICO	TVD Reference:	RKB=3623.4+25 @ 3648.4usft
Project:	LEA	MD Reference:	RKB=3623.4+25 @ 3648.4usft
Site:	SOURSOP	North Reference:	True
Well:	SOURSOP 5 STATE COM 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	SOURSOP 5 STATE COM 501H		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,850.0	0.00	0.00	1,850.0	0.0	0.0	0.0	0.00	0.00	0.00
13 3/8"									
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	1.00	32.00	2,100.0	0.7	0.5	-0.7	1.00	1.00	0.00
2,200.0	2.00	32.00	2,200.0	3.0	1.8	-3.0	1.00	1.00	0.00
2,300.0	3.00	32.00	2,299.9	6.7	4.2	-6.7	1.00	1.00	0.00
2,400.0	4.00	32.00	2,399.7	11.8	7.4	-11.8	1.00	1.00	0.00
2,500.0	5.00	32.00	2,499.4	18.5	11.6	-18.5	1.00	1.00	0.00
2,600.0	6.00	32.00	2,598.9	26.6	16.6	-26.6	1.00	1.00	0.00
2,700.0	7.00	32.00	2,698.3	36.2	22.6	-36.2	1.00	1.00	0.00
2,800.0	8.00	32.00	2,797.4	47.3	29.5	-47.3	1.00	1.00	0.00
2,850.0	8.50	32.00	2,846.9	53.4	33.4	-53.4	1.00	1.00	0.00
2,900.0	8.50	32.00	2,896.3	59.6	37.3	-59.6	0.00	0.00	0.00
3,000.0	8.50	32.00	2,995.2	72.2	45.1	-72.2	0.00	0.00	0.00
3,100.0	8.50	32.00	3,094.1	84.7	52.9	-84.7	0.00	0.00	0.00
3,200.0	8.50	32.00	3,193.0	97.2	60.8	-97.2	0.00	0.00	0.00
3,300.0	8.50	32.00	3,291.9	109.8	68.6	-109.8	0.00	0.00	0.00
3,400.0	8.50	32.00	3,390.8	122.3	76.4	-122.3	0.00	0.00	0.00
3,500.0	8.50	32.00	3,489.7	134.8	84.3	-134.8	0.00	0.00	0.00
3,600.0	8.50	32.00	3,588.6	147.4	92.1	-147.4	0.00	0.00	0.00
3,700.0	8.50	32.00	3,687.5	159.9	99.9	-159.9	0.00	0.00	0.00
3,800.0	8.50	32.00	3,786.5	172.5	107.8	-172.5	0.00	0.00	0.00
3,900.0	8.50	32.00	3,885.4	185.0	115.6	-185.0	0.00	0.00	0.00
4,000.0	8.50	32.00	3,984.3	197.5	123.4	-197.5	0.00	0.00	0.00
4,100.0	8.50	32.00	4,083.2	210.1	131.3	-210.1	0.00	0.00	0.00
4,200.0	8.50	32.00	4,182.1	222.6	139.1	-222.6	0.00	0.00	0.00
4,300.0	8.50	32.00	4,281.0	235.1	146.9	-235.1	0.00	0.00	0.00
4,400.0	8.50	32.00	4,379.9	247.7	154.8	-247.7	0.00	0.00	0.00
4,500.0	8.50	32.00	4,478.8	260.2	162.6	-260.2	0.00	0.00	0.00
4,600.0	8.50	32.00	4,577.7	272.7	170.4	-272.7	0.00	0.00	0.00
4,700.0	8.50	32.00	4,676.6	285.3	178.3	-285.3	0.00	0.00	0.00
4,800.0	8.50	32.00	4,775.5	297.8	186.1	-297.8	0.00	0.00	0.00
4,900.0	8.50	32.00	4,874.4	310.3	193.9	-310.3	0.00	0.00	0.00
5,000.0	8.50	32.00	4,973.3	322.9	201.8	-322.9	0.00	0.00	0.00

Centennial Resource Dev

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Site:	SOURSOP	North Reference:	True
Well:	SOURSOP 5 STATE COM 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	SOURSOP 5 STATE COM 501H		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	8.50	32.00	5,072.2	335.4	209.6	-335.4	0.00	0.00	0.00
5,200.0	8.50	32.00	5,171.1	347.9	217.4	-347.9	0.00	0.00	0.00
5,300.0	8.50	32.00	5,270.0	360.5	225.3	-360.5	0.00	0.00	0.00
5,400.0	8.50	32.00	5,368.9	373.0	233.1	-373.0	0.00	0.00	0.00
5,500.0	8.50	32.00	5,467.8	385.5	240.9	-385.5	0.00	0.00	0.00
5,600.0	8.50	32.00	5,566.7	398.1	248.7	-398.1	0.00	0.00	0.00
5,684.2	8.50	32.00	5,650.0	408.6	255.3	-408.6	0.00	0.00	0.00
9 5/8"									
5,700.0	8.50	32.00	5,665.6	410.6	256.6	-410.6	0.00	0.00	0.00
5,800.0	8.50	32.00	5,764.5	423.2	264.4	-423.2	0.00	0.00	0.00
5,900.0	8.50	32.00	5,863.4	435.7	272.2	-435.7	0.00	0.00	0.00
6,000.0	8.50	32.00	5,962.3	448.2	280.1	-448.2	0.00	0.00	0.00
6,100.0	8.50	32.00	6,061.2	460.8	287.9	-460.8	0.00	0.00	0.00
6,200.0	8.50	32.00	6,160.1	473.3	295.7	-473.3	0.00	0.00	0.00
6,300.0	8.50	32.00	6,259.0	485.8	303.6	-485.8	0.00	0.00	0.00
6,400.0	8.50	32.00	6,357.9	498.4	311.4	-498.4	0.00	0.00	0.00
6,500.0	8.50	32.00	6,456.8	510.9	319.2	-510.9	0.00	0.00	0.00
6,600.0	8.50	32.00	6,555.7	523.4	327.1	-523.4	0.00	0.00	0.00
6,700.0	8.50	32.00	6,654.6	536.0	334.9	-536.0	0.00	0.00	0.00
6,800.0	8.50	32.00	6,753.5	548.5	342.7	-548.5	0.00	0.00	0.00
6,850.0	8.50	32.00	6,802.9	554.8	346.7	-554.8	0.00	0.00	0.00
6,900.0	8.00	32.00	6,852.4	560.9	350.5	-560.9	1.00	-1.00	0.00
7,000.0	7.00	32.00	6,951.6	571.9	357.4	-571.9	1.00	-1.00	0.00
7,100.0	6.00	32.00	7,050.9	581.5	363.4	-581.5	1.00	-1.00	0.00
7,200.0	5.00	32.00	7,150.5	589.7	368.5	-589.7	1.00	-1.00	0.00
7,300.0	4.00	32.00	7,250.2	596.3	372.6	-596.3	1.00	-1.00	0.00
7,400.0	3.00	32.00	7,350.0	601.5	375.8	-601.5	1.00	-1.00	0.00
7,500.0	2.00	32.00	7,449.9	605.2	378.2	-605.2	1.00	-1.00	0.00
7,600.0	1.00	32.00	7,549.8	607.4	379.5	-607.4	1.00	-1.00	0.00
7,700.0	0.00	0.00	7,649.8	608.1	380.0	-608.1	1.00	-1.00	-32.00
7,800.0	0.00	0.00	7,749.8	608.1	380.0	-608.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,849.8	608.1	380.0	-608.1	0.00	0.00	0.00
8,000.0	0.00	0.00	7,949.8	608.1	380.0	-608.1	0.00	0.00	0.00
8,100.0	0.00	0.00	8,049.8	608.1	380.0	-608.1	0.00	0.00	0.00
8,200.0	0.00	0.00	8,149.8	608.1	380.0	-608.1	0.00	0.00	0.00
8,300.0	0.00	0.00	8,249.8	608.1	380.0	-608.1	0.00	0.00	0.00
8,400.0	0.00	0.00	8,349.8	608.1	380.0	-608.1	0.00	0.00	0.00
8,500.0	0.00	0.00	8,449.8	608.1	380.0	-608.1	0.00	0.00	0.00
8,600.0	0.00	0.00	8,549.8	608.1	380.0	-608.1	0.00	0.00	0.00
8,700.0	0.00	0.00	8,649.8	608.1	380.0	-608.1	0.00	0.00	0.00
8,800.0	0.00	0.00	8,749.8	608.1	380.0	-608.1	0.00	0.00	0.00
8,900.0	0.00	0.00	8,849.8	608.1	380.0	-608.1	0.00	0.00	0.00
9,000.0	0.00	0.00	8,949.8	608.1	380.0	-608.1	0.00	0.00	0.00
9,100.0	0.00	0.00	9,049.8	608.1	380.0	-608.1	0.00	0.00	0.00
9,200.0	0.00	0.00	9,149.8	608.1	380.0	-608.1	0.00	0.00	0.00
9,300.0	0.00	0.00	9,249.8	608.1	380.0	-608.1	0.00	0.00	0.00
9,400.0	0.00	0.00	9,349.8	608.1	380.0	-608.1	0.00	0.00	0.00
9,500.0	0.00	0.00	9,449.8	608.1	380.0	-608.1	0.00	0.00	0.00
9,600.0	0.00	0.00	9,549.8	608.1	380.0	-608.1	0.00	0.00	0.00
9,627.0	0.00	0.00	9,576.8	608.1	380.0	-608.1	0.00	0.00	0.00
9,700.0	7.30	179.97	9,649.6	603.5	380.0	-603.5	10.00	10.00	246.53
9,800.0	17.29	179.97	9,747.2	582.2	380.0	-582.2	10.00	10.00	0.00
9,900.0	27.29	179.97	9,839.6	544.3	380.0	-544.3	10.00	10.00	0.00

Centennial Resource Dev

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well SOURSOP 5 STATE COM 501H
Company:	NEW MEXICO	TVD Reference:	RKB=3623.4+25 @ 3648.4usft
Project:	LEA	MD Reference:	RKB=3623.4+25 @ 3648.4usft
Site:	SOURSOP	North Reference:	True
Well:	SOURSOP 5 STATE COM 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	SOURSOP 5 STATE COM 501H		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,000.0	37.29	179.97	9,924.1	491.0	380.1	-491.0	10.00	10.00	0.00
10,100.0	47.28	179.97	9,997.9	423.8	380.1	-423.8	10.00	10.00	0.00
10,200.0	57.28	179.97	10,059.0	344.8	380.1	-344.8	10.00	10.00	0.00
10,300.0	67.28	179.97	10,105.5	256.4	380.2	-256.4	10.00	10.00	0.00
10,400.0	77.27	179.97	10,135.9	161.3	380.2	-161.3	10.00	10.00	0.00
10,500.0	87.27	179.97	10,149.3	62.3	380.3	-62.3	10.00	10.00	0.00
10,527.3	90.00	179.97	10,150.0	35.0	380.3	-35.0	10.00	10.00	0.00
10,600.0	90.00	179.97	10,150.0	-37.7	380.3	37.7	0.00	0.00	0.00
10,700.0	90.00	179.97	10,150.0	-137.7	380.4	137.7	0.00	0.00	0.00
10,800.0	90.00	179.97	10,150.0	-237.7	380.5	237.7	0.00	0.00	0.00
10,900.0	90.00	179.97	10,150.0	-337.7	380.5	337.7	0.00	0.00	0.00
11,000.0	90.00	179.97	10,150.0	-437.7	380.6	437.7	0.00	0.00	0.00
11,100.0	90.00	179.97	10,150.0	-537.7	380.6	537.7	0.00	0.00	0.00
11,200.0	90.00	179.97	10,150.0	-637.7	380.7	637.7	0.00	0.00	0.00
11,300.0	90.00	179.97	10,150.0	-737.7	380.7	737.7	0.00	0.00	0.00
11,400.0	90.00	179.97	10,150.0	-837.7	380.8	837.7	0.00	0.00	0.00
11,500.0	90.00	179.97	10,150.0	-937.7	380.8	937.7	0.00	0.00	0.00
11,600.0	90.00	179.97	10,150.0	-1,037.7	380.9	1,037.7	0.00	0.00	0.00
11,700.0	90.00	179.97	10,150.0	-1,137.7	380.9	1,137.7	0.00	0.00	0.00
11,800.0	90.00	179.97	10,150.0	-1,237.7	381.0	1,237.7	0.00	0.00	0.00
11,900.0	90.00	179.97	10,150.0	-1,337.7	381.0	1,337.7	0.00	0.00	0.00
12,000.0	90.00	179.97	10,150.0	-1,437.7	381.1	1,437.7	0.00	0.00	0.00
12,100.0	90.00	179.97	10,150.0	-1,537.7	381.1	1,537.7	0.00	0.00	0.00
12,200.0	90.00	179.97	10,150.0	-1,637.7	381.2	1,637.7	0.00	0.00	0.00
12,300.0	90.00	179.97	10,150.0	-1,737.7	381.2	1,737.7	0.00	0.00	0.00
12,400.0	90.00	179.97	10,150.0	-1,837.7	381.3	1,837.7	0.00	0.00	0.00
12,500.0	90.00	179.97	10,150.0	-1,937.7	381.3	1,937.7	0.00	0.00	0.00
12,600.0	90.00	179.97	10,150.0	-2,037.7	381.4	2,037.7	0.00	0.00	0.00
12,700.0	90.00	179.97	10,150.0	-2,137.7	381.4	2,137.7	0.00	0.00	0.00
12,800.0	90.00	179.97	10,150.0	-2,237.7	381.5	2,237.7	0.00	0.00	0.00
12,900.0	90.00	179.97	10,150.0	-2,337.7	381.6	2,337.7	0.00	0.00	0.00
13,000.0	90.00	179.97	10,150.0	-2,437.7	381.6	2,437.7	0.00	0.00	0.00
13,100.0	90.00	179.97	10,150.0	-2,537.7	381.7	2,537.7	0.00	0.00	0.00
13,200.0	90.00	179.97	10,150.0	-2,637.7	381.7	2,637.7	0.00	0.00	0.00
13,300.0	90.00	179.97	10,150.0	-2,737.7	381.8	2,737.7	0.00	0.00	0.00
13,400.0	90.00	179.97	10,150.0	-2,837.7	381.8	2,837.7	0.00	0.00	0.00
13,500.0	90.00	179.97	10,150.0	-2,937.7	381.9	2,937.7	0.00	0.00	0.00
13,600.0	90.00	179.97	10,150.0	-3,037.7	381.9	3,037.7	0.00	0.00	0.00
13,700.0	90.00	179.97	10,150.0	-3,137.7	382.0	3,137.7	0.00	0.00	0.00
13,800.0	90.00	179.97	10,150.0	-3,237.7	382.0	3,237.7	0.00	0.00	0.00
13,900.0	90.00	179.97	10,150.0	-3,337.7	382.1	3,337.7	0.00	0.00	0.00
14,000.0	90.00	179.97	10,150.0	-3,437.7	382.1	3,437.7	0.00	0.00	0.00
14,100.0	90.00	179.97	10,150.0	-3,537.7	382.2	3,537.7	0.00	0.00	0.00
14,200.0	90.00	179.97	10,150.0	-3,637.7	382.2	3,637.7	0.00	0.00	0.00
14,300.0	90.00	179.97	10,150.0	-3,737.7	382.3	3,737.7	0.00	0.00	0.00
14,400.0	90.00	179.97	10,150.0	-3,837.7	382.3	3,837.7	0.00	0.00	0.00
14,500.0	90.00	179.97	10,150.0	-3,937.7	382.4	3,937.7	0.00	0.00	0.00
14,600.0	90.00	179.97	10,150.0	-4,037.7	382.4	4,037.7	0.00	0.00	0.00
14,700.0	90.00	179.97	10,150.0	-4,137.7	382.5	4,137.7	0.00	0.00	0.00
14,800.0	90.00	179.97	10,150.0	-4,237.7	382.5	4,237.7	0.00	0.00	0.00
14,900.0	90.00	179.97	10,150.0	-4,337.7	382.6	4,337.7	0.00	0.00	0.00
15,000.0	90.00	179.97	10,150.0	-4,437.7	382.7	4,437.7	0.00	0.00	0.00
15,100.0	90.00	179.97	10,150.0	-4,537.7	382.7	4,537.7	0.00	0.00	0.00
15,200.0	90.00	179.97	10,150.0	-4,637.7	382.8	4,637.7	0.00	0.00	0.00

Centennial Resource Dev

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well SOURSOP 5 STATE COM 501H
Company:	NEW MEXICO	TVD Reference:	RKB=3623.4+25 @ 3648.4usft
Project:	LEA	MD Reference:	RKB=3623.4+25 @ 3648.4usft
Site:	SOURSOP	North Reference:	True
Well:	SOURSOP 5 STATE COM 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	SOURSOP 5 STATE COM 501H		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,300.0	90.00	179.97	10,150.0	-4,737.7	382.8	4,737.7	0.00	0.00	0.00
15,400.0	90.00	179.97	10,150.0	-4,837.7	382.9	4,837.7	0.00	0.00	0.00
15,500.0	90.00	179.97	10,150.0	-4,937.7	382.9	4,937.7	0.00	0.00	0.00
15,600.0	90.00	179.97	10,150.0	-5,037.7	383.0	5,037.7	0.00	0.00	0.00
15,700.0	90.00	179.97	10,150.0	-5,137.7	383.0	5,137.7	0.00	0.00	0.00
15,800.0	90.00	179.97	10,150.0	-5,237.7	383.1	5,237.7	0.00	0.00	0.00
15,900.0	90.00	179.97	10,150.0	-5,337.7	383.1	5,337.7	0.00	0.00	0.00
16,000.0	90.00	179.97	10,150.0	-5,437.7	383.2	5,437.7	0.00	0.00	0.00
16,100.0	90.00	179.97	10,150.0	-5,537.7	383.2	5,537.7	0.00	0.00	0.00
16,200.0	90.00	179.97	10,150.0	-5,637.7	383.3	5,637.7	0.00	0.00	0.00
16,300.0	90.00	179.97	10,150.0	-5,737.7	383.3	5,737.7	0.00	0.00	0.00
16,400.0	90.00	179.97	10,150.0	-5,837.7	383.4	5,837.7	0.00	0.00	0.00
16,500.0	90.00	179.97	10,150.0	-5,937.7	383.4	5,937.7	0.00	0.00	0.00
16,600.0	90.00	179.97	10,150.0	-6,037.7	383.5	6,037.7	0.00	0.00	0.00
16,700.0	90.00	179.97	10,150.0	-6,137.7	383.5	6,137.7	0.00	0.00	0.00
16,800.0	90.00	179.97	10,150.0	-6,237.7	383.6	6,237.7	0.00	0.00	0.00
16,900.0	90.00	179.97	10,150.0	-6,337.7	383.6	6,337.7	0.00	0.00	0.00
17,000.0	90.00	179.97	10,150.0	-6,437.7	383.7	6,437.7	0.00	0.00	0.00
17,100.0	90.00	179.97	10,150.0	-6,537.7	383.8	6,537.7	0.00	0.00	0.00
17,200.0	90.00	179.97	10,150.0	-6,637.7	383.8	6,637.7	0.00	0.00	0.00
17,300.0	90.00	179.97	10,150.0	-6,737.7	383.9	6,737.7	0.00	0.00	0.00
17,400.0	90.00	179.97	10,150.0	-6,837.7	383.9	6,837.7	0.00	0.00	0.00
17,500.0	90.00	179.97	10,150.0	-6,937.7	384.0	6,937.7	0.00	0.00	0.00
17,600.0	90.00	179.97	10,150.0	-7,037.7	384.0	7,037.7	0.00	0.00	0.00
17,700.0	90.00	179.97	10,150.0	-7,137.7	384.1	7,137.7	0.00	0.00	0.00
17,800.0	90.00	179.97	10,150.0	-7,237.7	384.1	7,237.7	0.00	0.00	0.00
17,900.0	90.00	179.97	10,150.0	-7,337.7	384.2	7,337.7	0.00	0.00	0.00
18,000.0	90.00	179.97	10,150.0	-7,437.7	384.2	7,437.7	0.00	0.00	0.00
18,100.0	90.00	179.97	10,150.0	-7,537.7	384.3	7,537.7	0.00	0.00	0.00
18,200.0	90.00	179.97	10,150.0	-7,637.7	384.3	7,637.7	0.00	0.00	0.00
18,300.0	90.00	179.97	10,150.0	-7,737.7	384.4	7,737.7	0.00	0.00	0.00
18,400.0	90.00	179.97	10,150.0	-7,837.7	384.4	7,837.7	0.00	0.00	0.00
18,500.0	90.00	179.97	10,150.0	-7,937.7	384.5	7,937.7	0.00	0.00	0.00
18,600.0	90.00	179.97	10,150.0	-8,037.7	384.5	8,037.7	0.00	0.00	0.00
18,700.0	90.00	179.97	10,150.0	-8,137.7	384.6	8,137.7	0.00	0.00	0.00
18,800.0	90.00	179.97	10,150.0	-8,237.7	384.6	8,237.7	0.00	0.00	0.00
18,900.0	90.00	179.97	10,150.0	-8,337.7	384.7	8,337.7	0.00	0.00	0.00
19,000.0	90.00	179.97	10,150.0	-8,437.7	384.7	8,437.7	0.00	0.00	0.00
19,100.0	90.00	179.97	10,150.0	-8,537.7	384.8	8,537.7	0.00	0.00	0.00
19,200.0	90.00	179.97	10,150.0	-8,637.7	384.8	8,637.7	0.00	0.00	0.00
19,300.0	90.00	179.97	10,150.0	-8,737.7	384.9	8,737.7	0.00	0.00	0.00
19,400.0	90.00	179.97	10,150.0	-8,837.7	385.0	8,837.7	0.00	0.00	0.00
19,500.0	90.00	179.97	10,150.0	-8,937.7	385.0	8,937.7	0.00	0.00	0.00
19,600.0	90.00	179.97	10,150.0	-9,037.7	385.1	9,037.7	0.00	0.00	0.00
19,700.0	90.00	179.97	10,150.0	-9,137.7	385.1	9,137.7	0.00	0.00	0.00
19,800.0	90.00	179.97	10,150.0	-9,237.7	385.2	9,237.7	0.00	0.00	0.00
19,900.0	90.00	179.97	10,150.0	-9,337.7	385.2	9,337.7	0.00	0.00	0.00
20,000.0	90.00	179.97	10,150.0	-9,437.7	385.3	9,437.7	0.00	0.00	0.00
20,085.4	90.00	179.97	10,150.0	-9,523.1	385.3	9,523.1	0.00	0.00	0.00
5 1/2"									

Centennial Resource Dev

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well SOURSOP 5 STATE COM 501H
Company:	NEW MEXICO	TVD Reference:	RKB=3623.4+25 @ 3648.4usft
Project:	LEA	MD Reference:	RKB=3623.4+25 @ 3648.4usft
Site:	SOURSOP	North Reference:	True
Well:	SOURSOP 5 STATE COM 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	SOURSOP 5 STATE COM 501H		
Design:	PWP0		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
LTP/BHL - SOURSOP	0.00	0.00	10,150.0	-9,523.1	385.5	11,764,562.98	2,139,486.01	32° 23' 57.443 N	103° 22' 57.296 W
- plan misses target center by 0.2usft at 20085.4usft MD (10150.0 TVD, -9523.1 N, 385.3 E)									
- Point									
FTP - SOURSOP 5 S1	0.00	0.00	10,150.0	899.5	374.4	11,774,984.21	2,139,317.19	32° 25' 40.585 N	103° 22' 57.426 W
- plan misses target center by 464.3usft at 9972.8usft MD (9902.0 TVD, 507.0 N, 380.1 E)									
- Circle (radius 50.0)									

Casing Points					
	Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
	1,850.0	1,850.0	13 3/8"	13-3/8	17-1/2
	5,684.2	5,650.0	9 5/8"	9-5/8	12-1/4
	20,085.4	10,150.0	5 1/2"	5-1/2	8-1/2

NEW MEXICO

LEA

SOURSOP

SOURSOP 5 STATE COM 501H

SOURSOP 5 STATE COM 501H

PWP0

Anticollision Summary Report

17 December, 2019

Centennial Resource Dev

Anticollision Summary Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well SOURSOP 5 STATE COM 501H
Project:	LEA	TVD Reference:	RKB=3623.4+25 @ 3648.4usft
Reference Site:	SOURSOP	MD Reference:	RKB=3623.4+25 @ 3648.4usft
Site Error:	0.0 usft	North Reference:	True
Reference Well:	SOURSOP 5 STATE COM 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	SOURSOP 5 STATE COM 501H	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Reference	PWP0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 2,243.8usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	12/17/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	20,085.4	PWP0 (SOURSOP 5 STATE COM 501H)	MWD+IFR1+MS	OWSG_Rev2_ MWD + IFR1 + Multi-Station Corri	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
HAGBERRY						
HAGBERRY 9 STATE COM 501H - HAGBERRY 9 STAT	20,085.4	14,989.9	743.3	614.0	5.749	CC, ES, SF
SOURSOP						
SOURSOP 5 STATE COM #2H - SOURSOP 5 STATE C						Out of range
SOURSOP 5 STATE COM 502H - SOURSOP 5 STATE C	2,000.0	1,999.9	30.0	16.1	2.159	CC, ES
SOURSOP 5 STATE COM 502H - SOURSOP 5 STATE C	2,100.0	2,099.6	30.9	16.3	2.117	SF

Centennial Resource Dev

Anticollision Summary Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well SOURSOP 5 STATE COM 501H
Project:	LEA	TVD Reference:	RKB=3623.4+25 @ 3648.4usft
Reference Site:	SOURSOP	MD Reference:	RKB=3623.4+25 @ 3648.4usft
Site Error:	0.0 usft	North Reference:	True
Reference Well:	SOURSOP 5 STATE COM 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	SOURSOP 5 STATE COM 501H	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB=3623.4+25 @ 3648.4usft

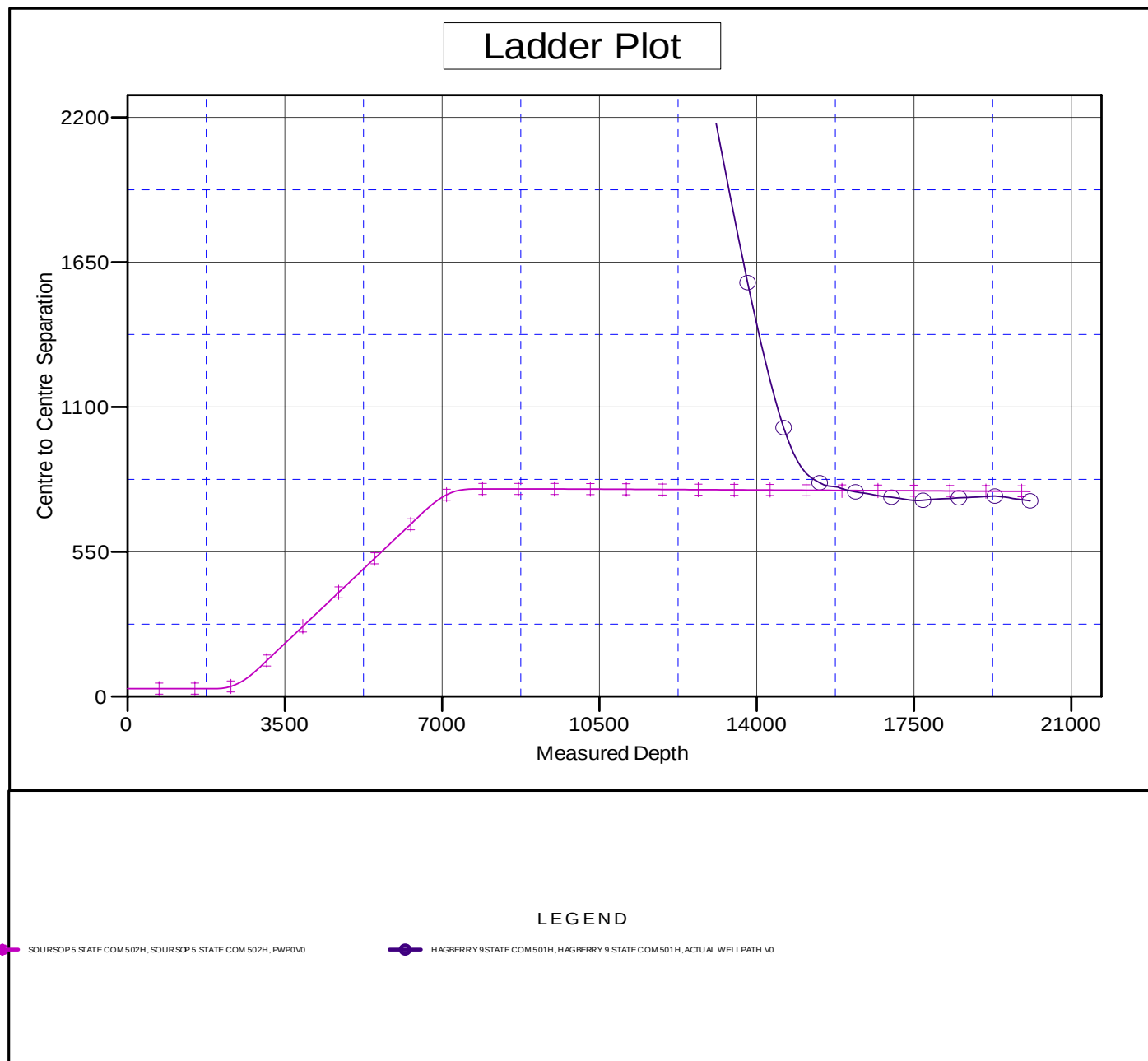
Offset Depths are relative to Offset Datum

Central Meridian is 105° 0' 0.000 W

Coordinates are relative to: SOURSOP 5 STATE COM 501H

Coordinate System is Universal Transverse Mercator (US Survey Feet), Zone 13N

Grid Convergence at Surface is: 0.87°



Centennial Resource Dev

Anticollision Summary Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well SOURSOP 5 STATE COM 501H
Project:	LEA	TVD Reference:	RKB=3623.4+25 @ 3648.4usft
Reference Site:	SOURSOP	MD Reference:	RKB=3623.4+25 @ 3648.4usft
Site Error:	0.0 usft	North Reference:	True
Reference Well:	SOURSOP 5 STATE COM 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	SOURSOP 5 STATE COM 501H	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB=3623.4+25 @ 3648.4usft

Offset Depths are relative to Offset Datum

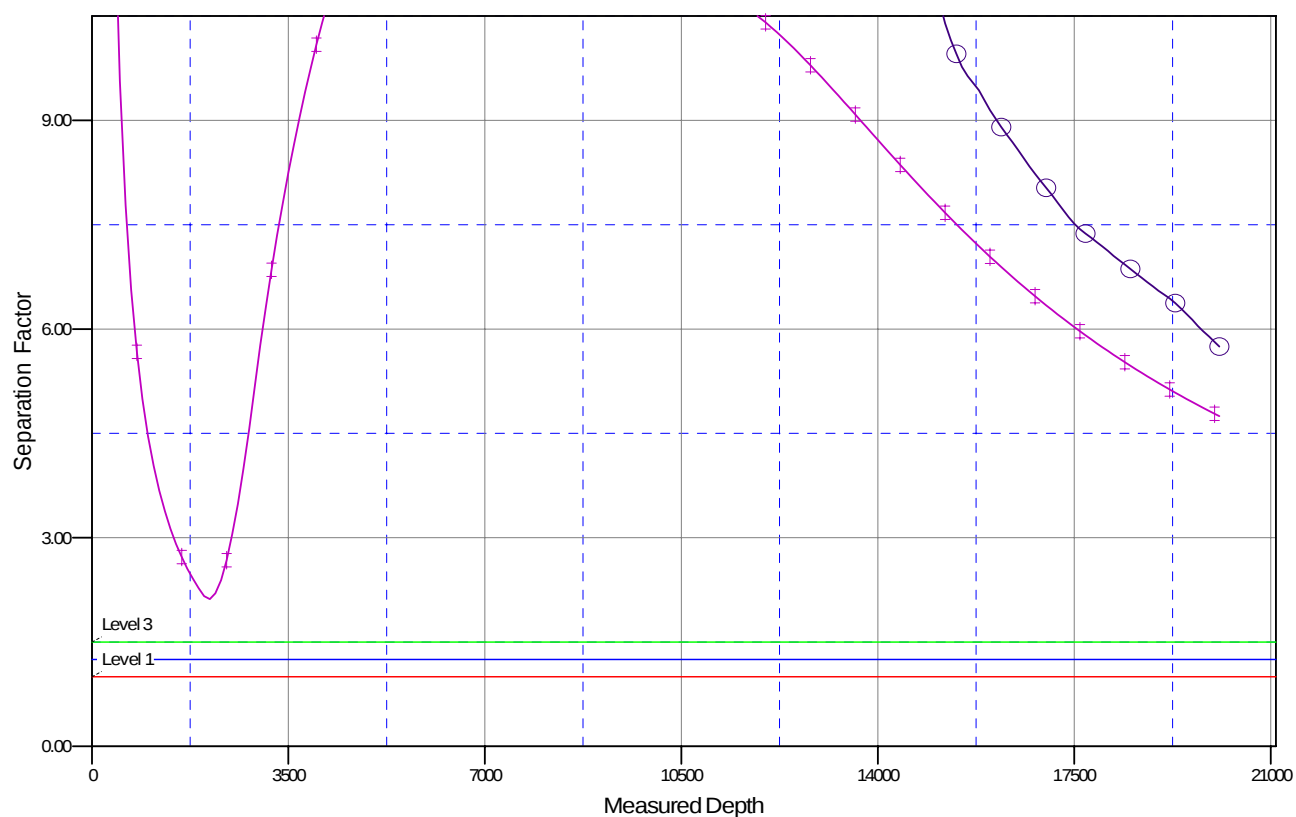
Central Meridian is 105° 0' 0.000 W

Coordinates are relative to: SOURSOP 5 STATE COM 501H

Coordinate System is Universal Transverse Mercator (US Survey Feet), Zone 13N

Grid Convergence at Surface is: 0.87°

Separation Factor Plot



LEGEND

SOURSOP 5 STATE COM 502H, SOURSOP 5 STATE COM 502H, PWP0V0

HAGBERRY 9 STATE COM 501H, HAGBERRY 9 STATE COM 501H, ACTUAL WELLPATH V0

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018