

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 291569

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 30-025-48405
4. Property Code 325758	5. Property Name HAGBERRY 9 STATE COM	6. Well No. 502H

7. Surface Location

UL - Lot C	Section 9	Township 22S	Range 35E	Lot Idn C	Feet From 1050	N/S Line N	Feet From 1816	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot N	Section 16	Township 22S	Range 35E	Lot Idn N	Feet From 100	N/S Line S	Feet From 1695	E/W Line W	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 3617
16. Multiple N	17. Proposed Depth 20304	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 3/1/2021
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	20304	2490	9616
Prod	8.75	5.5	40	10516	814	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 production casing string.

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: Regulatory Lead	Title: Geologist	
Email Address: Sarah.Ferreyros@cdevinc.com	Approved Date: 1/26/2021	Expiration Date: 1/26/2023
Date: 1/24/2021	Phone: 720-499-1454	Conditions of Approval Attached

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code 98136	³ Pool Name WC-025 G-07 S223505N; Bone Spring	
⁴ Property Code	⁵ Property Name HAGBERRY 9 STATE COM			⁶ Well Number 502H
⁷ OGRID No. 372165	⁸ Operator Name CENTENNIAL RESOURCE PRODUCTION, LLC			⁹ Elevation 3617.3'

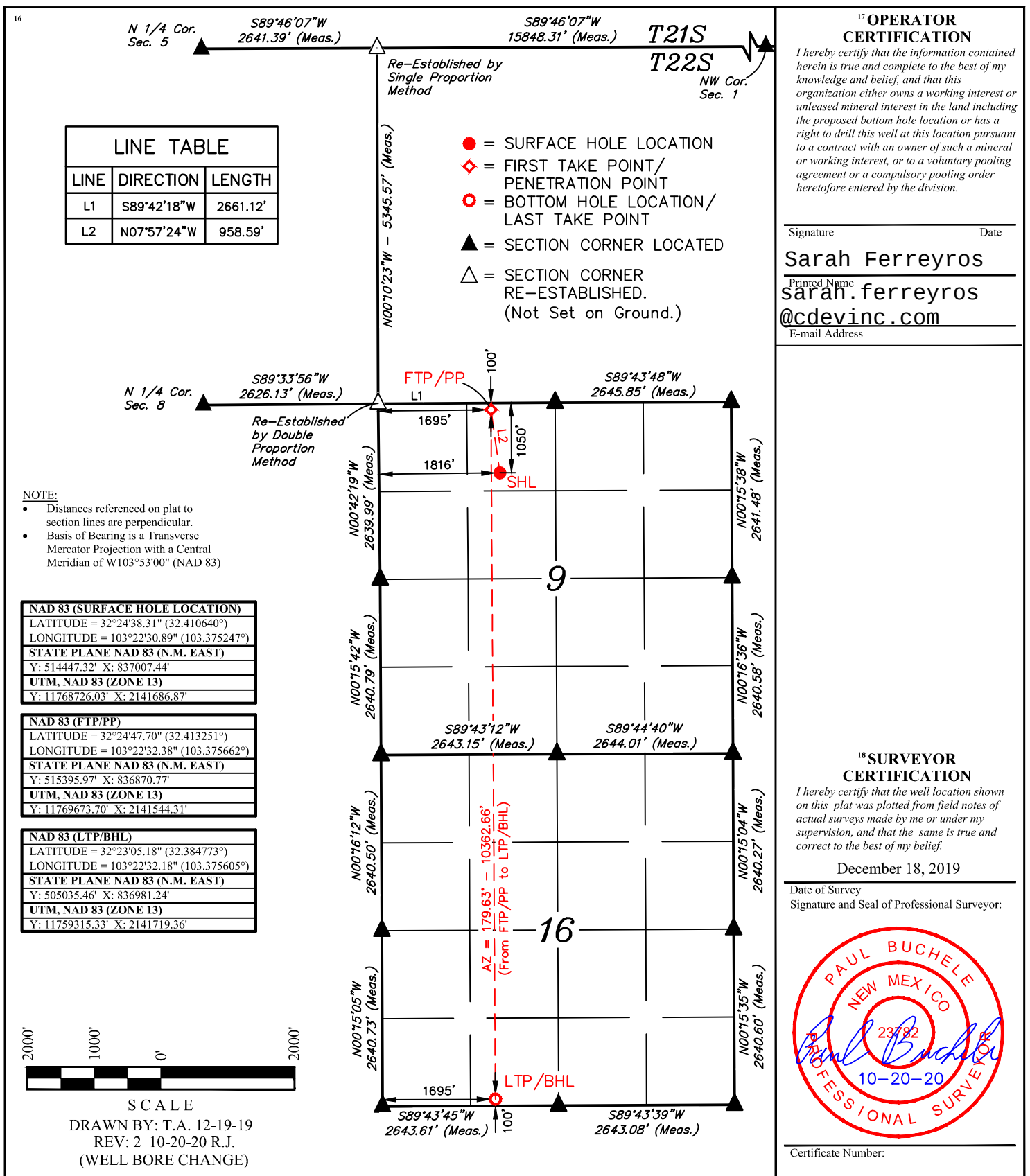
¹⁰Surface Location

UL or lot no. C	Section 9	Township 22S	Range 35E	Lot Idn	Feet from the 1050	North/South line NORTH	Feet from the 1816	East/West line WEST	County LEA
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"Bottom Hole Location If Different From Surface

UL or lot no. N	Section 16	Township 22S	Range 35E	Lot Idn	Feet from the 100	North/South line SOUTH	Feet from the 1695	East/West line WEST	County LEA
¹² Dedicated Acres 640		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ 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.



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Santa Fe, NM 87505

GAS CAPTURE PLAN

Date: 1/26/2021

☒ 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
HAGBERRY 9 STATE COM #502H	30-025-48405	C-9-22S-35E	1050N 1816W	2200	None	

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/Low Pressure gathering system located in Lea County, New Mexico. It will require 1750' of pipeline to connect the facility to High/Low 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 291569

PERMIT COMMENTS

Operator Name and Address: CENTENNIAL RESOURCE PRODUCTION, LLC [372165] 1001 17th Street, Suite 1800 Denver, CO 80202		API Number: 30-025-48405
		Well: HAGBERRY 9 STATE COM #502H
Created By	Comment	Comment Date
sferreyros	Spudder rig will preset surface casing.	1/24/2021

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Form APD Conditions

Permit 291569

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: CENTENNIAL RESOURCE PRODUCTION, LLC [372165] 1001 17th Street, Suite 1800 Denver, CO 80202	API Number: 30-025-48405
	Well: HAGBERRY 9 STATE COM #502H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and 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.



HAGBERRY 9 STATE COM 502H_503H

PROJECT DETAILS: LEA COUNTY

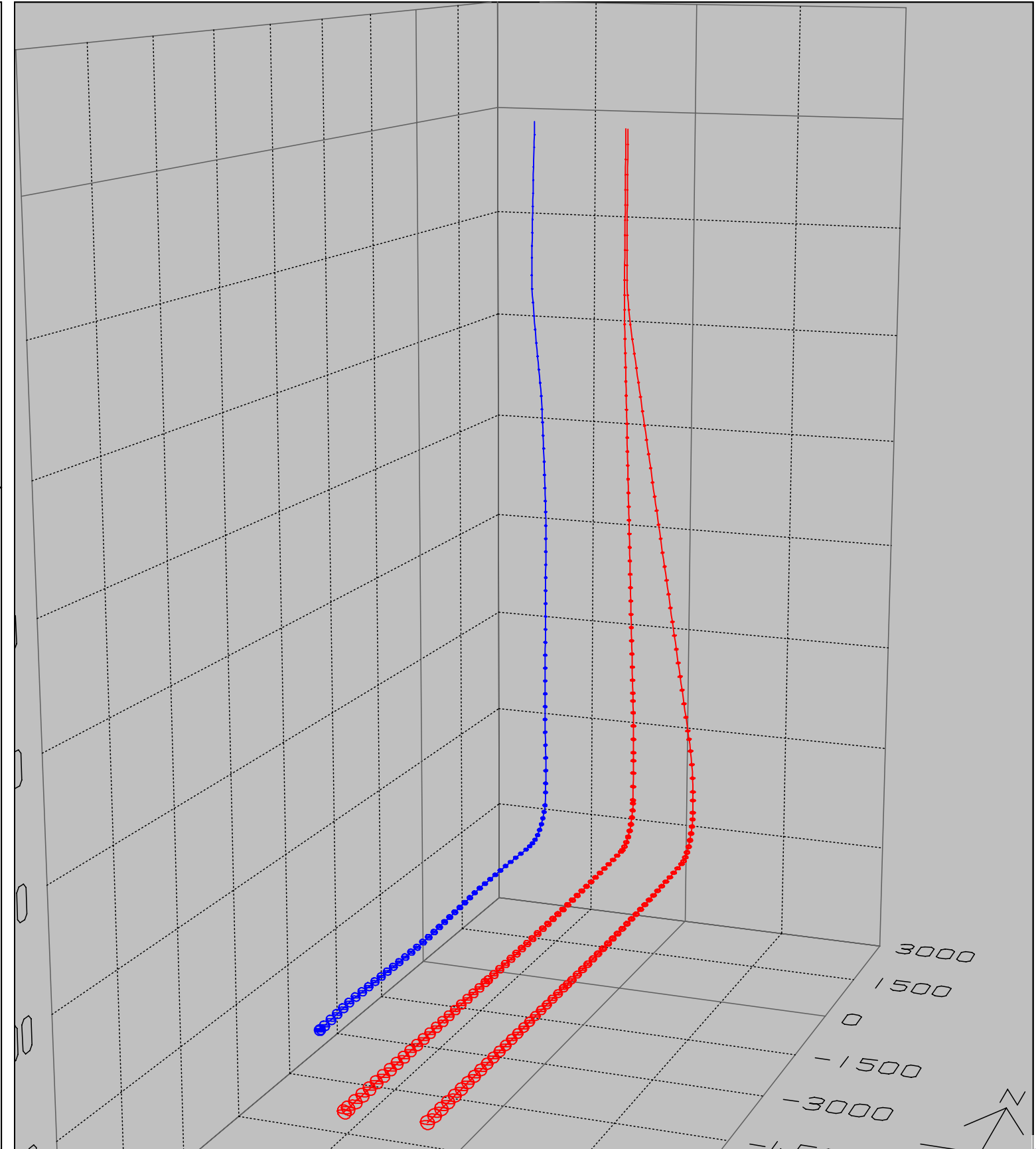
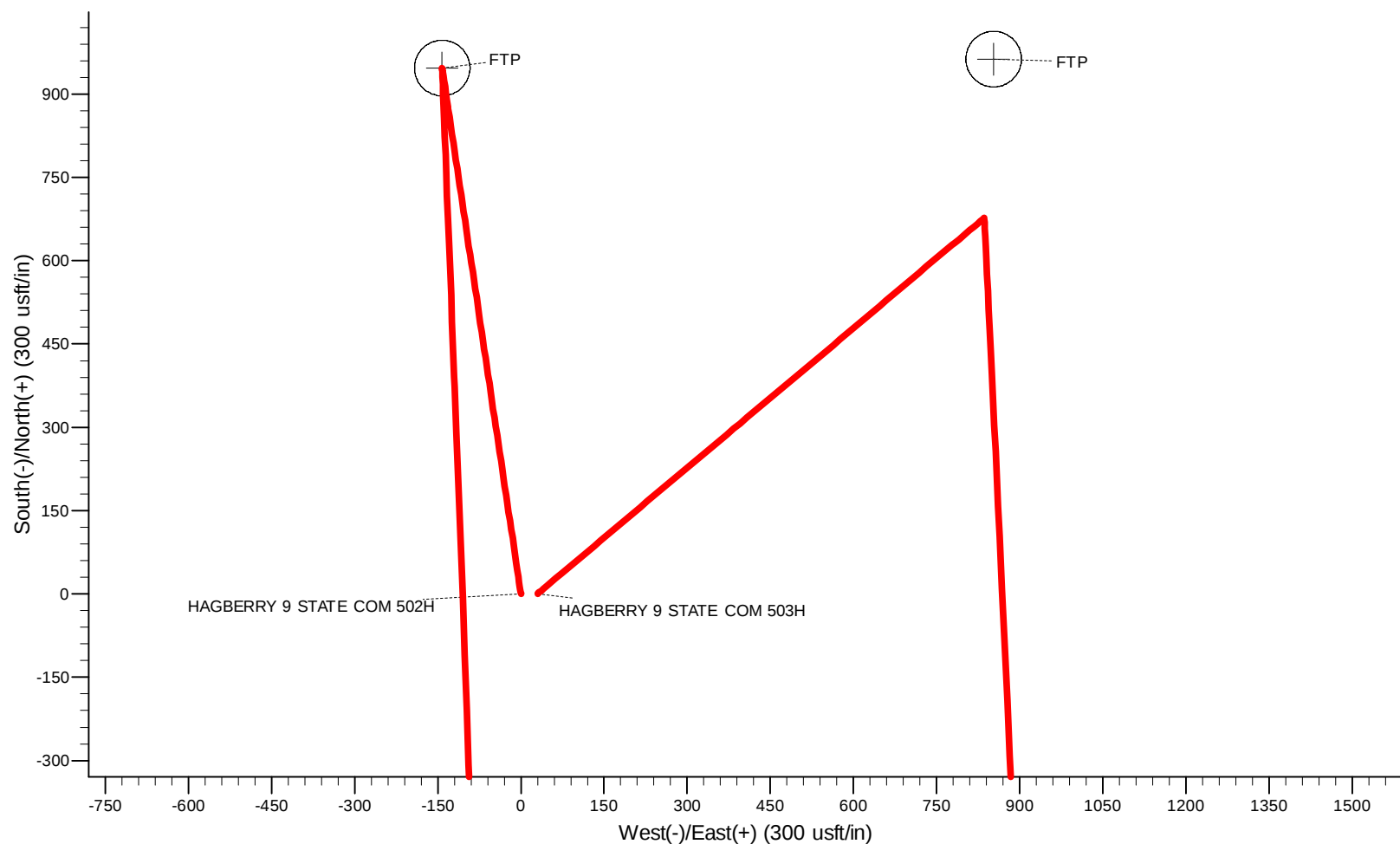
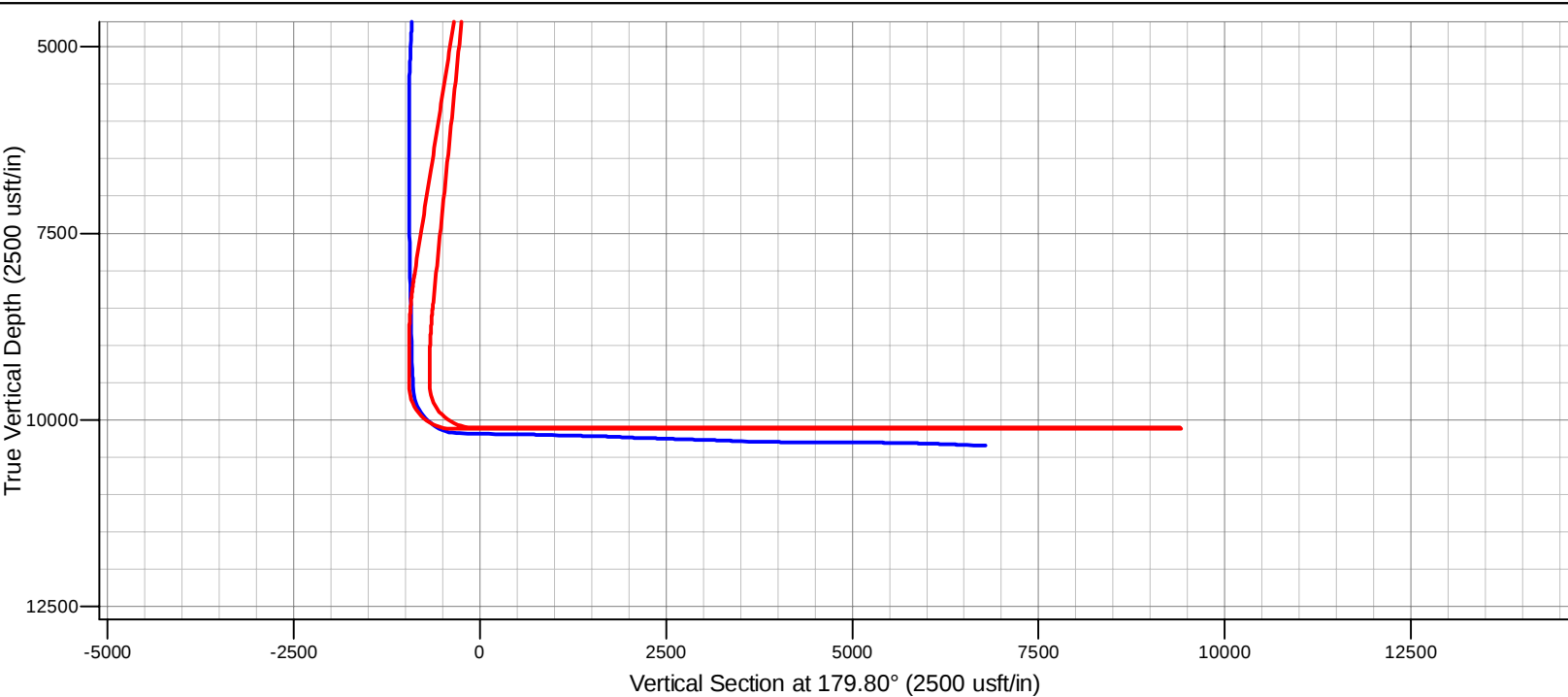
Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Zone 13N (108 W to 102 W)

System Datum: Mean Sea Level



Page 6 of 15
Azimuths to Grid North
True North: -0.87°
Magnetic North: 6.80°

Magnetic Field
Strength: 48925.8nT
Dip Angle: 60.45°
Date: 11/6/2018
Model: IGRF200510



NEW MEXICO

LEA

HAGBERRY

HAGBERRY 9 STATE COM 502H

HAGBERRY 9 STATE COM 502H

Plan: PWP0

Standard Survey Report

05 November, 2020

Centennial Resource Development

Survey Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well HAGBERRY 9 STATE COM 502H
Project:	LEA	TVD Reference:	RKB=3617.3 @ 3643.3usft
Site:	HAGBERRY	MD Reference:	RKB=3617.3 @ 3643.3usft
Well:	HAGBERRY 9 STATE COM 502H	North Reference:	Grid
Wellbore:	HAGBERRY 9 STATE COM 502H	Survey Calculation Method:	Minimum Curvature
Design:	PWP0	Database:	Compass

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

Site		HAGBERRY				
Site Position: From:	Map	Northing:	11,769,411.75	usft	Latitude:	32° 24' 45.324 N
		Easting:	2,140,135.34	usft	Longitude:	103° 22' 48.866 W
		Position Uncertainty:	0.0	usft	Slot Radius:	13-3/16 "

Well	HAGBERRY 9 STATE COM 502H					
Well Position	+N/-S	0.0 usft	Northing:	11,768,726.48 usft	Latitude:	32° 24' 38.310 N
	+E/-W	0.0 usft	Easting:	2,141,686.81 usft	Longitude:	103° 22' 30.890 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,617.3 usft

Wellbore	HAGBERRY 9 STATE COM 502H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.67	60.45	48,925.84046580

Design	PWP0			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.80

Survey Tool Program		Date	11/5/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	20,303.3	PWP0 (HAGBERRY 9 STATE COM 502H)	MWD+IFR1+MS	OWSG_Rev2_ MWD + IFR1 + Multi-Station Correction	

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
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	9.00	351.46	2,896.3	69.8	-10.5	-69.8	1.00	1.00	0.00
8,118.0	9.00	351.46	8,050.1	877.0	-131.7	-877.4	0.00	0.00	0.00
9,018.0	0.00	0.00	8,946.4	946.7	-142.2	-947.2	1.00	-1.00	0.00
9,616.5	0.00	0.00	9,544.9	946.7	-142.2	-947.2	0.00	0.00	0.00
10,516.8	90.00	177.75	10,118.0	374.0	-119.7	-374.5	10.00	10.00	0.00
15,961.6	90.00	179.63	10,118.0	-5,069.1	4.6	5,069.1	0.03	0.00	0.03
20,304.0	90.00	179.63	10,118.0	-9,411.5	32.4	9,411.5	0.00	0.00	0.00

Centennial Resource Development

Survey Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well HAGBERRY 9 STATE COM 502H
Project:	LEA	TVD Reference:	RKB=3617.3 @ 3643.3usft
Site:	HAGBERRY	MD Reference:	RKB=3617.3 @ 3643.3usft
Well:	HAGBERRY 9 STATE COM 502H	North Reference:	Grid
Wellbore:	HAGBERRY 9 STATE COM 502H	Survey Calculation Method:	Minimum Curvature
Design:	PWP0	Database:	Compass

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

Site		HAGBERRY				
Site Position: From:	Map	Northing:	11,769,411.75	usft	Latitude:	32° 24' 45.324 N
		Easting:	2,140,135.34	usft	Longitude:	103° 22' 48.866 W
		Position Uncertainty:	0.0	usft	Slot Radius:	13-3/16 "

Well	HAGBERRY 9 STATE COM 502H					
Well Position	+N/-S	0.0 usft	Northing:	11,768,726.48 usft	Latitude:	32° 24' 38.310 N
	+E/-W	0.0 usft	Easting:	2,141,686.81 usft	Longitude:	103° 22' 30.890 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,617.3 usft

Wellbore						HAGBERRY 9 STATE COM 502H									
Magnetics						Model Name		Sample Date		Declination (°)		Dip Angle (°)		Field Strength (nT)	
						IGRF200510		12/31/2009		7.67		60.45		48,925.84046580	

Design	PWP0			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.80

Survey Tool Program		Date	11/5/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	20,303.3	PWP0 (HAGBERRY 9 STATE COM 502H)	MWD+IFR1+MS	OWSG_Rev2_ MWD + IFR1 + Multi-Station Correction	

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

Centennial Resource Development

Survey Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well HAGBERRY 9 STATE COM 502H
Project:	LEA	TVD Reference:	RKB=3617.3 @ 3643.3usft
Site:	HAGBERRY	MD Reference:	RKB=3617.3 @ 3643.3usft
Well:	HAGBERRY 9 STATE COM 502H	North Reference:	Grid
Wellbore:	HAGBERRY 9 STATE COM 502H	Survey Calculation Method:	Minimum Curvature
Design:	PWPO	Database:	Compass

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)	
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	
1,900.0	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	351.46	2,100.0	0.9	-0.1	-0.9	1.00	1.00	0.00	
2,200.0	2.00	351.46	2,200.0	3.5	-0.5	-3.5	1.00	1.00	0.00	
2,300.0	3.00	351.46	2,299.9	7.8	-1.2	-7.8	1.00	1.00	0.00	
2,400.0	4.00	351.46	2,399.7	13.8	-2.1	-13.8	1.00	1.00	0.00	
2,500.0	5.00	351.46	2,499.4	21.6	-3.2	-21.6	1.00	1.00	0.00	
2,600.0	6.00	351.46	2,598.9	31.0	-4.7	-31.1	1.00	1.00	0.00	
2,700.0	7.00	351.46	2,698.3	42.2	-6.3	-42.3	1.00	1.00	0.00	
2,800.0	8.00	351.46	2,797.4	55.1	-8.3	-55.2	1.00	1.00	0.00	
2,900.0	9.00	351.46	2,896.3	69.8	-10.5	-69.8	1.00	1.00	0.00	
3,000.0	9.00	351.46	2,995.1	85.2	-12.8	-85.3	0.00	0.00	0.00	
3,100.0	9.00	351.46	3,093.8	100.7	-15.1	-100.7	0.00	0.00	0.00	
3,200.0	9.00	351.46	3,192.6	116.2	-17.4	-116.2	0.00	0.00	0.00	
3,300.0	9.00	351.46	3,291.4	131.6	-19.8	-131.7	0.00	0.00	0.00	
3,400.0	9.00	351.46	3,390.1	147.1	-22.1	-147.2	0.00	0.00	0.00	
3,500.0	9.00	351.46	3,488.9	162.6	-24.4	-162.7	0.00	0.00	0.00	
3,600.0	9.00	351.46	3,587.7	178.0	-26.7	-178.1	0.00	0.00	0.00	
3,700.0	9.00	351.46	3,686.5	193.5	-29.1	-193.6	0.00	0.00	0.00	
3,800.0	9.00	351.46	3,785.2	209.0	-31.4	-209.1	0.00	0.00	0.00	
3,900.0	9.00	351.46	3,884.0	224.5	-33.7	-224.6	0.00	0.00	0.00	
4,000.0	9.00	351.46	3,982.8	239.9	-36.0	-240.1	0.00	0.00	0.00	
4,100.0	9.00	351.46	4,081.5	255.4	-38.4	-255.5	0.00	0.00	0.00	
4,200.0	9.00	351.46	4,180.3	270.9	-40.7	-271.0	0.00	0.00	0.00	
4,300.0	9.00	351.46	4,279.1	286.3	-43.0	-286.5	0.00	0.00	0.00	
4,400.0	9.00	351.46	4,377.8	301.8	-45.3	-302.0	0.00	0.00	0.00	
4,500.0	9.00	351.46	4,476.6	317.3	-47.6	-317.4	0.00	0.00	0.00	
4,600.0	9.00	351.46	4,575.4	332.7	-50.0	-332.9	0.00	0.00	0.00	
4,700.0	9.00	351.46	4,674.1	348.2	-52.3	-348.4	0.00	0.00	0.00	
4,800.0	9.00	351.46	4,772.9	363.7	-54.6	-363.9	0.00	0.00	0.00	
4,900.0	9.00	351.46	4,871.7	379.2	-56.9	-379.4	0.00	0.00	0.00	
5,000.0	9.00	351.46	4,970.4	394.6	-59.3	-394.8	0.00	0.00	0.00	
5,100.0	9.00	351.46	5,069.2	410.1	-61.6	-410.3	0.00	0.00	0.00	
5,200.0	9.00	351.46	5,168.0	425.6	-63.9	-425.8	0.00	0.00	0.00	
5,300.0	9.00	351.46	5,266.8	441.0	-66.2	-441.3	0.00	0.00	0.00	

Centennial Resource Development

Survey Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well HAGBERRY 9 STATE COM 502H
Project:	LEA	TVD Reference:	RKB=3617.3 @ 3643.3usft
Site:	HAGBERRY	MD Reference:	RKB=3617.3 @ 3643.3usft
Well:	HAGBERRY 9 STATE COM 502H	North Reference:	Grid
Wellbore:	HAGBERRY 9 STATE COM 502H	Survey Calculation Method:	Minimum Curvature
Design:	PWP0	Database:	Compass

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)	
5,400.0	9.00	351.46	5,365.5	456.5	-68.6	-456.7	0.00	0.00	0.00	
5,500.0	9.00	351.46	5,464.3	472.0	-70.9	-472.2	0.00	0.00	0.00	
5,600.0	9.00	351.46	5,563.1	487.4	-73.2	-487.7	0.00	0.00	0.00	
5,700.0	9.00	351.46	5,661.8	502.9	-75.5	-503.2	0.00	0.00	0.00	
5,800.0	9.00	351.46	5,760.6	518.4	-77.8	-518.7	0.00	0.00	0.00	
5,900.0	9.00	351.46	5,859.4	533.9	-80.2	-534.1	0.00	0.00	0.00	
6,000.0	9.00	351.46	5,958.1	549.3	-82.5	-549.6	0.00	0.00	0.00	
6,100.0	9.00	351.46	6,056.9	564.8	-84.8	-565.1	0.00	0.00	0.00	
6,200.0	9.00	351.46	6,155.7	580.3	-87.1	-580.6	0.00	0.00	0.00	
6,300.0	9.00	351.46	6,254.4	595.7	-89.5	-596.0	0.00	0.00	0.00	
6,400.0	9.00	351.46	6,353.2	611.2	-91.8	-611.5	0.00	0.00	0.00	
6,500.0	9.00	351.46	6,452.0	626.7	-94.1	-627.0	0.00	0.00	0.00	
6,600.0	9.00	351.46	6,550.8	642.1	-96.4	-642.5	0.00	0.00	0.00	
6,700.0	9.00	351.46	6,649.5	657.6	-98.8	-658.0	0.00	0.00	0.00	
6,800.0	9.00	351.46	6,748.3	673.1	-101.1	-673.4	0.00	0.00	0.00	
6,900.0	9.00	351.46	6,847.1	688.6	-103.4	-688.9	0.00	0.00	0.00	
7,000.0	9.00	351.46	6,945.8	704.0	-105.7	-704.4	0.00	0.00	0.00	
7,100.0	9.00	351.46	7,044.6	719.5	-108.0	-719.9	0.00	0.00	0.00	
7,200.0	9.00	351.46	7,143.4	735.0	-110.4	-735.3	0.00	0.00	0.00	
7,300.0	9.00	351.46	7,242.1	750.4	-112.7	-750.8	0.00	0.00	0.00	
7,400.0	9.00	351.46	7,340.9	765.9	-115.0	-766.3	0.00	0.00	0.00	
7,500.0	9.00	351.46	7,439.7	781.4	-117.3	-781.8	0.00	0.00	0.00	
7,600.0	9.00	351.46	7,538.4	796.8	-119.7	-797.3	0.00	0.00	0.00	
7,700.0	9.00	351.46	7,637.2	812.3	-122.0	-812.7	0.00	0.00	0.00	
7,800.0	9.00	351.46	7,736.0	827.8	-124.3	-828.2	0.00	0.00	0.00	
7,900.0	9.00	351.46	7,834.7	843.3	-126.6	-843.7	0.00	0.00	0.00	
8,000.0	9.00	351.46	7,933.5	858.7	-129.0	-859.2	0.00	0.00	0.00	
8,100.0	9.00	351.46	8,032.3	874.2	-131.3	-874.6	0.00	0.00	0.00	
8,118.0	9.00	351.46	8,050.1	877.0	-131.7	-877.4	0.00	0.00	0.00	
8,200.0	8.18	351.46	8,131.1	889.1	-133.5	-889.5	1.00	-1.00	0.00	
8,300.0	7.18	351.46	8,230.2	902.3	-135.5	-902.8	1.00	-1.00	0.00	
8,400.0	6.18	351.46	8,329.6	913.8	-137.2	-914.3	1.00	-1.00	0.00	
8,500.0	5.18	351.46	8,429.1	923.6	-138.7	-924.1	1.00	-1.00	0.00	
8,600.0	4.18	351.46	8,528.7	931.7	-139.9	-932.1	1.00	-1.00	0.00	
8,700.0	3.18	351.46	8,628.5	938.0	-140.9	-938.5	1.00	-1.00	0.00	
8,800.0	2.18	351.46	8,728.4	942.6	-141.6	-943.1	1.00	-1.00	0.00	
8,900.0	1.18	351.46	8,828.4	945.5	-142.0	-946.0	1.00	-1.00	0.00	
9,000.0	0.18	351.46	8,928.4	946.7	-142.2	-947.2	1.00	-1.00	0.00	
9,018.0	0.00	0.00	8,946.4	946.7	-142.2	-947.2	1.00	-1.00	0.00	
9,100.0	0.00	0.00	9,028.4	946.7	-142.2	-947.2	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,128.4	946.7	-142.2	-947.2	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,228.4	946.7	-142.2	-947.2	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,328.4	946.7	-142.2	-947.2	0.00	0.00	0.00	

Centennial Resource Development

Survey Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well HAGBERRY 9 STATE COM 502H
Project:	LEA	TVD Reference:	RKB=3617.3 @ 3643.3usft
Site:	HAGBERRY	MD Reference:	RKB=3617.3 @ 3643.3usft
Well:	HAGBERRY 9 STATE COM 502H	North Reference:	Grid
Wellbore:	HAGBERRY 9 STATE COM 502H	Survey Calculation Method:	Minimum Curvature
Design:	PWP0	Database:	Compass

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)	
9,500.0	0.00	0.00	9,428.4	946.7	-142.2	-947.2	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,528.4	946.7	-142.2	-947.2	0.00	0.00	0.00	
9,616.5	0.00	0.00	9,544.9	946.7	-142.2	-947.2	0.00	0.00	0.00	
9,700.0	8.35	177.75	9,628.1	940.7	-141.9	-941.2	10.00	10.00	0.00	
9,800.0	18.34	177.75	9,725.2	917.6	-141.0	-918.1	10.00	10.00	0.00	
9,900.0	28.34	177.75	9,816.9	878.1	-139.5	-878.6	10.00	10.00	0.00	
10,000.0	38.34	177.75	9,900.4	823.2	-137.3	-823.7	10.00	10.00	0.00	
10,100.0	48.34	177.75	9,973.0	754.8	-134.6	-755.2	10.00	10.00	0.00	
10,200.0	58.33	177.75	10,032.7	674.7	-131.5	-675.2	10.00	10.00	0.00	
10,300.0	68.33	177.75	10,077.5	585.5	-128.0	-586.0	10.00	10.00	0.00	
10,400.0	78.33	177.75	10,106.1	489.9	-124.2	-490.4	10.00	10.00	0.00	
10,500.0	88.32	177.75	10,117.8	390.8	-120.3	-391.2	10.00	10.00	0.00	
10,516.8	90.00	177.75	10,118.0	374.0	-119.7	-374.5	10.00	10.00	0.00	
10,600.0	90.00	177.78	10,118.0	290.9	-116.4	-291.3	0.03	0.00	0.03	
10,700.0	90.00	177.81	10,118.0	191.0	-112.6	-191.4	0.03	0.00	0.03	
10,800.0	90.00	177.85	10,118.0	91.0	-108.8	-91.4	0.03	0.00	0.03	
10,900.0	90.00	177.88	10,118.0	-8.9	-105.1	8.5	0.03	0.00	0.03	
11,000.0	90.00	177.92	10,118.0	-108.8	-101.4	108.5	0.03	0.00	0.03	
11,100.0	90.00	177.95	10,118.0	-208.8	-97.8	208.4	0.03	0.00	0.03	
11,200.0	90.00	177.99	10,118.0	-308.7	-94.3	308.4	0.03	0.00	0.03	
11,300.0	90.00	178.02	10,118.0	-408.6	-90.8	408.3	0.03	0.00	0.03	
11,400.0	90.00	178.06	10,118.0	-508.6	-87.3	508.3	0.03	0.00	0.03	
11,500.0	90.00	178.09	10,118.0	-608.5	-84.0	608.2	0.03	0.00	0.03	
11,600.0	90.00	178.12	10,118.0	-708.5	-80.7	708.2	0.03	0.00	0.03	
11,700.0	90.00	178.16	10,118.0	-808.4	-77.4	808.1	0.03	0.00	0.03	
11,800.0	90.00	178.19	10,118.0	-908.4	-74.3	908.1	0.03	0.00	0.03	
11,900.0	90.00	178.23	10,118.0	-1,008.3	-71.1	1,008.1	0.03	0.00	0.03	
12,000.0	90.00	178.26	10,118.0	-1,108.3	-68.1	1,108.0	0.03	0.00	0.03	
12,100.0	90.00	178.30	10,118.0	-1,208.2	-65.1	1,208.0	0.03	0.00	0.03	
12,200.0	90.00	178.33	10,118.0	-1,308.2	-62.1	1,308.0	0.03	0.00	0.03	
12,300.0	90.00	178.37	10,118.0	-1,408.1	-59.3	1,407.9	0.03	0.00	0.03	
12,400.0	90.00	178.40	10,118.0	-1,508.1	-56.4	1,507.9	0.03	0.00	0.03	
12,500.0	90.00	178.44	10,118.0	-1,608.1	-53.7	1,607.9	0.03	0.00	0.03	
12,600.0	90.00	178.47	10,118.0	-1,708.0	-51.0	1,707.8	0.03	0.00	0.03	
12,700.0	90.00	178.51	10,118.0	-1,808.0	-48.3	1,807.8	0.03	0.00	0.03	
12,800.0	90.00	178.54	10,118.0	-1,908.0	-45.8	1,907.8	0.03	0.00	0.03	
12,900.0	90.00	178.57	10,118.0	-2,007.9	-43.2	2,007.8	0.03	0.00	0.03	
13,000.0	90.00	178.61	10,118.0	-2,107.9	-40.8	2,107.7	0.03	0.00	0.03	
13,100.0	90.00	178.64	10,118.0	-2,207.9	-38.4	2,207.7	0.03	0.00	0.03	
13,200.0	90.00	178.68	10,118.0	-2,307.8	-36.0	2,307.7	0.03	0.00	0.03	
13,300.0	90.00	178.71	10,118.0	-2,407.8	-33.8	2,407.7	0.03	0.00	0.03	
13,400.0	90.00	178.75	10,118.0	-2,507.8	-31.6	2,507.7	0.03	0.00	0.03	
13,500.0	90.00	178.78	10,118.0	-2,607.8	-29.4	2,607.6	0.03	0.00	0.03	

Centennial Resource Development

Survey Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well HAGBERRY 9 STATE COM 502H
Project:	LEA	TVD Reference:	RKB=3617.3 @ 3643.3usft
Site:	HAGBERRY	MD Reference:	RKB=3617.3 @ 3643.3usft
Well:	HAGBERRY 9 STATE COM 502H	North Reference:	Grid
Wellbore:	HAGBERRY 9 STATE COM 502H	Survey Calculation Method:	Minimum Curvature
Design:	PWP0	Database:	Compass

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)	
13,600.0	90.00	178.82	10,118.0	-2,707.7	-27.3	2,707.6	0.03	0.00	0.03	
13,700.0	90.00	178.85	10,118.0	-2,807.7	-25.3	2,807.6	0.03	0.00	0.03	
13,800.0	90.00	178.89	10,118.0	-2,907.7	-23.3	2,907.6	0.03	0.00	0.03	
13,900.0	90.00	178.92	10,118.0	-3,007.7	-21.4	3,007.6	0.03	0.00	0.03	
14,000.0	90.00	178.95	10,118.0	-3,107.7	-19.5	3,107.6	0.03	0.00	0.03	
14,100.0	90.00	178.99	10,118.0	-3,207.7	-17.7	3,207.6	0.03	0.00	0.03	
14,200.0	90.00	179.02	10,118.0	-3,307.6	-16.0	3,307.6	0.03	0.00	0.03	
14,300.0	90.00	179.06	10,118.0	-3,407.6	-14.3	3,407.6	0.03	0.00	0.03	
14,400.0	90.00	179.09	10,118.0	-3,507.6	-12.7	3,507.5	0.03	0.00	0.03	
14,500.0	90.00	179.13	10,118.0	-3,607.6	-11.2	3,607.5	0.03	0.00	0.03	
14,600.0	90.00	179.16	10,118.0	-3,707.6	-9.7	3,707.5	0.03	0.00	0.03	
14,700.0	90.00	179.20	10,118.0	-3,807.6	-8.2	3,807.5	0.03	0.00	0.03	
14,800.0	90.00	179.23	10,118.0	-3,907.6	-6.9	3,907.5	0.03	0.00	0.03	
14,900.0	90.00	179.27	10,118.0	-4,007.6	-5.6	4,007.5	0.03	0.00	0.03	
15,000.0	90.00	179.30	10,118.0	-4,107.6	-4.3	4,107.5	0.03	0.00	0.03	
15,100.0	90.00	179.34	10,118.0	-4,207.5	-3.1	4,207.5	0.03	0.00	0.03	
15,200.0	90.00	179.37	10,118.0	-4,307.5	-2.0	4,307.5	0.03	0.00	0.03	
15,300.0	90.00	179.40	10,118.0	-4,407.5	-0.9	4,407.5	0.03	0.00	0.03	
15,400.0	90.00	179.44	10,118.0	-4,507.5	0.1	4,507.5	0.03	0.00	0.03	
15,500.0	90.00	179.47	10,118.0	-4,607.5	1.0	4,607.5	0.03	0.00	0.03	
15,600.0	90.00	179.51	10,118.0	-4,707.5	1.9	4,707.5	0.03	0.00	0.03	
15,700.0	90.00	179.54	10,118.0	-4,807.5	2.8	4,807.5	0.03	0.00	0.03	
15,800.0	90.00	179.58	10,118.0	-4,907.5	3.5	4,907.5	0.03	0.00	0.03	
15,900.0	90.00	179.61	10,118.0	-5,007.5	4.2	5,007.5	0.03	0.00	0.03	
15,961.6	90.00	179.63	10,118.0	-5,069.1	4.6	5,069.1	0.03	0.00	0.03	
16,000.0	90.00	179.63	10,118.0	-5,107.5	4.9	5,107.5	0.00	0.00	0.00	
16,100.0	90.00	179.63	10,118.0	-5,207.5	5.5	5,207.5	0.00	0.00	0.00	
16,200.0	90.00	179.63	10,118.0	-5,307.5	6.2	5,307.5	0.00	0.00	0.00	
16,300.0	90.00	179.63	10,118.0	-5,407.5	6.8	5,407.5	0.00	0.00	0.00	
16,400.0	90.00	179.63	10,118.0	-5,507.5	7.4	5,507.5	0.00	0.00	0.00	
16,500.0	90.00	179.63	10,118.0	-5,607.5	8.1	5,607.5	0.00	0.00	0.00	
16,600.0	90.00	179.63	10,118.0	-5,707.5	8.7	5,707.5	0.00	0.00	0.00	
16,700.0	90.00	179.63	10,118.0	-5,807.5	9.4	5,807.5	0.00	0.00	0.00	
16,800.0	90.00	179.63	10,118.0	-5,907.5	10.0	5,907.5	0.00	0.00	0.00	
16,900.0	90.00	179.63	10,118.0	-6,007.5	10.6	6,007.5	0.00	0.00	0.00	
17,000.0	90.00	179.63	10,118.0	-6,107.5	11.3	6,107.5	0.00	0.00	0.00	
17,100.0	90.00	179.63	10,118.0	-6,207.5	11.9	6,207.5	0.00	0.00	0.00	
17,200.0	90.00	179.63	10,118.0	-6,307.5	12.6	6,307.5	0.00	0.00	0.00	
17,300.0	90.00	179.63	10,118.0	-6,407.5	13.2	6,407.5	0.00	0.00	0.00	
17,400.0	90.00	179.63	10,118.0	-6,507.5	13.8	6,507.5	0.00	0.00	0.00	
17,500.0	90.00	179.63	10,118.0	-6,607.5	14.5	6,607.5	0.00	0.00	0.00	
17,600.0	90.00	179.63	10,118.0	-6,707.5	15.1	6,707.5	0.00	0.00	0.00	
17,700.0	90.00	179.63	10,118.0	-6,807.5	15.8	6,807.5	0.00	0.00	0.00	
17,800.0	90.00	179.63	10,118.0	-6,907.5	16.4	6,907.5	0.00	0.00	0.00	

Centennial Resource Development

Survey Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well HAGBERRY 9 STATE COM 502H
Project:	LEA	TVD Reference:	RKB=3617.3 @ 3643.3usft
Site:	HAGBERRY	MD Reference:	RKB=3617.3 @ 3643.3usft
Well:	HAGBERRY 9 STATE COM 502H	North Reference:	Grid
Wellbore:	HAGBERRY 9 STATE COM 502H	Survey Calculation Method:	Minimum Curvature
Design:	PWPO	Database:	Compass

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)	
17,900.0	90.00	179.63	10,118.0	-7,007.5	17.0	7,007.5	0.00	0.00	0.00	
18,000.0	90.00	179.63	10,118.0	-7,107.5	17.7	7,107.5	0.00	0.00	0.00	
18,100.0	90.00	179.63	10,118.0	-7,207.5	18.3	7,207.5	0.00	0.00	0.00	
18,200.0	90.00	179.63	10,118.0	-7,307.5	19.0	7,307.5	0.00	0.00	0.00	
18,300.0	90.00	179.63	10,118.0	-7,407.5	19.6	7,407.5	0.00	0.00	0.00	
18,400.0	90.00	179.63	10,118.0	-7,507.5	20.2	7,507.5	0.00	0.00	0.00	
18,500.0	90.00	179.63	10,118.0	-7,607.5	20.9	7,607.5	0.00	0.00	0.00	
18,600.0	90.00	179.63	10,118.0	-7,707.5	21.5	7,707.5	0.00	0.00	0.00	
18,700.0	90.00	179.63	10,118.0	-7,807.5	22.2	7,807.5	0.00	0.00	0.00	
18,800.0	90.00	179.63	10,118.0	-7,907.5	22.8	7,907.5	0.00	0.00	0.00	
18,900.0	90.00	179.63	10,118.0	-8,007.4	23.4	8,007.5	0.00	0.00	0.00	
19,000.0	90.00	179.63	10,118.0	-8,107.4	24.1	8,107.5	0.00	0.00	0.00	
19,100.0	90.00	179.63	10,118.0	-8,207.4	24.7	8,207.5	0.00	0.00	0.00	
19,200.0	90.00	179.63	10,118.0	-8,307.4	25.3	8,307.5	0.00	0.00	0.00	
19,300.0	90.00	179.63	10,118.0	-8,407.4	26.0	8,407.5	0.00	0.00	0.00	
19,400.0	90.00	179.63	10,118.0	-8,507.4	26.6	8,507.5	0.00	0.00	0.00	
19,500.0	90.00	179.63	10,118.0	-8,607.4	27.3	8,607.5	0.00	0.00	0.00	
19,600.0	90.00	179.63	10,118.0	-8,707.4	27.9	8,707.5	0.00	0.00	0.00	
19,700.0	90.00	179.63	10,118.0	-8,807.4	28.5	8,807.5	0.00	0.00	0.00	
19,800.0	90.00	179.63	10,118.0	-8,907.4	29.2	8,907.5	0.00	0.00	0.00	
19,900.0	90.00	179.63	10,118.0	-9,007.4	29.8	9,007.5	0.00	0.00	0.00	
20,000.0	90.00	179.63	10,118.0	-9,107.4	30.5	9,107.5	0.00	0.00	0.00	
20,100.0	90.00	179.63	10,118.0	-9,207.4	31.1	9,207.5	0.00	0.00	0.00	
20,200.0	90.00	179.63	10,118.0	-9,307.4	31.7	9,307.5	0.00	0.00	0.00	
20,300.0	90.00	179.63	10,118.0	-9,407.4	32.4	9,407.5	0.00	0.00	0.00	
20,304.0	90.00	179.63	10,118.0	-9,411.5	32.4	9,411.5	0.00	0.00	0.00	

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
LTP/BHL - HAGBERRY ! - plan hits target center - Circle (radius 50.0)	0.00	0.00	10,118.0	-9,411.5	32.4	11,759,315.01	2,141,719.22	32° 23' 5.180 N		103° 22' 32.180 W
FTP - HAGBERRY 9 ST. - plan misses target center by 237.6usft at 10073.5usft MD (9955.0 TVD, 774.1 N, -135.4 E) - Circle (radius 50.0)	0.00	0.00	10,118.0	946.8	-142.1	11,769,673.30	2,141,544.68	32° 24' 47.700 N		103° 22' 32.380 W

Checked By: _____ Approved By: _____ Date: _____

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