

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 275468

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
4. Property Code 326728		3. API Number 30-025-46612
5. Property Name JAMALBERRY 16 STATE		6. Well No. 201H

7. Surface Location

UL - Lot N	Section 16	Township 21S	Range 34E	Lot Idn N	Feet From 236	N/S Line S	Feet From 2300	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot C	Section 16	Township 21S	Range 34E	Lot Idn C	Feet From 100	N/S Line N	Feet From 2310	E/W Line W	County Lea
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9. Pool Information

BERRY;BONE SPRING, SOUTH	96660
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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 3723
16. Multiple N	17. Proposed Depth 13720	18. Formation 1st Bone Spring Sand	19. Contractor	20. Spud Date 3/26/2020
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	1800	1533	0
Int1	12.25	9.625	40	5700	1415	0
Prod	8.5	5.5	20	13720	983	8630
Prod	8.75	5.5	20	9530	935	0

Casing/Cement Program: Additional Comments

Drill 8.75 hole size for the curve and 8.5 hole size for the lateral for the 5.5 casing string.

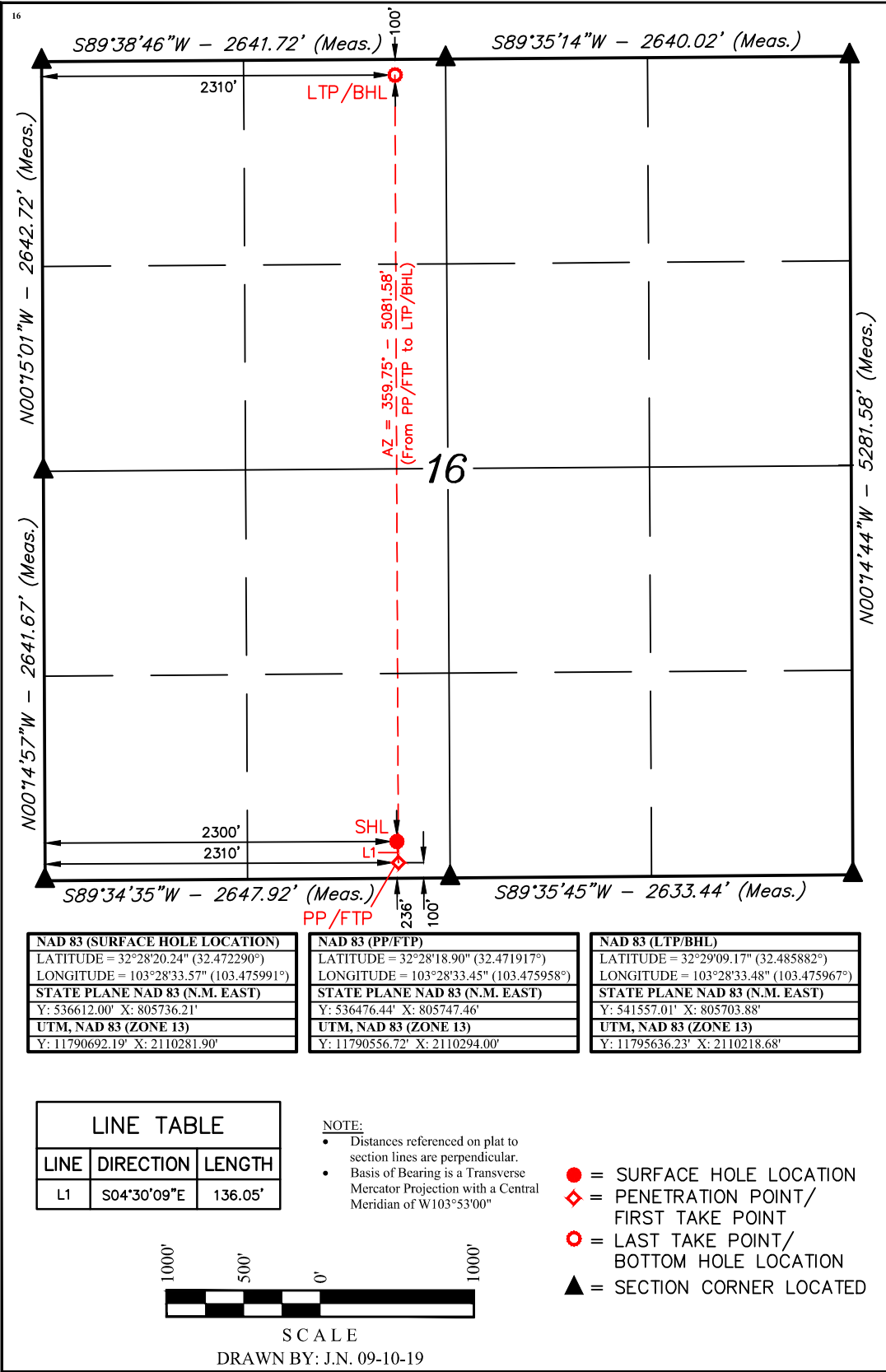
22. Proposed Blowout Prevention Program

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: Senior Regulatory Analyst	Title: Geologist	
Email Address: Sarah.Ferreyros@cdevinc.com	Approved Date: 12/19/2019	Expiration Date: 12/19/2021
Date: 12/10/2019	Phone: 720-499-1454	Conditions of Approval Attached

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

☐ AMENDED REPORT



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GAS CAPTURE PLAN

Date: 12/19/2019

☒ 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
JAMALBERRY 16 STATE #201H	30-025-46612	N-16-21S-34E	0236S 2300W	1897	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 Low Pressure gathering system located in Lea County, New Mexico. It will require 30' of pipeline to connect the facility to 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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Santa Fe, NM 87505

Form APD Comments

Permit 275468

PERMIT COMMENTS

Operator Name and Address: CENTENNIAL RESOURCE PRODUCTION, LLC [372165] 1001 17th Street, Suite 1800 Denver, CO 80202		API Number: 30-025-46612
		Well: JAMALBERRY 16 STATE #201H
Created By	Comment	Comment Date
kcastillo	Spudder rig will preset surface casing.	12/5/2019

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Form APD Conditions

Permit 275468

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: CENTENNIAL RESOURCE PRODUCTION, LLC [372165] 1001 17th Street, Suite 1800 Denver, CO 80202	API Number: 30-025-46612
	Well: JAMALBERRY 16 STATE #201H

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 NMOC 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.

Intent ☐ As Drilled ☐API #

Operator Name:	Property Name:	Well Number
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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
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KZ 06/29/2018

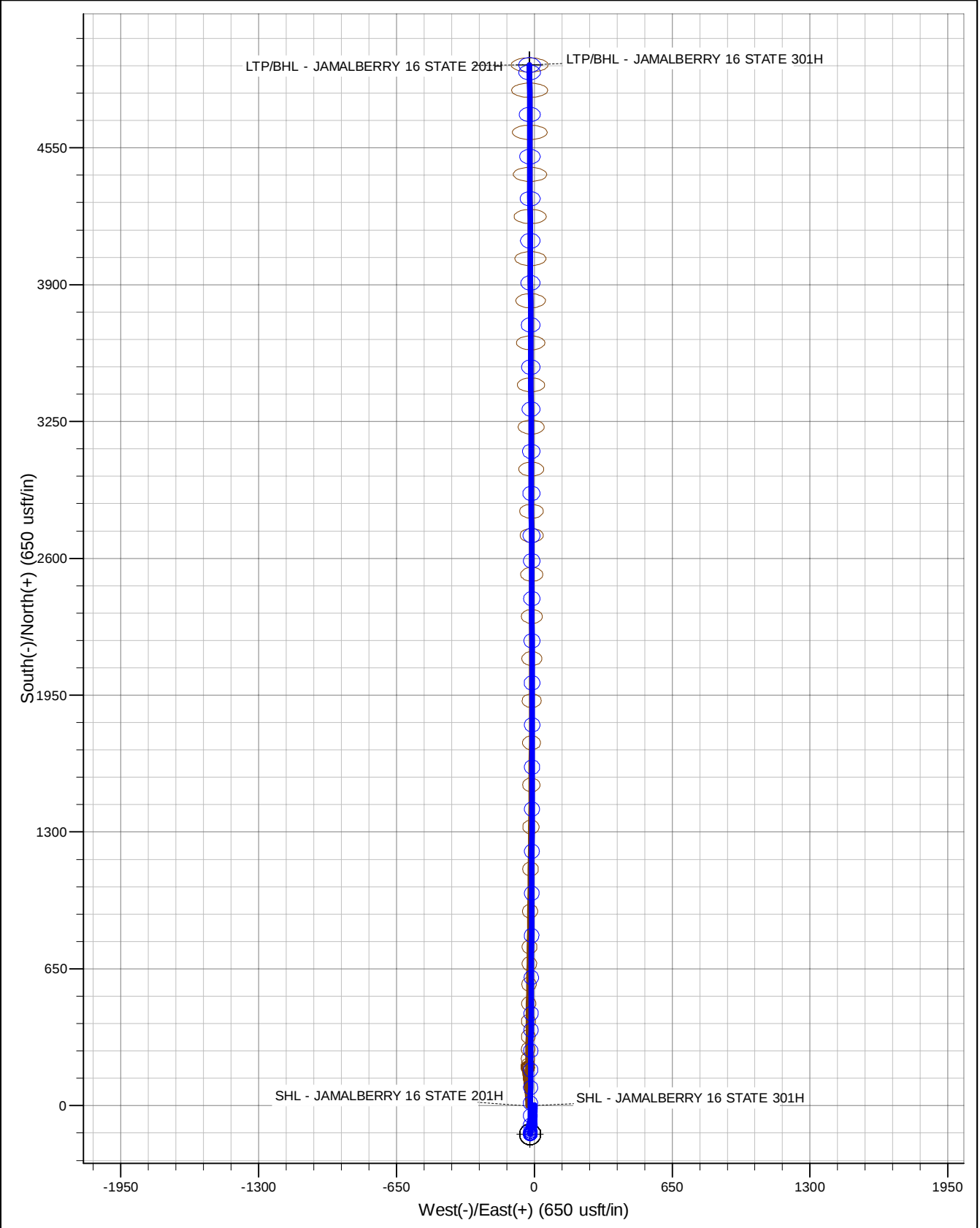
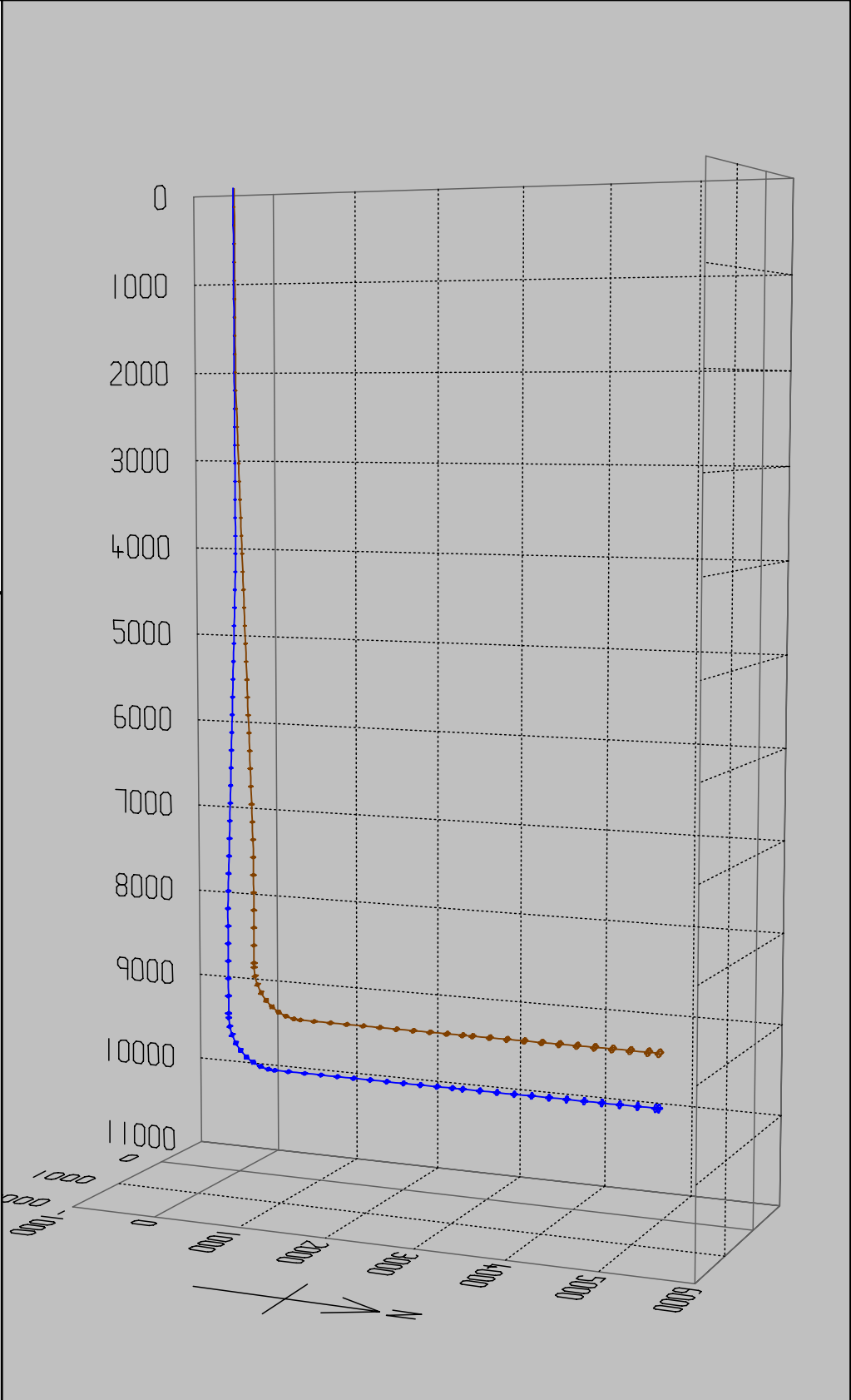
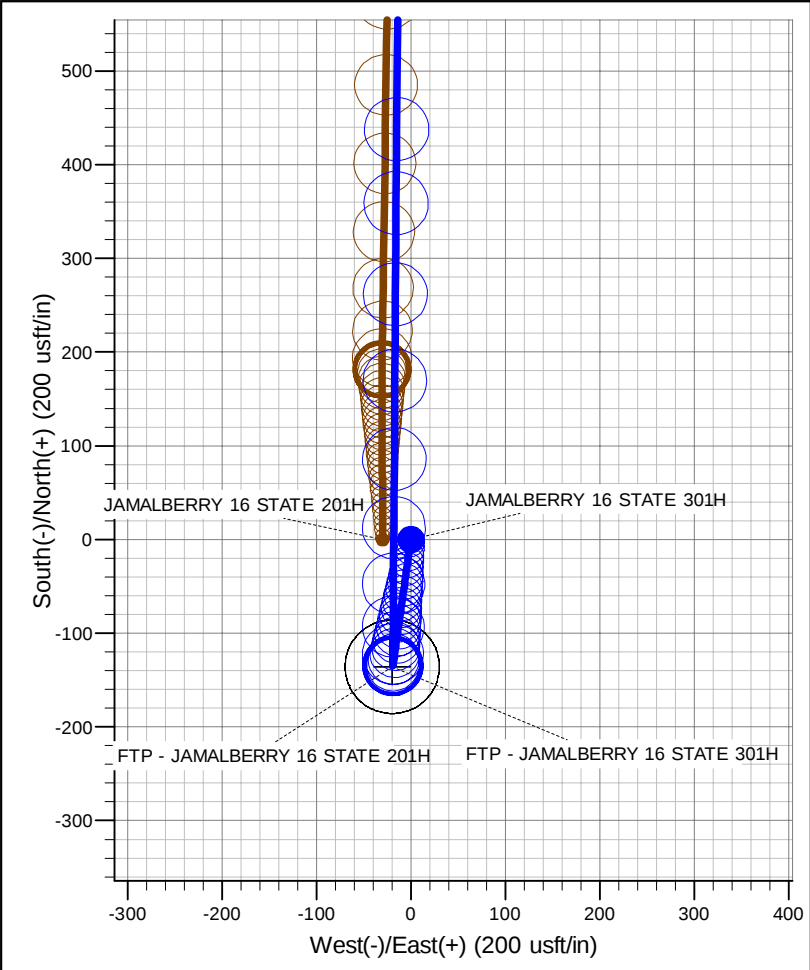
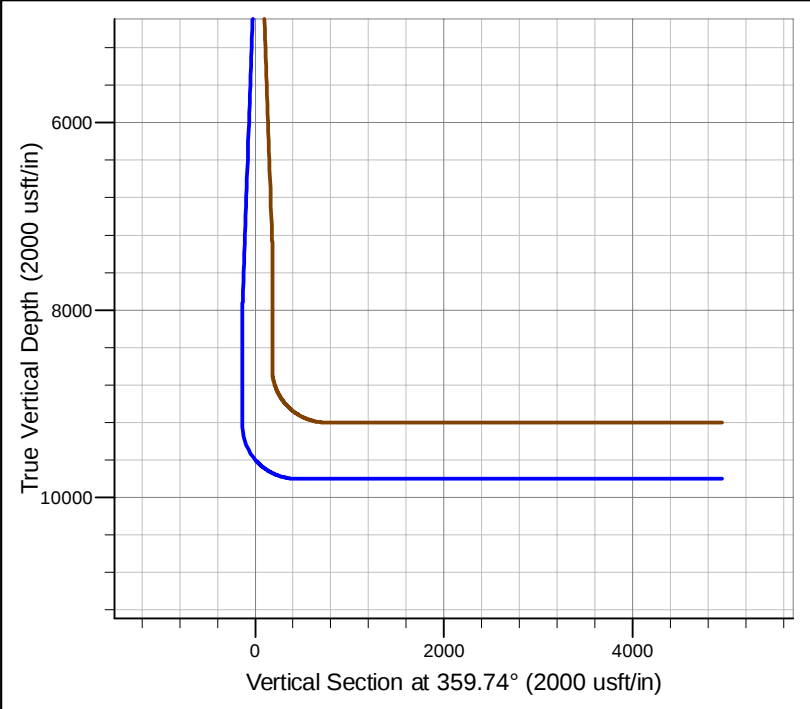


JAMALBERRY DEVELOPMENT
Site: JAMALBERRY
Wells: JAMALBERRY 16 STATE 301H_201H
Design: APD PLAN

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	

Azimuths to True North
Magnetic North: 7.72°

Magnetic Field
Strength: 48951.2nT
Dip Angle: 60.49°
Date: 11/6/2018
Model: IGRF200510



NEW MEXICO

LEA

JAMALBERRY

JAMALBERRY 16 STATE 201H

JAMALBERRY 16 STATE 201H

Plan: PWP0

Survey Report - Geographic

03 December, 2019

Centennial Resource Dev

Survey Report - Geographic

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well JAMALBERRY 16 STATE 201H
Project:	LEA	TVD Reference:	RKB=3722.9+25 @ 3747.9usft
Site:	JAMALBERRY	MD Reference:	RKB=3722.9+25 @ 3747.9usft
Well:	JAMALBERRY 16 STATE 201H	North Reference:	True
Wellbore:	JAMALBERRY 16 STATE 201H	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		JAMALBERRY			
Site Position:		Northing:		0.00 usft	
From: Map		Easting:		0.00 usft	
Position Uncertainty:		0.0 usft		Latitude: 0° 0' 0.000 N	
		Slot Radius:		Longitude: 109° 29' 19.478 W	
		13-3/16 "		Grid Convergence: 0.00 °	

Well	JAMALBERRY 16 STATE 201H					
Well Position	+N/-S	0.0 usft	Northing:	11,790,692.19 usft	Latitude:	32° 28' 20.243 N
	+E/-W	0.0 usft	Easting:	2,110,281.90 usft	Longitude:	103° 28' 33.568 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,722.9 usft

Wellbore		JAMALBERRY 16 STATE 201H			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.72	60.49	48,951.14853712

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	0.09	

Survey Tool Program		Date	12/3/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	13,720.2	PWP0 (JAMALBERRY 16 STATE 201H)	MWD	OWSG_Rev2_ MWD - Standard	

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	11,790,692.19	2,110,281.90	32° 28' 20.243 N	103° 28' 33.568 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	11,790,692.19	2,110,281.90	32° 28' 20.243 N	103° 28' 33.568 W
2,200.0	2.00	359.75	2,200.0	3.5	0.0	11,790,695.68	2,110,281.83	32° 28' 20.278 N	103° 28' 33.569 W
7,200.0	2.00	359.75	7,196.9	178.0	-0.8	11,790,870.15	2,110,278.58	32° 28' 22.005 N	103° 28' 33.577 W
7,400.0	0.00	0.00	7,396.9	181.5	-0.8	11,790,873.64	2,110,278.51	32° 28' 22.039 N	103° 28' 33.578 W
8,630.0	0.00	0.00	8,626.9	181.5	-0.8	11,790,873.64	2,110,278.51	32° 28' 22.039 N	103° 28' 33.578 W
9,530.3	90.00	0.82	9,200.0	754.5	7.4	11,791,446.77	2,110,278.53	32° 28' 27.710 N	103° 28' 33.482 W
11,485.3	90.00	359.75	9,200.0	2,709.6	17.1	11,793,401.74	2,110,260.33	32° 28' 47.058 N	103° 28' 33.368 W
13,720.2	90.00	359.75	9,200.0	4,944.4	7.4	11,795,636.23	2,110,218.68	32° 29' 9.174 N	103° 28' 33.482 W

Centennial Resource Dev

Survey Report - Geographic

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well JAMALBERRY 16 STATE 201H
Project:	LEA	TVD Reference:	RKB=3722.9+25 @ 3747.9usft
Site:	JAMALBERRY	MD Reference:	RKB=3722.9+25 @ 3747.9usft
Well:	JAMALBERRY 16 STATE 201H	North Reference:	True
Wellbore:	JAMALBERRY 16 STATE 201H	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		JAMALBERRY			
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		JAMALBERRY 16 STATE 201H				
Well Position	+N/-S	0.0 usft	Northing:	11,790,692.19 usft	Latitude:	32° 28' 20.243 N
	+E/-W	0.0 usft	Easting:	2,110,281.90 usft	Longitude:	103° 28' 33.568 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,722.9 usft

Wellbore	JAMALBERRY 16 STATE 201H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.72	60.49	48,951.14853712

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	0.09	

Survey Tool Program		Date	12/3/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	13,720.2	PWP0 (JAMALBERRY 16 STATE 201H)	MWD	OWSG_Rev2_ MWD - Standard	

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	11,790,692.19	2,110,281.90	32° 28' 20.243 N	103° 28' 33.568 W
100.0	0.00	0.00	100.0	0.0	0.0	11,790,692.19	2,110,281.90	32° 28' 20.243 N	103° 28' 33.568 W
200.0	0.00	0.00	200.0	0.0	0.0	11,790,692.19	2,110,281.90	32° 28' 20.243 N	103° 28' 33.568 W
300.0	0.00	0.00	300.0	0.0	0.0	11,790,692.19	2,110,281.90	32° 28' 20.243 N	103° 28' 33.568 W
400.0	0.00	0.00	400.0	0.0	0.0	11,790,692.19	2,110,281.90	32° 28' 20.243 N	103° 28' 33.568 W
500.0	0.00	0.00	500.0	0.0	0.0	11,790,692.19	2,110,281.90	32° 28' 20.243 N	103° 28' 33.568 W
600.0	0.00	0.00	600.0	0.0	0.0	11,790,692.19	2,110,281.90	32° 28' 20.243 N	103° 28' 33.568 W
700.0	0.00	0.00	700.0	0.0	0.0	11,790,692.19	2,110,281.90	32° 28' 20.243 N	103° 28' 33.568 W
800.0	0.00	0.00	800.0	0.0	0.0	11,790,692.19	2,110,281.90	32° 28' 20.243 N	103° 28' 33.568 W
900.0	0.00	0.00	900.0	0.0	0.0	11,790,692.19	2,110,281.90	32° 28' 20.243 N	103° 28' 33.568 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	11,790,692.19	2,110,281.90	32° 28' 20.243 N	103° 28' 33.568 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	11,790,692.19	2,110,281.90	32° 28' 20.243 N	103° 28' 33.568 W

Centennial Resource Dev

Survey Report - Geographic

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well JAMALBERRY 16 STATE 201H
Project:	LEA	TVD Reference:	RKB=3722.9+25 @ 3747.9usft
Site:	JAMALBERRY	MD Reference:	RKB=3722.9+25 @ 3747.9usft
Well:	JAMALBERRY 16 STATE 201H	North Reference:	True
Wellbore:	JAMALBERRY 16 STATE 201H	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,200.0	0.00	0.00	1,200.0	0.0	0.0	11,790,692.19	2,110,281.90	32° 28' 20.243 N	103° 28' 33.568 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	11,790,692.19	2,110,281.90	32° 28' 20.243 N	103° 28' 33.568 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	11,790,692.19	2,110,281.90	32° 28' 20.243 N	103° 28' 33.568 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	11,790,692.19	2,110,281.90	32° 28' 20.243 N	103° 28' 33.568 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	11,790,692.19	2,110,281.90	32° 28' 20.243 N	103° 28' 33.568 W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	11,790,692.19	2,110,281.90	32° 28' 20.243 N	103° 28' 33.568 W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	11,790,692.19	2,110,281.90	32° 28' 20.243 N	103° 28' 33.568 W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	11,790,692.19	2,110,281.90	32° 28' 20.243 N	103° 28' 33.568 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	11,790,692.19	2,110,281.90	32° 28' 20.243 N	103° 28' 33.568 W
2,100.0	1.00	359.75	2,100.0	0.9	0.0	11,790,693.07	2,110,281.88	32° 28' 20.252 N	103° 28' 33.568 W
2,200.0	2.00	359.75	2,200.0	3.5	0.0	11,790,695.68	2,110,281.83	32° 28' 20.278 N	103° 28' 33.569 W
2,300.0	2.00	359.75	2,299.9	7.0	0.0	11,790,699.17	2,110,281.77	32° 28' 20.312 N	103° 28' 33.569 W
2,400.0	2.00	359.75	2,399.8	10.5	0.0	11,790,702.66	2,110,281.70	32° 28' 20.347 N	103° 28' 33.569 W
2,500.0	2.00	359.75	2,499.8	14.0	-0.1	11,790,706.15	2,110,281.64	32° 28' 20.381 N	103° 28' 33.569 W
2,600.0	2.00	359.75	2,599.7	17.4	-0.1	11,790,709.64	2,110,281.57	32° 28' 20.416 N	103° 28' 33.569 W
2,700.0	2.00	359.75	2,699.7	20.9	-0.1	11,790,713.13	2,110,281.51	32° 28' 20.450 N	103° 28' 33.569 W
2,800.0	2.00	359.75	2,799.6	24.4	-0.1	11,790,716.62	2,110,281.44	32° 28' 20.485 N	103° 28' 33.570 W
2,900.0	2.00	359.75	2,899.5	27.9	-0.1	11,790,720.11	2,110,281.38	32° 28' 20.520 N	103° 28' 33.570 W
3,000.0	2.00	359.75	2,999.5	31.4	-0.1	11,790,723.60	2,110,281.31	32° 28' 20.554 N	103° 28' 33.570 W
3,100.0	2.00	359.75	3,099.4	34.9	-0.2	11,790,727.09	2,110,281.25	32° 28' 20.589 N	103° 28' 33.570 W
3,200.0	2.00	359.75	3,199.4	38.4	-0.2	11,790,730.58	2,110,281.18	32° 28' 20.623 N	103° 28' 33.570 W
3,300.0	2.00	359.75	3,299.3	41.9	-0.2	11,790,734.07	2,110,281.12	32° 28' 20.658 N	103° 28' 33.571 W
3,400.0	2.00	359.75	3,399.2	45.4	-0.2	11,790,737.56	2,110,281.05	32° 28' 20.692 N	103° 28' 33.571 W
3,500.0	2.00	359.75	3,499.2	48.9	-0.2	11,790,741.04	2,110,280.99	32° 28' 20.727 N	103° 28' 33.571 W
3,600.0	2.00	359.75	3,599.1	52.3	-0.2	11,790,744.53	2,110,280.92	32° 28' 20.761 N	103° 28' 33.571 W
3,700.0	2.00	359.75	3,699.0	55.8	-0.2	11,790,748.02	2,110,280.86	32° 28' 20.796 N	103° 28' 33.571 W
3,800.0	2.00	359.75	3,799.0	59.3	-0.3	11,790,751.51	2,110,280.79	32° 28' 20.830 N	103° 28' 33.571 W
3,900.0	2.00	359.75	3,898.9	62.8	-0.3	11,790,755.00	2,110,280.73	32° 28' 20.865 N	103° 28' 33.572 W
4,000.0	2.00	359.75	3,998.9	66.3	-0.3	11,790,758.49	2,110,280.66	32° 28' 20.899 N	103° 28' 33.572 W
4,100.0	2.00	359.75	4,098.8	69.8	-0.3	11,790,761.98	2,110,280.60	32° 28' 20.934 N	103° 28' 33.572 W
4,200.0	2.00	359.75	4,198.7	73.3	-0.3	11,790,765.47	2,110,280.53	32° 28' 20.968 N	103° 28' 33.572 W
4,300.0	2.00	359.75	4,298.7	76.8	-0.3	11,790,768.96	2,110,280.47	32° 28' 21.003 N	103° 28' 33.572 W
4,400.0	2.00	359.75	4,398.6	80.3	-0.4	11,790,772.45	2,110,280.40	32° 28' 21.038 N	103° 28' 33.573 W
4,500.0	2.00	359.75	4,498.6	83.8	-0.4	11,790,775.94	2,110,280.34	32° 28' 21.072 N	103° 28' 33.573 W
4,600.0	2.00	359.75	4,598.5	87.2	-0.4	11,790,779.43	2,110,280.27	32° 28' 21.107 N	103° 28' 33.573 W
4,700.0	2.00	359.75	4,698.4	90.7	-0.4	11,790,782.92	2,110,280.21	32° 28' 21.141 N	103° 28' 33.573 W
4,800.0	2.00	359.75	4,798.4	94.2	-0.4	11,790,786.41	2,110,280.14	32° 28' 21.176 N	103° 28' 33.573 W
4,900.0	2.00	359.75	4,898.3	97.7	-0.4	11,790,789.90	2,110,280.08	32° 28' 21.210 N	103° 28' 33.573 W
5,000.0	2.00	359.75	4,998.3	101.2	-0.4	11,790,793.38	2,110,280.01	32° 28' 21.245 N	103° 28' 33.574 W
5,100.0	2.00	359.75	5,098.2	104.7	-0.5	11,790,796.87	2,110,279.94	32° 28' 21.279 N	103° 28' 33.574 W
5,200.0	2.00	359.75	5,198.1	108.2	-0.5	11,790,800.36	2,110,279.88	32° 28' 21.314 N	103° 28' 33.574 W
5,300.0	2.00	359.75	5,298.1	111.7	-0.5	11,790,803.85	2,110,279.81	32° 28' 21.348 N	103° 28' 33.574 W
5,400.0	2.00	359.75	5,398.0	115.2	-0.5	11,790,807.34	2,110,279.75	32° 28' 21.383 N	103° 28' 33.574 W
5,500.0	2.00	359.75	5,497.9	118.7	-0.5	11,790,810.83	2,110,279.68	32° 28' 21.417 N	103° 28' 33.574 W
5,600.0	2.00	359.75	5,597.9	122.1	-0.5	11,790,814.32	2,110,279.62	32° 28' 21.452 N	103° 28' 33.575 W
5,700.0	2.00	359.75	5,697.8	125.6	-0.5	11,790,817.81	2,110,279.55	32° 28' 21.487 N	103° 28' 33.575 W
5,800.0	2.00	359.75	5,797.8	129.1	-0.6	11,790,821.30	2,110,279.49	32° 28' 21.521 N	103° 28' 33.575 W
5,900.0	2.00	359.75	5,897.7	132.6	-0.6	11,790,824.79	2,110,279.42	32° 28' 21.556 N	103° 28' 33.575 W
6,000.0	2.00	359.75	5,997.6	136.1	-0.6	11,790,828.28	2,110,279.36	32° 28' 21.590 N	103° 28' 33.575 W
6,100.0	2.00	359.75	6,097.6	139.6	-0.6	11,790,831.77	2,110,279.29	32° 28' 21.625 N	103° 28' 33.576 W
6,200.0	2.00	359.75	6,197.5	143.1	-0.6	11,790,835.26	2,110,279.23	32° 28' 21.659 N	103° 28' 33.576 W
6,300.0	2.00	359.75	6,297.5	146.6	-0.6	11,790,838.75	2,110,279.16	32° 28' 21.694 N	103° 28' 33.576 W
6,400.0	2.00	359.75	6,397.4	150.1	-0.7	11,790,842.24	2,110,279.10	32° 28' 21.728 N	103° 28' 33.576 W
6,500.0	2.00	359.75	6,497.3	153.6	-0.7	11,790,845.72	2,110,279.03	32° 28' 21.763 N	103° 28' 33.576 W
6,600.0	2.00	359.75	6,597.3	157.0	-0.7	11,790,849.21	2,110,278.97	32° 28' 21.797 N	103° 28' 33.576 W

Centennial Resource Dev

Survey Report - Geographic

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well JAMALBERRY 16 STATE 201H
Project:	LEA	TVD Reference:	RKB=3722.9+25 @ 3747.9usft
Site:	JAMALBERRY	MD Reference:	RKB=3722.9+25 @ 3747.9usft
Well:	JAMALBERRY 16 STATE 201H	North Reference:	True
Wellbore:	JAMALBERRY 16 STATE 201H	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,700.0	2.00	359.75	6,697.2	160.5	-0.7	11,790,852.70	2,110,278.90	32° 28' 21.832 N	103° 28' 33.577 W
6,800.0	2.00	359.75	6,797.2	164.0	-0.7	11,790,856.19	2,110,278.84	32° 28' 21.866 N	103° 28' 33.577 W
6,900.0	2.00	359.75	6,897.1	167.5	-0.7	11,790,859.68	2,110,278.77	32° 28' 21.901 N	103° 28' 33.577 W
7,000.0	2.00	359.75	6,997.0	171.0	-0.7	11,790,863.17	2,110,278.71	32° 28' 21.936 N	103° 28' 33.577 W
7,100.0	2.00	359.75	7,097.0	174.5	-0.8	11,790,866.66	2,110,278.64	32° 28' 21.970 N	103° 28' 33.577 W
7,200.0	2.00	359.75	7,196.9	178.0	-0.8	11,790,870.15	2,110,278.58	32° 28' 22.005 N	103° 28' 33.577 W
7,300.0	1.00	359.75	7,296.9	180.6	-0.8	11,790,872.77	2,110,278.53	32° 28' 22.031 N	103° 28' 33.578 W
7,400.0	0.00	0.00	7,396.9	181.5	-0.8	11,790,873.64	2,110,278.51	32° 28' 22.039 N	103° 28' 33.578 W
7,500.0	0.00	0.00	7,496.9	181.5	-0.8	11,790,873.64	2,110,278.51	32° 28' 22.039 N	103° 28' 33.578 W
7,600.0	0.00	0.00	7,596.9	181.5	-0.8	11,790,873.64	2,110,278.51	32° 28' 22.039 N	103° 28' 33.578 W
7,700.0	0.00	0.00	7,696.9	181.5	-0.8	11,790,873.64	2,110,278.51	32° 28' 22.039 N	103° 28' 33.578 W
7,800.0	0.00	0.00	7,796.9	181.5	-0.8	11,790,873.64	2,110,278.51	32° 28' 22.039 N	103° 28' 33.578 W
7,900.0	0.00	0.00	7,896.9	181.5	-0.8	11,790,873.64	2,110,278.51	32° 28' 22.039 N	103° 28' 33.578 W
8,000.0	0.00	0.00	7,996.9	181.5	-0.8	11,790,873.64	2,110,278.51	32° 28' 22.039 N	103° 28' 33.578 W
8,100.0	0.00	0.00	8,096.9	181.5	-0.8	11,790,873.64	2,110,278.51	32° 28' 22.039 N	103° 28' 33.578 W
8,200.0	0.00	0.00	8,196.9	181.5	-0.8	11,790,873.64	2,110,278.51	32° 28' 22.039 N	103° 28' 33.578 W
8,300.0	0.00	0.00	8,296.9	181.5	-0.8	11,790,873.64	2,110,278.51	32° 28' 22.039 N	103° 28' 33.578 W
8,400.0	0.00	0.00	8,396.9	181.5	-0.8	11,790,873.64	2,110,278.51	32° 28' 22.039 N	103° 28' 33.578 W
8,500.0	0.00	0.00	8,496.9	181.5	-0.8	11,790,873.64	2,110,278.51	32° 28' 22.039 N	103° 28' 33.578 W
8,600.0	0.00	0.00	8,596.9	181.5	-0.8	11,790,873.64	2,110,278.51	32° 28' 22.039 N	103° 28' 33.578 W
8,630.0	0.00	0.00	8,626.9	181.5	-0.8	11,790,873.64	2,110,278.51	32° 28' 22.039 N	103° 28' 33.578 W
8,700.0	7.00	0.82	8,696.7	185.7	-0.7	11,790,877.91	2,110,278.51	32° 28' 22.081 N	103° 28' 33.577 W
8,800.0	16.99	0.82	8,794.4	206.5	-0.4	11,790,898.67	2,110,278.51	32° 28' 22.287 N	103° 28' 33.573 W
8,900.0	26.99	0.82	8,887.0	243.9	0.1	11,790,936.07	2,110,278.51	32° 28' 22.657 N	103° 28' 33.567 W
9,000.0	36.99	0.82	8,971.7	296.8	0.9	11,790,988.98	2,110,278.52	32° 28' 23.180 N	103° 28' 33.558 W
9,100.0	46.99	0.82	9,045.9	363.6	1.8	11,791,055.79	2,110,278.52	32° 28' 23.842 N	103° 28' 33.547 W
9,200.0	56.98	0.82	9,107.4	442.3	2.9	11,791,134.48	2,110,278.52	32° 28' 24.620 N	103° 28' 33.534 W
9,300.0	66.98	0.82	9,154.4	530.4	4.2	11,791,222.65	2,110,278.52	32° 28' 25.493 N	103° 28' 33.519 W
9,400.0	76.98	0.82	9,185.3	625.4	5.6	11,791,317.62	2,110,278.53	32° 28' 26.432 N	103° 28' 33.504 W
9,500.0	86.97	0.82	9,199.2	724.3	7.0	11,791,416.52	2,110,278.53	32° 28' 27.411 N	103° 28' 33.487 W
9,530.3	90.00	0.82	9,200.0	754.5	7.4	11,791,446.77	2,110,278.53	32° 28' 27.710 N	103° 28' 33.482 W
9,600.0	90.00	0.78	9,200.0	824.3	8.4	11,791,516.50	2,110,278.51	32° 28' 28.400 N	103° 28' 33.471 W
9,700.0	90.00	0.73	9,200.0	924.3	9.7	11,791,616.50	2,110,278.40	32° 28' 29.390 N	103° 28' 33.455 W
9,800.0	90.00	0.67	9,200.0	1,024.3	10.9	11,791,716.50	2,110,278.19	32° 28' 30.379 N	103° 28' 33.441 W
9,900.0	90.00	0.62	9,200.0	1,124.2	12.0	11,791,816.50	2,110,277.89	32° 28' 31.369 N	103° 28' 33.428 W
10,000.0	90.00	0.56	9,200.0	1,224.2	13.1	11,791,916.50	2,110,277.49	32° 28' 32.359 N	103° 28' 33.416 W
10,100.0	90.00	0.51	9,200.0	1,324.2	14.0	11,792,016.50	2,110,276.99	32° 28' 33.348 N	103° 28' 33.405 W
10,200.0	90.00	0.45	9,200.0	1,424.2	14.9	11,792,116.50	2,110,276.41	32° 28' 34.338 N	103° 28' 33.395 W
10,300.0	90.00	0.40	9,200.0	1,524.2	15.6	11,792,216.49	2,110,275.72	32° 28' 35.327 N	103° 28' 33.386 W
10,400.0	90.00	0.34	9,200.0	1,624.2	16.2	11,792,316.49	2,110,274.94	32° 28' 36.317 N	103° 28' 33.379 W
10,500.0	90.00	0.29	9,200.0	1,724.2	16.8	11,792,416.49	2,110,274.07	32° 28' 37.307 N	103° 28' 33.372 W
10,600.0	90.00	0.23	9,200.0	1,824.2	17.3	11,792,516.48	2,110,273.09	32° 28' 38.296 N	103° 28' 33.367 W
10,700.0	90.00	0.18	9,200.0	1,924.2	17.6	11,792,616.48	2,110,272.03	32° 28' 39.286 N	103° 28' 33.363 W
10,800.0	90.00	0.13	9,200.0	2,024.2	17.9	11,792,716.47	2,110,270.87	32° 28' 40.275 N	103° 28' 33.360 W
10,900.0	90.00	0.07	9,200.0	2,124.2	18.1	11,792,816.46	2,110,269.61	32° 28' 41.265 N	103° 28' 33.358 W
11,000.0	90.00	0.02	9,200.0	2,224.2	18.1	11,792,916.45	2,110,268.26	32° 28' 42.255 N	103° 28' 33.357 W
11,100.0	90.00	359.96	9,200.0	2,324.2	18.1	11,793,016.44	2,110,266.81	32° 28' 43.244 N	103° 28' 33.357 W
11,200.0	90.00	359.91	9,200.0	2,424.2	18.0	11,793,116.43	2,110,265.26	32° 28' 44.234 N	103° 28' 33.358 W
11,300.0	90.00	359.85	9,200.0	2,524.2	17.8	11,793,216.42	2,110,263.63	32° 28' 45.224 N	103° 28' 33.361 W
11,400.0	90.00	359.80	9,200.0	2,624.2	17.5	11,793,316.40	2,110,261.89	32° 28' 46.213 N	103° 28' 33.364 W
11,485.3	90.00	359.75	9,200.0	2,709.6	17.1	11,793,401.74	2,110,260.33	32° 28' 47.058 N	103° 28' 33.368 W
11,500.0	90.00	359.75	9,200.0	2,724.2	17.1	11,793,416.39	2,110,260.06	32° 28' 47.203 N	103° 28' 33.369 W
11,600.0	90.00	359.75	9,200.0	2,824.2	16.6	11,793,516.37	2,110,258.20	32° 28' 48.192 N	103° 28' 33.374 W
11,700.0	90.00	359.75	9,200.0	2,924.2	16.2	11,793,616.35	2,110,256.33	32° 28' 49.182 N	103° 28' 33.379 W
11,800.0	90.00	359.75	9,200.0	3,024.2	15.8	11,793,716.33	2,110,254.47	32° 28' 50.172 N	103° 28' 33.384 W

Centennial Resource Dev

Survey Report - Geographic

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well JAMALBERRY 16 STATE 201H
Project:	LEA	TVD Reference:	RKB=3722.9+25 @ 3747.9usft
Site:	JAMALBERRY	MD Reference:	RKB=3722.9+25 @ 3747.9usft
Well:	JAMALBERRY 16 STATE 201H	North Reference:	True
Wellbore:	JAMALBERRY 16 STATE 201H	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,900.0	90.00	359.75	9,200.0	3,124.2	15.3	11,793,816.32	2,110,252.61	32° 28' 51.161 N	103° 28' 33.389 W
12,000.0	90.00	359.75	9,200.0	3,224.2	14.9	11,793,916.30	2,110,250.74	32° 28' 52.151 N	103° 28' 33.394 W
12,100.0	90.00	359.75	9,200.0	3,324.2	14.5	11,794,016.28	2,110,248.88	32° 28' 53.140 N	103° 28' 33.400 W
12,200.0	90.00	359.75	9,200.0	3,424.2	14.0	11,794,116.26	2,110,247.01	32° 28' 54.130 N	103° 28' 33.405 W
12,300.0	90.00	359.75	9,200.0	3,524.2	13.6	11,794,216.25	2,110,245.15	32° 28' 55.120 N	103° 28' 33.410 W
12,400.0	90.00	359.75	9,200.0	3,624.2	13.2	11,794,316.23	2,110,243.29	32° 28' 56.109 N	103° 28' 33.415 W
12,500.0	90.00	359.75	9,200.0	3,724.2	12.7	11,794,416.21	2,110,241.42	32° 28' 57.099 N	103° 28' 33.420 W
12,600.0	90.00	359.75	9,200.0	3,824.2	12.3	11,794,516.19	2,110,239.56	32° 28' 58.089 N	103° 28' 33.425 W
12,700.0	90.00	359.75	9,200.0	3,924.2	11.9	11,794,616.18	2,110,237.69	32° 28' 59.078 N	103° 28' 33.430 W
12,800.0	90.00	359.75	9,200.0	4,024.2	11.4	11,794,716.16	2,110,235.83	32° 29' 0.068 N	103° 28' 33.435 W
12,900.0	90.00	359.75	9,200.0	4,124.2	11.0	11,794,816.14	2,110,233.97	32° 29' 1.057 N	103° 28' 33.440 W
13,000.0	90.00	359.75	9,200.0	4,224.2	10.5	11,794,916.13	2,110,232.10	32° 29' 2.047 N	103° 28' 33.445 W
13,100.0	90.00	359.75	9,200.0	4,324.2	10.1	11,795,016.11	2,110,230.24	32° 29' 3.037 N	103° 28' 33.450 W
13,200.0	90.00	359.75	9,200.0	4,424.2	9.7	11,795,116.09	2,110,228.37	32° 29' 4.026 N	103° 28' 33.455 W
13,300.0	90.00	359.75	9,200.0	4,524.2	9.2	11,795,216.07	2,110,226.51	32° 29' 5.016 N	103° 28' 33.461 W
13,400.0	90.00	359.75	9,200.0	4,624.2	8.8	11,795,316.06	2,110,224.65	32° 29' 6.005 N	103° 28' 33.466 W
13,500.0	90.00	359.75	9,200.0	4,724.2	8.4	11,795,416.04	2,110,222.78	32° 29' 6.995 N	103° 28' 33.471 W
13,600.0	90.00	359.75	9,200.0	4,824.2	7.9	11,795,516.02	2,110,220.92	32° 29' 7.985 N	103° 28' 33.476 W
13,700.0	90.00	359.75	9,200.0	4,924.2	7.5	11,795,616.00	2,110,219.05	32° 29' 8.974 N	103° 28' 33.481 W
13,720.2	90.00	359.75	9,200.0	4,944.4	7.4	11,795,636.23	2,110,218.68	32° 29' 9.174 N	103° 28' 33.482 W

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP/BHL - JAMALBERR - hit/miss target - Shape - Point	0.00	0.00	9,200.0	4,944.4	7.4	11,795,636.23	2,110,218.68	32° 29' 9.174 N	103° 28' 33.482 W
FTP - JAMALBERRY 16 - plan hits target center - plan misses target center by 485.8usft at 8964.6usft MD (8942.8 TVD, 276.4 N, 0.6 E) - Circle (radius 50.0)	0.00	0.00	9,200.0	-135.6	10.2	11,790,556.72	2,110,294.00	32° 28' 18.901 N	103° 28' 33.450 W

Checked By: _____ Approved By: _____ Date: _____

Centennial Resource Dev

Anticollision Summary Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well JAMALBERRY 16 STATE 201H
Project:	LEA	TVD Reference:	RKB=3722.9+25 @ 3747.9usft
Reference Site:	JAMALBERRY	MD Reference:	RKB=3722.9+25 @ 3747.9usft
Site Error:	0.0 usft	North Reference:	True
Reference Well:	JAMALBERRY 16 STATE 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	JAMALBERRY 16 STATE 201H	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference	PWP0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.0usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	12/3/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	13,720.2	PWP0 (JAMALBERRY 16 STATE 201H)	MWD	OWSG_Rev2_ MWD - Standard

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						
JAMALBERRY						
JAMALBERRY 16 STATE 301H - JAMALBERRY 16 STA	2,000.0	2,000.2	30.0	16.1	2.159 CC	
JAMALBERRY 16 STATE 301H - JAMALBERRY 16 STA	2,300.0	2,300.1	30.8	14.8	1.920 ES	
JAMALBERRY 16 STATE 301H - JAMALBERRY 16 STA	2,500.0	2,500.0	33.1	15.6	1.894 SF	

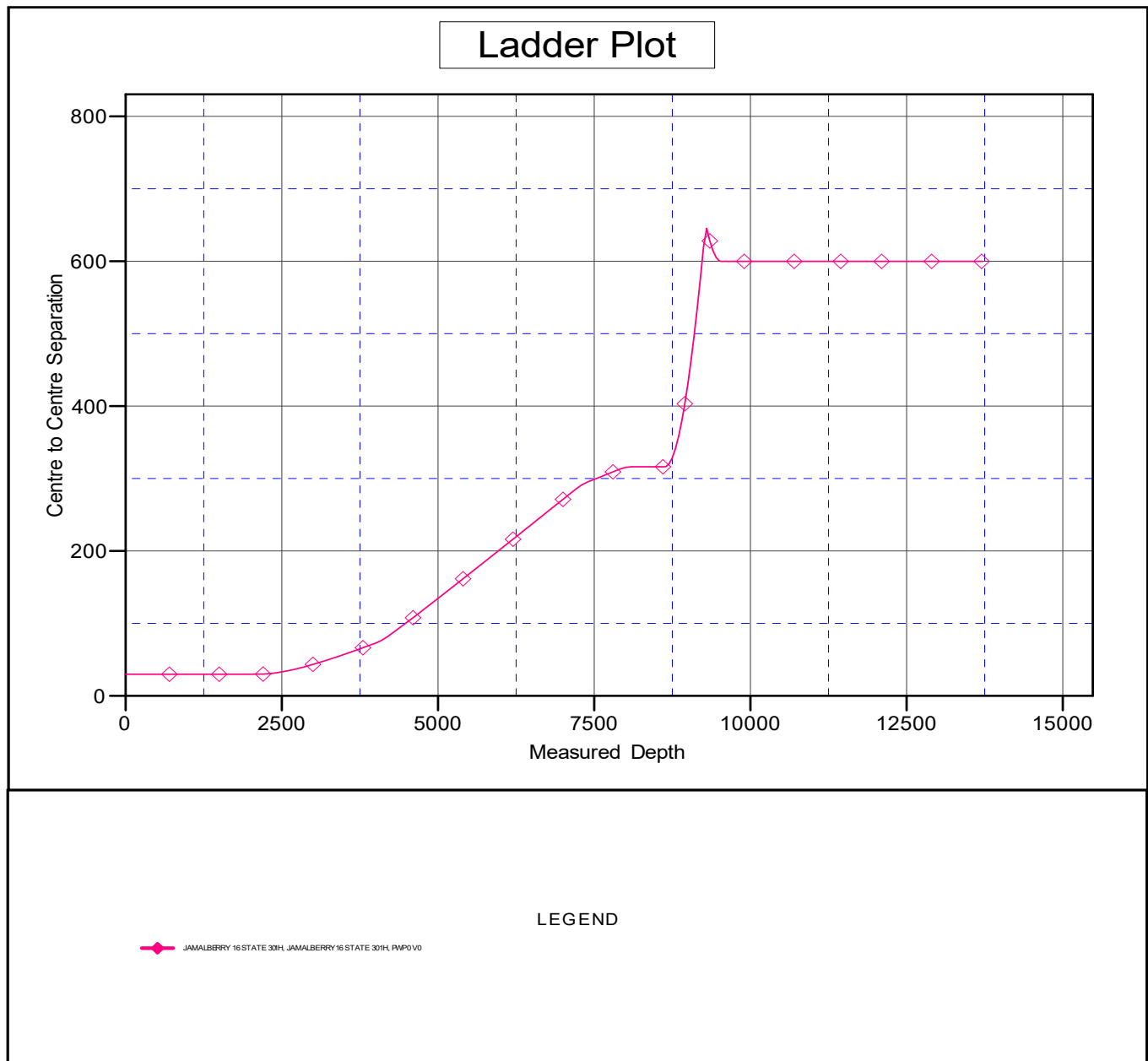
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Anticollision Summary Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well JAMALBERRY 16 STATE 201H
Project:	LEA	TVD Reference:	RKB=3722.9+25 @ 3747.9usft
Reference Site:	JAMALBERRY	MD Reference:	RKB=3722.9+25 @ 3747.9usft
Site Error:	0.0 usft	North Reference:	True
Reference Well:	JAMALBERRY 16 STATE 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	JAMALBERRY 16 STATE 201H	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=3722.9+25 @ 3747.9usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 105° 0' 0.000 W

Coordinates are relative to: JAMALBERRY 16 STATE 201H
 Coordinate System is Universal Transverse Mercator (US Survey Feet), Zone 13N
 Grid Convergence at Surface is: 0.82°



CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

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Anticollision Summary Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well JAMALBERRY 16 STATE 201H
Project:	LEA	TVD Reference:	RKB=3722.9+25 @ 3747.9usft
Reference Site:	JAMALBERRY	MD Reference:	RKB=3722.9+25 @ 3747.9usft
Site Error:	0.0 usft	North Reference:	True
Reference Well:	JAMALBERRY 16 STATE 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	JAMALBERRY 16 STATE 201H	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=3722.9+25 @ 3747.9usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 105° 0' 0.000 W

Coordinates are relative to: JAMALBERRY 16 STATE 201H
 Coordinate System is Universal Transverse Mercator (US Survey Feet), Zone 13N
 Grid Convergence at Surface is: 0.82°

