

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 275739

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 326729		3. API Number 30-025-46615
5. Property Name CHIMICHANGAS 12 STATE COM		6. Well No. 602H

7. Surface Location

UL - Lot A	Section 12	Township 22S	Range 34E	Lot Idn A	Feet From 630	N/S Line N	Feet From 1320	E/W Line E	County Lea
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8. Proposed Bottom Hole Location

UL - Lot P	Section 13	Township 22S	Range 34E	Lot Idn P	Feet From 100	N/S Line S	Feet From 1320	E/W Line E	County Lea
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9. Pool Information

OJO CHISO;BONE SPRING	96553
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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 3591
16. Multiple N	17. Proposed Depth 21286	18. Formation 3rd Bone Spring Sand	19. Contractor	20. Spud Date 3/1/2020
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	1800	1533	0
Int1	12.25	9.625	40	5500	1187	0
Prod	8.5	5.5	20	21286	2044	10599
Prod	8.75	5.5	20	11499	1187	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: Senior Regulatory Analyst	Title: Geologist
Email Address: Sarah.Ferreyros@cdevinc.com	Approved Date: 12/19/2019 Expiration Date: 12/19/2021
Date: 12/11/2019 Phone: 720-499-1454	Conditions of Approval Attached

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1220 S. St. Francis Dr., Santa Fe, NM 87505
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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	³ Pool Name
⁴ Property Code	⁵ Property Name CHIMICHANGAS 12 STATE COM	⁶ Well Number 602H
⁷ OGRID No.	⁸ Operator Name CENTENNIAL RESOURCE PRODUCTION, LLC	⁹ Elevation 3591.2'

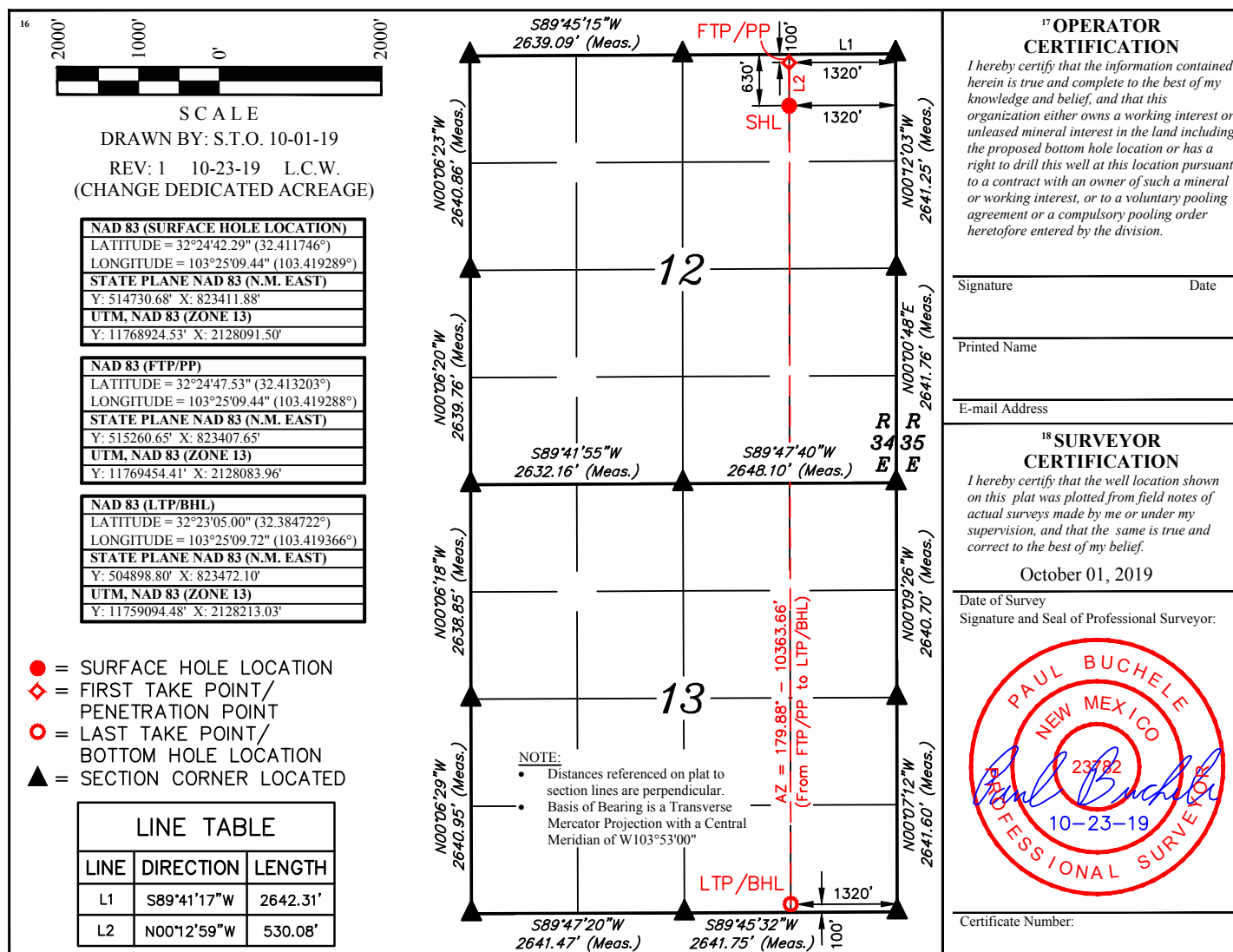
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	12	22S	34E		630	NORTH	1320	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	13	22S	34E		100	SOUTH	1320	EAST	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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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

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
CHIMICHANGAS 12 STATE COM #602H	30-025-46615	A-12-22S-34E	0630N 1320E	2500	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 Pressure gathering system located in Lea County, New Mexico. It will require 15' 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 275739

PERMIT COMMENTS

Operator Name and Address: CENTENNIAL RESOURCE PRODUCTION, LLC [372165] 1001 17th Street, Suite 1800 Denver, CO 80202		API Number: 30-025-46615
		Well: CHIMICHANGAS 12 STATE COM #602H

Created By	Comment	Comment Date
sferreyros	Spudder rig will preset surface casing.	12/11/2019

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Form APD Conditions

Permit 275739

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: CENTENNIAL RESOURCE PRODUCTION, LLC [372165] 1001 17th Street, Suite 1800 Denver, CO 80202	API Number: 30-025-46615
	Well: CHIMICHANGAS 12 STATE COM #602H

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 #

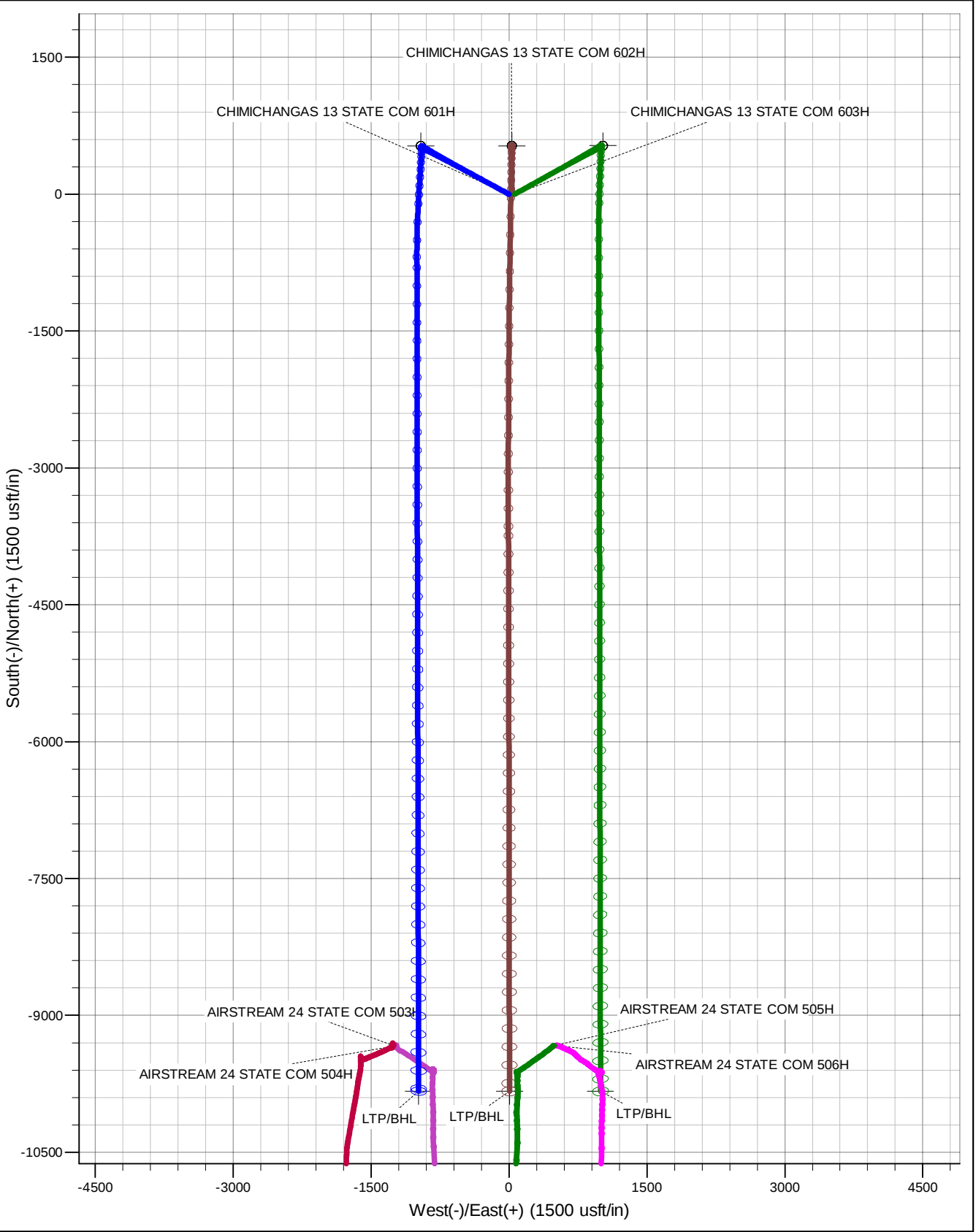
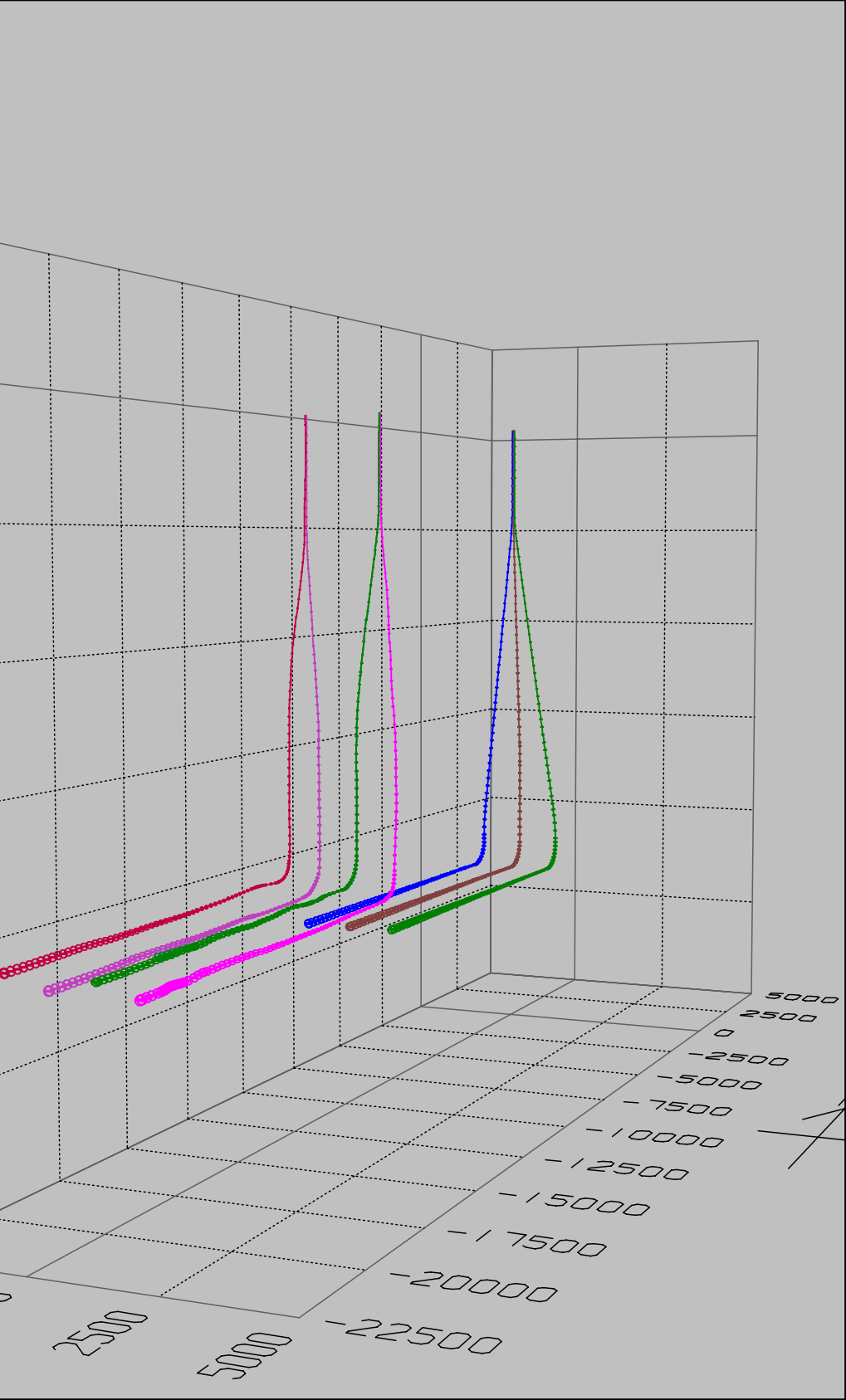
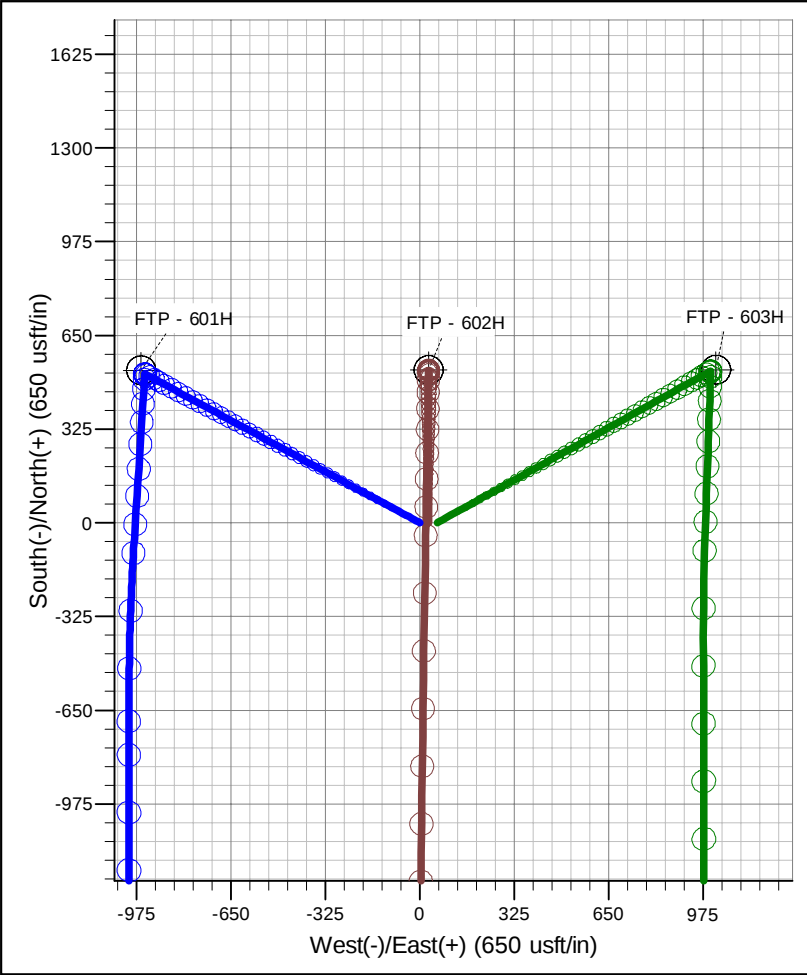
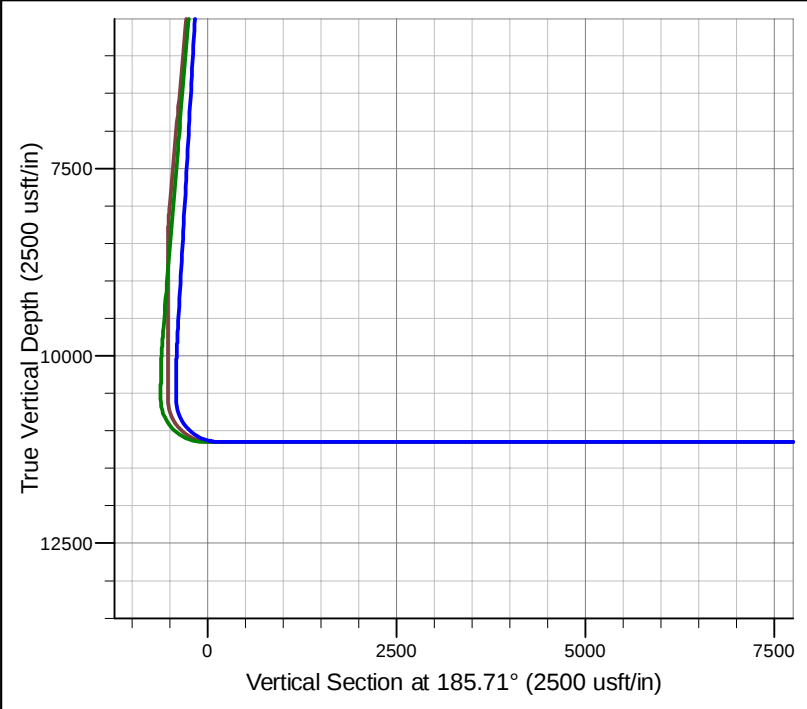
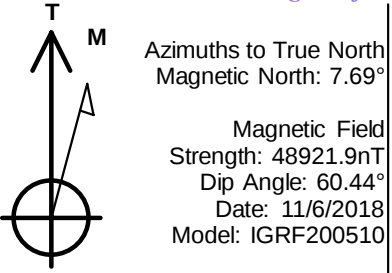
Operator Name:	Property Name:	Well Number
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KZ 06/29/2018



CHIMICHANGAS DEVELOPMENT
Site: CHIMICHANGAS 3WP
Wells: CHIMICHANGAS 13 STATE COM 601H_602H_603H
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



NEW MEXICO

LEA

CHIMICHANGAS

CHIMICHANGAS 13 STATE COM 602H

CHIMICHANGAS 13 STATE COM 602H

Plan: PWP0

Survey Report - Geographic

02 December, 2019

Centennial Resource Dev

Survey Report - Geographic

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well CHIMICHANGAS 13 STATE COM 602H
Project:	LEA	TVD Reference:	RKB=3591.2+25 @ 3616.2usft
Site:	CHIMICHANGAS	MD Reference:	RKB=3591.2+25 @ 3616.2usft
Well:	CHIMICHANGAS 13 STATE COM 602H	North Reference:	True
Wellbore:	CHIMICHANGAS 13 STATE COM 602H	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		CHIMICHANGAS			
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							CHIMICHANGAS 13 STATE COM 602H						
Well Position	+N/-S		0.0 usft		Northing:	11,768,924.53 usft		Latitude:	32° 24' 42.287 N				
	+E/-W		0.0 usft		Easting:	2,128,091.50 usft		Longitude:	103° 25' 9.441 W				
Position Uncertainty			0.0 usft		Wellhead Elevation:	usft		Ground Level:	3,591.2 usft				

Wellbore	CHIMICHANGAS 13 STATE COM 602H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.69	60.44	48,921.87365452

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	180.14

Survey Tool Program		Date	11/19/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	21,286.4	PWP0 (CHIMICHANGAS 13 STATE COM	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	11,768,924.53	2,128,091.50	32° 24' 42.287 N	103° 25' 9.441 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	11,768,924.53	2,128,091.50	32° 24' 42.287 N	103° 25' 9.441 W
2,500.0	5.00	0.00	2,499.4	21.8	0.0	11,768,946.33	2,128,091.18	32° 24' 42.503 N	103° 25' 9.441 W
8,070.0	5.00	0.00	8,048.2	507.3	0.0	11,769,431.74	2,128,083.99	32° 24' 47.307 N	103° 25' 9.441 W
8,570.0	0.00	0.00	8,547.5	529.1	0.0	11,769,453.54	2,128,083.67	32° 24' 47.523 N	103° 25' 9.441 W
10,599.5	0.00	0.00	10,577.0	529.1	0.0	11,769,453.54	2,128,083.67	32° 24' 47.523 N	103° 25' 9.441 W
11,499.5	90.00	180.97	11,150.0	-43.8	-9.7	11,768,880.58	2,128,082.45	32° 24' 41.854 N	103° 25' 9.554 W
15,095.7	90.00	179.88	11,150.0	-3,639.9	-36.5	11,765,284.50	2,128,108.86	32° 24' 6.266 N	103° 25' 9.866 W
21,286.6	90.00	179.88	11,150.0	-9,830.8	-23.9	11,759,094.48	2,128,213.03	32° 23' 5.000 N	103° 25' 9.719 W

Centennial Resource Dev

Survey Report - Geographic

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well CHIMICHANGAS 13 STATE COM 602H
Project:	LEA	TVD Reference:	RKB=3591.2+25 @ 3616.2usft
Site:	CHIMICHANGAS	MD Reference:	RKB=3591.2+25 @ 3616.2usft
Well:	CHIMICHANGAS 13 STATE COM 602H	North Reference:	True
Wellbore:	CHIMICHANGAS 13 STATE COM 602H	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		CHIMICHANGAS			
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							CHIMICHANGAS 13 STATE COM 602H						
Well Position	+N/-S		0.0 usft		Northing:	11,768,924.53 usft		Latitude:	32° 24' 42.287 N				
	+E/-W		0.0 usft		Easting:	2,128,091.50 usft		Longitude:	103° 25' 9.441 W				
Position Uncertainty			0.0 usft		Wellhead Elevation:	usft		Ground Level:	3,591.2 usft				

Wellbore	CHIMICHANGAS 13 STATE COM 602H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.69	60.44	48,921.87365452

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	180.14	

Survey Tool Program		Date	11/19/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	21,286.4	PWP0 (CHIMICHANGAS 13 STATE COM	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	11,768,924.53	2,128,091.50	32° 24' 42.287 N	103° 25' 9.441 W
100.0	0.00	0.00	100.0	0.0	0.0	11,768,924.53	2,128,091.50	32° 24' 42.287 N	103° 25' 9.441 W
200.0	0.00	0.00	200.0	0.0	0.0	11,768,924.53	2,128,091.50	32° 24' 42.287 N	103° 25' 9.441 W
300.0	0.00	0.00	300.0	0.0	0.0	11,768,924.53	2,128,091.50	32° 24' 42.287 N	103° 25' 9.441 W
400.0	0.00	0.00	400.0	0.0	0.0	11,768,924.53	2,128,091.50	32° 24' 42.287 N	103° 25' 9.441 W
500.0	0.00	0.00	500.0	0.0	0.0	11,768,924.53	2,128,091.50	32° 24' 42.287 N	103° 25' 9.441 W
600.0	0.00	0.00	600.0	0.0	0.0	11,768,924.53	2,128,091.50	32° 24' 42.287 N	103° 25' 9.441 W
700.0	0.00	0.00	700.0	0.0	0.0	11,768,924.53	2,128,091.50	32° 24' 42.287 N	103° 25' 9.441 W
800.0	0.00	0.00	800.0	0.0	0.0	11,768,924.53	2,128,091.50	32° 24' 42.287 N	103° 25' 9.441 W
900.0	0.00	0.00	900.0	0.0	0.0	11,768,924.53	2,128,091.50	32° 24' 42.287 N	103° 25' 9.441 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	11,768,924.53	2,128,091.50	32° 24' 42.287 N	103° 25' 9.441 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	11,768,924.53	2,128,091.50	32° 24' 42.287 N	103° 25' 9.441 W

Centennial Resource Dev

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Company:	NEW MEXICO	Local Co-ordinate Reference:	Well CHIMICHANGAS 13 STATE COM 602H
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Well:	CHIMICHANGAS 13 STATE COM 602H	North Reference:	True
Wellbore:	CHIMICHANGAS 13 STATE COM 602H	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	11,768,924.53	2,128,091.50	32° 24' 42.287 N	103° 25' 9.441 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	11,768,924.53	2,128,091.50	32° 24' 42.287 N	103° 25' 9.441 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	11,768,924.53	2,128,091.50	32° 24' 42.287 N	103° 25' 9.441 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	11,768,924.53	2,128,091.50	32° 24' 42.287 N	103° 25' 9.441 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	11,768,924.53	2,128,091.50	32° 24' 42.287 N	103° 25' 9.441 W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	11,768,924.53	2,128,091.50	32° 24' 42.287 N	103° 25' 9.441 W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	11,768,924.53	2,128,091.50	32° 24' 42.287 N	103° 25' 9.441 W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	11,768,924.53	2,128,091.50	32° 24' 42.287 N	103° 25' 9.441 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	11,768,924.53	2,128,091.50	32° 24' 42.287 N	103° 25' 9.441 W
2,100.0	1.00	0.00	2,100.0	0.9	0.0	11,768,925.41	2,128,091.48	32° 24' 42.296 N	103° 25' 9.441 W
2,200.0	2.00	0.00	2,200.0	3.5	0.0	11,768,928.02	2,128,091.45	32° 24' 42.322 N	103° 25' 9.441 W
2,300.0	3.00	0.00	2,299.9	7.9	0.0	11,768,932.38	2,128,091.38	32° 24' 42.365 N	103° 25' 9.441 W
2,400.0	4.00	0.00	2,399.7	14.0	0.0	11,768,938.49	2,128,091.29	32° 24' 42.425 N	103° 25' 9.441 W
2,500.0	5.00	0.00	2,499.4	21.8	0.0	11,768,946.33	2,128,091.18	32° 24' 42.503 N	103° 25' 9.441 W
2,600.0	5.00	0.00	2,599.0	30.5	0.0	11,768,955.05	2,128,091.05	32° 24' 42.589 N	103° 25' 9.441 W
2,700.0	5.00	0.00	2,698.6	39.2	0.0	11,768,963.76	2,128,090.92	32° 24' 42.676 N	103° 25' 9.441 W
2,800.0	5.00	0.00	2,798.2	47.9	0.0	11,768,972.48	2,128,090.79	32° 24' 42.762 N	103° 25' 9.441 W
2,900.0	5.00	0.00	2,897.8	56.7	0.0	11,768,981.19	2,128,090.66	32° 24' 42.848 N	103° 25' 9.441 W
3,000.0	5.00	0.00	2,997.5	65.4	0.0	11,768,989.91	2,128,090.53	32° 24' 42.934 N	103° 25' 9.441 W
3,100.0	5.00	0.00	3,097.1	74.1	0.0	11,768,998.62	2,128,090.40	32° 24' 43.021 N	103° 25' 9.441 W
3,200.0	5.00	0.00	3,196.7	82.8	0.0	11,769,007.34	2,128,090.27	32° 24' 43.107 N	103° 25' 9.441 W
3,300.0	5.00	0.00	3,296.3	91.5	0.0	11,769,016.05	2,128,090.14	32° 24' 43.193 N	103° 25' 9.441 W
3,400.0	5.00	0.00	3,395.9	100.2	0.0	11,769,024.77	2,128,090.01	32° 24' 43.279 N	103° 25' 9.441 W
3,500.0	5.00	0.00	3,495.6	109.0	0.0	11,769,033.48	2,128,089.89	32° 24' 43.366 N	103° 25' 9.441 W
3,600.0	5.00	0.00	3,595.2	117.7	0.0	11,769,042.19	2,128,089.76	32° 24' 43.452 N	103° 25' 9.441 W
3,700.0	5.00	0.00	3,694.8	126.4	0.0	11,769,050.91	2,128,089.63	32° 24' 43.538 N	103° 25' 9.441 W
3,800.0	5.00	0.00	3,794.4	135.1	0.0	11,769,059.62	2,128,089.50	32° 24' 43.624 N	103° 25' 9.441 W
3,900.0	5.00	0.00	3,894.0	143.8	0.0	11,769,068.34	2,128,089.37	32° 24' 43.711 N	103° 25' 9.441 W
4,000.0	5.00	0.00	3,993.7	152.5	0.0	11,769,077.05	2,128,089.24	32° 24' 43.797 N	103° 25' 9.441 W
4,100.0	5.00	0.00	4,093.3	161.3	0.0	11,769,085.77	2,128,089.11	32° 24' 43.883 N	103° 25' 9.441 W
4,200.0	5.00	0.00	4,192.9	170.0	0.0	11,769,094.48	2,128,088.98	32° 24' 43.969 N	103° 25' 9.441 W
4,300.0	5.00	0.00	4,292.5	178.7	0.0	11,769,103.20	2,128,088.85	32° 24' 44.056 N	103° 25' 9.441 W
4,400.0	5.00	0.00	4,392.1	187.4	0.0	11,769,111.91	2,128,088.73	32° 24' 44.142 N	103° 25' 9.441 W
4,500.0	5.00	0.00	4,491.8	196.1	0.0	11,769,120.63	2,128,088.60	32° 24' 44.228 N	103° 25' 9.441 W
4,600.0	5.00	0.00	4,591.4	204.8	0.0	11,769,129.34	2,128,088.47	32° 24' 44.314 N	103° 25' 9.441 W
4,700.0	5.00	0.00	4,691.0	213.5	0.0	11,769,138.06	2,128,088.34	32° 24' 44.401 N	103° 25' 9.441 W
4,800.0	5.00	0.00	4,790.6	222.3	0.0	11,769,146.77	2,128,088.21	32° 24' 44.487 N	103° 25' 9.441 W
4,900.0	5.00	0.00	4,890.2	231.0	0.0	11,769,155.48	2,128,088.08	32° 24' 44.573 N	103° 25' 9.441 W
5,000.0	5.00	0.00	4,989.9	239.7	0.0	11,769,164.20	2,128,087.95	32° 24' 44.659 N	103° 25' 9.441 W
5,100.0	5.00	0.00	5,089.5	248.4	0.0	11,769,172.91	2,128,087.82	32° 24' 44.746 N	103° 25' 9.441 W
5,200.0	5.00	0.00	5,189.1	257.1	0.0	11,769,181.63	2,128,087.69	32° 24' 44.832 N	103° 25' 9.441 W
5,300.0	5.00	0.00	5,288.7	265.8	0.0	11,769,190.34	2,128,087.57	32° 24' 44.918 N	103° 25' 9.441 W
5,400.0	5.00	0.00	5,388.3	274.6	0.0	11,769,199.06	2,128,087.44	32° 24' 45.004 N	103° 25' 9.441 W
5,500.0	5.00	0.00	5,487.9	283.3	0.0	11,769,207.77	2,128,087.31	32° 24' 45.091 N	103° 25' 9.441 W
5,600.0	5.00	0.00	5,587.6	292.0	0.0	11,769,216.49	2,128,087.18	32° 24' 45.177 N	103° 25' 9.441 W
5,700.0	5.00	0.00	5,687.2	300.7	0.0	11,769,225.20	2,128,087.05	32° 24' 45.263 N	103° 25' 9.441 W
5,800.0	5.00	0.00	5,786.8	309.4	0.0	11,769,233.92	2,128,086.92	32° 24' 45.349 N	103° 25' 9.441 W
5,900.0	5.00	0.00	5,886.4	318.1	0.0	11,769,242.63	2,128,086.79	32° 24' 45.436 N	103° 25' 9.441 W
6,000.0	5.00	0.00	5,986.0	326.8	0.0	11,769,251.35	2,128,086.66	32° 24' 45.522 N	103° 25' 9.441 W
6,100.0	5.00	0.00	6,085.7	335.6	0.0	11,769,260.06	2,128,086.53	32° 24' 45.608 N	103° 25' 9.441 W
6,200.0	5.00	0.00	6,185.3	344.3	0.0	11,769,268.77	2,128,086.41	32° 24' 45.694 N	103° 25' 9.441 W
6,300.0	5.00	0.00	6,284.9	353.0	0.0	11,769,277.49	2,128,086.28	32° 24' 45.781 N	103° 25' 9.441 W
6,400.0	5.00	0.00	6,384.5	361.7	0.0	11,769,286.20	2,128,086.15	32° 24' 45.867 N	103° 25' 9.441 W
6,500.0	5.00	0.00	6,484.1	370.4	0.0	11,769,294.92	2,128,086.02	32° 24' 45.953 N	103° 25' 9.441 W
6,600.0	5.00	0.00	6,583.8	379.1	0.0	11,769,303.63	2,128,085.89	32° 24' 46.039 N	103° 25' 9.441 W

Centennial Resource Dev

Survey Report - Geographic

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well CHIMICHANGAS 13 STATE COM 602H
Project:	LEA	TVD Reference:	RKB=3591.2+25 @ 3616.2usft
Site:	CHIMICHANGAS	MD Reference:	RKB=3591.2+25 @ 3616.2usft
Well:	CHIMICHANGAS 13 STATE COM 602H	North Reference:	True
Wellbore:	CHIMICHANGAS 13 STATE COM 602H	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	5.00	0.00	6,683.4	387.9	0.0	11,769,312.35	2,128,085.76	32° 24' 46.126 N	103° 25' 9.441 W
6,800.0	5.00	0.00	6,783.0	396.6	0.0	11,769,321.06	2,128,085.63	32° 24' 46.212 N	103° 25' 9.441 W
6,900.0	5.00	0.00	6,882.6	405.3	0.0	11,769,329.78	2,128,085.50	32° 24' 46.298 N	103° 25' 9.441 W
7,000.0	5.00	0.00	6,982.2	414.0	0.0	11,769,338.49	2,128,085.37	32° 24' 46.384 N	103° 25' 9.441 W
7,100.0	5.00	0.00	7,081.9	422.7	0.0	11,769,347.21	2,128,085.25	32° 24' 46.471 N	103° 25' 9.441 W
7,200.0	5.00	0.00	7,181.5	431.4	0.0	11,769,355.92	2,128,085.12	32° 24' 46.557 N	103° 25' 9.441 W
7,300.0	5.00	0.00	7,281.1	440.2	0.0	11,769,364.64	2,128,084.99	32° 24' 46.643 N	103° 25' 9.441 W
7,400.0	5.00	0.00	7,380.7	448.9	0.0	11,769,373.35	2,128,084.86	32° 24' 46.729 N	103° 25' 9.441 W
7,500.0	5.00	0.00	7,480.3	457.6	0.0	11,769,382.06	2,128,084.73	32° 24' 46.816 N	103° 25' 9.441 W
7,600.0	5.00	0.00	7,580.0	466.3	0.0	11,769,390.78	2,128,084.60	32° 24' 46.902 N	103° 25' 9.441 W
7,700.0	5.00	0.00	7,679.6	475.0	0.0	11,769,399.49	2,128,084.47	32° 24' 46.988 N	103° 25' 9.441 W
7,800.0	5.00	0.00	7,779.2	483.7	0.0	11,769,408.21	2,128,084.34	32° 24' 47.074 N	103° 25' 9.441 W
7,900.0	5.00	0.00	7,878.8	492.4	0.0	11,769,416.92	2,128,084.21	32° 24' 47.161 N	103° 25' 9.441 W
8,000.0	5.00	0.00	7,978.4	501.2	0.0	11,769,425.64	2,128,084.09	32° 24' 47.247 N	103° 25' 9.441 W
8,070.0	5.00	0.00	8,048.2	507.3	0.0	11,769,431.74	2,128,083.99	32° 24' 47.307 N	103° 25' 9.441 W
8,100.0	4.70	0.00	8,078.1	509.8	0.0	11,769,434.27	2,128,083.96	32° 24' 47.332 N	103° 25' 9.441 W
8,200.0	3.70	0.00	8,177.8	517.1	0.0	11,769,441.60	2,128,083.85	32° 24' 47.405 N	103° 25' 9.441 W
8,300.0	2.70	0.00	8,277.6	522.7	0.0	11,769,447.18	2,128,083.77	32° 24' 47.460 N	103° 25' 9.441 W
8,400.0	1.70	0.00	8,377.6	526.5	0.0	11,769,451.02	2,128,083.71	32° 24' 47.498 N	103° 25' 9.441 W
8,500.0	0.70	0.00	8,477.5	528.6	0.0	11,769,453.11	2,128,083.68	32° 24' 47.519 N	103° 25' 9.441 W
8,570.0	0.00	0.00	8,547.5	529.1	0.0	11,769,453.54	2,128,083.67	32° 24' 47.523 N	103° 25' 9.441 W
8,600.0	0.00	0.00	8,577.5	529.1	0.0	11,769,453.54	2,128,083.67	32° 24' 47.523 N	103° 25' 9.441 W
8,700.0	0.00	0.00	8,677.5	529.1	0.0	11,769,453.54	2,128,083.67	32° 24' 47.523 N	103° 25' 9.441 W
8,800.0	0.00	0.00	8,777.5	529.1	0.0	11,769,453.54	2,128,083.67	32° 24' 47.523 N	103° 25' 9.441 W
8,900.0	0.00	0.00	8,877.5	529.1	0.0	11,769,453.54	2,128,083.67	32° 24' 47.523 N	103° 25' 9.441 W
9,000.0	0.00	0.00	8,977.5	529.1	0.0	11,769,453.54	2,128,083.67	32° 24' 47.523 N	103° 25' 9.441 W
9,100.0	0.00	0.00	9,077.5	529.1	0.0	11,769,453.54	2,128,083.67	32° 24' 47.523 N	103° 25' 9.441 W
9,200.0	0.00	0.00	9,177.5	529.1	0.0	11,769,453.54	2,128,083.67	32° 24' 47.523 N	103° 25' 9.441 W
9,300.0	0.00	0.00	9,277.5	529.1	0.0	11,769,453.54	2,128,083.67	32° 24' 47.523 N	103° 25' 9.441 W
9,400.0	0.00	0.00	9,377.5	529.1	0.0	11,769,453.54	2,128,083.67	32° 24' 47.523 N	103° 25' 9.441 W
9,500.0	0.00	0.00	9,477.5	529.1	0.0	11,769,453.54	2,128,083.67	32° 24' 47.523 N	103° 25' 9.441 W
9,600.0	0.00	0.00	9,577.5	529.1	0.0	11,769,453.54	2,128,083.67	32° 24' 47.523 N	103° 25' 9.441 W
9,700.0	0.00	0.00	9,677.5	529.1	0.0	11,769,453.54	2,128,083.67	32° 24' 47.523 N	103° 25' 9.441 W
9,800.0	0.00	0.00	9,777.5	529.1	0.0	11,769,453.54	2,128,083.67	32° 24' 47.523 N	103° 25' 9.441 W
9,900.0	0.00	0.00	9,877.5	529.1	0.0	11,769,453.54	2,128,083.67	32° 24' 47.523 N	103° 25' 9.441 W
10,000.0	0.00	0.00	9,977.5	529.1	0.0	11,769,453.54	2,128,083.67	32° 24' 47.523 N	103° 25' 9.441 W
10,100.0	0.00	0.00	10,077.5	529.1	0.0	11,769,453.54	2,128,083.67	32° 24' 47.523 N	103° 25' 9.441 W
10,200.0	0.00	0.00	10,177.5	529.1	0.0	11,769,453.54	2,128,083.67	32° 24' 47.523 N	103° 25' 9.441 W
10,300.0	0.00	0.00	10,277.5	529.1	0.0	11,769,453.54	2,128,083.67	32° 24' 47.523 N	103° 25' 9.441 W
10,400.0	0.00	0.00	10,377.5	529.1	0.0	11,769,453.54	2,128,083.67	32° 24' 47.523 N	103° 25' 9.441 W
10,500.0	0.00	0.00	10,477.5	529.1	0.0	11,769,453.54	2,128,083.67	32° 24' 47.523 N	103° 25' 9.441 W
10,599.5	0.00	0.00	10,577.0	529.1	0.0	11,769,453.54	2,128,083.67	32° 24' 47.523 N	103° 25' 9.441 W
10,600.0	0.05	180.97	10,577.5	529.1	0.0	11,769,453.54	2,128,083.67	32° 24' 47.523 N	103° 25' 9.441 W
10,700.0	10.05	180.97	10,677.0	520.3	-0.1	11,769,444.75	2,128,083.65	32° 24' 47.436 N	103° 25' 9.443 W
10,800.0	20.05	180.97	10,773.5	494.3	-0.6	11,769,418.81	2,128,083.60	32° 24' 47.179 N	103° 25' 9.448 W
10,900.0	30.05	180.97	10,863.9	452.1	-1.3	11,769,376.53	2,128,083.51	32° 24' 46.761 N	103° 25' 9.456 W
11,000.0	40.05	180.97	10,945.7	394.7	-2.3	11,769,319.17	2,128,083.38	32° 24' 46.193 N	103° 25' 9.468 W
11,100.0	50.05	180.97	11,016.3	324.0	-3.5	11,769,248.49	2,128,083.23	32° 24' 45.494 N	103° 25' 9.482 W
11,200.0	60.05	180.97	11,073.5	242.2	-4.9	11,769,166.63	2,128,083.06	32° 24' 44.684 N	103° 25' 9.498 W
11,300.0	70.05	180.97	11,115.6	151.7	-6.4	11,769,076.08	2,128,082.87	32° 24' 43.788 N	103° 25' 9.516 W
11,400.0	80.05	180.97	11,141.4	55.2	-8.0	11,768,979.59	2,128,082.66	32° 24' 42.833 N	103° 25' 9.535 W
11,499.5	90.00	180.97	11,150.0	-43.8	-9.7	11,768,880.58	2,128,082.45	32° 24' 41.854 N	103° 25' 9.554 W
11,500.0	90.00	180.97	11,150.0	-44.3	-9.7	11,768,880.09	2,128,082.45	32° 24' 41.849 N	103° 25' 9.554 W
11,600.0	90.00	180.94	11,150.0	-144.3	-11.4	11,768,780.09	2,128,082.26	32° 24' 40.859 N	103° 25' 9.574 W
11,700.0	90.00	180.91	11,150.0	-244.3	-13.0	11,768,680.09	2,128,082.12	32° 24' 39.870 N	103° 25' 9.593 W

Centennial Resource Dev

Survey Report - Geographic

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well CHIMICHANGAS 13 STATE COM 602H
Project:	LEA	TVD Reference:	RKB=3591.2+25 @ 3616.2usft
Site:	CHIMICHANGAS	MD Reference:	RKB=3591.2+25 @ 3616.2usft
Well:	CHIMICHANGAS 13 STATE COM 602H	North Reference:	True
Wellbore:	CHIMICHANGAS 13 STATE COM 602H	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
11,800.0	90.00	180.88	11,150.0	-344.3	-14.5	11,768,580.09	2,128,082.04	32° 24' 38.880 N	103° 25' 9.611 W
11,900.0	90.00	180.85	11,150.0	-444.3	-16.1	11,768,480.09	2,128,082.01	32° 24' 37.891 N	103° 25' 9.628 W
12,000.0	90.00	180.82	11,150.0	-544.2	-17.5	11,768,380.09	2,128,082.04	32° 24' 36.901 N	103° 25' 9.645 W
12,100.0	90.00	180.79	11,150.0	-644.2	-18.9	11,768,280.09	2,128,082.11	32° 24' 35.912 N	103° 25' 9.662 W
12,200.0	90.00	180.76	11,150.0	-744.2	-20.3	11,768,180.09	2,128,082.24	32° 24' 34.922 N	103° 25' 9.677 W
12,300.0	90.00	180.73	11,150.0	-844.2	-21.6	11,768,080.09	2,128,082.43	32° 24' 33.933 N	103° 25' 9.693 W
12,400.0	90.00	180.70	11,150.0	-944.2	-22.8	11,767,980.09	2,128,082.66	32° 24' 32.943 N	103° 25' 9.707 W
12,500.0	90.00	180.67	11,150.0	-1,044.2	-24.0	11,767,880.09	2,128,082.95	32° 24' 31.954 N	103° 25' 9.721 W
12,600.0	90.00	180.64	11,150.0	-1,144.2	-25.1	11,767,780.09	2,128,083.29	32° 24' 30.964 N	103° 25' 9.734 W
12,700.0	90.00	180.61	11,150.0	-1,244.2	-26.2	11,767,680.09	2,128,083.68	32° 24' 29.975 N	103° 25' 9.747 W
12,800.0	90.00	180.58	11,150.0	-1,344.2	-27.3	11,767,580.09	2,128,084.13	32° 24' 28.985 N	103° 25' 9.759 W
12,900.0	90.00	180.55	11,150.0	-1,444.2	-28.2	11,767,480.09	2,128,084.62	32° 24' 27.995 N	103° 25' 9.770 W
13,000.0	90.00	180.52	11,150.0	-1,544.2	-29.2	11,767,380.09	2,128,085.18	32° 24' 27.006 N	103° 25' 9.781 W
13,100.0	90.00	180.49	11,150.0	-1,644.2	-30.0	11,767,280.09	2,128,085.78	32° 24' 26.016 N	103° 25' 9.791 W
13,200.0	90.00	180.46	11,150.0	-1,744.2	-30.9	11,767,180.10	2,128,086.44	32° 24' 25.027 N	103° 25' 9.801 W
13,300.0	90.00	180.43	11,150.0	-1,844.2	-31.6	11,767,080.10	2,128,087.15	32° 24' 24.037 N	103° 25' 9.810 W
13,400.0	90.00	180.40	11,150.0	-1,944.2	-32.3	11,766,980.10	2,128,087.91	32° 24' 23.048 N	103° 25' 9.818 W
13,500.0	90.00	180.37	11,150.0	-2,044.2	-33.0	11,766,880.10	2,128,088.72	32° 24' 22.058 N	103° 25' 9.826 W
13,600.0	90.00	180.34	11,150.0	-2,144.2	-33.6	11,766,780.11	2,128,089.59	32° 24' 21.068 N	103° 25' 9.833 W
13,700.0	90.00	180.31	11,150.0	-2,244.2	-34.2	11,766,680.11	2,128,090.51	32° 24' 20.079 N	103° 25' 9.840 W
13,800.0	90.00	180.27	11,150.0	-2,344.2	-34.7	11,766,580.12	2,128,091.48	32° 24' 19.089 N	103° 25' 9.846 W
13,900.0	90.00	180.24	11,150.0	-2,444.2	-35.1	11,766,480.12	2,128,092.51	32° 24' 18.100 N	103° 25' 9.851 W
14,000.0	90.00	180.21	11,150.0	-2,544.2	-35.5	11,766,380.13	2,128,093.59	32° 24' 17.110 N	103° 25' 9.856 W
14,100.0	90.00	180.18	11,150.0	-2,644.2	-35.9	11,766,280.13	2,128,094.72	32° 24' 16.120 N	103° 25' 9.860 W
14,200.0	90.00	180.15	11,150.0	-2,744.2	-36.2	11,766,180.14	2,128,095.90	32° 24' 15.131 N	103° 25' 9.863 W
14,300.0	90.00	180.12	11,150.0	-2,844.2	-36.4	11,766,080.15	2,128,097.14	32° 24' 14.141 N	103° 25' 9.866 W
14,400.0	90.00	180.09	11,150.0	-2,944.2	-36.6	11,765,980.16	2,128,098.43	32° 24' 13.151 N	103° 25' 9.868 W
14,500.0	90.00	180.06	11,150.0	-3,044.2	-36.8	11,765,880.17	2,128,099.77	32° 24' 12.162 N	103° 25' 9.870 W
14,600.0	90.00	180.03	11,150.0	-3,144.2	-36.8	11,765,780.18	2,128,101.16	32° 24' 11.172 N	103° 25' 9.871 W
14,700.0	90.00	180.00	11,150.0	-3,244.2	-36.9	11,765,680.19	2,128,102.61	32° 24' 10.183 N	103° 25' 9.871 W
14,800.0	90.00	179.97	11,150.0	-3,344.2	-36.9	11,765,580.20	2,128,104.11	32° 24' 9.193 N	103° 25' 9.871 W
14,900.0	90.00	179.94	11,150.0	-3,444.2	-36.8	11,765,480.21	2,128,105.67	32° 24' 8.203 N	103° 25' 9.870 W
15,000.0	90.00	179.91	11,150.0	-3,544.2	-36.7	11,765,380.22	2,128,107.27	32° 24' 7.214 N	103° 25' 9.868 W
15,095.7	90.00	179.88	11,150.0	-3,639.9	-36.5	11,765,284.50	2,128,108.86	32° 24' 6.266 N	103° 25' 9.866 W
15,100.0	90.00	179.88	11,150.0	-3,644.2	-36.5	11,765,280.24	2,128,108.93	32° 24' 6.224 N	103° 25' 9.866 W
15,200.0	90.00	179.88	11,150.0	-3,744.2	-36.3	11,765,180.25	2,128,110.61	32° 24' 5.235 N	103° 25' 9.864 W
15,300.0	90.00	179.88	11,150.0	-3,844.2	-36.1	11,765,080.27	2,128,112.30	32° 24' 4.245 N	103° 25' 9.862 W
15,400.0	90.00	179.88	11,150.0	-3,944.2	-35.9	11,764,980.28	2,128,113.98	32° 24' 3.255 N	103° 25' 9.859 W
15,500.0	90.00	179.88	11,150.0	-4,044.2	-35.7	11,764,880.29	2,128,115.66	32° 24' 2.266 N	103° 25' 9.857 W
15,600.0	90.00	179.88	11,150.0	-4,144.2	-35.5	11,764,780.31	2,128,117.34	32° 24' 1.276 N	103° 25' 9.854 W
15,700.0	90.00	179.88	11,150.0	-4,244.2	-35.3	11,764,680.32	2,128,119.03	32° 24' 0.286 N	103° 25' 9.852 W
15,800.0	90.00	179.88	11,150.0	-4,344.2	-35.0	11,764,580.34	2,128,120.71	32° 23' 59.297 N	103° 25' 9.850 W
15,900.0	90.00	179.88	11,150.0	-4,444.2	-34.8	11,764,480.35	2,128,122.39	32° 23' 58.307 N	103° 25' 9.847 W
16,000.0	90.00	179.88	11,150.0	-4,544.2	-34.6	11,764,380.36	2,128,124.07	32° 23' 57.318 N	103° 25' 9.845 W
16,100.0	90.00	179.88	11,150.0	-4,644.2	-34.4	11,764,280.38	2,128,125.76	32° 23' 56.328 N	103° 25' 9.843 W
16,200.0	90.00	179.88	11,150.0	-4,744.2	-34.2	11,764,180.39	2,128,127.44	32° 23' 55.338 N	103° 25' 9.840 W
16,300.0	90.00	179.88	11,150.0	-4,844.2	-34.0	11,764,080.41	2,128,129.12	32° 23' 54.349 N	103° 25' 9.838 W
16,400.0	90.00	179.88	11,150.0	-4,944.2	-33.8	11,763,980.42	2,128,130.80	32° 23' 53.359 N	103° 25' 9.835 W
16,500.0	90.00	179.88	11,150.0	-5,044.2	-33.6	11,763,880.44	2,128,132.49	32° 23' 52.370 N	103° 25' 9.833 W
16,600.0	90.00	179.88	11,150.0	-5,144.2	-33.4	11,763,780.45	2,128,134.17	32° 23' 51.380 N	103° 25' 9.831 W
16,700.0	90.00	179.88	11,150.0	-5,244.2	-33.2	11,763,680.46	2,128,135.85	32° 23' 50.390 N	103° 25' 9.828 W
16,800.0	90.00	179.88	11,150.0	-5,344.2	-33.0	11,763,580.48	2,128,137.53	32° 23' 49.401 N	103° 25' 9.826 W
16,900.0	90.00	179.88	11,150.0	-5,444.2	-32.8	11,763,480.49	2,128,139.22	32° 23' 48.411 N	103° 25' 9.823 W
17,000.0	90.00	179.88	11,150.0	-5,544.2	-32.6	11,763,380.51	2,128,140.90	32° 23' 47.422 N	103° 25' 9.821 W
17,100.0	90.00	179.88	11,150.0	-5,644.2	-32.4	11,763,280.52	2,128,142.58	32° 23' 46.432 N	103° 25' 9.819 W

Centennial Resource Dev

Survey Report - Geographic

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well CHIMICHANGAS 13 STATE COM 602H
Project:	LEA	TVD Reference:	RKB=3591.2+25 @ 3616.2usft
Site:	CHIMICHANGAS	MD Reference:	RKB=3591.2+25 @ 3616.2usft
Well:	CHIMICHANGAS 13 STATE COM 602H	North Reference:	True
Wellbore:	CHIMICHANGAS 13 STATE COM 602H	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
17,200.0	90.00	179.88	11,150.0	-5,744.2	-32.2	11,763,180.53	2,128,144.27	32° 23' 45.442 N	103° 25' 9.816 W
17,300.0	90.00	179.88	11,150.0	-5,844.2	-32.0	11,763,080.55	2,128,145.95	32° 23' 44.453 N	103° 25' 9.814 W
17,400.0	90.00	179.88	11,150.0	-5,944.2	-31.8	11,762,980.56	2,128,147.63	32° 23' 43.463 N	103° 25' 9.812 W
17,500.0	90.00	179.88	11,150.0	-6,044.2	-31.6	11,762,880.58	2,128,149.31	32° 23' 42.473 N	103° 25' 9.809 W
17,600.0	90.00	179.88	11,150.0	-6,144.2	-31.4	11,762,780.59	2,128,151.00	32° 23' 41.484 N	103° 25' 9.807 W
17,700.0	90.00	179.88	11,150.0	-6,244.1	-31.2	11,762,680.60	2,128,152.68	32° 23' 40.494 N	103° 25' 9.804 W
17,800.0	90.00	179.88	11,150.0	-6,344.1	-31.0	11,762,580.62	2,128,154.36	32° 23' 39.505 N	103° 25' 9.802 W
17,900.0	90.00	179.88	11,150.0	-6,444.1	-30.8	11,762,480.63	2,128,156.04	32° 23' 38.515 N	103° 25' 9.800 W
18,000.0	90.00	179.88	11,150.0	-6,544.1	-30.6	11,762,380.65	2,128,157.73	32° 23' 37.525 N	103° 25' 9.797 W
18,100.0	90.00	179.88	11,150.0	-6,644.1	-30.4	11,762,280.66	2,128,159.41	32° 23' 36.536 N	103° 25' 9.795 W
18,200.0	90.00	179.88	11,150.0	-6,744.1	-30.2	11,762,180.68	2,128,161.09	32° 23' 35.546 N	103° 25' 9.792 W
18,300.0	90.00	179.88	11,150.0	-6,844.1	-30.0	11,762,080.69	2,128,162.77	32° 23' 34.557 N	103° 25' 9.790 W
18,400.0	90.00	179.88	11,150.0	-6,944.1	-29.8	11,761,980.70	2,128,164.46	32° 23' 33.567 N	103° 25' 9.788 W
18,500.0	90.00	179.88	11,150.0	-7,044.1	-29.6	11,761,880.72	2,128,166.14	32° 23' 32.577 N	103° 25' 9.785 W
18,600.0	90.00	179.88	11,150.0	-7,144.1	-29.3	11,761,780.73	2,128,167.82	32° 23' 31.588 N	103° 25' 9.783 W
18,700.0	90.00	179.88	11,150.0	-7,244.1	-29.1	11,761,680.75	2,128,169.50	32° 23' 30.598 N	103° 25' 9.781 W
18,800.0	90.00	179.88	11,150.0	-7,344.1	-28.9	11,761,580.76	2,128,171.19	32° 23' 29.608 N	103° 25' 9.778 W
18,900.0	90.00	179.88	11,150.0	-7,444.1	-28.7	11,761,480.77	2,128,172.87	32° 23' 28.619 N	103° 25' 9.776 W
19,000.0	90.00	179.88	11,150.0	-7,544.1	-28.5	11,761,380.79	2,128,174.55	32° 23' 27.629 N	103° 25' 9.773 W
19,100.0	90.00	179.88	11,150.0	-7,644.1	-28.3	11,761,280.80	2,128,176.23	32° 23' 26.640 N	103° 25' 9.771 W
19,200.0	90.00	179.88	11,150.0	-7,744.1	-28.1	11,761,180.82	2,128,177.92	32° 23' 25.650 N	103° 25' 9.769 W
19,300.0	90.00	179.88	11,150.0	-7,844.1	-27.9	11,761,080.83	2,128,179.60	32° 23' 24.660 N	103° 25' 9.766 W
19,400.0	90.00	179.88	11,150.0	-7,944.1	-27.7	11,760,980.85	2,128,181.28	32° 23' 23.671 N	103° 25' 9.764 W
19,500.0	90.00	179.88	11,150.0	-8,044.1	-27.5	11,760,880.86	2,128,182.97	32° 23' 22.681 N	103° 25' 9.761 W
19,600.0	90.00	179.88	11,150.0	-8,144.1	-27.3	11,760,780.87	2,128,184.65	32° 23' 21.692 N	103° 25' 9.759 W
19,700.0	90.00	179.88	11,150.0	-8,244.1	-27.1	11,760,680.89	2,128,186.33	32° 23' 20.702 N	103° 25' 9.757 W
19,800.0	90.00	179.88	11,150.0	-8,344.1	-26.9	11,760,580.90	2,128,188.01	32° 23' 19.712 N	103° 25' 9.754 W
19,900.0	90.00	179.88	11,150.0	-8,444.1	-26.7	11,760,480.92	2,128,189.70	32° 23' 18.723 N	103° 25' 9.752 W
20,000.0	90.00	179.88	11,150.0	-8,544.1	-26.5	11,760,380.93	2,128,191.38	32° 23' 17.733 N	103° 25' 9.750 W
20,100.0	90.00	179.88	11,150.0	-8,644.1	-26.3	11,760,280.94	2,128,193.06	32° 23' 16.743 N	103° 25' 9.747 W
20,200.0	90.00	179.88	11,150.0	-8,744.1	-26.1	11,760,180.96	2,128,194.74	32° 23' 15.754 N	103° 25' 9.745 W
20,300.0	90.00	179.88	11,150.0	-8,844.1	-25.9	11,760,080.97	2,128,196.43	32° 23' 14.764 N	103° 25' 9.742 W
20,400.0	90.00	179.88	11,150.0	-8,944.1	-25.7	11,759,980.99	2,128,198.11	32° 23' 13.775 N	103° 25' 9.740 W
20,500.0	90.00	179.88	11,150.0	-9,044.1	-25.5	11,759,881.00	2,128,199.79	32° 23' 12.785 N	103° 25' 9.738 W
20,600.0	90.00	179.88	11,150.0	-9,144.1	-25.3	11,759,781.02	2,128,201.47	32° 23' 11.795 N	103° 25' 9.735 W
20,700.0	90.00	179.88	11,150.0	-9,244.1	-25.1	11,759,681.03	2,128,203.16	32° 23' 10.806 N	103° 25' 9.733 W
20,800.0	90.00	179.88	11,150.0	-9,344.1	-24.9	11,759,581.04	2,128,204.84	32° 23' 9.816 N	103° 25' 9.730 W
20,900.0	90.00	179.88	11,150.0	-9,444.1	-24.7	11,759,481.06	2,128,206.52	32° 23' 8.827 N	103° 25' 9.728 W
21,000.0	90.00	179.88	11,150.0	-9,544.1	-24.5	11,759,381.07	2,128,208.20	32° 23' 7.837 N	103° 25' 9.726 W
21,100.0	90.00	179.88	11,150.0	-9,644.1	-24.3	11,759,281.09	2,128,209.89	32° 23' 6.847 N	103° 25' 9.723 W
21,200.0	90.00	179.88	11,150.0	-9,744.1	-24.1	11,759,181.10	2,128,211.57	32° 23' 5.858 N	103° 25' 9.721 W
21,286.6	90.00	179.88	11,150.0	-9,830.8	-23.9	11,759,094.48	2,128,213.03	32° 23' 5.000 N	103° 25' 9.719 W

Centennial Resource Dev

Survey Report - Geographic

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well CHIMICHANGAS 13 STATE COM 602H
Project:	LEA	TVD Reference:	RKB=3591.2+25 @ 3616.2usft
Site:	CHIMICHANGAS	MD Reference:	RKB=3591.2+25 @ 3616.2usft
Well:	CHIMICHANGAS 13 STATE COM 602H	North Reference:	True
Wellbore:	CHIMICHANGAS 13 STATE COM 602H	Survey Calculation Method:	Minimum Curvature
Design:	PWP0	Database:	Compass

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)		
FTP - CHIMICHANGAS	0.00	0.00	11,150.0	529.9	0.3	11,769,454.41	2,128,083.96	32° 24' 47.532 N	103° 25' 9.438 W
- plan misses target center by 237.9usft at 11048.7usft MD (10981.6 TVD, 361.9 N, -2.8 E)									
- Circle (radius 50.0)									
LTP/BHL - CHIMICHANGAS	0.00	0.00	11,150.0	-9,830.8	-23.9	11,759,094.48	2,128,213.03	32° 23' 5.000 N	103° 25' 9.719 W
- plan hits target center									
- Point									

Checked By: _____ Approved By: _____ Date: _____

Centennial Resource Dev

Anticollision Summary Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well CHIMICHANGAS 13 STATE COM 602H
Project:	LEA	TVD Reference:	RKB=3591.2+25 @ 3616.2usft
Reference Site:	CHIMICHANGAS	MD Reference:	RKB=3591.2+25 @ 3616.2usft
Site Error:	0.0 usft	North Reference:	True
Reference Well:	CHIMICHANGAS 13 STATE COM 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	CHIMICHANGAS 13 STATE COM 602H	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	11/19/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	21,286.4	PWP0 (CHIMICHANGAS 13 STATE COM	MWD+IFR1+MS	OWSG_Rev2_ MWD + IFR1 + Multi-Station Correction

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						
AIRSTREAM						
AIRSTREAM 24 STATE COM 503H - AIRSTREAM 24 S						Out of range
AIRSTREAM 24 STATE COM 504H - AIRSTREAM 24 S						Out of range
AIRSTREAM 24 STATE COM 505H - AIRSTREAM 24 S	21,287.0	10,423.0	967.6	866.2	9.538	CC, ES, SF
AIRSTREAM 24 STATE COM 505H - AIRSTREAM 24 S	21,287.0	10,423.0	967.6	866.2	9.538	CC, ES, SF
AIRSTREAM 24 STATE COM 506H - AIRSTREAM 24 S						Out of range
CHIMICHANGAS						
CHIMICHANGAS 13 STATE COM 601H - CHIMICHANG	2,000.0	1,999.4	30.0	16.1	2.160	CC, ES
CHIMICHANGAS 13 STATE COM 601H - CHIMICHANG	2,100.0	2,098.9	30.8	16.2	2.107	SF
CHIMICHANGAS 13 STATE COM 603H - CHIMICHANG	1,916.5	1,917.1	30.0	16.7	2.256	CC
CHIMICHANGAS 13 STATE COM 603H - CHIMICHANG	2,000.0	2,000.6	30.0	16.1	2.159	ES
CHIMICHANGAS 13 STATE COM 603H - CHIMICHANG	2,100.0	2,100.0	30.8	16.2	2.107	SF

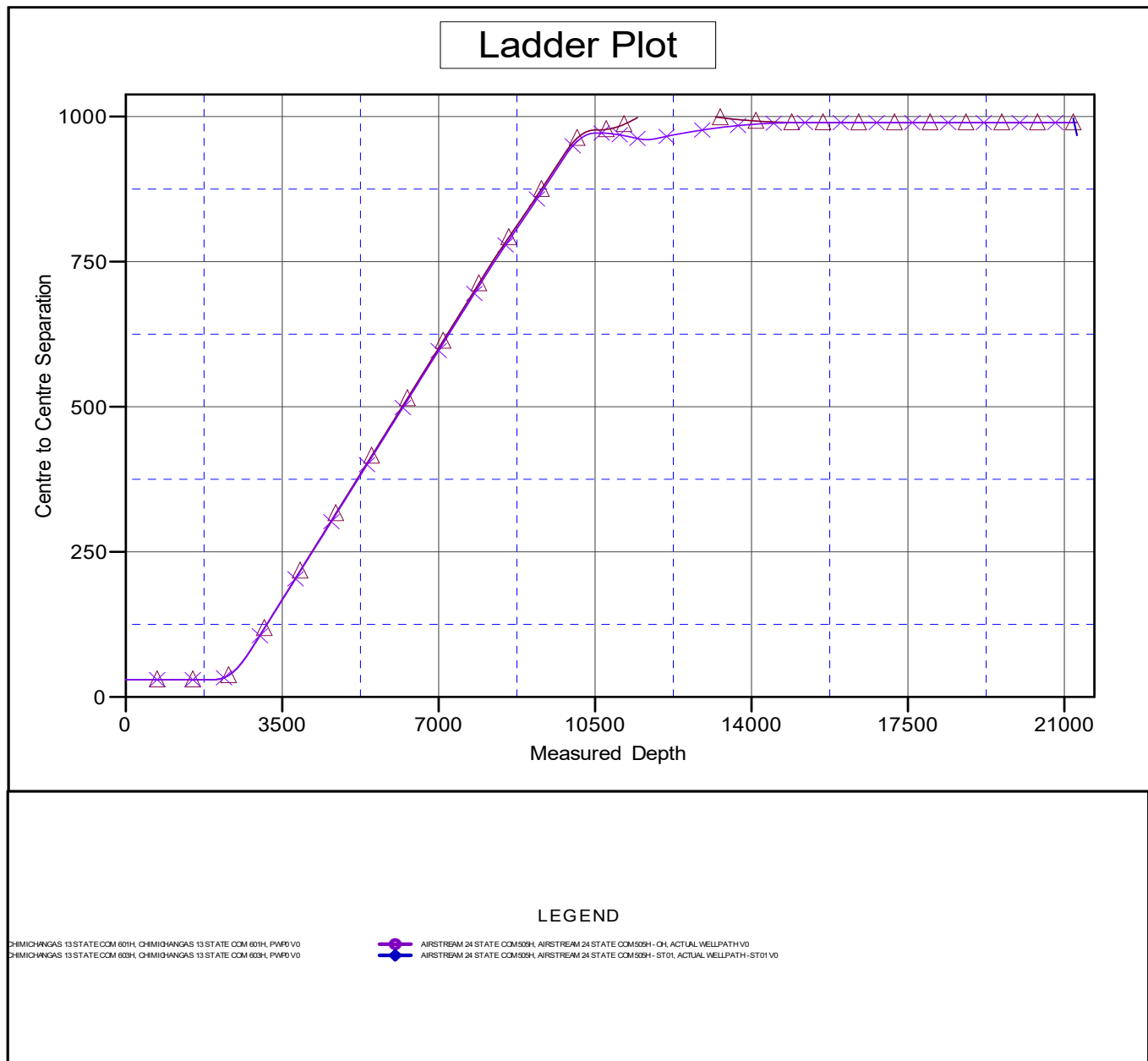
Centennial Resource Dev

Anticollision Summary Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well CHIMICHANGAS 13 STATE COM 602H
Project:	LEA	TVD Reference:	RKB=3591.2+25 @ 3616.2usft
Reference Site:	CHIMICHANGAS	MD Reference:	RKB=3591.2+25 @ 3616.2usft
Site Error:	0.0 usft	North Reference:	True
Reference Well:	CHIMICHANGAS 13 STATE COM 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	CHIMICHANGAS 13 STATE COM 602H	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=3591.2+25 @ 3616.2usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 105° 0' 0.000 W

Coordinates are relative to: CHIMICHANGAS 13 STATE COM 602H
 Coordinate System is Universal Transverse Mercator (US Survey Feet), Zone 13N
 Grid Convergence at Surface is: 0.85°



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

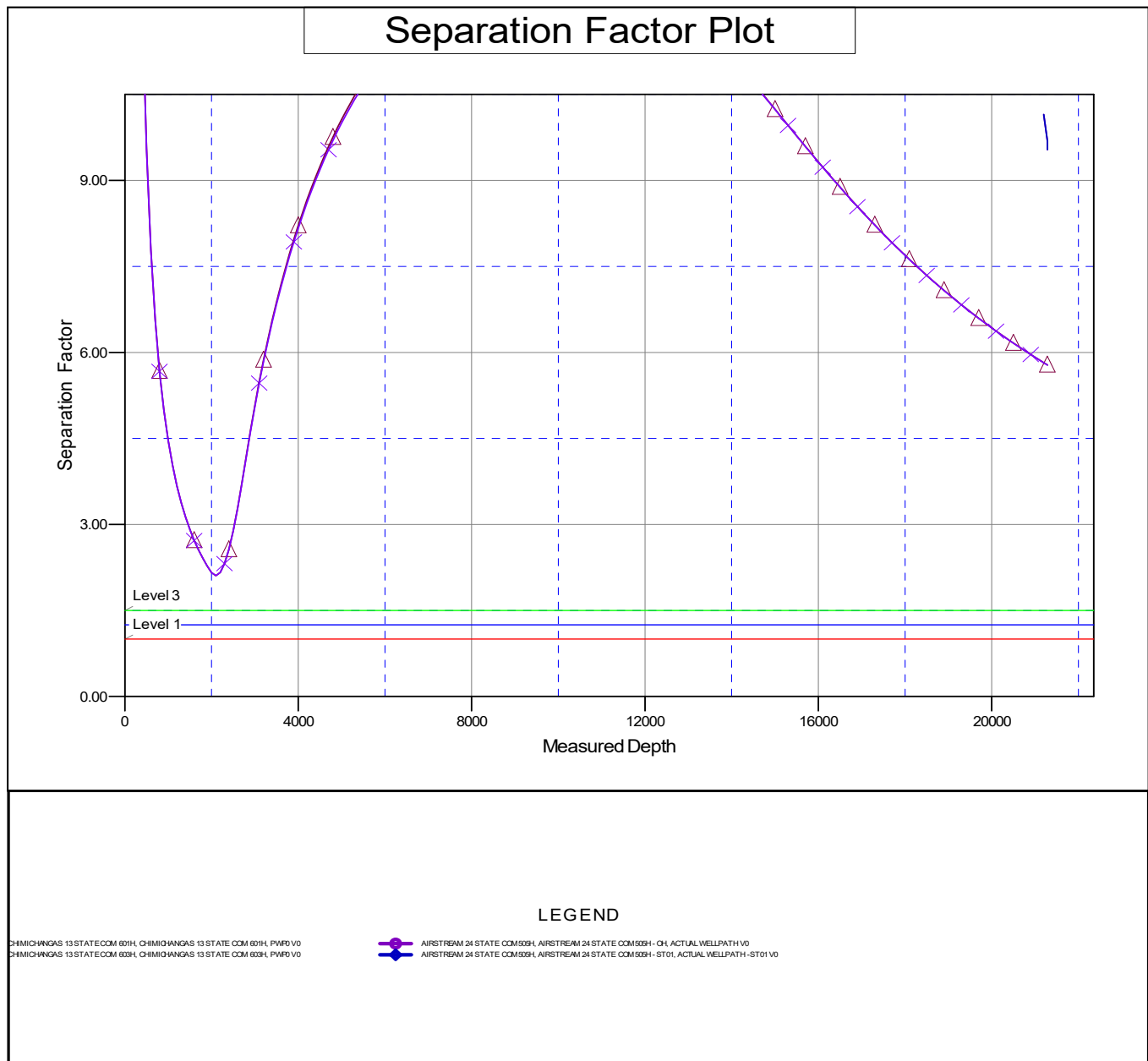
Centennial Resource Dev

Anticollision Summary Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well CHIMICHANGAS 13 STATE COM 602H
Project:	LEA	TVD Reference:	RKB=3591.2+25 @ 3616.2usft
Reference Site:	CHIMICHANGAS	MD Reference:	RKB=3591.2+25 @ 3616.2usft
Site Error:	0.0 usft	North Reference:	True
Reference Well:	CHIMICHANGAS 13 STATE COM 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	CHIMICHANGAS 13 STATE COM 602H	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=3591.2+25 @ 3616.2usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 105° 0' 0.000 W

Coordinates are relative to: CHIMICHANGAS 13 STATE COM 602H
 Coordinate System is Universal Transverse Mercator (US Survey Feet), Zone 13N
 Grid Convergence at Surface is: 0.85°



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