

30-025-45781



PHOENIX
TECHNOLOGY SERVICES

October 21, 2019

Oil Conservation Division
State of New Mexico
1625 N. French Drive
Hobbs, New Mexico 88240

HOBBS OCD
OCT 31 2019
RECEIVED

Dear District 1 - Hobbs

Re: Centennial Resources
Airstream 24 State Com 505H
Lea County, NM
API #30-025-45781
Job No. 65151

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced well by Phoenix Technology Services, Inc. Other information required by your office is as follows:

Name & Title of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Jerad Steel	505H	17,202	20,649	8/23/19	8/26/19	MWD

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,

Brittany Carley

Brittany Carley
Operations Administrator

**Phoenix Technology Services
SURVEY DATA CERTIFICATION**



PHOENIX JOB NUMBER

65151

ENERGY COMPANY

Centennial Resources

WELL NAME

Airstream 24 State Com 505H

COUNTY & STATE

Lea County, NM

API WELL NUMBER

30-025-45781

PROPOSED DIRECTION

182.21

TIE-IN DATA						
MEASURED DEPTH	VERTICAL DEPTH	INCLIN	AZIMUTH	N-S COORD	E-W COORD	DATA SOURCE
17,193.00 ft	10,330.19 ft	90.90	180.69	-7,548.43 ft	-392.81 ft	MWD

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
23-Aug-19	17,202.00 ft	89.76	181.09

SURVEY INSTRUMENT TYPE
Phoenix MWD Velocity

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
26-Aug-19	20,649.00 ft	89.47	177.27

TO THE BEST OF MY KNOWLEDGE I
CERTIFY THIS SURVEY DATA TO BE
TRUE AND CORRECT.

PROJECTED TD SURVEY DATE	PROJECTED TD SURVEY DEPTH	INCLIN	AZIMUTH
26-Aug-19	20,710.00 ft	89.47	177.27

Jerad Steel

PRINT YOUR NAME ABOVE

Jerad Steel

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	6.68
DECLINATION OR GRID	DECLINATION

8/26/2019

TODAY'S DATE

TRUE NORTH

MWD SUPERVISOR 1

Jerad Steel

DIRECTIONAL DRILLER 1

Nye Soares

MWD SUPERVISOR 2

Peter Mavrelis

DIRECTIONAL DRILLER 2

Trent Lejeune

12329 Cutten Rd., Houston, Texas 777066 (713)337-0600 (Voice), (713)337-0599 (Fax)



PHOENIX
TECHNOLOGY SERVICES

Centennial Resources Development, Inc.

**Lea County, NM (NAD83 - NME)
Airstream 24 State Com
505H**

ST01 / 65151

Survey: Phoenix MWD Surveys

Standard Survey Report

30 August, 2019





Survey Report



Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 505H
Project:	Lea County, NM (NAD83 - NME)	TVD Reference:	RKB @ 3549.50usft (H&P 618)
Site:	Airstream 24 State Com	MD Reference:	RKB @ 3549.50usft (H&P 618)
Well:	505H	North Reference:	True
Wellbore:	ST01 / 65151	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 618)	Database:	USA Compass

Project	Lea County, NM (NAD83 - NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Airstream 24 State Com		
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Site Position:		Northing:	505,402.74 usft	Latitude:	32° 23' 9.946151 N
From:	Map	Easting:	823,950.92 usft	Longitude:	103° 25' 4.085155 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.49 °

Well	505H				
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Well Position	+N/-S	0.00 usft	Northing:	505,402.74 usft	Latitude:	32° 23' 9.946151 N
	+E/-W	0.00 usft	Easting:	823,950.92 usft	Longitude:	103° 25' 4.085155 W
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	3,524.50 usft

Wellbore	ST01 / 65151				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	9/12/2019	6.65	60.10	48,014.09157453

Design	Surveys (H&P 618)				
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Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	17,193.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	182.21

Survey Program	Date 8/30/2019				
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From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
180.00	1,834.00	Fabtech MWD Surveys (OH / Surface)	MWD	OWSG MWD - Standard
1,834.00	17,193.00	Phoenix MWD Surveys (OH / 65151)	MWD+HRGM	OWSG MWD + HRGM
17,202.00	20,710.00	Phoenix MWD Surveys (ST01 / 65151)	MWD+HRGM	OWSG MWD + HRGM

Survey									
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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)
17,193.00	90.90	180.69	10,330.19	-7,548.43	-392.81	7,557.97	0.00	0.00	0.00
Tie In									
17,202.00	89.76	181.09	10,330.14	-7,557.43	-392.95	7,566.96	13.42	-12.67	4.44
First Phoenix MWD Survey - ST01									
17,220.00	88.96	182.45	10,330.34	-7,575.42	-393.51	7,584.96	8.77	-4.44	7.56
17,251.00	88.25	183.81	10,331.10	-7,606.37	-395.20	7,615.95	4.95	-2.29	4.39
17,282.00	88.14	185.15	10,332.07	-7,637.26	-397.62	7,646.91	4.33	-0.35	4.32
17,314.00	88.27	186.27	10,333.07	-7,669.08	-400.80	7,678.83	3.52	0.41	3.50

Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 505H
Project:	Lea County, NM (NAD83 - NME)	TVD Reference:	RKB @ 3549.50usft (H&P 618)
Site:	Alstream 24 State Com	MD Reference:	RKB @ 3549.50usft (H&P 618)
Well:	505H	North Reference:	True
Wellbore:	ST01 / 65151	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 618)	Database:	USA Compass

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)
17,345.00	88.24	185.98	10,334.02	-7,699.89	-404.11	7,709.75	0.94	-0.10	-0.94
17,439.00	88.10	185.92	10,337.02	-7,793.34	-413.85	7,803.50	0.16	-0.15	-0.06
17,533.00	88.04	185.91	10,340.19	-7,886.78	-423.53	7,897.25	0.06	-0.06	-0.01
17,628.00	88.67	183.57	10,342.91	-7,981.41	-431.37	7,992.11	2.55	0.66	-2.46
17,721.00	86.91	183.16	10,346.50	-8,074.18	-436.83	8,085.02	1.94	-1.89	-0.44
17,815.00	87.33	181.03	10,351.22	-8,167.99	-440.26	8,178.89	2.31	0.45	-2.27
17,910.00	88.37	180.97	10,354.79	-8,262.91	-441.92	8,273.80	1.10	1.09	-0.06
18,004.00	88.91	180.86	10,357.02	-8,356.87	-443.42	8,367.75	0.59	0.57	-0.12
18,097.00	89.18	179.91	10,358.57	-8,449.85	-444.04	8,460.69	1.06	0.29	-1.02
18,191.00	89.81	179.80	10,359.40	-8,543.85	-443.80	8,554.61	0.68	0.67	-0.12
18,285.00	89.56	179.69	10,359.91	-8,637.85	-443.39	8,648.52	0.29	-0.27	-0.12
18,380.00	90.18	179.79	10,360.13	-8,732.84	-442.96	8,743.43	0.66	0.65	0.11
18,473.00	90.22	179.30	10,359.80	-8,825.84	-442.22	8,836.33	0.53	0.04	-0.53
18,567.00	87.42	178.74	10,361.74	-8,919.80	-440.61	8,930.15	3.04	-2.98	-0.60
18,661.00	87.70	178.62	10,365.74	-9,013.69	-438.45	9,023.89	0.32	0.30	-0.13
18,755.00	88.34	178.78	10,368.99	-9,107.61	-436.31	9,117.66	0.70	0.68	0.17
18,850.00	88.91	178.87	10,371.27	-9,202.56	-434.37	9,212.46	0.61	0.60	0.09
18,944.00	89.62	178.47	10,372.48	-9,296.52	-432.19	9,306.28	0.87	0.76	-0.43
19,038.00	90.13	178.39	10,372.68	-9,390.49	-429.61	9,400.07	0.55	0.54	-0.09
19,132.00	90.92	177.97	10,371.82	-9,484.44	-426.63	9,493.83	0.95	0.84	-0.45
19,226.00	89.67	179.35	10,371.34	-9,578.41	-424.43	9,587.65	1.98	-1.33	1.47
19,320.00	88.51	179.15	10,372.83	-9,672.38	-423.20	9,681.51	1.25	-1.23	-0.21
19,414.00	87.39	178.82	10,376.19	-9,766.31	-421.53	9,775.30	1.24	-1.19	-0.35
19,508.00	89.38	179.75	10,378.84	-9,860.26	-420.36	9,869.13	2.34	2.12	0.99
19,602.00	90.41	179.57	10,379.01	-9,954.25	-419.80	9,963.04	1.11	1.10	-0.19
19,696.00	90.59	178.98	10,378.19	-10,048.24	-418.61	10,056.91	0.66	0.19	-0.63
19,790.00	89.81	178.56	10,377.86	-10,142.22	-416.60	10,150.74	0.94	-0.83	-0.45
19,884.00	89.31	178.16	10,378.59	-10,236.18	-413.91	10,244.52	0.68	-0.53	-0.43
19,978.00	89.70	178.15	10,379.40	-10,330.12	-410.88	10,338.29	0.42	0.41	-0.01
20,072.00	90.95	180.83	10,378.86	-10,424.11	-410.04	10,432.17	3.15	1.33	2.85
20,166.00	89.70	179.72	10,378.33	-10,518.10	-410.49	10,526.11	1.78	-1.33	-1.18
20,260.00	90.81	179.24	10,377.91	-10,612.10	-409.64	10,620.00	1.29	1.18	-0.51
20,354.00	90.78	178.67	10,376.61	-10,706.07	-407.93	10,713.84	0.61	-0.03	-0.61
20,448.00	90.82	178.26	10,375.30	-10,800.03	-405.41	10,807.63	0.44	0.04	-0.44
20,540.00	91.78	178.01	10,373.21	-10,891.95	-402.42	10,899.37	1.08	1.04	-0.27
20,631.00	89.50	177.36	10,372.19	-10,982.87	-398.74	10,990.08	2.61	-2.51	-0.71
20,649.00	89.47	177.27	10,372.35	-11,000.85	-397.90	11,008.01	0.53	-0.17	-0.50
Final Phoenix MWD Survey - ST01									
20,710.00	89.47	177.27	10,372.92	-11,061.78	-394.99	11,068.78	0.00	0.00	0.00
Projection to TD - ST01									



Survey Report



Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 505H
Project:	Lea County, NM (NAD83 - NME)	TVD Reference:	RKB @ 3549.50usft (H&P 618)
Site:	Airstream 24 State Com	MD Reference:	RKB @ 3549.50usft (H&P 618)
Well:	505H	North Reference:	True
Wellbore:	ST01 / 65151	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 618)	Database:	USA Compass

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
17,193.00	10,330.19	-7,548.43	-392.81	Tie In
17,202.00	10,330.14	-7,557.43	-392.95	First Phoenix MWD Survey - ST01
20,649.00	10,372.35	-11,000.85	-397.90	Final Phoenix MWD Survey - ST01
20,710.00	10,372.92	-11,061.78	-394.99	Projection to TD - ST01

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
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 AIRSTREAM 24 STATE COM	⁶ Well Number 505H
⁷ OGRID No.	⁸ Operator Name CENTENNIAL RESOURCE PRODUCTION, LLC	⁹ Elevation 3524.5'

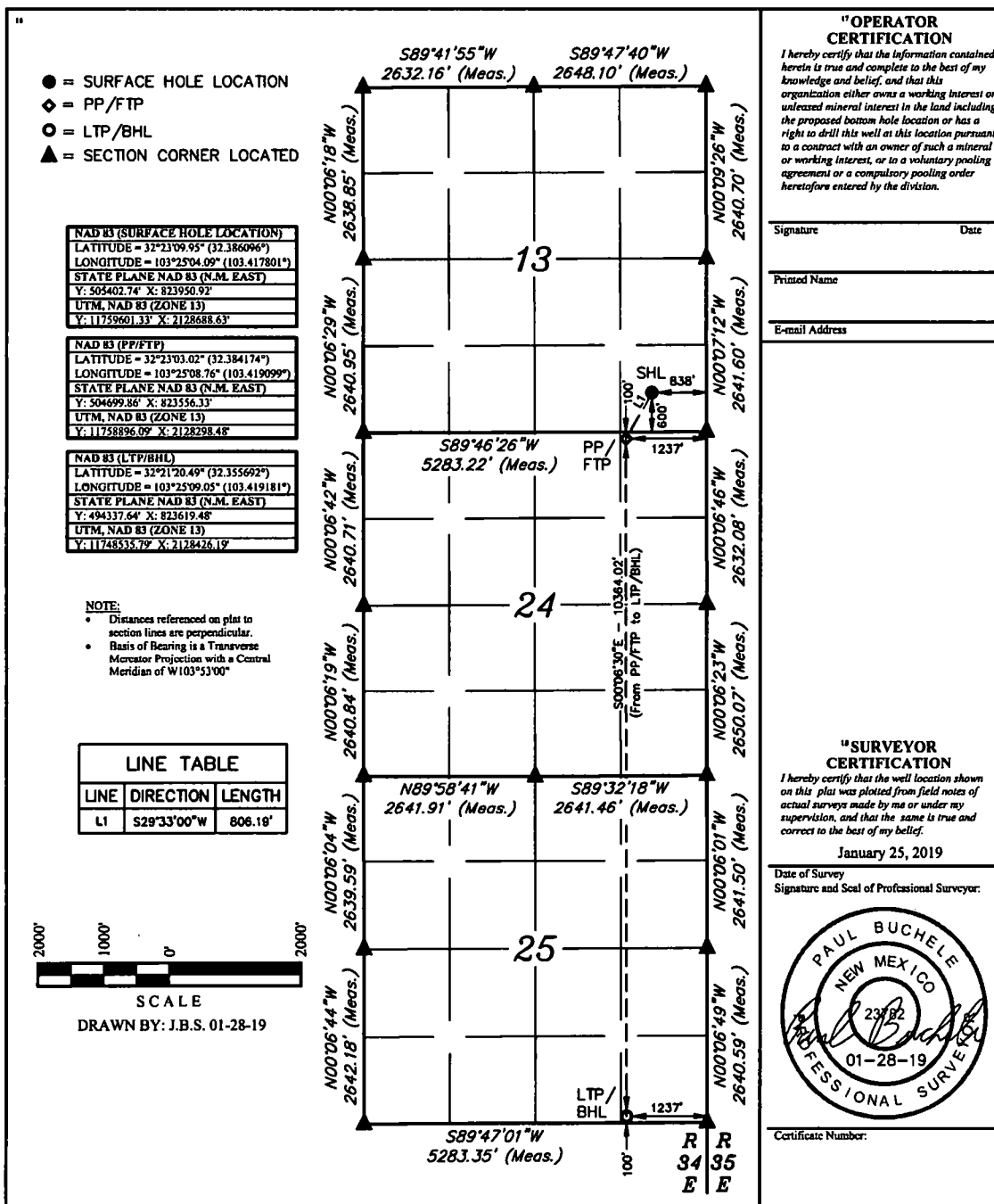
"Surface Location

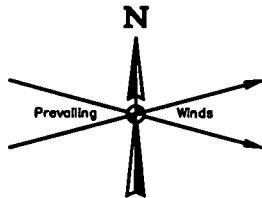
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	13	22S	34E		600	SOUTH	838	EAST	LEA

"Bottom Hole Location If Different From Surface

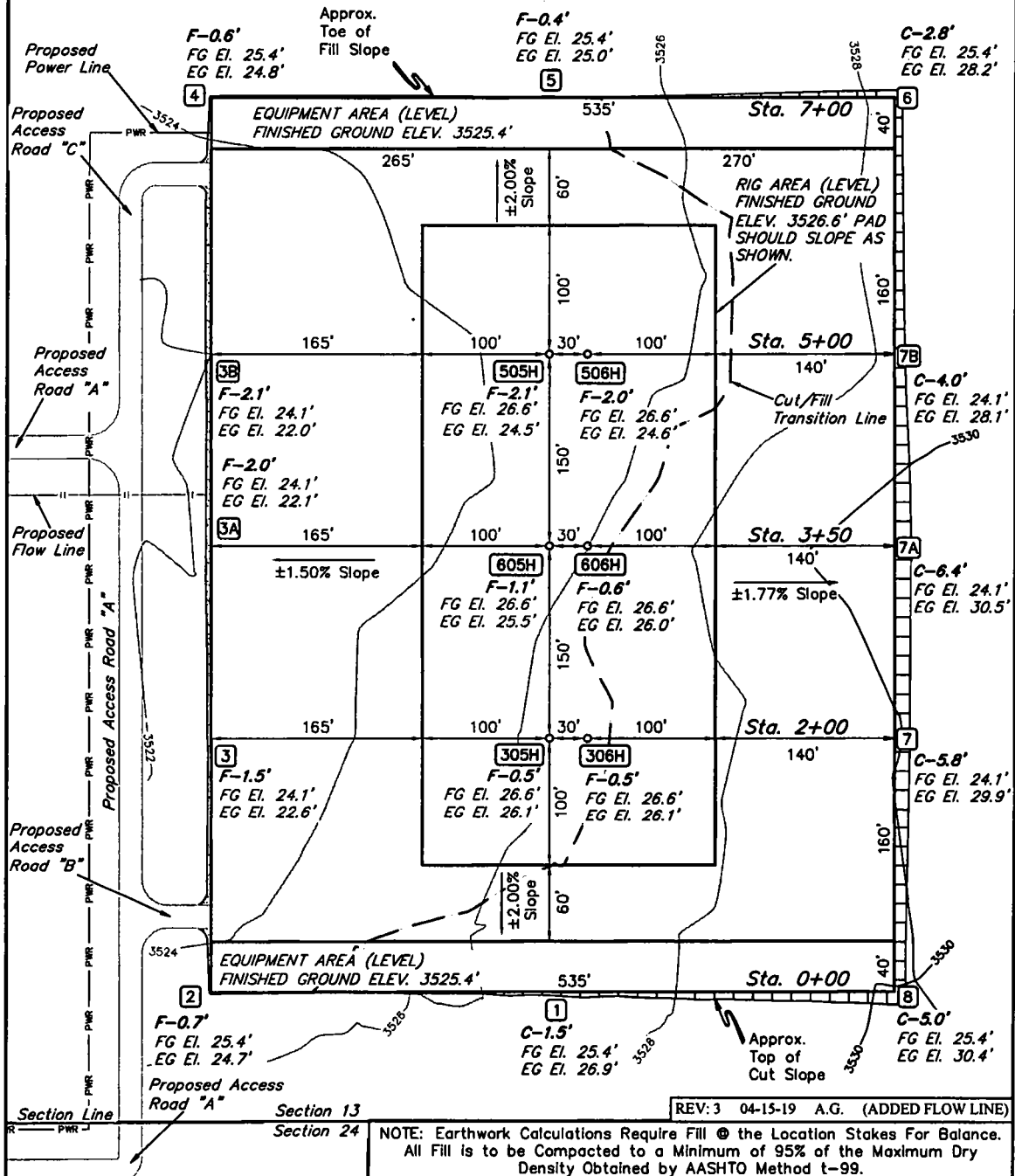
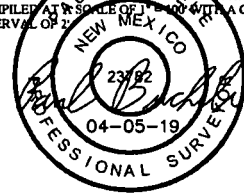
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	25	22S	34E		100	SOUTH	1237	EAST	LEA
¹¹ Dedicated Acres 320	¹² Joint or Infill	¹³ Consolidation Code	¹⁴ Order No.						

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.





CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO
PROCEDURES THAT HAVE BEEN DEMONSTRATED TO
PRODUCE DATA THAT MEET OR EXCEEDS THE
MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP
COMPILED AT A SCALE OF 1"=100' WITH A CONTOUR
INTERVAL OF 2'



- NOTES:**
- Contours shown at 2' intervals.
 - Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
 - Cut/Fill Slopes 2:1 (Typ. except where noted).
 - Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

CENTENNIAL RESOURCE PRODUCTION, LLC

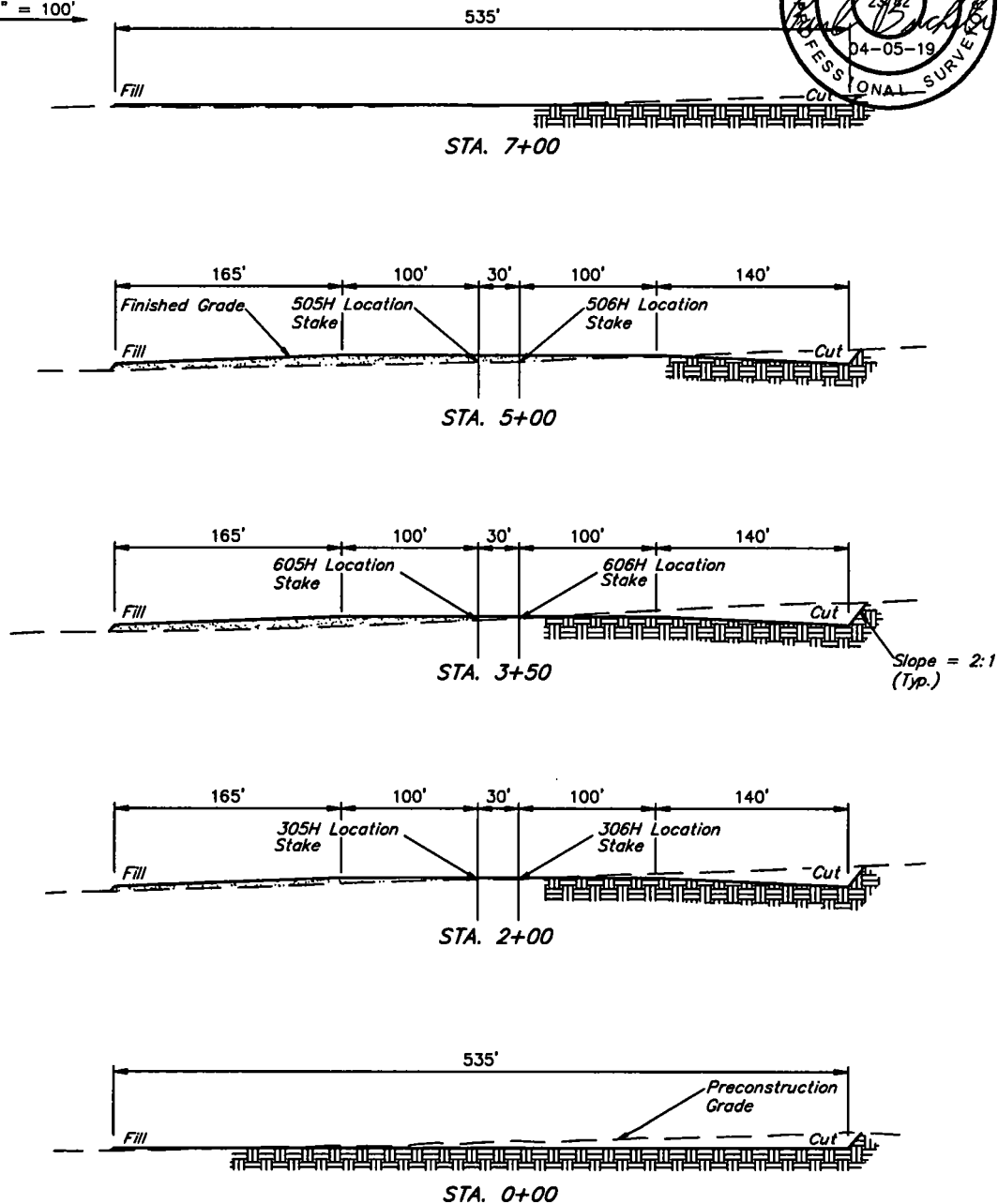
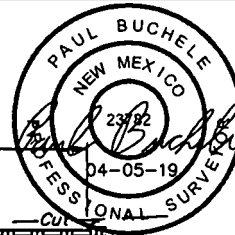
AIRSTREAM 24 STATE COM
305H, 306H, 505H, 506H, 605H & 606H
SE 1/4 SE 1/4 SECTION 13, T22S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., M.D.	01-25-19	SCALE
DRAWN BY	J.B.S.	01-29-19	1" = 100'
LOCATION LAYOUT		FIGURE #1	



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

1" = 40'
X-Section
Scale
1" = 100'



APPROXIMATE EARTHWORK QUANTITIES	
CUT	13,560 Cu. Yds.
FILL	13,560 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	0 Cu. Yds.

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	ACRES
WELL SITE SURFACE USE AREA	NA	±9.069
30' WIDE ACCESS ROAD "B" R-O-W DISTURBANCE	±62.78'	±0.043
30' WIDE ACCESS ROAD "C" R-O-W DISTURBANCE	±274.77'	±0.189
30' WIDE POWER LINE R-O-W DISTURBANCE	±4011.02'	±2.762
30' WIDE FLOW LINE R-O-W DISTURBANCE	±569.35'	±0.392
TOTAL SURFACE USE AREA		±12.455

REV: 3 04-15-19 A.G. (ADDED FLOW LINE)

NOTES:

- Fill quantity includes 5% for compaction.
- Cut/Fill slopes 2:1 (Typ. except where noted)

CENTENNIAL RESOURCE PRODUCTION, LLC

AIRSTREAM 24 STATE COM
305H, 306H, 505H, 506H, 605H & 606H
SE 1/4 SE 1/4 SECTION 13, T22S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., M.D.	01-25-19	SCALE
DRAWN BY	J.B.S.	01-29-19	AS SHOWN

TYPICAL CROSS SECTIONS FIGURE #2



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017