

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMNM131588

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

7. If Unit or CA/Agreement, Name and/or No.
NMNM138602

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
CHEDDAR 2BS FEDERAL COM 1H

2. Name of Operator

CENTENNIAL RESOURCE PRODUCTION

Contact: KANICIA CASTILLO

Email: kanicia.castillo@cdevinc.com

9. API Well No.

30-025-44861-00-X1

3a. Address

1001 17TH STREET SUITE 1800
DENVER, CO 80202

3b. Phone No. (include area code)

Ph: 720-499-1537

10. Field and Pool or Exploratory Area
BILBREY BASIN-BONE SPRING

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 5 T22S R32E Tract SWSW 454FSL 410FWL

11. County or Parish, State

LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Centennial Resource Production, LLC respectfully requests to change this well's name from the Cheddar 2BS Federal Com 1H to the Cheddar Federal Com 501H.

We would also like to change the SHL from: 454 FSL & 410 FWL, Unit M, Section 5 T22S, R32E, Lea County, NM.

To the new SHL of: 453 FSL & 440 FWL, Unit M, Sec 5, T22S, R32E, Lea County, NM.

Please see attached plats.

Engineering Good f.p. same COAs 9/10/19
Approved. No new surface disturbance. DOI-BLM-NM-P020-2018-0353-EA. MR
OCD Hobbs *Same stipulations Apply*

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #481311 verified by the BLM Well Information System

For CENTENNIAL RESOURCE PRODUCTION, sent to the Hobbs

Committed to AFMSS for processing by JUANA MEDRANO on 09/04/2019 (19JM0103SE)

Name (Printed/Typed) KANICIA CASTILLO

Title SR REGULATORY ANALYST

Signature

(Electronic Submission)

Date 08/30/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Revisions to Operator-Submitted EC Data for Sundry Notice #481311

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM131588	NMNM131588
Agreement:		NMNM138602 (NMNM138602)
Operator:	CENTENNIAL RESOURCE PRODUCTION 1001 17 STREET SUITE 1800 DENVER, CO 80202 Ph: 720-499-1537	CENTENNIAL RESOURCE PRODUCTION 1001 17TH STREET SUITE 1800 DENVER, CO 80202 Ph: 720.441.5515
Admin Contact:	KANICIA CASTILLO SR REGULATORY ANALYST E-Mail: kanicia.castillo@cdevinc.com Ph: 720-499-1537	KANICIA CASTILLO SR REGULATORY ANALYST E-Mail: kanicia.castillo@cdevinc.com Ph: 720-499-1537
Tech Contact:	KANICIA CASTILLO SR REGULATORY ANALYST E-Mail: kanicia.castillo@cdevinc.com Ph: 720-499-1537	KANICIA CASTILLO SR REGULATORY ANALYST E-Mail: kanicia.castillo@cdevinc.com Ph: 720-499-1537
Location:		
State:	NM	NM
County:	LEA	LEA
Field/Pool:	BILBERY BASIN/BONE SPRING	BILBREY BASIN-BONE SPRING
Well/Facility:	CHEDDAR 2BS FEDERAL COM 1H Sec 5 T22S R32E Mer NMP SWSW 453FSL 440FWL	CHEDDAR 2BS FEDERAL COM 1H Sec 5 T22S R32E Tract SWSW 454FSL 410FWL

[illegible]

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 CHEDDAR FED COM			6 Well Number 501H
7 GRID No.		8 Operator Name CENTENNIAL RESOURCE PRODUCTION, LLC			9 Elevation 3664.7'

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
M	5	22S	32E		453	SOUTH	440	WEST	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
D	32	21S	32E		100	NORTH	330	WEST	LEA

12 Dedicated Acres 319.68	13 Joint or Infill	14 Consolidation Code	15 Order No.
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No allowance will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°24'52.54" (32.414593°)
LONGITUDE = 103°42'14.24" (103.703956°)
STATE PLANE NAD 83 (N.M. EAST)
Y: 515132.17' X: 735553.70'
UTM, NAD 83 (ZONE 13)
Y: 11768777.94' X: 2040247.57'

NAD 83 (PP/FTP)
LATITUDE = 32°24'49.03" (32.413620°)
LONGITUDE = 103°42'15.52" (103.704311°)
STATE PLANE NAD 83 (N.M. EAST)
Y: 514777.46' X: 735448.15'
UTM, NAD 83 (ZONE 13)
Y: 11768422.63' X: 2040142.26'

NAD 83 (LTP/BHL)
LATITUDE = 32°26'31.33" (32.442092°)
LONGITUDE = 103°42'15.63" (103.704343°)
STATE PLANE NAD 83 (N.M. EAST)
Y: 525135.35' X: 735377.42'
UTM, NAD 83 (ZONE 13)
Y: 11778778.32' X: 2040006.91'

16 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date _____

Printed Name _____

E-mail Address _____

● = SURFACE HOLE LOCATION
◆ = PP/FTP
○ = LTP/BHL
▲ = SECTION CORNER LOCATED

2000' 1000' 0 1000' 2000'

SCALE
REV: 5 07-17-19 J.A. (NAME CHANGE)

LINE TABLE

LINE	DIRECTION	LENGTH
L1	S17°08'29"W	370.72'

NOTE:
• Distances referenced on plat to section lines are perpendicular.
• Basis of Bearing is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

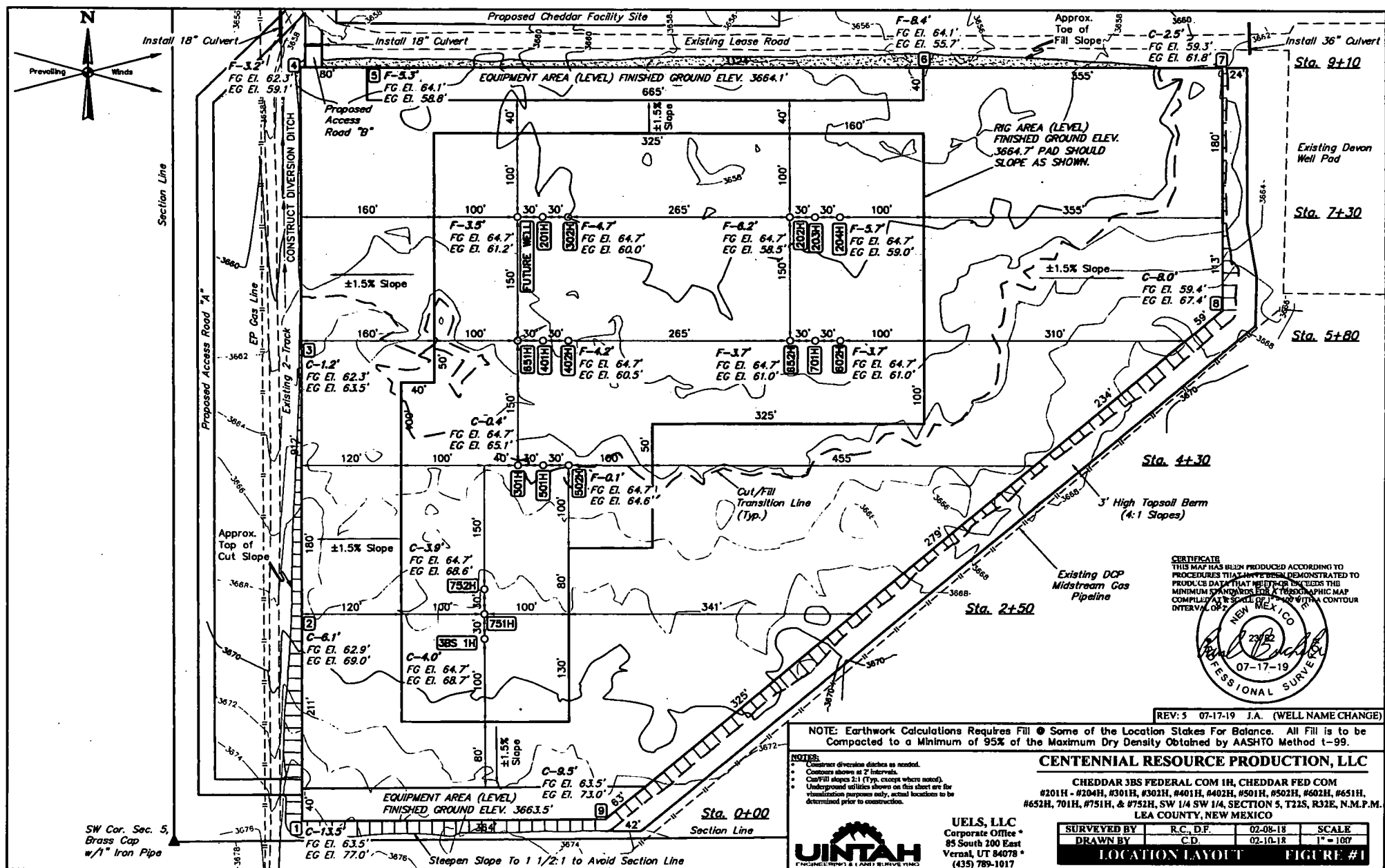
17 SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

September 11, 2018

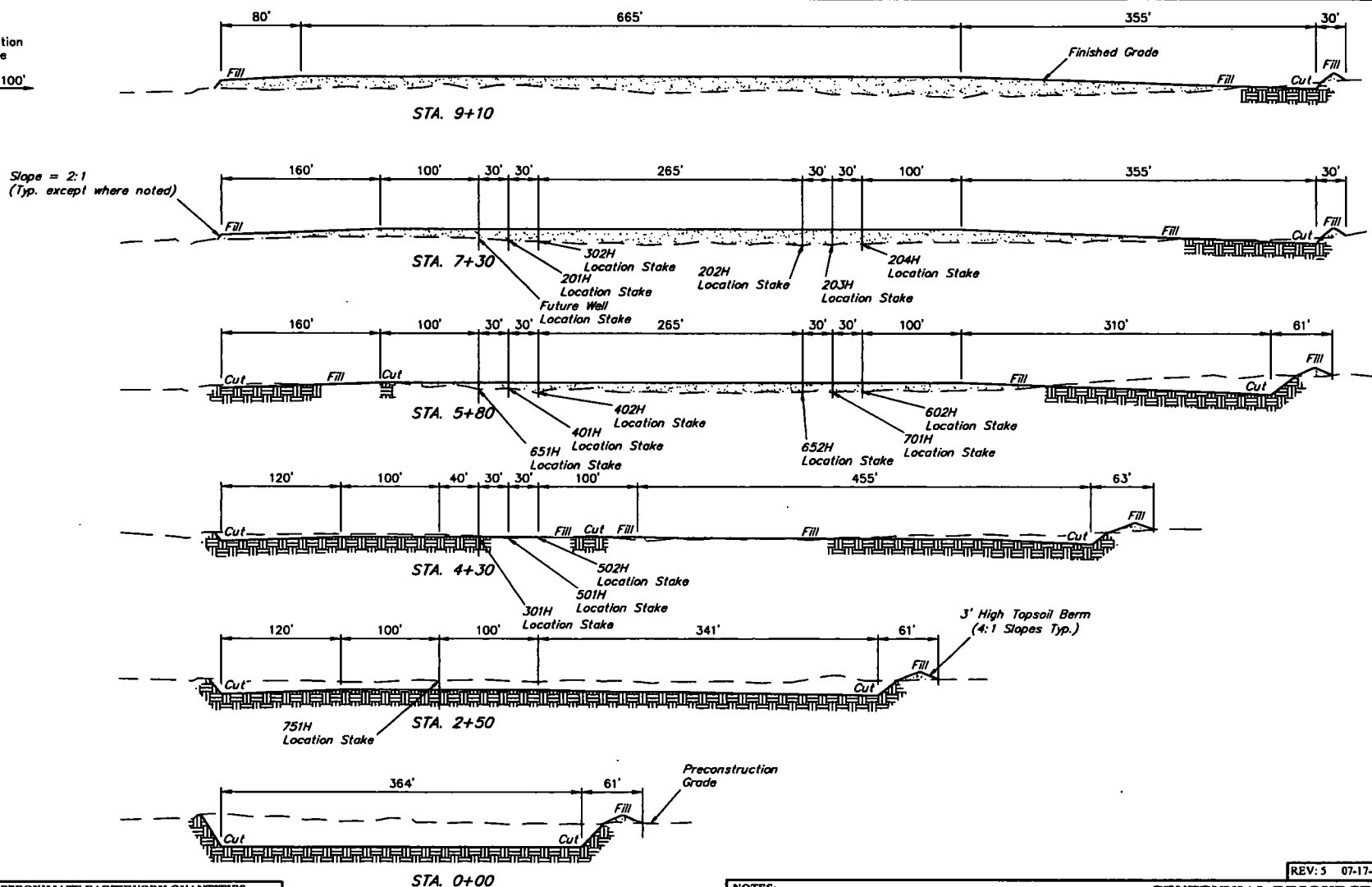
Date of Survey
Signature and Seal of Professional Surveyor:

PAUL BUCHELE
NEW MEXICO
23/82
07-17-19
PROFESSIONAL SURVEYOR

Certificate Number: _____



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



APPROXIMATE EARTHWORK QUANTITIES	
TOPSOIL STRIPPING	2,020 Cu. Yds.
REMAINING LOCATION	58,720 Cu. Yds.
TOTAL CUT	60,740 Cu. Yds.
FILL	58,720 Cu. Yds.
EXCESS MATERIAL	2,020 Cu. Yds.
TOPSOIL	2,020 Cu. Yds.
EXCESS UNBALANCE (After Interior Rehabilitation)	0 Cu. Yds.

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	ACRES
WELL SITE DISTURBANCE	NA	±19.438
65' WIDE ACCESS ROAD R-O-W "A" DISTURBANCE	±1100.91'	±1.643
65' WIDE ACCESS ROAD R-O-W "B" DISTURBANCE	±53.16'	±0.079
TOTAL SURFACE USE AREA		±21.160

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



UELS, LLC
Regional Office * 111 NE 3rd Street
Seminole, TX 79360 * (432) 955-6100
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



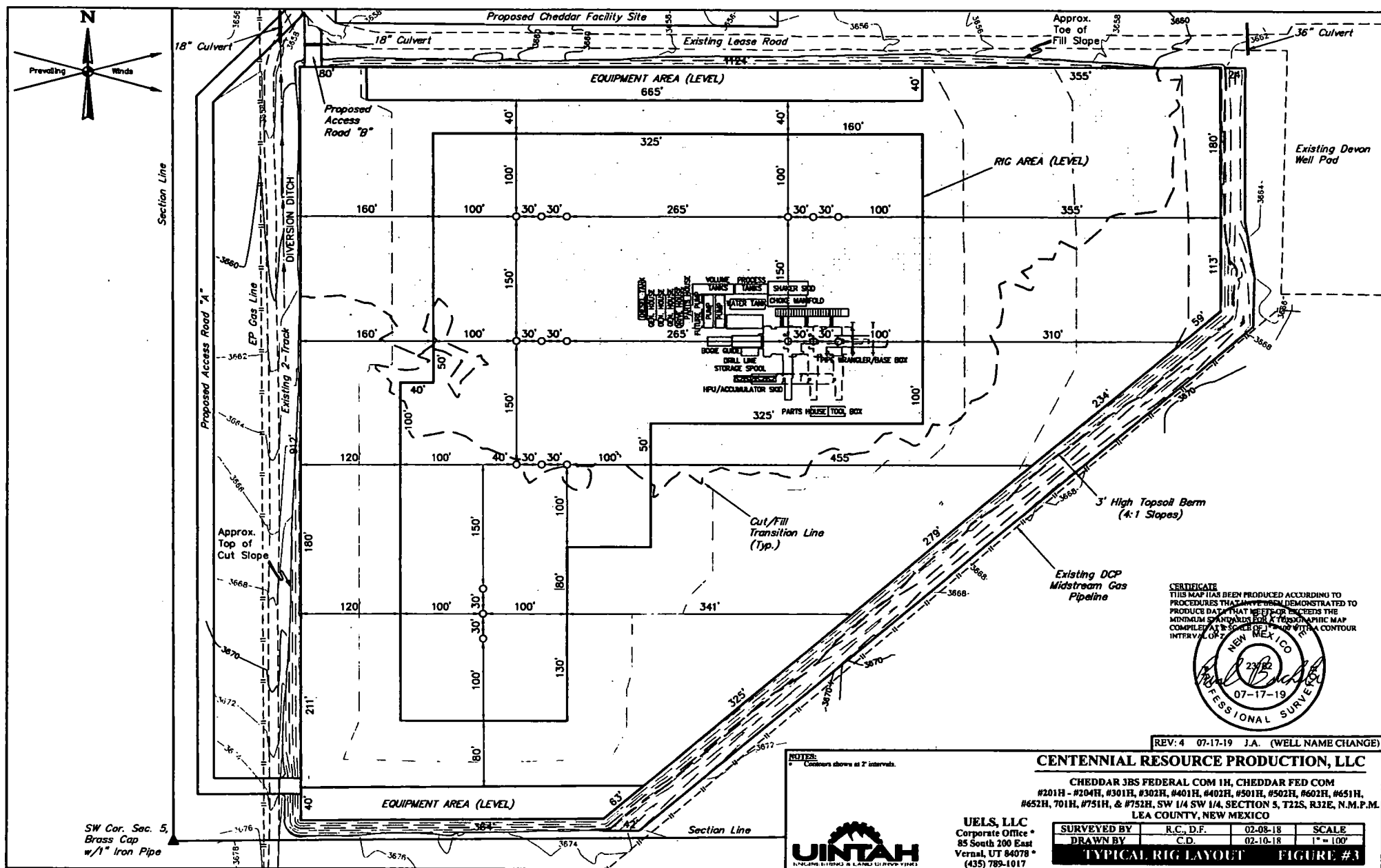
REV: 5 07-17-19 J.A. (WELL NAME CHANGE)

CENTENNIAL RESOURCE PRODUCTION, LLC

CHEDDAR 3BS FEDERAL COM 1H, CHEDDAR FED COM
#201H - #204H, #301H, #302H, #401H, #402H, #501H, #502H, #602H, #651H,
#652H, 701H, #751H, & #751H, SW 1/4 SW 1/4, SECTION 5, T22S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C. D.F.	02-08-18	SCALE
DRAWN BY	C.D.	02-10-18	1" = 100'

TYPICAL CROSS SECTIONS FIGURE #2



PROCEED IN A NORTHEASTLY, THEN EASTERLY DIRECTION FROM CARLSBAD, NEW MEXICO ALONG U.S. HIGHWAY 62 APPROXIMATELY 31.1 MILES TO THE JUNCTION OF THIS ROAD AND CAMPBELL ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 9.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN NORTHERLY, THEN EASTERLY DIRECTION APPROXIMATELY 1.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 1.3 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN AN SOUTHWESTERLY, THEN SOUTHERLY, THEN EASTERLY DIRECTION APPROXIMATELY 1,101' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM CARLSBAD, NEW MEXICO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 43.2 MILES.

REV: 3 07-17-19 J.A. (WELL NAME CHANGE)

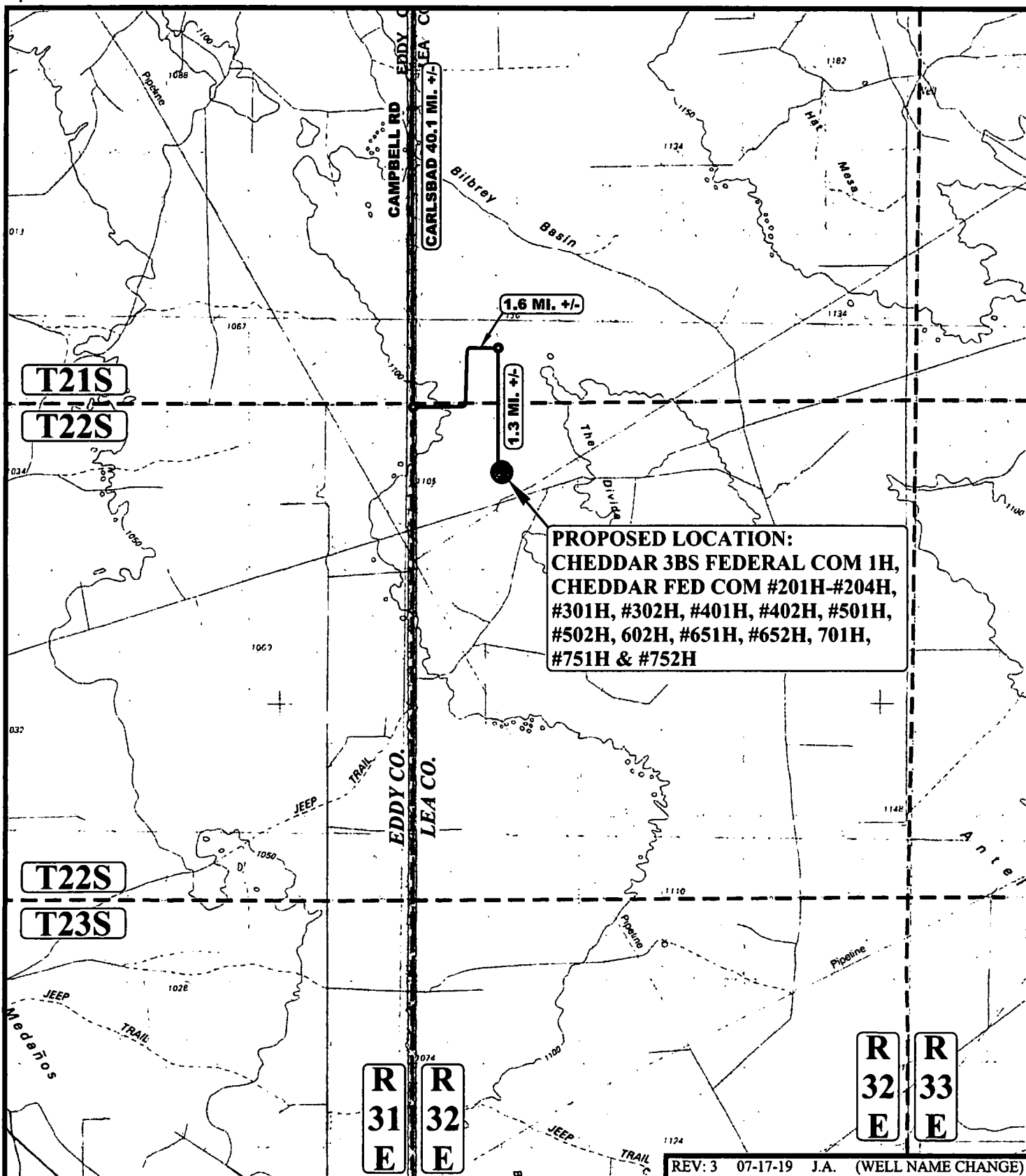
CENTENNIAL RESOURCE PRODUCTION, LLC

CHEDDAR 3BS FEDERAL COM 1H, CHEDDAR FED COM #201H - #204H, #301H, #302H, #401H, #402H, #501H, #502H, #602H, #651H, #652H, 701H, #751H, & #752H, SW 1/4 SW 1/4, SECTION 5, T22S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO



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

SURVEYED BY	R.C., D.F.	02-08-18	
DRAWN BY	J.A.	02-15-18	
ROAD DESCRIPTION			



LEGEND:



PROPOSED LOCATION



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

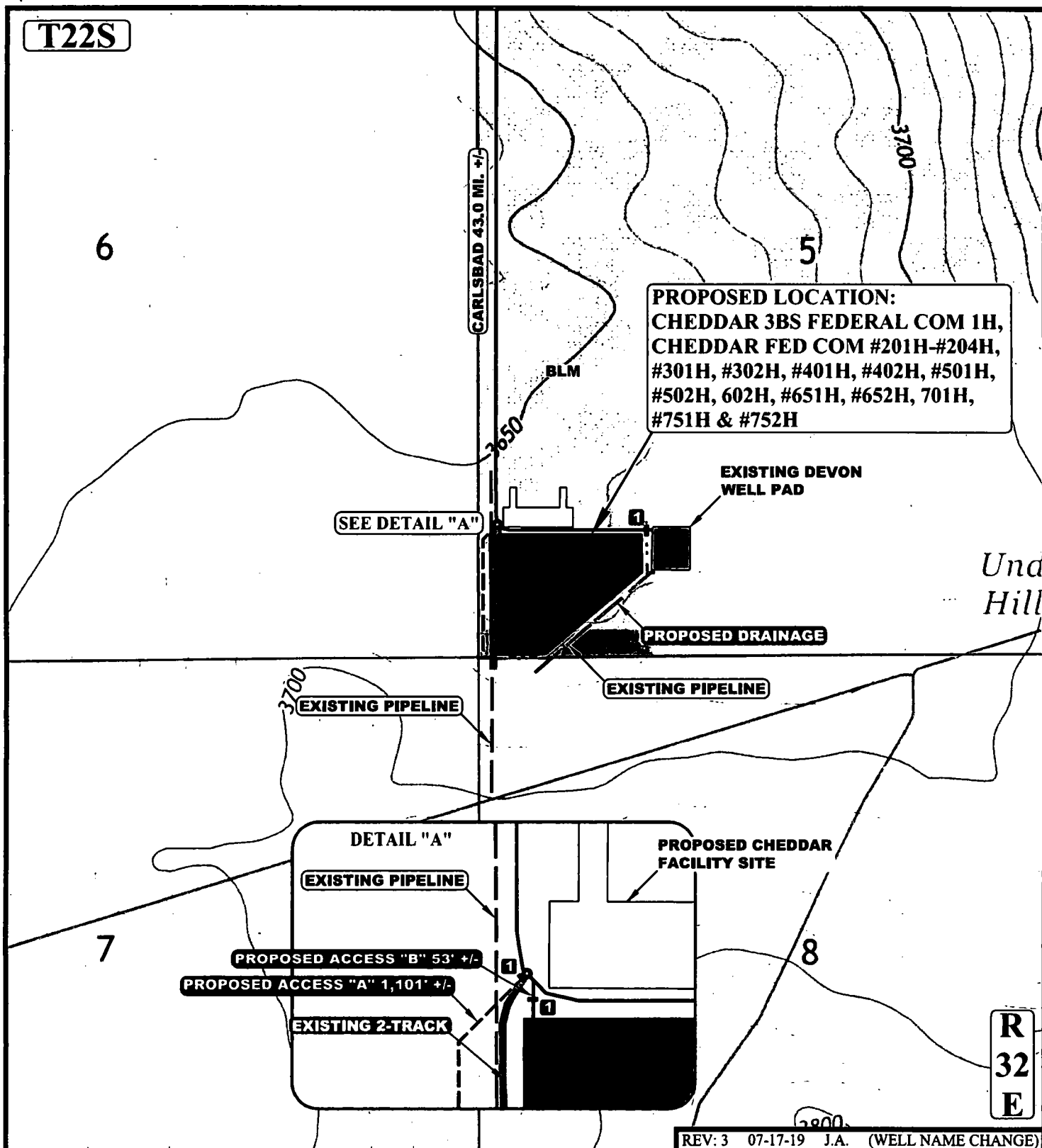


CENTENNIAL RESOURCE PRODUCTION, LLC

CHEDDAR 3BS FEDERAL COM 1H, CHEDDAR FED COM #201H - #204H,
 #301H, #302H, #401H, #402H, #501H, #502H, #602H, #651H, #652H, 701H,
 #751H, & #752H, SW 1/4 SW 1/4, SECTION 5, T22S, R32E, N.M.P.M.
 LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., D.F.	02-08-18	SCALE
DRAWN BY	J.A.	02-15-18	1 : 100,000
ACCESS ROAD MAP			TOPO A

T22S



NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

- EXISTING ROAD
- PROPOSED ROAD
- EXISTING 2-TRACK
- EXISTING PIPELINE
- PROPOSED DRAINAGE
- INSTALL 18" CULVERT



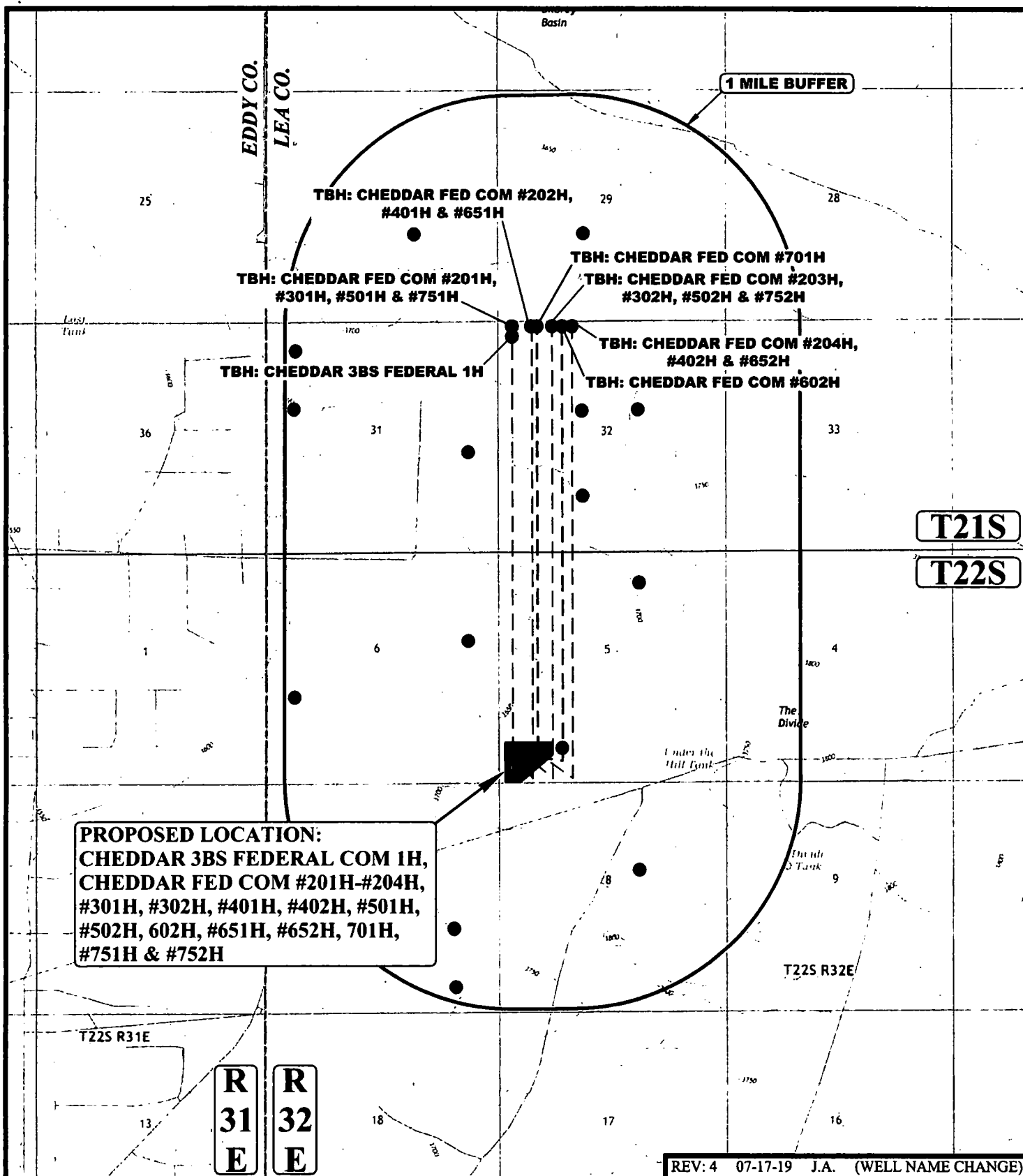
UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017



CENTENNIAL RESOURCE PRODUCTION, LLC

CHEDDAR 3BS FEDERAL COM 1H, CHEDDAR FED COM #201H - #204H,
#301H, #302H, #401H, #402H, #501H, #502H, #602H, #651H, #652H, 701H,
#751H, & #752H, SW 1/4 SW 1/4, SECTION 5, T22S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., D.F.	02-08-18	SCALE
DRAWN BY	J.A.	02-15-18	1 : 12,000
ACCESS ROAD MAP			TOPO B



PROPOSED LOCATION:
CHEDDAR 3BS FEDERAL COM 1H,
CHEDDAR FED COM #201H-#204H,
#301H, #302H, #401H, #402H, #501H,
#502H, 602H, #651H, #652H, 701H,
#751H & #752H

LEGEND:

● EXISTING WELLS



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



CENTENNIAL RESOURCE PRODUCTION, LLC

CHEDDAR 3BS FEDERAL COM 1H, CHEDDAR FED COM #201H - #204H,
#301H, #302H, #401H, #402H, #501H, #502H, #602H, #651H, #652H, 701H,
#751H, & #752H, SW 1/4 SW 1/4, SECTION 5, T22S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C. D.F.	02-08-18	SCALE
DRAWN BY	J.A.	02-15-18	1 : 36,000
WELL PROXIMITY MAP			TOPO C

REV: 4 07-17-19 J.A. (WELL NAME CHANGE)



NEW MEXICO

LEA

CHEDDAR

CHEDDAR FED COM 501H

CHEDDAR FED COM 501H

Plan: PWP0

Standard Survey Report

29 August, 2019

Company: NEW MEXICO
Project: LEA
Site: CHEDDAR
Well: CHEDDAR FED COM 501H
Wellbore: CHEDDAR FED COM 501H
Design: PWP0

Local Co-ordinate Reference: Well CHEDDAR FED COM 501H
TVD Reference: RKB=3665+25 @ 3690.0usft
MD Reference: RKB=3665+25 @ 3690.0usft
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Centennial EDM SQL Server

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	CHEDDAR		
Site Position:	Northings:	0.00 usft	Latitude: 0° 0' 0.000 N
From: Map	Easting:	97,504,799.39 usft	Longitude: 152° 28' 52.124 W
Position Uncertainty:	0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.00 °

Well	CHEDDAR FED COM 501H		
Well Position	+N-S	0.0 usft	Northings: 11,768,777.94 usft
	+E-W	0.0 usft	Easting: 2,040,247.57 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
			Ground Level: 3,665.0 usft

Wellbore	CHEDDAR FED COM 501H		
Magnetics	Model Name	Sample Date	Declination
	User Defined	10/26/2018	0.00
			Dip Angle
			0.00
			Field Strength
			0.00000000

Design	PWP0		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			359.32

Survey Tool Program	Date 3/4/2019		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
0.0	20,706.6	PWP0 (CHEDDAR FED COM 501H)	MWD+IFR1+MS
			Description
			OWSG_Rev2_ MWD + IFR1 + Multi-Station Correction

Planned Survey										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N-S	+E-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate	
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	



LGC Survey Report

Company: NEW MEXICO
Project: LEA
Site: CHEDDAR
Well: CHEDDAR FED COM 501H
Wellbore: CHEDDAR FED COM 501H
Design: PWP0

Local Co-ordinate Reference: Well CHEDDAR FED COM 501H
TVD Reference: RKB=3665+25 @ 3690.0usft
MD Reference: RKB=3665+25 @ 3690.0usft
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Centennial EDM SQL Server

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	1.00	197.10	5,100.0	-0.8	-0.3	-0.8	1.00	1.00	0.00
5,200.0	2.00	197.10	5,200.0	-3.3	-1.0	-3.3	1.00	1.00	0.00
5,300.0	3.00	197.10	5,299.9	-7.5	-2.3	-7.5	1.00	1.00	0.00

Company: NEW MEXICO
Project: LEA
Site: CHEDDAR
Well: CHEDDAR FED COM 501H
Wellbore: CHEDDAR FED COM 501H
Design: PWP0

Local Co-ordinate Reference: Well CHEDDAR FED COM 501H
TVD Reference: RKB=3665+25 @ 3690.0usft
MD Reference: RKB=3665+25 @ 3690.0usft
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Centennial EDM SQL Server

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.0	4.00	197.10	5,399.7	-13.3	-4.1	-13.3	1.00	1.00	0.00
5,500.0	5.00	197.10	5,499.4	-20.8	-6.4	-20.8	1.00	1.00	0.00
5,600.0	6.00	197.10	5,598.9	-30.0	-9.2	-29.9	1.00	1.00	0.00
5,700.0	6.00	197.10	5,698.4	-40.0	-12.3	-39.8	0.00	0.00	0.00
5,800.0	6.00	197.10	5,797.8	-50.0	-15.4	-49.8	0.00	0.00	0.00
5,900.0	6.00	197.10	5,897.3	-60.0	-18.4	-59.7	0.00	0.00	0.00
6,000.0	6.00	197.10	5,996.7	-70.0	-21.5	-69.7	0.00	0.00	0.00
6,100.0	6.00	197.10	6,096.2	-80.0	-24.6	-79.7	0.00	0.00	0.00
6,200.0	6.00	197.10	6,195.6	-89.9	-27.7	-89.6	0.00	0.00	0.00
6,300.0	6.00	197.10	6,295.1	-99.9	-30.7	-99.6	0.00	0.00	0.00
6,400.0	6.00	197.10	6,394.5	-109.9	-33.8	-109.5	0.00	0.00	0.00
6,500.0	6.00	197.10	6,494.0	-119.9	-36.9	-119.5	0.00	0.00	0.00
6,600.0	6.00	197.10	6,593.4	-129.9	-40.0	-129.4	0.00	0.00	0.00
6,700.0	6.00	197.10	6,692.9	-139.9	-43.0	-139.4	0.00	0.00	0.00
6,800.0	6.00	197.10	6,792.3	-149.9	-46.1	-149.3	0.00	0.00	0.00
6,900.0	6.00	197.10	6,891.8	-159.9	-49.2	-159.3	0.00	0.00	0.00
7,000.0	6.00	197.10	6,991.2	-169.9	-52.3	-169.2	0.00	0.00	0.00
7,100.0	6.00	197.10	7,090.7	-179.9	-55.3	-179.2	0.00	0.00	0.00
7,200.0	6.00	197.10	7,190.1	-189.9	-58.4	-189.1	0.00	0.00	0.00
7,300.0	6.00	197.10	7,289.6	-199.8	-61.5	-199.1	0.00	0.00	0.00
7,400.0	6.00	197.10	7,389.0	-209.8	-64.6	-209.0	0.00	0.00	0.00
7,500.0	6.00	197.10	7,488.5	-219.8	-67.6	-219.0	0.00	0.00	0.00
7,600.0	6.00	197.10	7,587.9	-229.8	-70.7	-229.0	0.00	0.00	0.00
7,700.0	6.00	197.10	7,687.4	-239.8	-73.8	-238.9	0.00	0.00	0.00
7,800.0	6.00	197.10	7,786.9	-249.8	-76.8	-248.9	0.00	0.00	0.00
7,900.0	6.00	197.10	7,886.3	-259.8	-79.9	-258.8	0.00	0.00	0.00
8,000.0	6.00	197.10	7,985.8	-269.8	-83.0	-268.8	0.00	0.00	0.00
8,100.0	6.00	197.10	8,085.2	-279.8	-86.1	-278.7	0.00	0.00	0.00
8,200.0	6.00	197.10	8,184.7	-289.8	-89.1	-288.7	0.00	0.00	0.00
8,300.0	6.00	197.10	8,284.1	-299.8	-92.2	-298.6	0.00	0.00	0.00
8,400.0	6.00	197.10	8,383.6	-309.7	-95.3	-308.6	0.00	0.00	0.00
8,500.0	6.00	197.10	8,483.0	-319.7	-98.4	-318.5	0.00	0.00	0.00
8,550.0	6.00	197.10	8,532.7	-324.7	-99.9	-323.5	0.00	0.00	0.00
8,600.0	5.50	197.10	8,582.5	-329.5	-101.4	-328.3	1.00	-1.00	0.00
8,700.0	4.50	197.10	8,682.1	-337.8	-103.9	-336.6	1.00	-1.00	0.00
8,800.0	3.50	197.10	8,781.9	-344.5	-106.0	-343.2	1.00	-1.00	0.00
8,900.0	2.50	197.10	8,881.7	-349.5	-107.5	-348.2	1.00	-1.00	0.00
9,000.0	1.50	197.10	8,981.7	-352.9	-108.6	-351.5	1.00	-1.00	0.00
9,100.0	0.50	197.10	9,081.6	-354.5	-109.1	-353.2	1.00	-1.00	0.00
9,150.0	0.00	0.00	9,131.6	-354.7	-109.1	-353.4	1.00	-1.00	0.00
9,200.0	0.00	0.00	9,181.6	-354.7	-109.1	-353.4	0.00	0.00	0.00
9,300.0	0.00	0.00	9,281.6	-354.7	-109.1	-353.4	0.00	0.00	0.00
9,400.0	0.00	0.00	9,381.6	-354.7	-109.1	-353.4	0.00	0.00	0.00



LGC
Survey Report

Company: NEW MEXICO
Project: LEA
Site: CHEDDAR
Well: CHEDDAR FED COM 501H
Wellbore: CHEDDAR FED COM 501H
Design: PWP0

Local Co-ordinate Reference: Well CHEDDAR FED COM 501H
TVD Reference: RKB=3665+25 @ 3690.0usft
MD Reference: RKB=3665+25 @ 3690.0usft
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Centennial EDM SQL Server

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,500.0	0.00	0.00	9,481.6	-354.7	-109.1	-353.4	0.00	0.00	0.00
9,600.0	0.00	0.00	9,581.6	-354.7	-109.1	-353.4	0.00	0.00	0.00
9,700.0	0.00	0.00	9,681.6	-354.7	-109.1	-353.4	0.00	0.00	0.00
9,800.0	0.00	0.00	9,781.6	-354.7	-109.1	-353.4	0.00	0.00	0.00
9,900.0	0.00	0.00	9,881.6	-354.7	-109.1	-353.4	0.00	0.00	0.00
10,000.0	0.00	0.00	9,981.6	-354.7	-109.1	-353.4	0.00	0.00	0.00
10,022.5	0.00	0.00	10,004.1	-354.7	-109.1	-353.4	0.00	0.00	0.00
10,100.0	7.75	359.17	10,081.4	-349.5	-109.2	-348.2	10.00	10.00	0.00
10,200.0	17.75	359.17	10,178.8	-327.4	-109.5	-326.1	10.00	10.00	0.00
10,300.0	27.76	359.17	10,270.9	-288.8	-110.1	-287.5	10.00	10.00	0.00
10,400.0	37.76	359.17	10,354.9	-234.8	-110.9	-233.5	10.00	10.00	0.00
10,500.0	47.76	359.17	10,428.2	-167.0	-111.8	-165.6	10.00	10.00	0.00
10,600.0	57.76	359.17	10,488.7	-87.5	-113.0	-86.1	10.00	10.00	0.00
10,700.0	67.76	359.17	10,534.4	1.3	-114.3	2.7	10.00	10.00	0.00
10,800.0	77.76	359.17	10,564.0	96.7	-115.7	98.0	10.00	10.00	0.00
10,900.0	87.77	359.17	10,576.6	195.7	-117.1	197.1	10.00	10.00	0.00
10,922.3	90.00	359.17	10,577.0	218.1	-117.4	218.5	10.00	10.00	0.00
11,000.0	90.00	359.19	10,577.0	295.7	-118.5	297.1	0.02	0.00	0.02
11,100.0	90.00	359.21	10,577.0	395.7	-119.9	397.1	0.02	0.00	0.02
11,200.0	90.00	359.24	10,577.0	495.7	-121.3	497.1	0.02	0.00	0.02
11,300.0	90.00	359.26	10,577.0	595.7	-122.6	597.1	0.02	0.00	0.02
11,400.0	90.00	359.28	10,577.0	695.7	-123.9	697.1	0.02	0.00	0.02
11,500.0	90.00	359.31	10,577.0	795.7	-125.1	797.1	0.02	0.00	0.02
11,600.0	90.00	359.33	10,577.0	895.7	-126.3	897.1	0.02	0.00	0.02
11,700.0	90.00	359.35	10,577.0	995.7	-127.4	997.1	0.02	0.00	0.02
11,800.0	90.00	359.38	10,577.0	1,095.7	-128.6	1,097.1	0.02	0.00	0.02
11,900.0	90.00	359.40	10,577.0	1,195.7	-129.6	1,197.1	0.02	0.00	0.02
12,000.0	90.00	359.42	10,577.0	1,295.6	-130.7	1,297.1	0.02	0.00	0.02
12,100.0	90.00	359.45	10,577.0	1,395.6	-131.6	1,397.1	0.02	0.00	0.02
12,200.0	90.00	359.47	10,577.0	1,495.6	-132.6	1,497.1	0.02	0.00	0.02
12,300.0	90.00	359.49	10,577.0	1,595.6	-133.5	1,597.1	0.02	0.00	0.02
12,400.0	90.00	359.52	10,577.0	1,695.6	-134.3	1,697.1	0.02	0.00	0.02
12,500.0	90.00	359.54	10,577.0	1,795.6	-135.2	1,797.1	0.02	0.00	0.02
12,600.0	90.00	359.57	10,577.0	1,895.6	-135.9	1,897.1	0.02	0.00	0.02
12,700.0	90.00	359.59	10,577.0	1,995.6	-136.7	1,997.1	0.02	0.00	0.02
12,800.0	90.00	359.61	10,577.0	2,095.6	-137.4	2,097.1	0.02	0.00	0.02
12,900.0	90.00	359.64	10,577.0	2,195.6	-138.0	2,197.1	0.02	0.00	0.02
13,000.0	90.00	359.66	10,577.0	2,295.6	-138.7	2,297.1	0.02	0.00	0.02
13,100.0	90.00	359.68	10,577.0	2,395.6	-139.2	2,397.1	0.02	0.00	0.02
13,200.0	90.00	359.71	10,577.0	2,495.6	-139.8	2,497.1	0.02	0.00	0.02
13,300.0	90.00	359.73	10,577.0	2,595.6	-140.3	2,597.1	0.02	0.00	0.02
13,400.0	90.00	359.75	10,577.0	2,695.6	-140.7	2,697.1	0.02	0.00	0.02
13,500.0	90.00	359.78	10,577.0	2,795.6	-141.1	2,797.1	0.02	0.00	0.02



LGC Survey Report

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Design: PWP0

Local Co-ordinate Reference: Well CHEDDAR FED COM 501H
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North Reference: True
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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,600.0	90.00	359.80	10,577.0	2,895.6	-141.5	2,897.1	0.02	0.00	0.02
13,700.0	90.00	359.82	10,577.0	2,995.6	-141.8	2,997.1	0.02	0.00	0.02
13,800.0	90.00	359.85	10,577.0	3,095.6	-142.1	3,097.1	0.02	0.00	0.02
13,900.0	90.00	359.87	10,577.0	3,195.6	-142.3	3,197.1	0.02	0.00	0.02
14,000.0	90.00	359.89	10,577.0	3,295.6	-142.5	3,297.1	0.02	0.00	0.02
14,100.0	90.00	359.92	10,577.0	3,395.6	-142.7	3,397.1	0.02	0.00	0.02
14,200.0	90.00	359.94	10,577.0	3,495.6	-142.8	3,497.1	0.02	0.00	0.02
14,300.0	90.00	359.97	10,577.0	3,595.6	-142.9	3,597.1	0.02	0.00	0.02
14,400.0	90.00	359.99	10,577.0	3,695.6	-143.0	3,697.1	0.02	0.00	0.02
14,500.0	90.00	0.01	10,577.0	3,795.6	-143.0	3,797.0	0.02	0.00	0.02
14,600.0	90.00	0.04	10,577.0	3,895.6	-142.9	3,897.0	0.02	0.00	0.02
14,700.0	90.00	0.06	10,577.0	3,995.6	-142.8	3,997.0	0.02	0.00	0.02
14,800.0	90.00	0.08	10,577.0	4,095.6	-142.7	4,097.0	0.02	0.00	0.02
14,900.0	90.00	0.11	10,577.0	4,195.6	-142.5	4,197.0	0.02	0.00	0.02
15,000.0	90.00	0.13	10,577.0	4,295.6	-142.3	4,297.0	0.02	0.00	0.02
15,100.0	90.00	0.15	10,577.0	4,395.6	-142.1	4,397.0	0.02	0.00	0.02
15,200.0	90.00	0.18	10,577.0	4,495.6	-141.8	4,497.0	0.02	0.00	0.02
15,300.0	90.00	0.20	10,577.0	4,595.6	-141.5	4,597.0	0.02	0.00	0.02
15,400.0	90.00	0.22	10,577.0	4,695.6	-141.1	4,697.0	0.02	0.00	0.02
15,444.3	90.00	0.23	10,577.0	4,739.9	-140.9	4,741.3	0.02	0.00	0.02
15,500.0	90.00	0.23	10,577.0	4,795.6	-140.7	4,796.9	0.00	0.00	0.00
15,600.0	90.00	0.23	10,577.0	4,895.6	-140.3	4,896.9	0.00	0.00	0.00
15,700.0	90.00	0.23	10,577.0	4,995.6	-139.9	4,996.9	0.00	0.00	0.00
15,800.0	90.00	0.23	10,577.0	5,095.6	-139.5	5,096.9	0.00	0.00	0.00
15,900.0	90.00	0.23	10,577.0	5,195.6	-139.1	5,196.9	0.00	0.00	0.00
16,000.0	90.00	0.23	10,577.0	5,295.6	-138.6	5,296.9	0.00	0.00	0.00
16,100.0	90.00	0.23	10,577.0	5,395.6	-138.2	5,396.9	0.00	0.00	0.00
16,200.0	90.00	0.23	10,577.0	5,495.6	-137.8	5,496.9	0.00	0.00	0.00
16,300.0	90.00	0.23	10,577.0	5,595.6	-137.4	5,596.8	0.00	0.00	0.00
16,400.0	90.00	0.23	10,577.0	5,695.6	-137.0	5,696.8	0.00	0.00	0.00
16,500.0	90.00	0.23	10,577.0	5,795.6	-136.6	5,796.8	0.00	0.00	0.00
16,600.0	90.00	0.23	10,577.0	5,895.6	-136.2	5,896.8	0.00	0.00	0.00
16,700.0	90.00	0.23	10,577.0	5,995.6	-135.8	5,996.8	0.00	0.00	0.00
16,800.0	90.00	0.23	10,577.0	6,095.6	-135.4	6,096.8	0.00	0.00	0.00
16,900.0	90.00	0.23	10,577.0	6,195.6	-135.0	6,196.8	0.00	0.00	0.00
17,000.0	90.00	0.23	10,577.0	6,295.6	-134.5	6,296.7	0.00	0.00	0.00
17,100.0	90.00	0.23	10,577.0	6,395.6	-134.1	6,396.7	0.00	0.00	0.00
17,200.0	90.00	0.23	10,577.0	6,495.6	-133.7	6,496.7	0.00	0.00	0.00
17,300.0	90.00	0.23	10,577.0	6,595.6	-133.3	6,596.7	0.00	0.00	0.00
17,400.0	90.00	0.23	10,577.0	6,695.6	-132.9	6,696.7	0.00	0.00	0.00
17,500.0	90.00	0.23	10,577.0	6,795.6	-132.5	6,796.7	0.00	0.00	0.00
17,600.0	90.00	0.23	10,577.0	6,895.6	-132.1	6,896.7	0.00	0.00	0.00
17,700.0	90.00	0.23	10,577.0	6,995.6	-131.7	6,996.7	0.00	0.00	0.00
17,800.0	90.00	0.23	10,577.0	7,095.6	-131.3	7,096.6	0.00	0.00	0.00

Company: NEW MEXICO
Project: LEA
Site: CHEDDAR
Well: CHEDDAR FED COM 501H
Wellbore: CHEDDAR FED COM 501H
Design: PWP0

Local Co-ordinate Reference: Well CHEDDAR FED COM 501H
TVD Reference: RKB=3665+25 @ 3690.0usft
MD Reference: RKB=3665+25 @ 3690.0usft
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Centennial EDM SQL Server

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,900.0	90.00	0.23	10,577.0	7,195.6	-130.9	7,196.6	0.00	0.00	0.00
18,000.0	90.00	0.23	10,577.0	7,295.6	-130.5	7,296.6	0.00	0.00	0.00
18,100.0	90.00	0.23	10,577.0	7,395.6	-130.0	7,396.6	0.00	0.00	0.00
18,200.0	90.00	0.23	10,577.0	7,495.6	-129.6	7,496.6	0.00	0.00	0.00
18,300.0	90.00	0.23	10,577.0	7,595.6	-129.2	7,596.6	0.00	0.00	0.00
18,400.0	90.00	0.23	10,577.0	7,695.6	-128.8	7,696.6	0.00	0.00	0.00
18,500.0	90.00	0.23	10,577.0	7,795.6	-128.4	7,796.6	0.00	0.00	0.00
18,600.0	90.00	0.23	10,577.0	7,895.6	-128.0	7,896.5	0.00	0.00	0.00
18,700.0	90.00	0.23	10,577.0	7,995.6	-127.6	7,996.5	0.00	0.00	0.00
18,800.0	90.00	0.23	10,577.0	8,095.6	-127.2	8,096.5	0.00	0.00	0.00
18,900.0	90.00	0.23	10,577.0	8,195.6	-126.8	8,196.5	0.00	0.00	0.00
19,000.0	90.00	0.23	10,577.0	8,295.6	-126.4	8,296.5	0.00	0.00	0.00
19,100.0	90.00	0.23	10,577.0	8,395.6	-125.9	8,396.5	0.00	0.00	0.00
19,200.0	90.00	0.23	10,577.0	8,495.6	-125.5	8,496.5	0.00	0.00	0.00
19,300.0	90.00	0.23	10,577.0	8,595.6	-125.1	8,596.5	0.00	0.00	0.00
19,400.0	90.00	0.23	10,577.0	8,695.6	-124.7	8,696.4	0.00	0.00	0.00
19,500.0	90.00	0.23	10,577.0	8,795.6	-124.3	8,796.4	0.00	0.00	0.00
19,600.0	90.00	0.23	10,577.0	8,895.6	-123.9	8,896.4	0.00	0.00	0.00
19,700.0	90.00	0.23	10,577.0	8,995.6	-123.5	8,996.4	0.00	0.00	0.00
19,800.0	90.00	0.23	10,577.0	9,095.6	-123.1	9,096.4	0.00	0.00	0.00
19,900.0	90.00	0.23	10,577.0	9,195.6	-122.7	9,196.4	0.00	0.00	0.00
20,000.0	90.00	0.23	10,577.0	9,295.6	-122.3	9,296.4	0.00	0.00	0.00
20,100.0	90.00	0.23	10,577.0	9,395.6	-121.8	9,396.4	0.00	0.00	0.00
20,200.0	90.00	0.23	10,577.0	9,495.6	-121.4	9,496.3	0.00	0.00	0.00
20,300.0	90.00	0.23	10,577.0	9,595.6	-121.0	9,596.3	0.00	0.00	0.00
20,400.0	90.00	0.23	10,577.0	9,695.6	-120.6	9,696.3	0.00	0.00	0.00
20,500.0	90.00	0.23	10,577.0	9,795.6	-120.2	9,796.3	0.00	0.00	0.00
20,600.0	90.00	0.23	10,577.0	9,895.6	-119.8	9,896.3	0.00	0.00	0.00
20,700.0	90.00	0.23	10,577.0	9,995.6	-119.4	9,996.3	0.00	0.00	0.00
20,707.0	90.00	0.23	10,577.0	10,002.6	-119.4	10,003.3	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP - CHEDDAR 2BS F	0.00	0.00	10,577.0	-354.0	-109.6	11,768,422.63	2,040,142.26	32° 24' 49.033 N	103° 42' 15.520 W
- hit/miss target									
- Shape									
- plan misses target center by 237.0usft at 10482.2usft MD (10416.1 TVD, -180.0 N, -111.7 E)									
- Circle (radius 50.0)									
LTP/BHL - CHEDDAR 2I	0.00	0.00	10,577.0	10,002.6	-119.4	11,778,778.32	2,040,006.91	32° 26' 31.532 N	103° 42' 15.633 W
- hit/miss target									
- Shape									
- plan hits target center									
- Point									



LGC
Survey Report

Company: NEW MEXICO
Project: LEA
Site: CHEDDAR
Well: CHEDDAR FED COM 501H
Wellbore: CHEDDAR FED COM 501H
Design: PWP0

Local Co-ordinate Reference: Well CHEDDAR FED COM 501H
TVD Reference: RKB=3665+25 @ 3690.0usft
MD Reference: RKB=3665+25 @ 3690.0usft
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Centennial EDM SQL Server

Checked By: _____	Approved By: _____	Date: _____
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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 Rancho Road, Arice, 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

Current

WELL LOCATION AND ACREAGE DEDICATION PLAT

* API Number 30-025-44861		* Pool Code 5695	* Pool Name Bilbrey Basin/Bone Spring
* Property Code 321456	* Property Name CHEDDAR 2BS FEDERAL COM		* Well Number 1H
* UCRID No. 372165	* Operator Name CENTENNIAL RESOURCE PRODUCTION, LLC		* Elevation 3665.1'

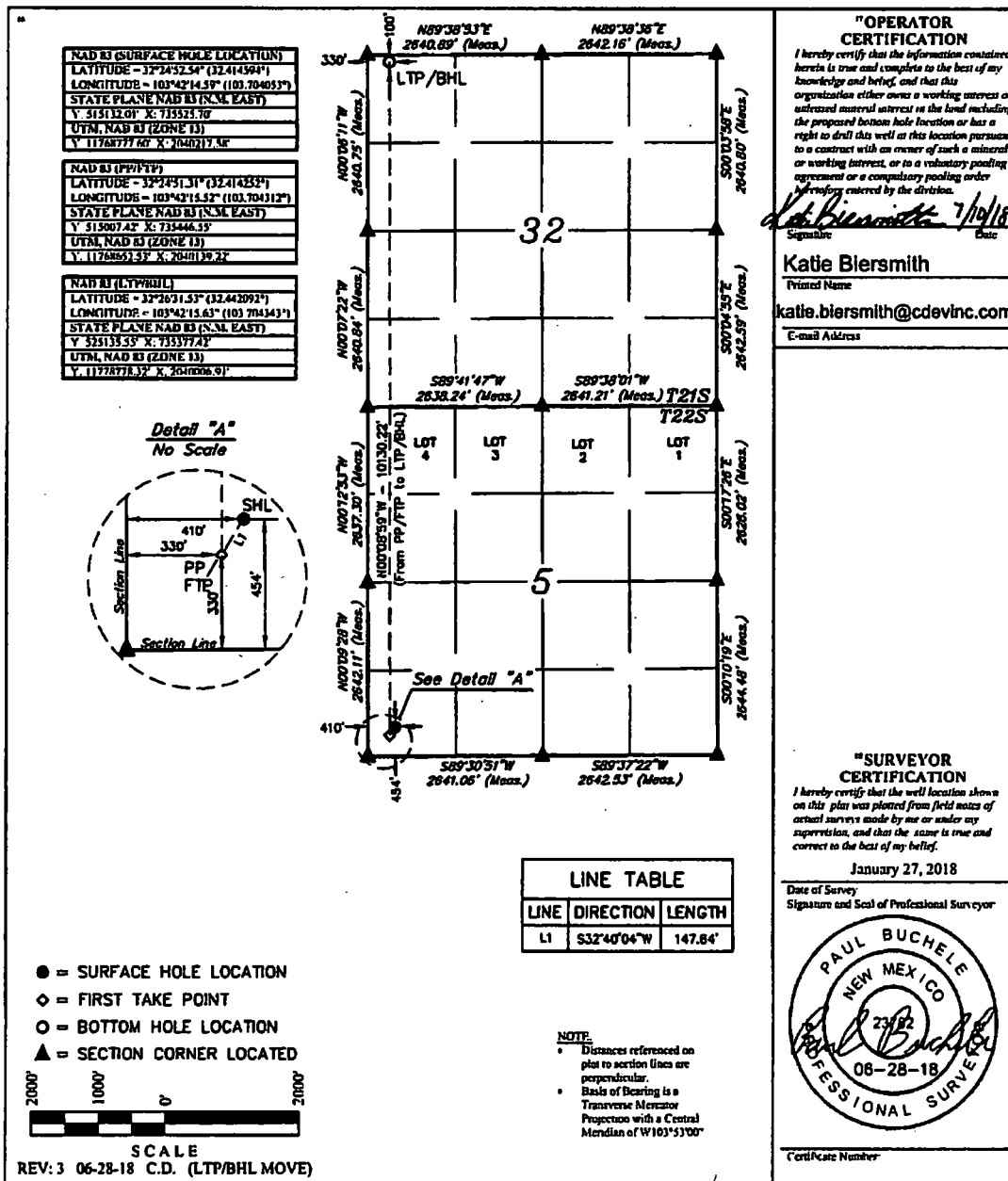
* Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
M	5	22S	32E		454	SOUTH	410	WEST	LEA

* Bottom Hole Location If Different From Surface

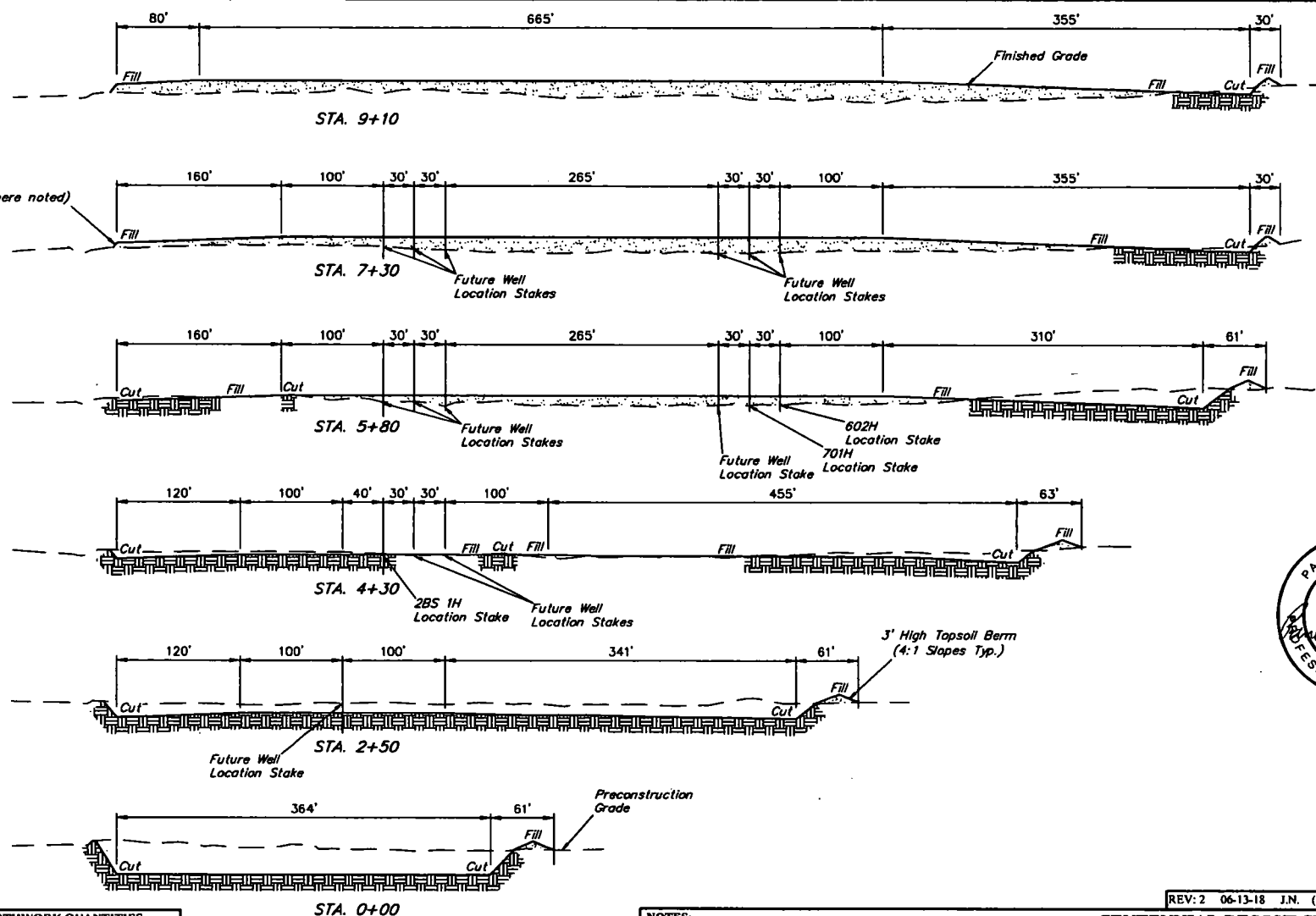
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
D	32	21S	32E		100	NORTH	330	WEST	LEA
* Dedicated Acres 319.68		* Joint or Infill		* Consolidation Code		* Order No.			

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.



REV: 3 06-28-18 C.D. (LTP/BHL MOVE)

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



APPROXIMATE EARTHWORK QUANTITIES	
TOPSOIL STRIPPING	2,020 Cu. Yds.
REMAINING LOCATION	58,720 Cu. Yds.
TOTAL CUT	60,740 Cu. Yds.
FILL	58,720 Cu. Yds.
EXCESS MATERIAL	2,020 Cu. Yds.
TOPSOIL	2,020 Cu. Yds.
EXCESS UNBALANCE (After Insertion Rehabilitation)	0 Cu. Yds.

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	ACRES
WELL SITE DISTURBANCE	NA	±19.438
65' WIDE ACCESS ROAD R-O-W "A" DISTURBANCE	±1100.91'	±1.643
65' WIDE ACCESS ROAD R-O-W "B" DISTURBANCE	±53.16'	±0.079
TOTAL SURFACE USE AREA		±21.160

NOTES:

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



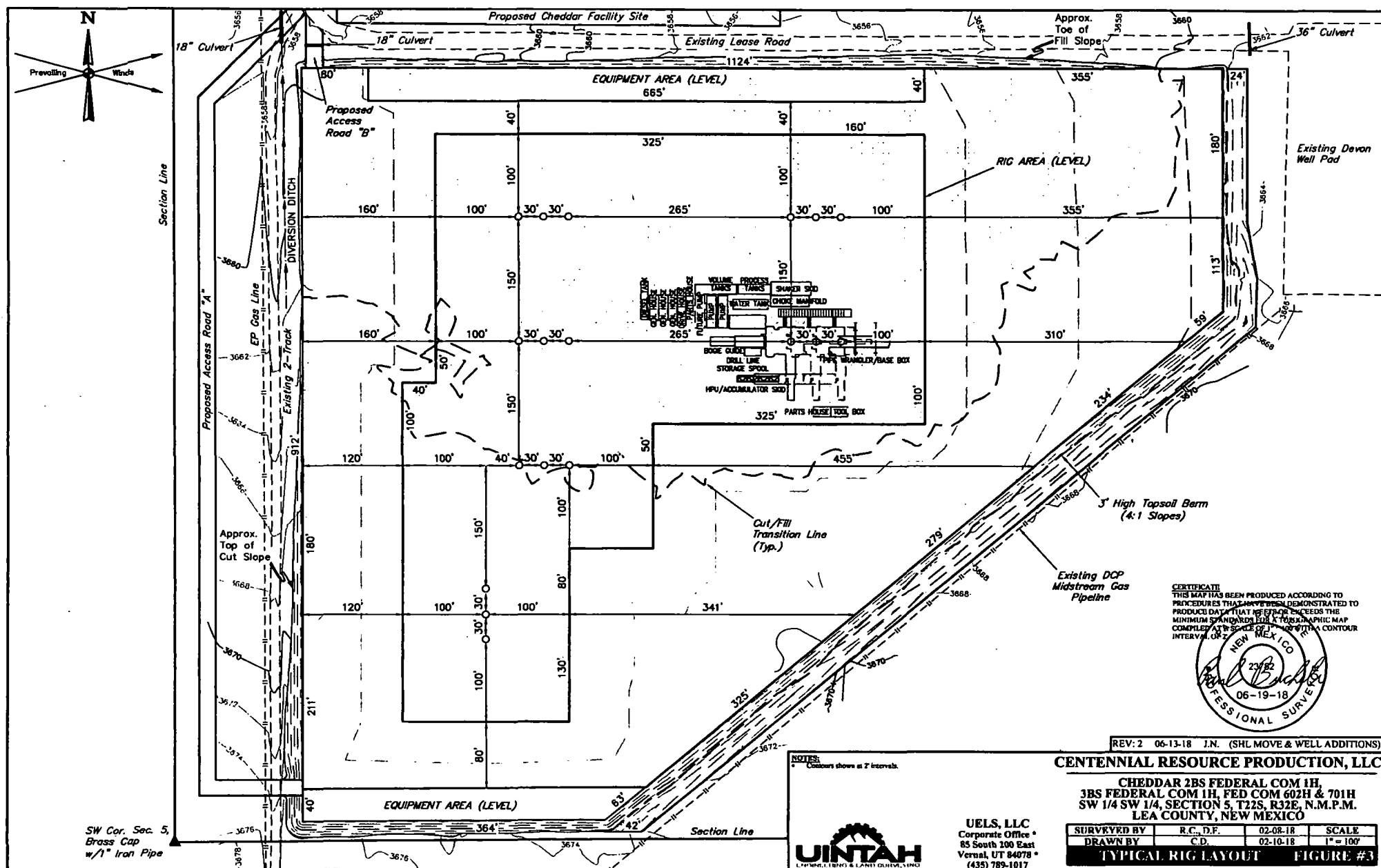
UELS, LLC
Regional Office * 111 NE 3rd Street
Seminole, TX 79360 * (432) 955-6100
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

REV: 2 06-13-18 J.N. (SHL MOVE & WELL ADDITIONS)

CENTENNIAL RESOURCE PRODUCTION, LLC

**CHEDDAR 2BS FEDERAL COM 1H,
3BS FEDERAL COM 1H, FED COM 602H & 701H
SW 1/4 SW 1/4, SECTION 5, T22S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO**

SURVEYED BY	R.C. D.F.	02-08-18	SCALE
DRAWN BY	C.D.	02-10-18	AS SHOWN
TYPICAL CROSS SECTIONS FIGURE #2			



PROCEED IN A NORTHEASTLY, THEN EASTERLY DIRECTION FROM CARLSBAD, NEW MEXICO ALONG U.S. HIGHWAY 62 APPROXIMATELY 31.1 MILES TO THE JUNCTION OF THIS ROAD AND CAMPBELL ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 9.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN NORTHERLY, THEN EASTERLY DIRECTION APPROXIMATELY 1.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 1.3 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN AN SOUTHWESTERLY, THEN SOUTHERLY, THEN EASTERLY DIRECTION APPROXIMATELY 1,101' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM CARLSBAD, NEW MEXICO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 43.2 MILES.

REV: 1 06-18-18 J.A. (SHL MOVE & ADDED WELLS)

CENTENNIAL RESOURCE PRODUCTION, LLC

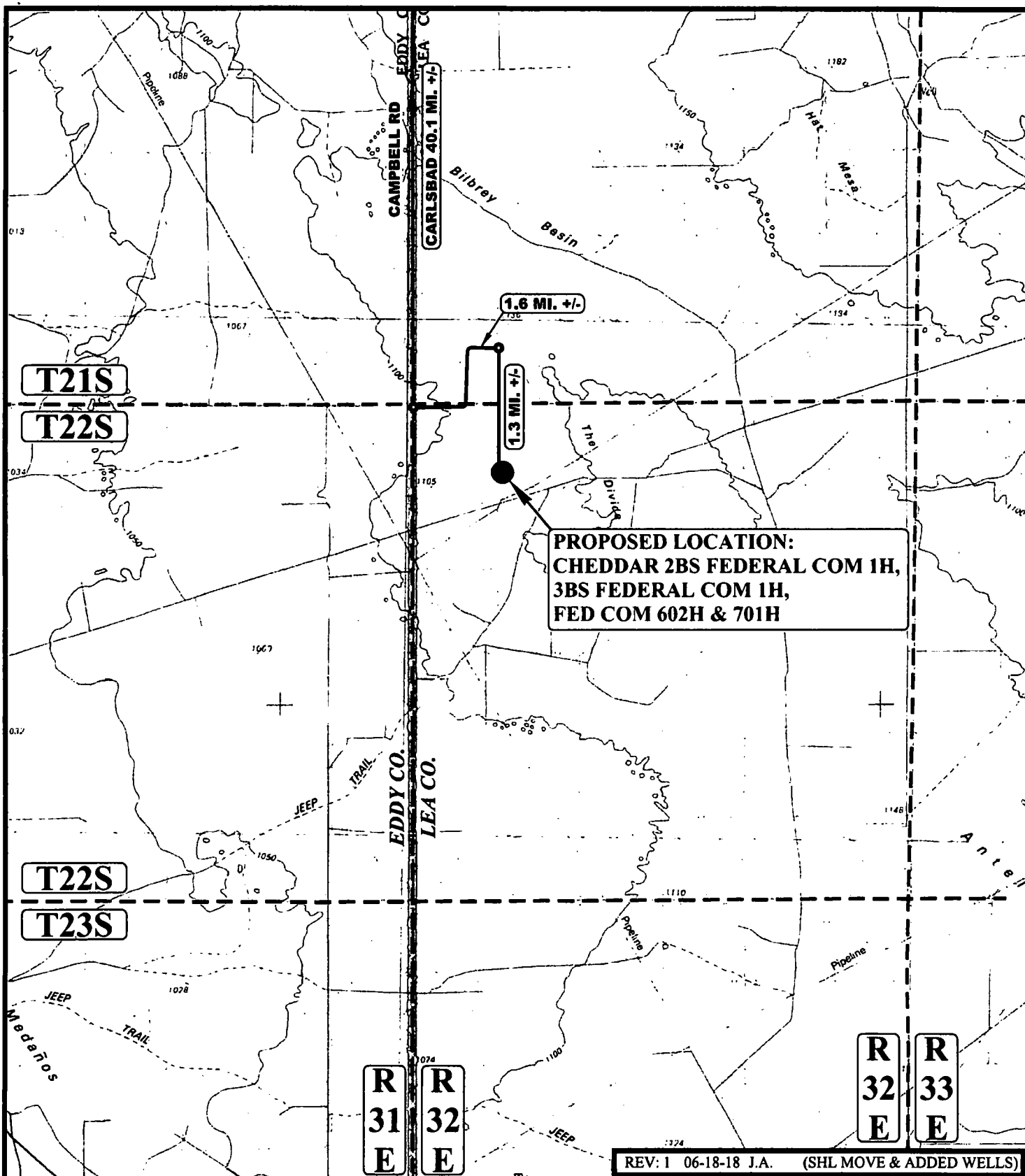
**CHEDDAR 2BS FEDERAL COM 1H,
3BS FEDERAL COM 1H, FED COM 602H & 701H
SW 1/4 SW 1/4, SECTION 5, T22S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO**

SURVEYED BY	R.C., D.F.	02-08-18	
DRAWN BY	J.A.	02-15-18	
ROAD DESCRIPTION			



UELS, LLC

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



REV: 1 06-18-18 J.A. (SHL MOVE & ADDED WELLS)

LEGEND:



PROPOSED LOCATION



CENTENNIAL RESOURCE PRODUCTION, LLC

**CHEDDAR 2BS FEDERAL COM 1H,
3BS FEDERAL COM 1H, FED COM 602H & 701H
SW 1/4 SW 1/4, SECTION 5, T22S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO**

SURVEYED BY	R.C. D.F.	02-08-18	SCALE
DRAWN BY	J.A.	02-15-18	1:100,000

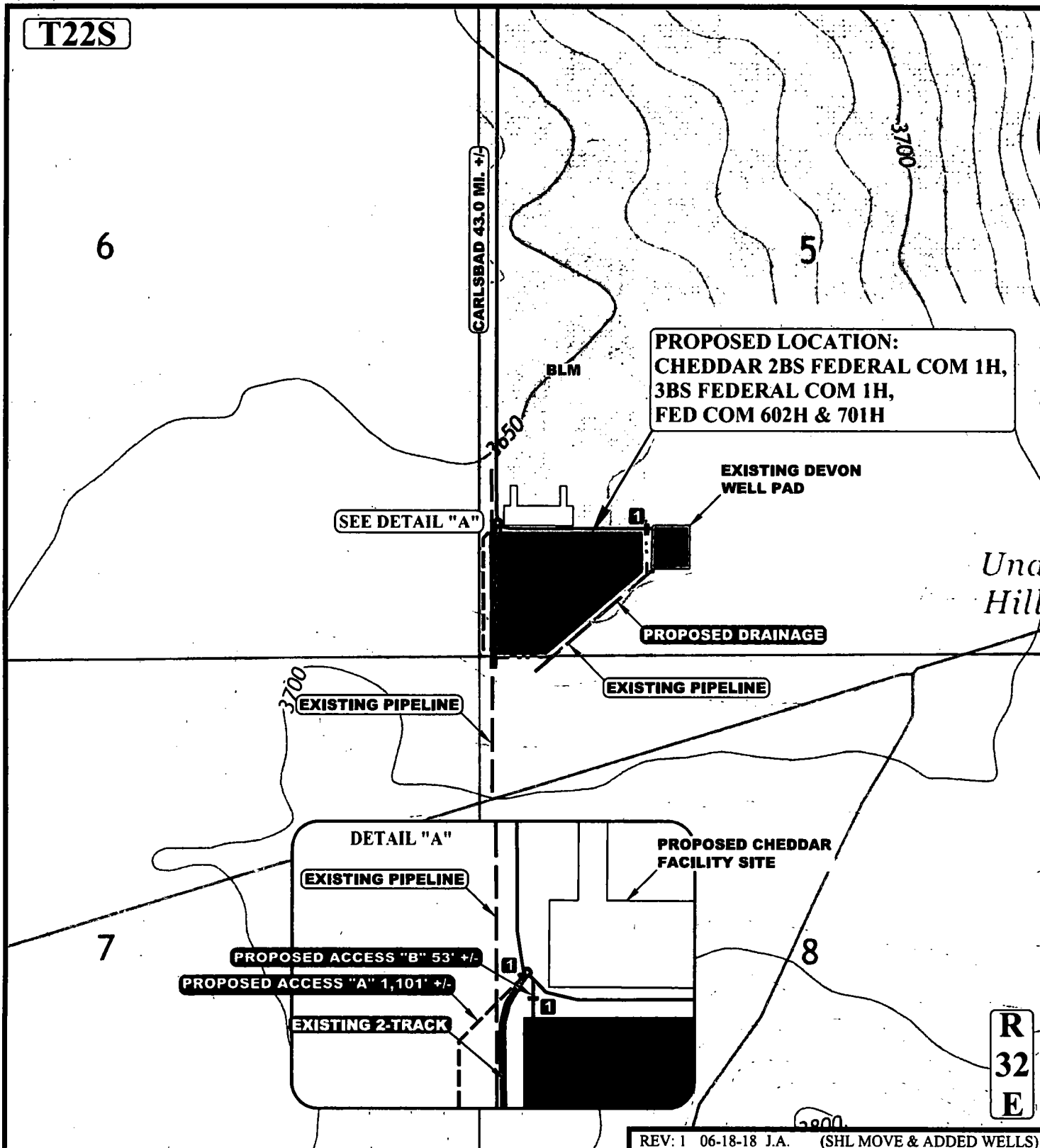
ACCESS ROAD MAP

TOPO A



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

T22S



REV: 1 06-18-18 J.A. (SHL MOVE & ADDED WELLS)

NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

- EXISTING ROAD
- PROPOSED ROAD
- EXISTING 2-TRACK
- EXISTING PIPELINE
- PROPOSED DRAINAGE
- INSTALL 18" CULVERT



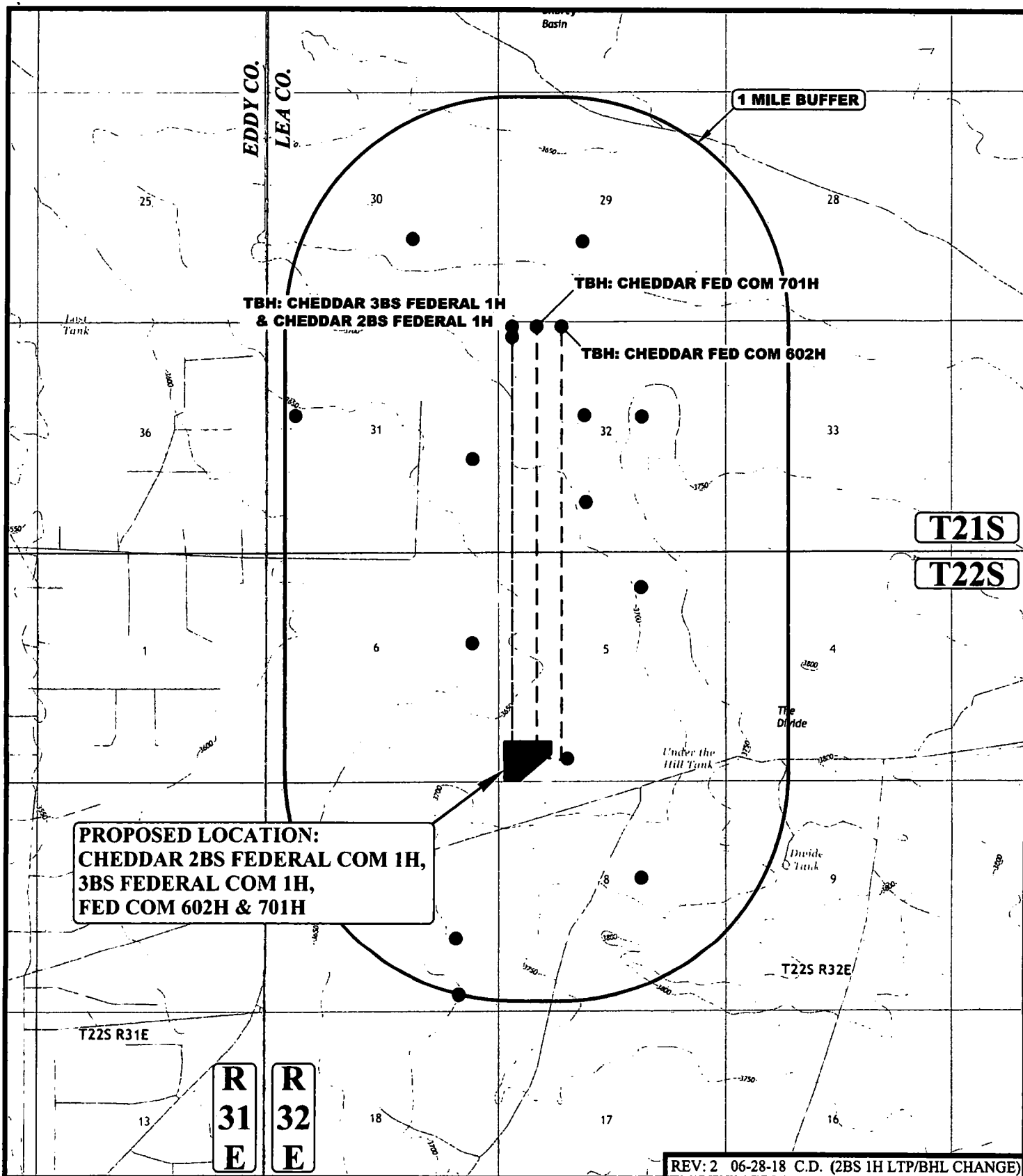
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



CENTENNIAL RESOURCE PRODUCTION, LLC

**CHEDDAR 2BS FEDERAL COM 1H,
3BS FEDERAL COM 1H, FED COM 602H & 701H
SW 1/4 SW 1/4, SECTION 5, T22S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO**

SURVEYED BY	R.C., D.F.	02-08-18	SCALE
DRAWN BY	J.A.	02-15-18	1:12,000
ACCESS ROAD MAP			TOPO B



LEGEND:

- EXISTING WELLS



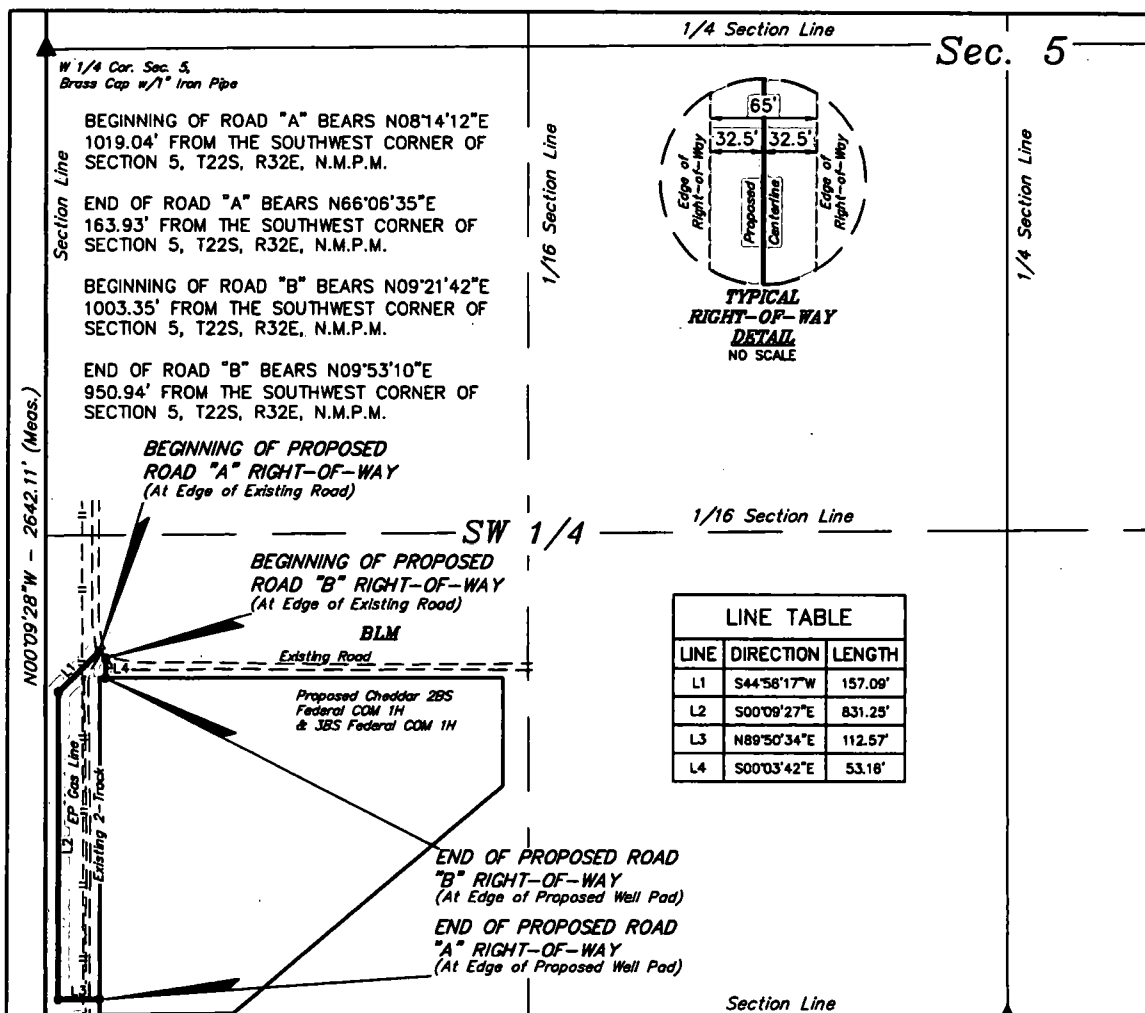
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



CENTENNIAL RESOURCE PRODUCTION, LLC

**CHEDDAR 2BS FEDERAL COM 1H,
3BS FEDERAL COM 1H, FED COM 602H & 701H
SW 1/4 SW 1/4, SECTION 5, T22S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO**

SURVEYED BY	R.C., D.F.	02-08-18	SCALE
DRAWN BY	J.A.	02-15-18	1 : 36,000
WELL PROXIMITY MAP			TOPO C



ROAD "A" RIGHT-OF-WAY DESCRIPTION

A 65' WIDE RIGHT-OF-WAY 32.5' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE SW 1/4 SW 1/4 OF SECTION 5, T22S, R32E, N.M.P.M., WHICH BEARS N08°14'12"E 1019.04' FROM THE SOUTHWEST CORNER OF SAID SECTION 5, THENCE S44°56'17"W 157.09'; THENCE S00°09'27"E 831.25'; THENCE N89°50'34"E 112.57' TO A POINT IN THE SW 1/4 SW 1/4 OF SAID SECTION 5, WHICH BEARS N66°06'35"E 163.93' FROM THE SOUTHWEST CORNER OF SAID SECTION 5. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A TRANSVERSE MERCATOR PROJECTION WITH A CENTRAL MERIDIAN OF W103°53'00". CONTAINS 1.643 ACRES MORE OR LESS.

ROAD "B" RIGHT-OF-WAY DESCRIPTION

A 65' WIDE RIGHT-OF-WAY 32.5' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE SW 1/4 SW 1/4 OF SECTION 5, T22S, R32E, N.M.P.M., WHICH BEARS N09°21'42"E 1003.35' FROM THE SOUTHWEST CORNER OF SAID SECTION 5, THENCE S00°03'42"E 53.16' TO A POINT IN THE SW 1/4 SW 1/4 OF SAID SECTION 5, WHICH BEARS N09°53'10"E 950.94' FROM THE SOUTHWEST CORNER OF SAID SECTION 5. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A TRANSVERSE MERCATOR PROJECTION WITH A CENTRAL MERIDIAN OF W103°53'00". CONTAINS 0.079 ACRES MORE OR LESS.



ACREAGE / LENGTH TABLE - "A"				
	OWNERSHIP	FEET	RODS	ACRES
SEC. 5 (SW 1/4)	BLM	1100.91	66.72	1.643

ACREAGE / LENGTH TABLE - "B"				
	OWNERSHIP	FEET	RODS	ACRES
SEC. 5 (SW 1/4)	BLM	53.16	3.22	0.079

▲ = SECTION CORNERS LOCATED.

NOTES:

- The maximum grade of existing ground for the proposed access road "A" is ±4.04%.
- The maximum grade of existing ground for the proposed access road "B" is ±2.16%.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00"



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



N CENTENNIAL RESOURCE PRODUCTION, LLC

**CHEDDAR 2BS FEDERAL COM 1H,
3BS FEDERAL COM 1H, FED COM 602H & 701H
SECTION 5, T22S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO**

SURVEYED BY	R.C., D.F.	02-08-18	SCALE
DRAWN BY	C.D.	02-13-18	1" = 400'

ACCESS ROAD R-O-W

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



FILE: 63038

REV: 1 06-13-18 J.N. (SHL) MOVE & WELL ADDITIONS)