

<b>Well Name:</b> WHITE CITY 8-17 FEDERAL COM	<b>Well Location:</b> T25S / R27E / SEC 8 / NENE / 32.150912 / -104.20782	<b>County or Parish/State:</b> EDDY / NM
<b>Well Number:</b> 16H	<b>Type of Well:</b> CONVENTIONAL GAS WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM97126	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3001548276	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> CIMAREX ENERGY COMPANY

Notice of Intent

<b>Type of Submission:</b> Notice of Intent	<b>Type of Action</b> Other
<b>Date Sundry Submitted:</b> 06/14/2021	<b>Time Sundry Submitted:</b> 01:21
<b>Date proposed operation will begin:</b> 07/31/2021	

**Procedure Description:** Cimarex respectfully requests to change the name of the well to the White City 8-17-20 Federal Com 16H. Cimarex requests to change the SHL & BHL of the well to: SHL- 390' FNL & 1230' FEL Section 8 25S 27E. BHL- 100' FSL & 1716' FEL Section 20 25S 27E. The SHL move is within the already approved well pad. Cimarex Requests to change the formation to Bone Spring. Cimarex requests drilling plan changes as attached. Cimarex requests to perform offline cementing. 1.Land casing on solid body mandrel hanger. Engage packoff and lockring 2. Install BPV 3. Skid rig 4. Check for pressure and remove BPV 5. Circulate down casing, taking returns through casing valves 6. Pump lead and tail cement 7. Displace cement and bump the plug 8. Ensure floats are holding pressure 9. RD cement crew 10. Install BPV and TA cap. Cimarex respectfully requests permission to skid the rig to the next well on the pad to begin operations instead of waiting 8 hours for surface cement to harden on this 16H well. Surface cement will be pumped, we will ensure floats hold, do a green cement test and then Skid to the next well on pad. We will not perform any operations on this 16H well until at least 8 hours and when both tail and lead slurry reach 500psi. The hanging mandrel is made up on the last joint of 13 3/8" casing and then lowered down with and landing joint. It is then lowered down until the mandrel contacts the landing ring which is prewelded to the conductor pipe. At this point the 13 3/8" casing is entirely supported by the conductor pipe via the landing ring / mandrel and is independent from the rig. This allows us to walk the rig away from the 16H well and begin work on the next well while the cement is hardening. There is no way for the casing to be moved or knocked off center since it is hanging from the landing ring. Please see attached the C102, Directionals, Drilling Plan, Multibowl, OLC procedure and wellsite layout.

Surface Disturbance

**Is any additional surface disturbance proposed?:** No

NOI Attachments

Procedure Description

- Wellsite\_Layout\_White\_Clty\_8\_17\_20\_Federal\_Com\_16H\_20210614132045.pdf
- White\_Clty\_16H\_Offline\_Cement\_Procedure\_20210614131948.pdf

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Whity\_City\_16H\_\_Multibowl\_20210614131939.pdf

Drill\_Plan\_White\_City\_8\_17\_20\_16H\_20210614131930.pdf

Directional\_White\_City\_16H\_20210614131923.pdf

C102\_White\_City\_8\_17\_20\_Federal\_Com\_16H\_20210614131912.pdf

Operator Certification

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

<b>Operator Electronic Signature:</b> AMITHY CRAWFORD	<b>Signed on:</b> JUN 14, 2021 01:20 PM
<b>Name:</b> CIMAREX ENERGY COMPANY	
<b>Title:</b> Regulatory Analyst	
<b>Street Address:</b> 600 N MARIENFELD STE 600	
<b>City:</b> MIDLAND	<b>State:</b> TX
<b>Phone:</b> (432) 620-1909	
<b>Email address:</b> acrawford@cimarex.com	

Field Representative

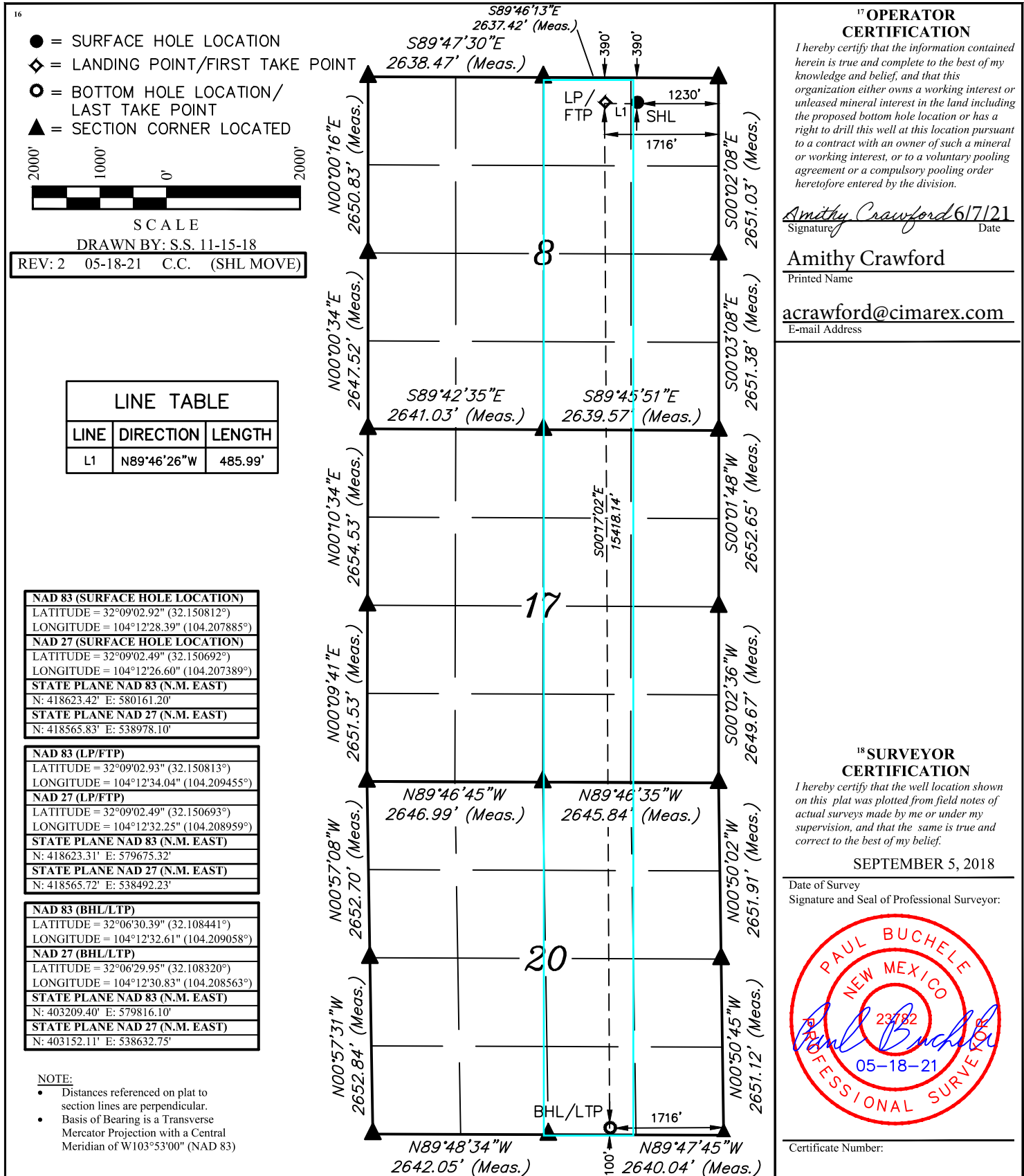
<b>Representative Name:</b>		
<b>Street Address:</b>		
<b>City:</b>	<b>State:</b>	<b>Zip:</b>
<b>Phone:</b>		
<b>Email address:</b>		

BLM Point of Contact

<b>BLM POC Name:</b> ZOTA M STEVENS	<b>BLM POC Title:</b> Petroleum Engineer
<b>BLM POC Phone:</b> 5752345998	<b>BLM POC Email Address:</b> ZSTEVENS@BLM.GOV
<b>Disposition:</b> Approved	<b>Disposition Date:</b> 06/17/2021
<b>Signature:</b> Zota Stevens	

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

☒ AMENDED REPORT



**1. Geological Formations**

TVD of target 8,000

Pilot Hole TD N/A

MD at TD 23,195

Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	0	N/A	
Salado	1387	N/A	
Castille	1953	N/A	
Bell Canyon	2147	N/A	
Cherry Canyon	3080	N/A	
Brushy Canyon	4083	Hydrocarbons	
Bone Spring	5690	Hydrocarbons	
Wolfcamp	8855	Hydrocarbons	
Wolfcamp Y Target	8941	Hydrocarbons	

**2. Casing Program**

Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	450	450	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	3.59	8.40	14.91
12 1/4	0	2127	2127	9-5/8"	36.00	J-55	ST&C	1.79	3.12	5.15
8 3/4	0	8200	7960	7-5/8"	29.70	L-80 HC	TMK UP Ultra FJ	1.48	1.85	1.80
6 3/4	0	7450	7450	5-1/2"	20.00	HCL-80	LT&C	2.33	2.26	2.89
6 3/4	7450	23195	8000	5"	18.00	P-110	BT&C	3.08	3.12	58.59
BLM Minimum Safety Factor								1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Request Variance for 5-1/2" x 7-5/8" annular clearance. The portion that does not meet clearance will not be cemented

## Cimarex Energy Co., White City 8-17-20 Fed Com 16H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	N
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	N
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	N
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	N
Is 2nd string set 100' to 600' below the base of salt?	N
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	N
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	N
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	N
Is AC Report included?	N

**3. Cementing Program**

Casing	# Sk	Wt. lb/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	292	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	404	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	125	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate 2 -	285	10.30	3.64	22.18		Lead: Tuned Light + LCM
	97	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS
Production	1518	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS

Casing String	TOC	% Excess
Surface	0	25
Intermediate	0	44
Intermediate 2	2277	45
Production	8000	35

Cimarex request the ability to perform casing integrity tests after plug bump of cement job.

**4. Pressure Control Equipment**

A variance is requested for the use of a diverter on the surface casing. See attached for schematic.					
BOP installed and tested before drilling which hole?	Size	Min Required WP	Type		Tested To
12 1/4	13 5/8	2M	Annular	X	2M
			Blind Ram		
			Pipe Ram		
			Double Ram	X	
			Other		
8 3/4	13 5/8	3M	Annular	X	3M
			Blind Ram		
			Pipe Ram		
			Double Ram	X	
			Other		
6 3/4	13 5/8	5M	Annular	X	5M
			Blind Ram		
			Pipe Ram	X	
			Double Ram	X	
			Other		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

X	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.				
X	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.				
N	Are anchors required by manufacturer?				

**5. Mud Program**

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' to 450'	FW Spud Mud	8.30 - 8.80	30-32	N/C
450' to 2127'	Brine Water	9.70 - 10.20	30-32	N/C
2127' to 8200'	FW/Cut Brine	8.50 - 9.00	30-32	N/C
8200' to 23195'	OBM	10.00 - 10.50	50-70	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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**6. Logging and Testing Procedures**

Logging, Coring and Testing	
X	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test?
	Coring?

Additional Logs Planned	Interval
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**7. Drilling Conditions**

Condition	
BH Pressure at deepest TVD	4892 psi
Abnormal Temperature	No

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

X	H2S is present
X	H2S plan is attached

**8. Other Facets of Operation****9. Wellhead**

A multi-bowl wellhead system will be utilized.

After running the 13-3/8" surface casing, a 13 5/8" BOP/BOPE system with a minimum working pressure of 5000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5000 psi test. Annular will be tested to 100% of working pressure. The pressure test will be repeated at least every 30 days, as per Onshore Order No. 2.

The multi-bowl wellhead will be installed by vendor's representative. A copy of the installation instructions has been sent to the BLM field office.

The wellhead will be installed by a third-party welder while being monitored by the wellhead vendor representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

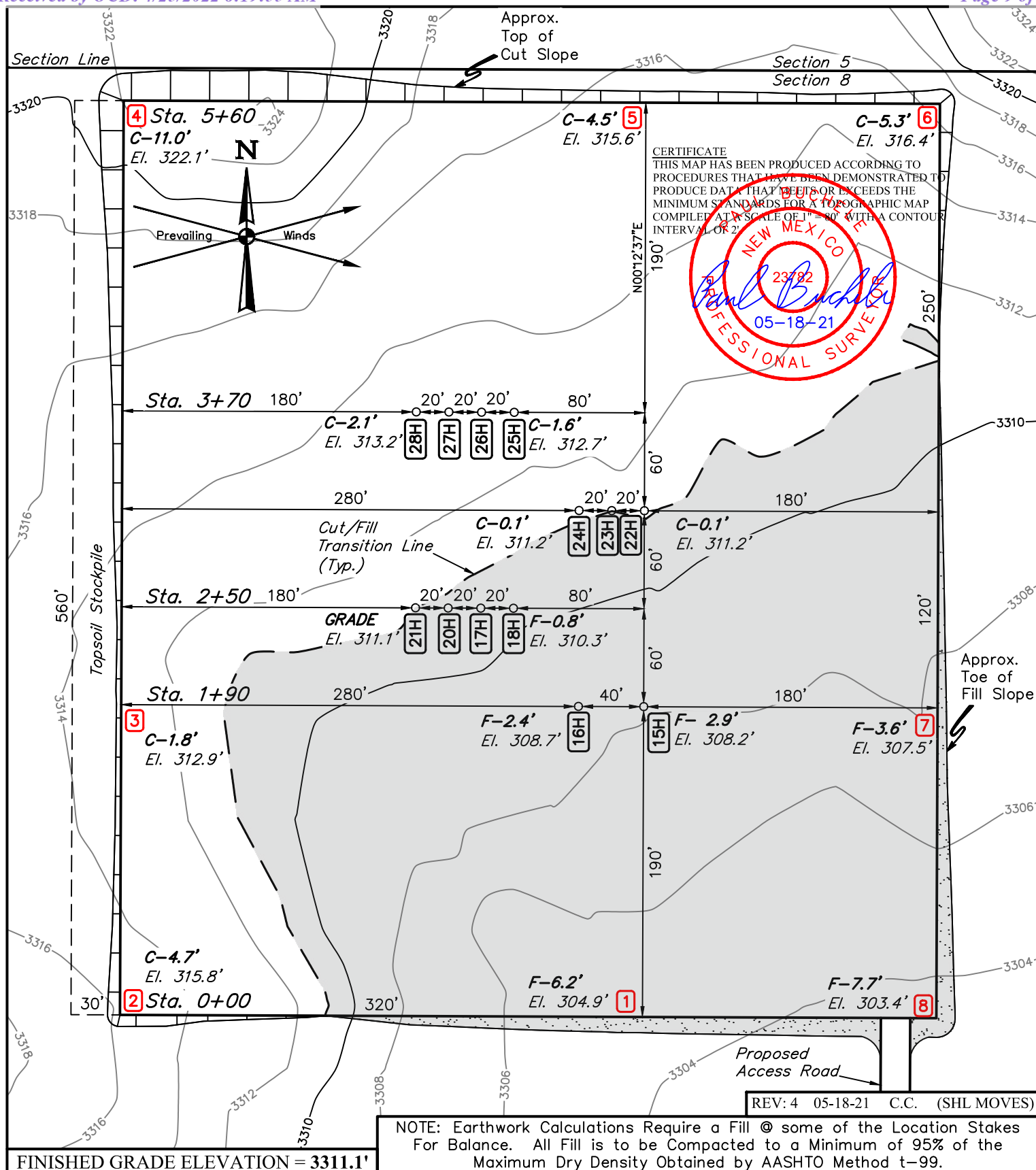
A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

A solid steel body pack-off will be utilized after running and cementing the production casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

All casing strings will be tested as per Onshore Order No.2 to at least 0.22 psi/ft or 1,500 whichever is greater and not to exceed 70% of casing burst.

If well conditions dictate conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.



**NOTES:**

- Flare is to be located a min. of 100' from the wellhead.
- Contours shown at 2' intervals.
- Cut/Fill slopes 1 1/2:1 (Typ.)
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

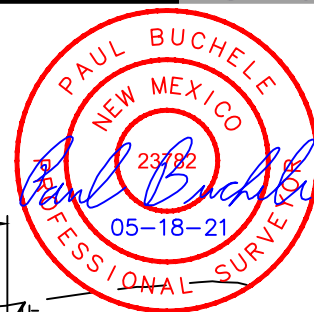
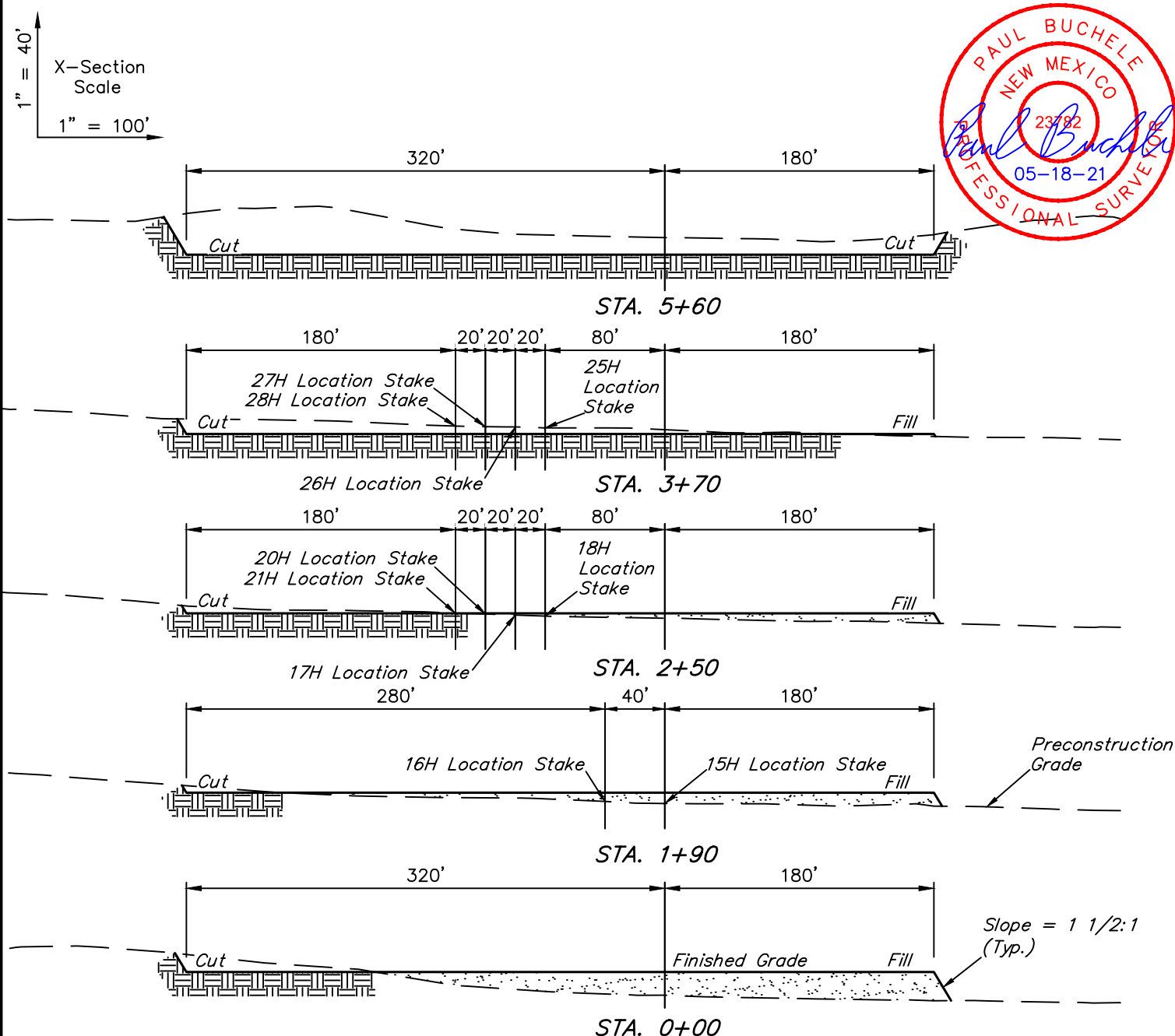
**CIMAREX ENERGY CO.**

**WHITE CITY 8-17 FEDERAL COM E2E2**  
**N 1/2, SECTION 8, T25S, R27E, N.M.P.M.**  
**EDDY COUNTY, NEW MEXICO**

<b>SURVEYED BY</b>	C.H., R.G.	09-05-18	<b>SCALE</b>
<b>DRAWN BY</b>	C.M.T.	11-01-18	1" = 80'
<b>LOCATION LAYOUT</b>		<b>EXHIBIT J</b>	



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



APPROXIMATE EARTHWORK QUANTITIES	
(4") TOPSOIL STRIPPING	3,650 Cu. Yds.
REMAINING LOCATION	16,900 Cu. Yds.
<b>TOTAL CUT</b>	<b>20,550 Cu. Yds.</b>
<b>FILL</b>	<b>16,900 Cu. Yds.</b>
EXCESS MATERIAL	3,650 Cu. Yds.
TOPSOIL & PIT BACKFILL	3,650 Cu. Yds.
<b>EXCESS UNBALANCE</b> (After Interim Rehabilitation)	<b>0 Cu. Yds.</b>

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	ACRES
WELL SITE DISTURBANCE	NA	±7.091
30' WIDE ACCESS ROAD R-O-W DISTURBANCE	±394.36'	±0.272
60' WIDE FLOWLINE R-O-W DISTURBANCE	±1159.76'	±1.597
<b>TOTAL SURFACE USE AREA</b>		<b>±8.960</b>

REV: 6 05-18-21 C.C. (SHL MOVES)

**NOTES:**

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

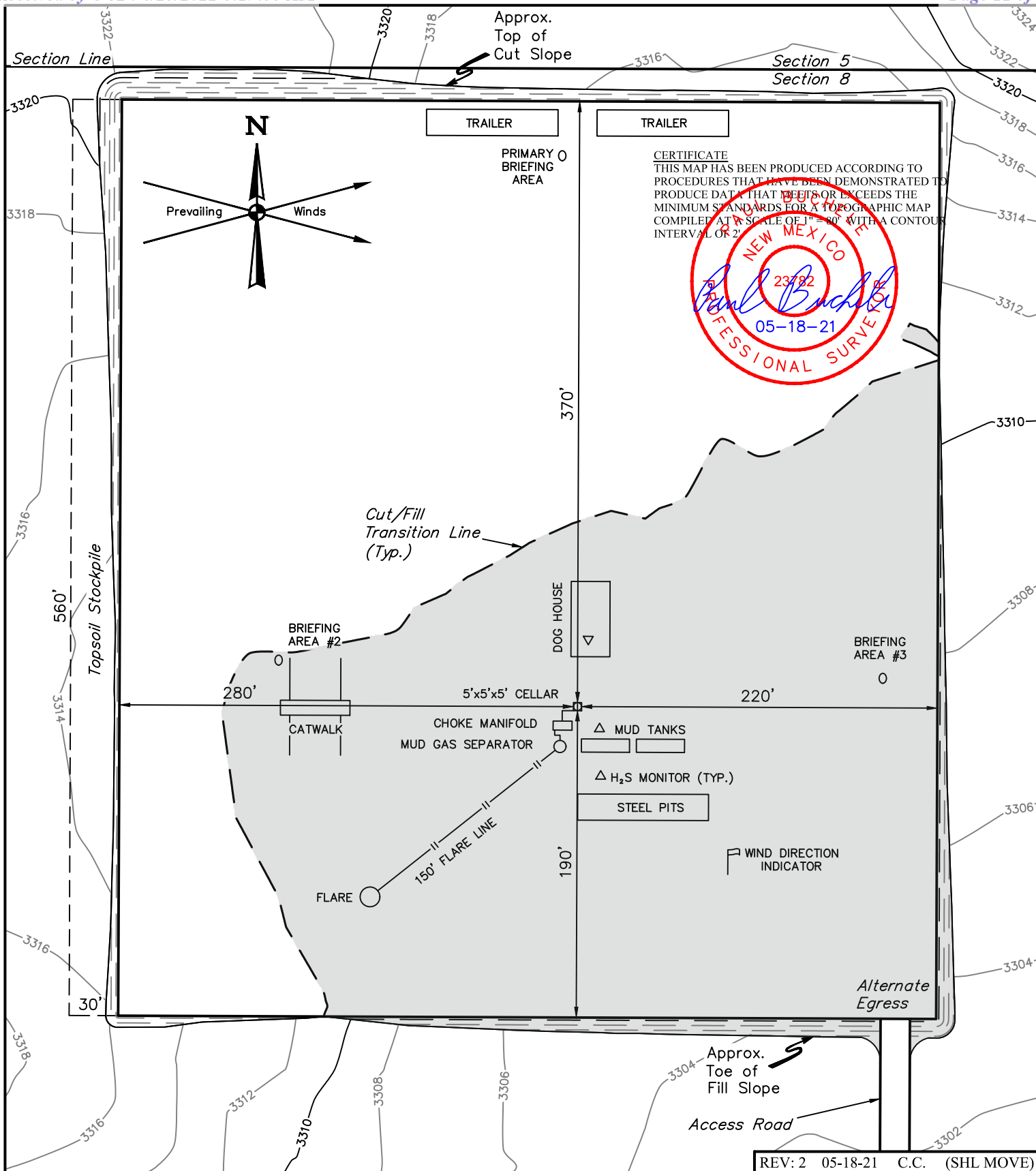
**CIMAREX ENERGY CO.**

**WHITE CITY 8-17 FEDERAL COM E2E2**  
**N 1/2, SECTION 8, T25S, R27E, N.M.P.M.**  
**EDDY COUNTY, NEW MEXICO**



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

SURVEYED BY	C.H., R.G.	09-05-18	SCALE
DRAWN BY	C.M.T.	11-01-18	AS SHOWN
<b>TYPICAL CROSS SECTIONS</b>			<b>EXHIBIT J</b>

**NOTES:**

- Contours shown at 2' intervals.

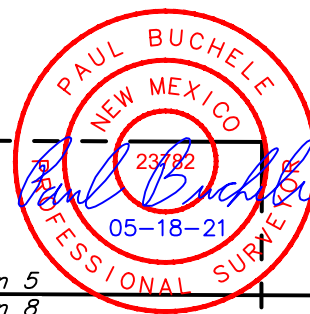
**CIMAREX ENERGY CO.**

WHITE CITY 8-17 FEDERAL COM 16H  
390' FNL 1230' FEL  
N 1/2, SECTION 8, T25S, R27E, N.M.P.M.  
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.H., R.G.	09-05-18	SCALE
DRAWN BY	S.S.	11-15-18	1" = 80'
TYPICAL RIG LAYOUT			EXHIBIT K

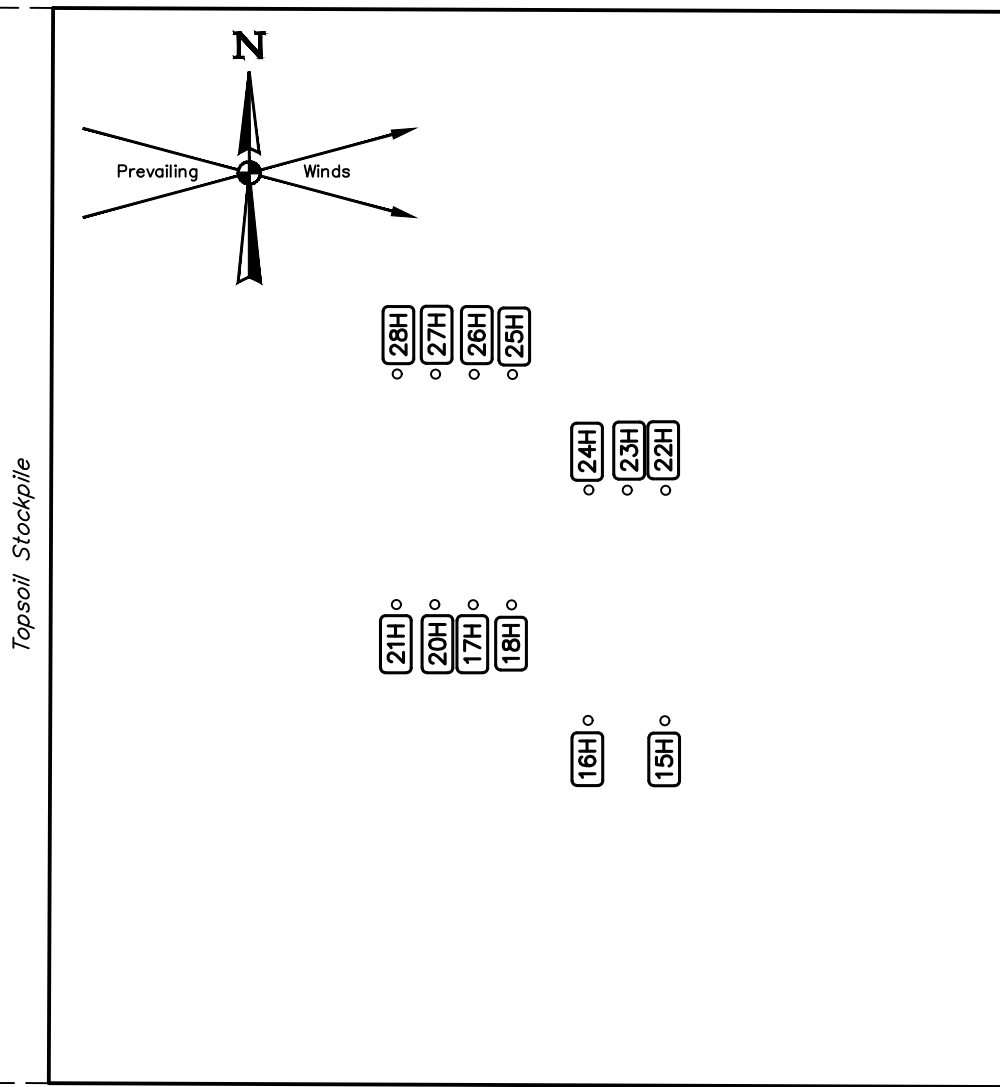


UELS, LLC  
Corporate Office \* 85 South 200 East  
Vernal, UT 84078 \* (435) 789-1017



700' X 760' Archaeological Survey Boundary

Section Line

Section 5  
Section 8Proposed  
Access Road

REV: 4 05-18-21 C.C. (SHL MOVES)

**CIMAREX ENERGY CO.**

**WHITE CITY 8-17 FEDERAL COM E2E2**  
**N 1/2, SECTION 8, T25S, R27E, N.M.P.M.**  
**EDDY COUNTY, NEW MEXICO**

**UELS, LLC**

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

<b>SURVEYED BY</b>	C.H., R.G.	09-05-18	<b>SCALE</b>
<b>DRAWN BY</b>	C.M.T.	11-01-18	1" = 100'
<b>ARCHAEOLOGICAL SURVEY BOUNDARY</b>			<b>EXHIBIT L</b>



**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**

CONDITIONS

Action 101112

**CONDITIONS**

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 101112
	Action Type: [C-103] NOI Change of Plans (C-103A)

**CONDITIONS**

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	4/27/2022
jagarcia	New property code is 333146	8/11/2022