U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

06/23/2021

Well Name: WHITE CITY 8-17 FEDERAL COM	**Well Location:** T25S / R27E / SEC 8 / NENE / 32.150812 / -104.207756	**County or Parish/State:** EDDY / NM
Well Number: 15H	**Type of Well:** CONVENTIONAL GAS WELL	**Allottee or Tribe Name:**
Lease Number: NMNM097126	**Unit or CA Name:**	**Unit or CA Number:**
US Well Number: 3001548035	**Well Status:** Approved Application for Permit to Drill	**Operator:** CIMAREX ENERGY COMPANY

Notice of Intent

Type of Submission: Notice of Intent

Type of Action Other

Date Sundry Submitted: 06/14/2021

Time Sundry Submitted: 12:56

Date proposed operation will begin: 07/31/2021

Procedure Description: Cimarex Respectfully requests to change the well name to White City 8-17-20 Federal Com 15H. Cimarex also requests to change the formation to Bone Spring. Cimarex Requests to change the BHL of the well to 100' FSL & 330' FEL of section 20 25S 27E. Cimarex Requests drilling plan changes as attached. Cimarex requests permission 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 15H 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 15H 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 15H 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 C102, Prelim Directional, Drilling Plan, Multibowl diagram and OLC procedure.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Whity_City_15H__Multibowl_20210614125513.pdf

White_CIty_15H_Offline_Cement_Procedure_20210614125504.pdf

Drill_Plan_White_City_8_17_20_15H_20210614125443.pdf

Well Name: WHITE CITY 8-17 FEDERAL COM

Well Location: T25S / R27E / SEC 8 / NENE / 32.150812 / -104.207756

County or Parish/State: EDDY / NM

Well Number: 15H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM097126

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001548035

Well Status: Approved Application for Permit to Drill

Operator: CIMAREX ENERGY COMPANY

Directional_White_City_15H_20210614125436.pdf

C102_White_CIty_8_17_20_Federal_Com_15H_20210614125332.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.

Operator Electronic Signature: AMITHY CRAWFORD

Signed on: JUN 14, 2021 12:56 PM

Name: CIMAREX ENERGY COMPANY

Title: Regulatory Analyst

Street Address: 600 N MARIENFELD STE 600

City: MIDLAND **State:** TX

Phone: (432) 620-1909

Email address: acrawford@cimarex.com

Field Representative

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: ZOTA M STEVENS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752345998

BLM POC Email Address: ZSTEVENS@BLM.GOV

Disposition: Approved

Disposition Date: 06/17/2021

Signature: zota stevens

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
30-015-48035	97816	WC-015 G-02 S252715A;BONE SPRING

[4] Property Code	[5] Property Name	[6] Well Number
330172 XXXXXX 333146	WHITE CITY 8-17-20 Federal Com	15H

[7] OGRID No.	[8] Operator Name	[9] Elevation
215099	CIMAREX ENERGY CO.	3308.2'

[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	8	25S	27E		390	NORTH	1190	EAST	EDDY

[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	20	25S	27E		100	SOUTH	330	EAST	EDDY

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
480			

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.

[16]

● = SURFACE HOLE LOCATION
◇ = LANDING POINT/FIRST TAKE POINT
○ = BOTTOM HOLE LOCATION/ LAST TAKE POINT
▲ = SECTION CORNER LOCATED

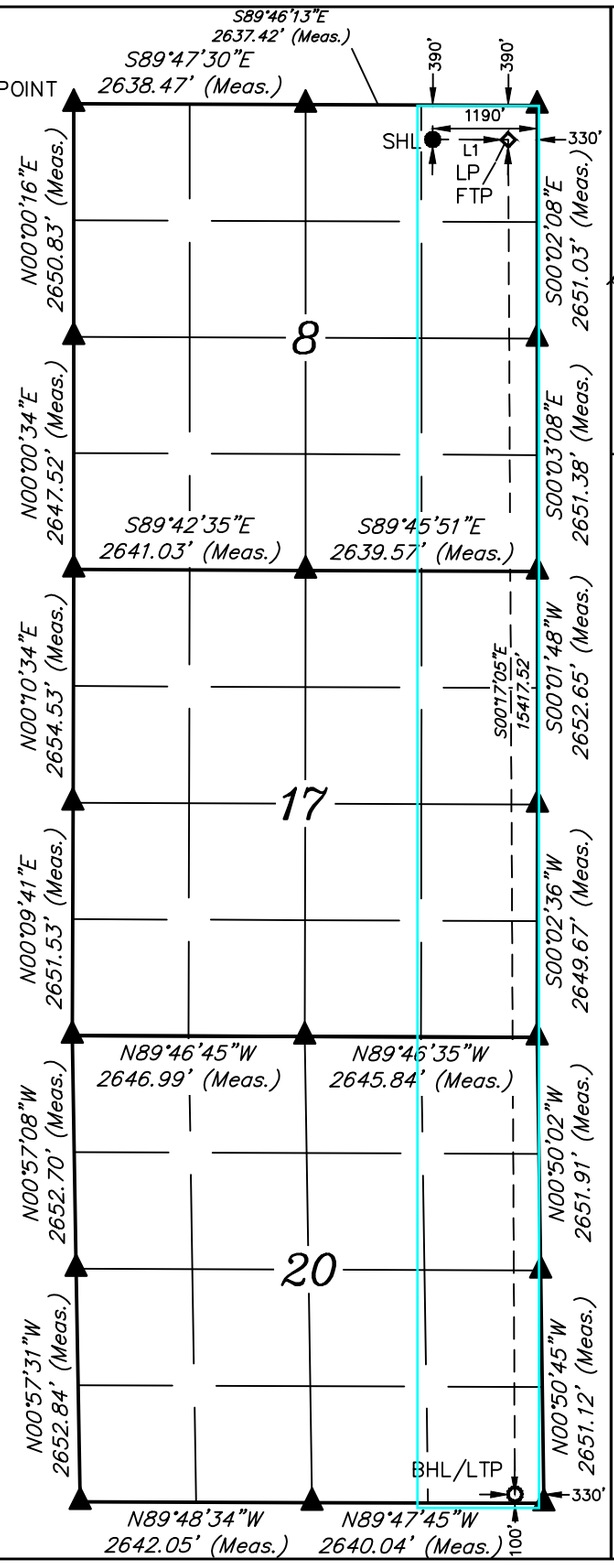
2000' 1000' 0' 2000'

SCALE

DRAWN BY: S.F. 09-20-18

REV: 2 04-28-21 Z.L. (BHL MOVE)

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°46'02"E	860.02'



NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°09'02.92" (32.150812°)
LONGITUDE = 104°12'27.92" (104.207756°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°09'02.49" (32.150692°)
LONGITUDE = 104°12'26.14" (104.207260°)
STATE PLANE NAD 83 (N.M. EAST)
N: 418623.44' E: 580201.19'
STATE PLANE NAD 27 (N.M. EAST)
N: 418565.85' E: 539018.09'

NAD 83 (LP/FTP)
LATITUDE = 32°09'02.91" (32.150810°)
LONGITUDE = 104°12'17.92" (104.204978°)
NAD 27 (LP/FTP)
LATITUDE = 32°09'02.48" (32.150689°)
LONGITUDE = 104°12'16.13" (104.204482°)
STATE PLANE NAD 83 (N.M. EAST)
N: 418623.54' E: 581061.02'
STATE PLANE NAD 27 (N.M. EAST)
N: 418565.94' E: 539877.90'

NAD 83 (BHL/LTP)
LATITUDE = 32°06'30.38" (32.108439°)
LONGITUDE = 104°12'16.49" (104.204581°)
NAD 27 (BHL/LTP)
LATITUDE = 32°06'29.94" (32.108318°)
LONGITUDE = 104°12'14.71" (104.204087°)
STATE PLANE NAD 83 (N.M. EAST)
N: 403210.25' E: 581202.01'
STATE PLANE NAD 27 (N.M. EAST)
N: 403152.94' E: 540018.63'

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" (NAD 83)

[17] 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 unleased 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.

Amithy Crawford 6/7/2021
Signature Date

Amithy Crawford
Printed Name

acrawford@cimarex.com
E-mail Address

[18] 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 5, 2018
Date of Survey

Signature and Seal of Professional Surveyor:

PAUL BUCHELE NEW MEXICO 23782 PROFESSIONAL SURVEYOR 04-28-21

Certificate Number:

1. Geological Formations

TVD of target 8,000
MD at TD 23,237

Pilot Hole TD N/A
Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Ruster	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	
1st Bone Spring	6659	Hydrocarbons	
2nd Bone Spring	7226	Hydrocarbons	
3rd Bone Spring	7614	Hydrocarbons	
Wolfcamp	8855	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	2142	2142	9-5/8"	36.00	J-55	ST&C	1.78	3.10	5.11
8 3/4	0	8243	7960	7-5/8"	29.70	L-80 HC	TMK UP Ultra FJ	1.48	1.85	1.80
6 3/4	0	7493	7493	5-1/2"	20.00	HCL-80	LT&C	2.32	2.25	2.89
6 3/4	7493	23237	8000	5"	18.00	P-110	BT&C	3.08	3.12	63.55
					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

	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	# Sks	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	406	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	126	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate 2 -	286	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	1517	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 - Stage #1	2292	45
Production	8043	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 2142'	Brine Water	9.70 - 10.20	30-32	N/C
2142' to 8243'	FW/Cut Brine	8.50 - 9.00	30-32	N/C
8243' to 23237'	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

6. Logging and Testing Procedures

	Logging, Coring and Testing
X	Will run GR/CNL fromTD 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

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 50% 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.

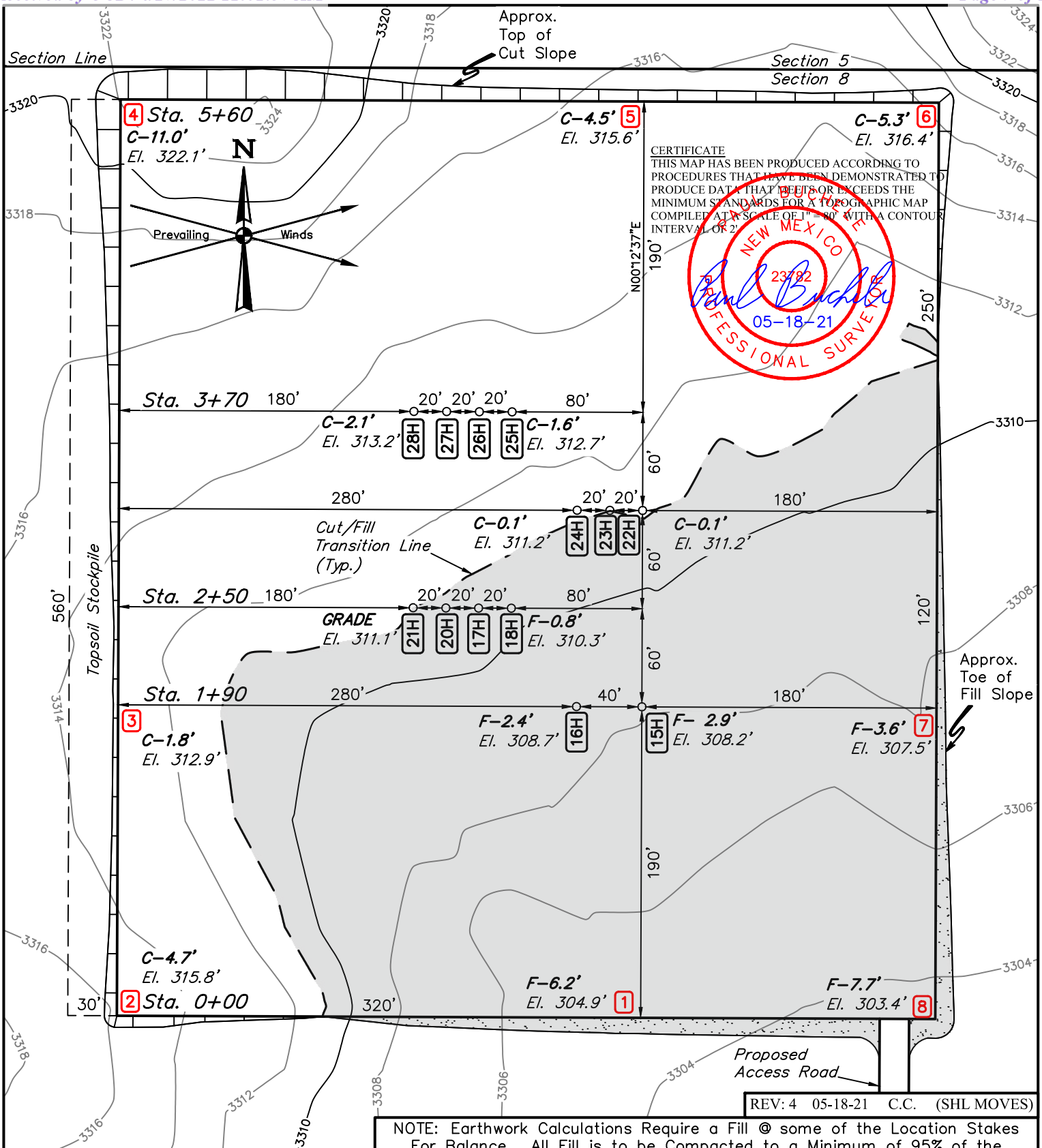
All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

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 atleast 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.



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

NOTE: Earthwork Calculations Require a Fill @ some of the Location Stakes For Balance. All Fill is to be Compacted to a Minimum of 95% of the Maximum Dry Density Obtained by AASHTO Method t-99.

FINISHED GRADE ELEVATION = **3311.1'**

NOTES:

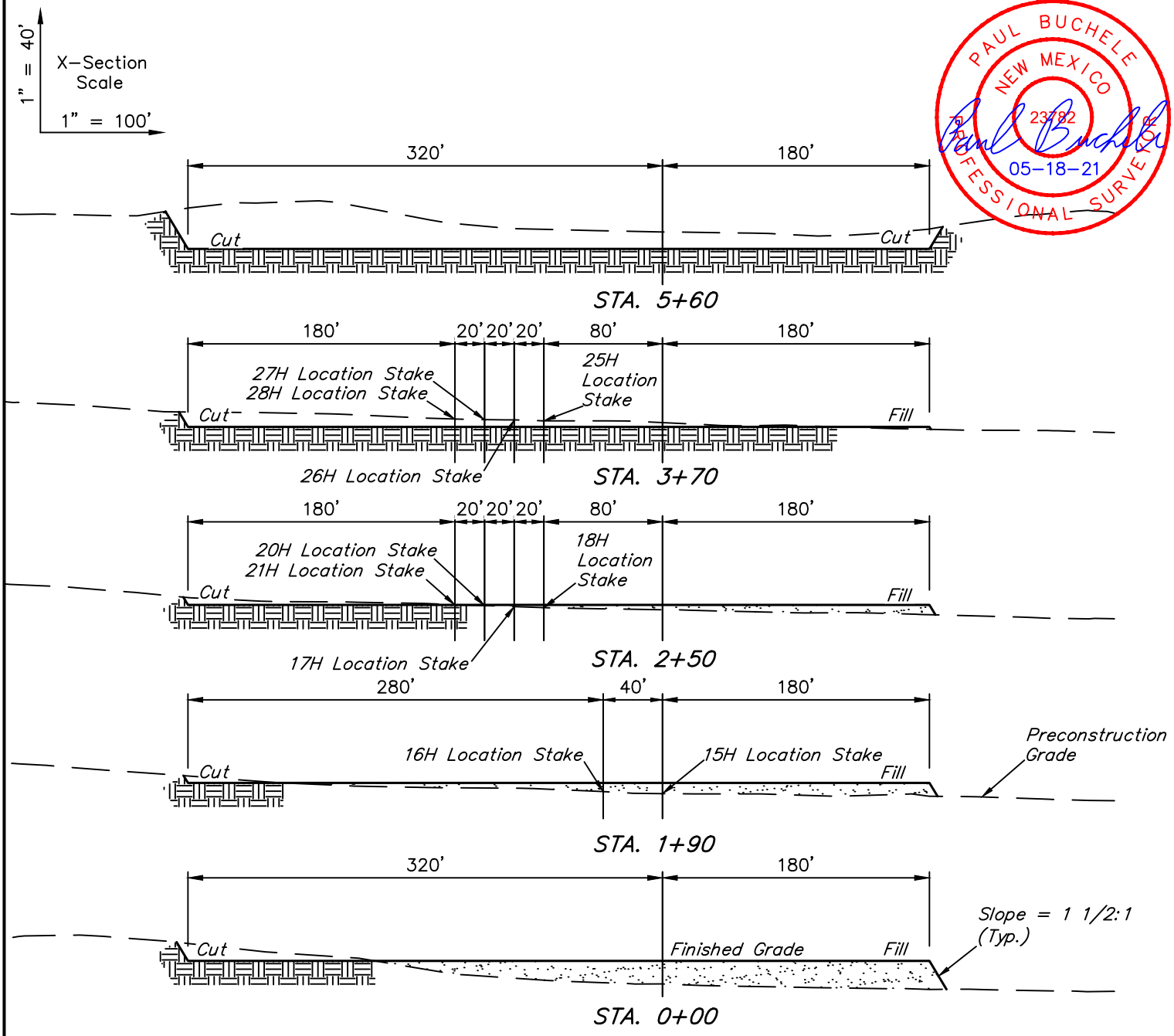
- Flare is to be located a min. of 100' from the wellhead.
- Contours shown at 2' intervals.
- Cut/Fill slopes 1 1/2:1 (Typ.)
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

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

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

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



PAUL BUCHELE NEW MEXICO 23782 PROFESSIONAL SURVEYOR 05-18-21

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

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
TOTAL SURFACE USE AREA		**±8.960**

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

NOTES:

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

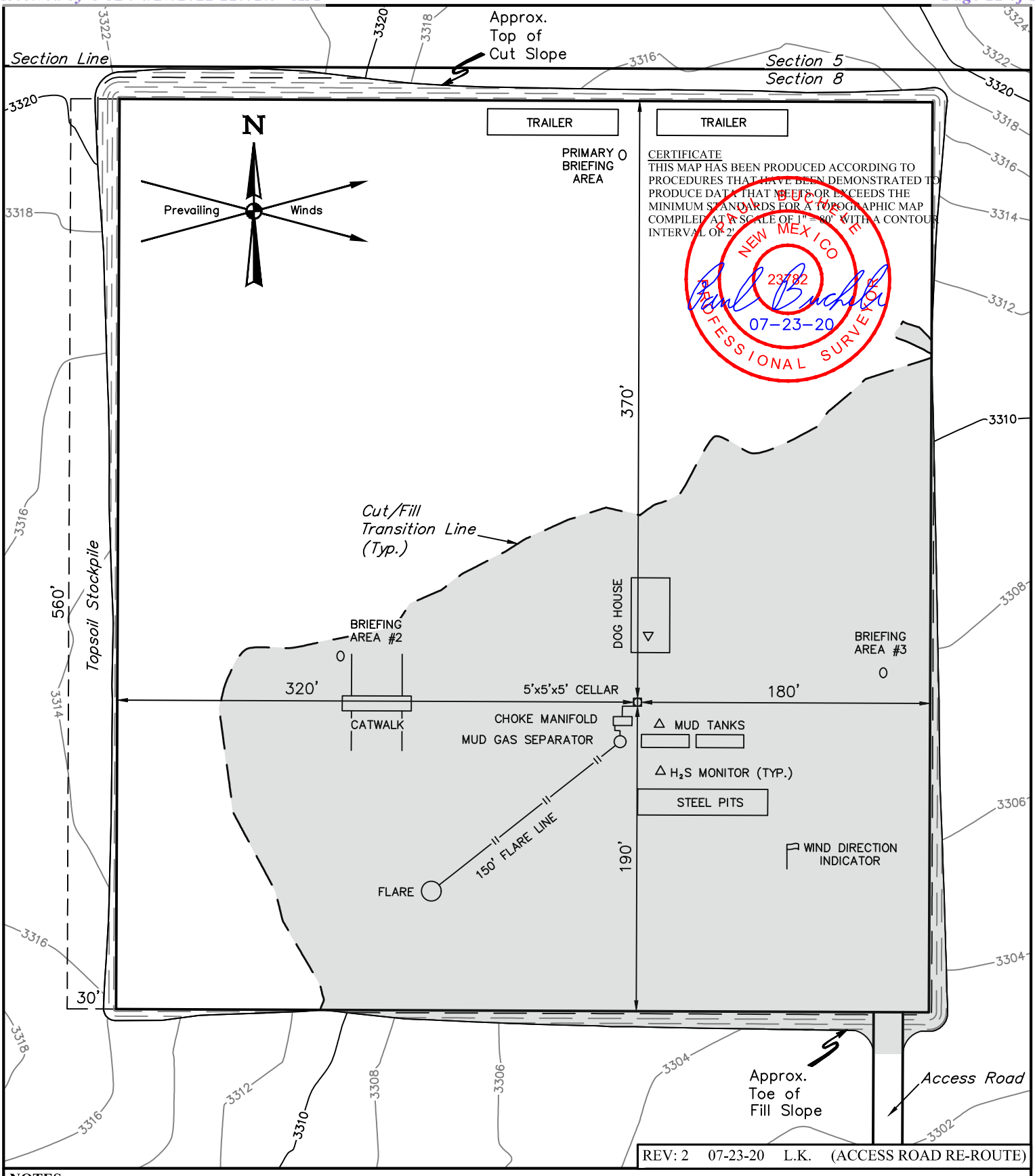
CIMAREX ENERGY CO.

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

UINTAH ENGINEERING & LAND SURVEYING

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
TYPICAL CROSS SECTIONS			**EXHIBIT J**



REV: 2 07-23-20 L.K. (ACCESS ROAD RE-ROUTE)

NOTES:

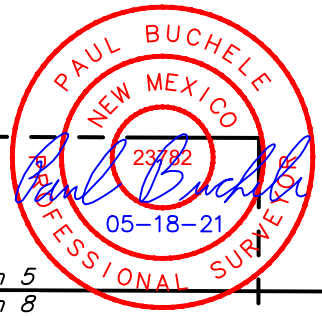
- Contours shown at 2' intervals.

CIMAREX ENERGY CO.

WHITE CITY 8-17 FEDERAL COM 15H
390' FNL 1190' 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	C.M.T.	11-01-18	1" = 80'
TYPICAL RIG LAYOUT			EXHIBIT K

UINTAH ENGINEERING & LAND SURVEYING
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 8

N

Prevailing Winds

28H 27H 26H 25H

24H 23H 22H

21H 20H 17H 18H

16H 15H

Topsoil Stockpile

Proposed 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

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

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

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 101930

CONDITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 101930
	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