

Application for Permit to Drill

U.S. Department of the Interior Bureau of Land Management

APD Package Report

Date Printed:

APD ID: Well Status:

APD Received Date: Well Name:

Operator: Well Number:

APD Package Report Contents

- Form 3160-3
- Operator Certification Report
- Application Report
- Application Attachments
 - -- Well Plat: 1 file(s)
- Drilling Plan Report
- Drilling Plan Attachments
 - -- Blowout Prevention Choke Diagram Attachment: 4 file(s)
 - -- Blowout Prevention BOP Diagram Attachment: 1 file(s)
 - -- Casing Taperd String Specs: 2 file(s)
 - -- Casing Design Assumptions and Worksheet(s): 1 file(s)
 - -- Hydrogen sulfide drilling operations plan: 1 file(s)
 - -- Proposed horizontal/directional/multi-lateral plan submission: 7 file(s)
 - -- Other Facets: 3 file(s)
 - -- Other Variances: 1 file(s)
- SUPO Report
- SUPO Attachments
 - -- Existing Road Map: 1 file(s)
 - -- Attach Well map: 1 file(s)
 - -- Production Facilities map: 2 file(s)
 - -- Water source and transportation map: 1 file(s)
 - -- Well Site Layout Diagram: 1 file(s)
 - -- Recontouring attachment: 1 file(s)
 - -- Other SUPO Attachment: 1 file(s)
- PWD Report
- PWD Attachments
 - -- None

- Bond Report
- Bond Attachments
 - -- None

Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone 2. Name of Operator 9. API Well No. 30-025-55196 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area At surface At proposed prod. zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above) 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the SUPO must be filed with the appropriate Forest Service Office). 25. Signature Name (Printed/Typed) Date Title Approved by (Signature) Name (Printed/Typed) Date Title Office Application approval 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. Conditions of approval, if any, are attached. 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)

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

0. SHL: NENW / 407 FNL / 2062 FWL / TWSP: 25S / RANGE: 33E / SECTION: 33 / LAT: 32.093175 / LONG: -103.579121 (TVD: 0 feet, MD: 0 feet)
PPP: NENW / 100 FNL / 1800 FWL / TWSP: 25S / RANGE: 33E / SECTION: 33 / LAT: 32.094021 / LONG: -103.579967 (TVD: 12403 feet, MD: 12424 feet)
PPP: NESW / 2639 FNL / 1801 FWL / TWSP: 25S / RANGE: 33E / SECTION: 33 / LAT: 32.087042 / LONG: -103.579967 (TVD: 12972 feet, MD: 15292 feet)
PPP: NENW / 0 FNL / 1802 FWL / TWSP: 25S / RANGE: 33E / SECTION: 33 / LAT: 32.079786 / LONG: -103.579966 (TVD: 12983 feet, MD: 17932 feet)
BHL: SESW / 100 FSL / 1800 FWL / TWSP: 26S / RANGE: 33E / SECTION: 4 / LAT: 32.065553 / LONG: -103.579966 (TVD: 12871 feet, MD: 23110 feet)

BLM Point of Contact

Name: JANET D ESTES Title: ADJUDICATOR Phone: (575) 234-6233

Email: JESTES@BLM.GOV

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

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	: Electronicall D Permitting	у	OIL CONSERVAT				ON DIVISION				tal	
								Submitta Type:	al ☐ Amended Rep	oort		
		14								☐ As Drilled		
2					WELL LOCA	TIC	ON INFORMATION			127		
API Number 30-025-55196 Pool Code 98458 83600					Pool Name WC-025-C-09-S253236A; UPR WOLFCAMP RED HILLS; WOLFCAMP (GAS)							
Proper	ty Code 30	00545	Property Na	ame	RED	Н	ILLS UNIT	,		Well Number 504	Н	
OGRII	No. 1620	683	Operator N	ame (CIMAREX ENER	RG	Y CO. OF COLORAD	0		Ground Level El		
Surface	e Owner: 🗆 S	State Fee	Tribal 🛛 Fed	leral			Mineral Owner: S	tate Fee [☐ Tribal 🏻	- !		
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UL	Section	Township	Range	Lot	Ft. from N/S	iac	e Location Ft. from E/W	Latitude (N.	AD 83)	Longitude (NAD 83)	County	
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Dedica	Dedicated Acres Infill or Defining We			Vell Defining Well API			Overlapping Spacing	Unit (Y/N)	Consolid	lation Code		
	640	Infill	447507	-02-020- 21000			N N		2 1:	U		
Order	Numbers.	NMNM105	417597				Well setbacks are und	er Common C	Jwnersnip): ⊠ Yes ⊔No		
					Kick (Off	Point (KOP)					
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	I a .:	l m 1:	T	1.	T	ake	e Point (FTP)		12 on T	T : 1 011 D 00)	, , ,	
UL C	Section 33	Township 25S	Range 33E	Lot	Ft. from N/S 100 NORTH	Ī	Ft. from E/W 1,800 WEST	Latitude (NAD 83) 32.094021°		Longitude (NAD 83) -103.579967°	LEA	
	1		Į.	1	Last T	Take Point (LTP)						
UL	Section	Township	Range	Lot	Ft. from N/S		Ft. from E/W Latitude (NAD 8		AD 83)	Longitude (NAD 83)	County	
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Unitize	ed Area or Ar	ea of Uniform I	nterest	Spacing	Unit Type 🏻 Hori	izor	ntal Vertical	Grour	nd Floor El	levation:	22.4	
9	Y									330	52.1 	
OPER/	ATOR CERT	IFICATIONS				T	SURVEYOR CERTIFIC	ATIONS				
I hereby	certify that the	e information cont	ained herein is i	true and com	plete to the best of	I hereby certify that the well location shown on this plat was plotted from the field notes of actual					d notes of actual	
my knov	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land				1	I nevery certify that the well location shown on this plat was plotted from the field poles of actual surveys made by me or under my supervision, and that the same is pae and conrect to the best of my belief.						
including the proposed bottom hole location or has a right to drill this well at this						, c ens .			RA ME	12/4		
location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore										18/		
entered by the division.									ZZ X 23/3	$\binom{2}{2}$		
If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest									Name	MAJES		
interv al	will be pogated	or obtained a con	npulsory poolin		well's completed the division.					01-22		
L^{2}	nelly	Dowen	4/1	/2025						ONAI	3	
Signature Date					Signature and Seal of Professional Surveyor							

Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

23782

Certificate Number

May 05, 2017 Date of Survey

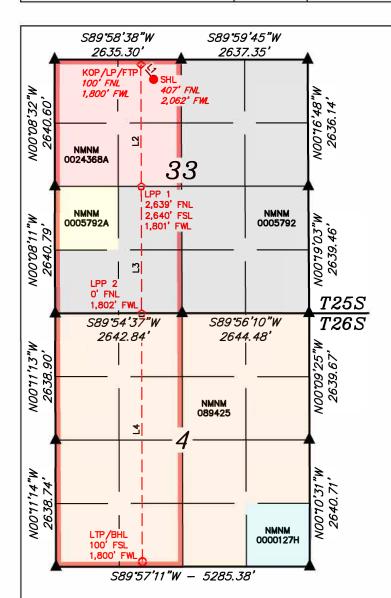
Shelly Bowen

Printed Name

Email Address

shelly.bowen@coterra.com

Property Name Well Number Drawn By Revised By RED HILLS UNIT 504H D.M.C. 10-28-24 REV. 1 L.T.T. 01-22-25 (SHL MOVE & UPDATE WELLBORE)



- = SURFACE HOLE LOCATION
- = KICK OFF POINT/LANDING POINT/FIRST TAKE POINT
- = LEASE PENETRATION POINT
- = LAST TAKE POINT/ BOTTOM HOLE LOCATION
- = SECTION CORNER LOCATED
- = DEDICATED ACREAGE

- NOTE:

 Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
- Colored areas within section lines represent Federal oil & gas leases.

LINE TABLE								
LINE	DIRECTION	LENGTH						
L1	N40°34'41"W	404.25						
L2	S00°09'48"E	2539.37						
L3	S00°09'48"E	2639.93'						
L4	S00°09'48"E	5178. 9 7'						

NAD 83 (SURFACE HOLE LOCATION) LATITUDE = 32°05'35.43" (32.093175°) LONGITUDE = -103°34'44.83" (-103.579121°) NAD 27 (SURFACE HOLE LOCATION) LATITUDE = 32°05'34.98" (32.093050°) LONGITUDE = -103°34'43.14" (-103.578650°) STATE PLANE NAD 83 (N.M. EAST) N: 398450.56' E: 774900.61 STATE PLANE NAD 27 (N.M. EAST) N: 398392.95' E: 733714.12'

NAD 83 (LPP 2)

NAD 83 (KOP/LP/FTP)
LATITUDE = 32°05'38.47" (32.094021°)
LONGITUDE = -103°34'47.88" (-103.579967°)
NAD 27 (KOP/LP/FTP)
LATITUDE = 32°05'38.03" (32.093896°)
LONGITUDE = -103°34'46.19" (-103.579496°)
STATE PLANE NAD 83 (N.M. EAST)
N: 398756.45' E: 774636.42'
STATE PLANE NAD 27 (N.M. EAST)
N: 398698.83' E: 733449.94'

1000' 2000 SCALE Sheet 2 of 2

NAD 83 (LPP 1)
LATITUDE = 32°05'13.35" (32.087042°)
LONGITUDE = -103°34'47.88" (-103.579967°)
NAD 27 (LPP 1)
LATITUDE = 32°05'12.90" (32.086917°)
1 ON CONTINUE 10000 414 (100 (100 500 4000)

STATE PLANE NAD 83 (N.M. EAST) N: 396217.58' E: 774654.25 STATE PLANE NAD 27 (N.M. EAST)

N: 396160.02' E: 733467.65

STATE PLANE NAD 83 (N.M. EAST) N: 393578.17' E: 774672.78 STATE PLANE NAD 27 (N.M. EAST) N: 393520.67' E: 733486.05

LATITUDE = 32°04'47.23" (32.079786°)

LATITUDE = 32°04'46.78" (32.079661°)

LONGITUDE = -103°34'47.88" (-103.579966

LONGITUDE = -103°34'46.19" (-103.579497°)

NAD	83 (LTI	P/BI	HL)	_
A TT	тпп	\T	220	00215	☶

LATITUDE = 32°03'55.99" (32.065553°) LONGITUDE = -103°34'47.88" (-103.579966° NAD 27 (LTP/BHL)

LATITUDE = 32°03'55.54" (32.065428°) LONGITUDE = -103°34'46.19" (-103.579497°) STATE PLANE NAD 83 (N.M. EAST) N: 388400.21' E: 774709.13

STATE PLANE NAD 27 (N.M. EAST) N: 388342.84' E: 733522.16'

Released to Imaging: 9/12/2025 8:47:51 AM

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

Tiergy Co. or Colo	Tauo	OGRID: _L		Date: _	4/1/2025	
□ Amendmer	nt due to □ 19.15.27	7.9.D(6)(a) NMA	.C □ 19.15.27.9.D	(6)(b) NMAC □	Other.	
						_
				`wells proposed t	to be drilled or propo	sed
API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Wate BBL/D	r
	Sec 32 T25S, R33E	407 FNL/2062	FWL 248	1361	4782	
			ntral delivery poin Completion	it. Initial F	Flow First Produc	
	6/1/25	9/29/25	1/1/26	3/15/26	3/15/26	
ices: ☑ Attac of 19.15.27.8 t Practices: ☑	ch a complete descr NMAC. ☑ Attach a complet	iption of the act	ions Operator will	take to comply	with the requiremen	nts of
	□ Amendmer ine following it is single well p API API Dint Name: _I le: Provide the pleted from a API ent: ☑ Attack ices: ☑ Attack of 19.15.27.8 t Practices: ☑	API ULSTR Sec 32 T25S, R33E Dint Name: _Red Hills CTB Ple: Provide the following information pleted from a single well pad or complete description. API Spud Date 6/1/25 ent: Attach a complete descriptices: Attach a complete description of 19.15.27.8 NMAC.	Amendment due to □ 19.15.27.9.D(6)(a) NMA The following information for each new or recomplete single well pad or connected to a central delivery API ULSTR Footages Sec 3 T25S, R33E 407 FNL/2062 Dint Name: _Red Hills CTB Be: Provide the following information for each nepleted from a single well pad or connected to a central delivery API Spud Date TD Reached Date 6/1/25 9/29/25 Bent: ☑ Attach a complete description of how Operations: ☑ Attach a complete description of the act of 19.15.27.8 NMAC. It Practices: ☑ Attach a complete description of the act of 19.15.27.8 NMAC.	Amendment due to 19.15.27.9.D(6)(a) NMAC 19.15.27.9.D 19.15.27.9.D	□ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ ne following information for each new or recompleted well or set of wells proposed to single well pad or connected to a central delivery point. API ULSTR Footages Anticipated Gas MCF/D Sec 22 T25S, R33E 407 FNL/2062 FWL 248 1361 Dint Name: Red Hills CTB [See 19.15.27] Ie: Provide the following information for each new or recompleted well or set of well pleted from a single well pad or connected to a central delivery point. API Spud Date TD Reached Completion Commencement Date Back II API Spud Date TD Reached Completion Commencement Date Back II API Spud Date TD Reached Completion Commencement Date Back II API Attach a complete description of how Operator will size separation equipment ices: □ Attach a complete description of the actions Operator will take to comply of 19.15.27.8 NMAC. **To Practices: □ Attach a complete description of Operator's best management practices: □ Attach a complete description of Operator's best management practices: □ Attach a complete description of Operator's best management practices: □ Attach a complete description of Operator's best management practices: □ Attach a complete description of Operator's best management practices: □ Attach a complete description of Operator's best management practices: □ Attach a complete description of Operator's best management practices: □ Attach a complete description of Operator's best management practices: □ Attach a complete description of Operator's best management practices: □ Attach a complete description of Operator's best management practices: □ Attach a complete description of Operator's best management practices: □ Attach a complete description of Operator's best management practices: □ Attach a complete description of Operator's best management practices: □ Attach a complete description of Operator's best management practices: □ Attach a Complete description of Operator's best management practices: □ Attach a Complete description of Operator's be	□ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other. The following information for each new or recompleted well or set of wells proposed to be drilled or proposed in single well pad or connected to a central delivery point. API ULSTR Footages Anticipated Oil BBL/D Gas MCF/D Produced Water BBL/D Sec 32 T25S, R33E 407 FNL/2062 FWL 248 1361 4782 Sint Name: _Red Hills CTB [See 19.15.27.9(D)(1) NMAC] Ite: Provide the following information for each new or recompleted well or set of wells proposed to be drilled from a single well pad or connected to a central delivery point. API Spud Date TD Reached Completion Back Date Date Commencement Date Back Date Date Commencement Date Back Date Date Date Share Date Date Share Date Date Share Date Date Share Date Date Date Share Date Date Date Date Date Share Date Date Date Date Date Date Date Dat

Section 2 **Enhanced Plan**

EFFECTIVE APRIL 1, 2022									
Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable eporting area must complete this section.									
Operator certifies capture requirement			tion because Operator is in o	complia	nce with its statewide natural gas				
IX. Anticipated Na	tural Gas Producti	on:							
W	ell	API	Anticipated Average Natural Gas Rate MCF/D		Anticipated Volume of Natural Gas for the First Year MCF				
X. Natural Gas Ga	thering System (NC	GGS):							
Operator	System	ttem ULSTR of Tie-in Anticipated Gathering Available Maximum Daily Capacity Start Date of System Segment Tie-in							
production operation the segment or portion XII. Line Capacity production volume f	ns to the existing or pon of the natural gas The natural gas gas from the well prior to Operator does	blanned interconnect of the gathering system will thering system will to the date of first product does not anticipate the	he natural gas gathering systewhich the well(s) will be consisted will not have capacity to go tion.	em(s), annected. Eather 10	d pipeline route(s) connecting the nd the maximum daily capacity of 00% of the anticipated natural gas e same segment, or portion, of the essure caused by the new well(s).				
			•	i iine pre	essure caused by the new well(s).				
☐ Attach Operator's	s plan to manage pro	oduction in response to the	ne increased line pressure.						
Section 2 as provide	d in Paragraph (2) o		27.9 NMAC, and attaches a f		8 for the information provided in cription of the specific information				

Section 3 - Certifications <u>Effective May 25, 2021</u>

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

© Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to trace one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first productaking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gat system; or	iction,
□ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transponding percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system of the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system of the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system of the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system of the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.	taking
Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subs D of 19.15.27.9 NMAC; or	ection
Venting and Flaring Plan. □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the po alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:	tential

- (a) power generation on lease;
- **(b)** power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: Shelly Bowen
Printed Name: Shelly Bowen
Title: Sr. Regulatory Analyst
E-mail Address: shelly.bowen@coterra.com
Date: 4/1/2025
Phone: 432/620-1644
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

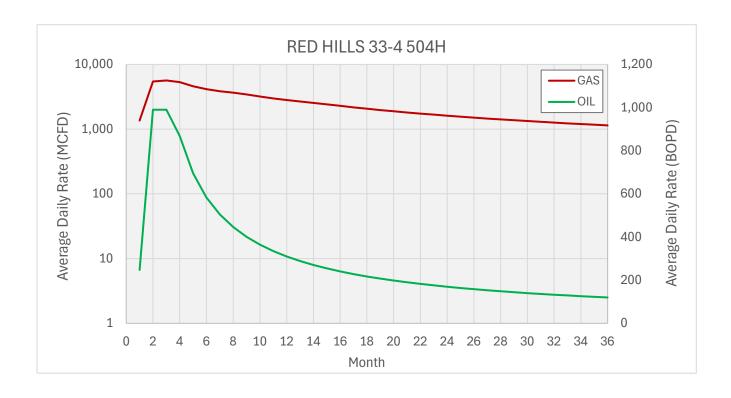
From State of New Mexico, Natural Gas Management Plan

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

XEC Standard Response

Standard facility gas process flow begins at the inlet separator. These vessels are designed based off of forecasted rates and residence times in accordance with, and often greater than, API 12J. The separated gas is then routed to an additional separation vessel (ie sales scrubber) in order to extract liquids that may have carried over or developed due to the decrease in pressure. The sales scrubber is sized based on API 521. From the sales scrubber, the gas leaves the facility and enters the gas midstream gathering network.

RED HILLS 33-4 504H	RED HILLS 33-4 504H
GAS MCFD	OIL BOPD
1361	248
5445	990
5646	990
5327	869
4584	695
4137	583
3849	505
3659	446
3441	401
3188	365
2982	335
2812	310
2669	289
2547	271
2420	255
2288	241
2171	228
2066	217
1971	207
1886	198
1808	190
1737	183
1672	176
1613	170
1557	164
1506	158
1458	153
1414	149
1372	144
1333	140
1296	136
1262	133
1229	129
1199	126
1169	123
1142	120



Cimarex

VII. Operational Practices

Cimarex values the sustainable development of New Mexico's natural resources. Venting and flaring of natural gas is a source of waste in the industry, and Cimarex will ensure that its values are aligned with those of NMOCD. As such, Cimarex plans to take pointed steps to ensure compliance with Subsection A through F of 19.15.27.8 NMAC.

Specifically, below are the steps Cimarex will plan to follow under routine well commissioning and operations.

- 1. Capture or combust natural gas during drilling operations where technically feasible, using the best industry practices and control technologies.
 - a. All flares during these operations will be a minimum of 100ft away from the nearest surface-hole location.
- 2. All gas present during post-completion drill-out and flow back will be routed through separation equipment, and, if technically feasible, flare unsellable vapors rather than vent. Lastly, formal sales separator commissioning to process well-stream fluids and send gas to a gas flow line/collection system or use the gas for on-site fuel or beneficial usage, gas as soon as is safe and technically feasible.
- 3. Cimarex will ensure the flare or combustion equipment is properly sized to handle expected flow rates, ensure this equipment is equipped with an automatic or continuous ignition source, and ensure this equipment is designed for proper combustion efficiency.
- 4. If Cimarex must flare because gas is not meeting pipeline specifications, Cimarex will limit flaring to <60 days, analyze gas composition at least twice per week, and route gas into a gathering pipeline as soon as pipeline specifications are met.
- 5. Under routine production operations, Cimarex will not flare/vent unless:
 - a. Venting or flaring occurs due to an emergency or equipment malfunction.
 - b. Venting or flaring occurs as a result of unloading practices, and an operator is onsite (or within 30 minutes of drive time and posts contact information at the wellsite) until the end of unloading practice.
 - c. The venting or flaring occurs during automated plungerlift operations, in which case the Cimarex operator will work to optimize the plungerlift system to minimize venting/flaring.
 - d. The venting or flaring occurs during downhole well maintenance, in which case Cimarex will work to minimize venting or flaring operations to the extent that it does not pose a risk to safe operations.
 - e. The well is an exploratory well, the division has approved the well as an exploratory well, venting or flaring is limited to 12 months, as approved by the division, and venting/flaring does not cause Cimarex to breach its State-wide 98% gas capture requirement.
 - f. Venting or flaring occurs because the stock tanks or other low-pressure vessels are being gauged, sampled, or liquids are being loaded out.
 - g. The venting or flaring occurs because pressurized vessels are being maintained and are being blown-down or depressurized.
 - h. Venting or flaring occurs as a result of normal dehydration unit operations.

- i. Venting or flaring occurs as a result of bradenhead testing.
- j. Venting or flaring occurs as a result of normal compressor operations, including general compressor operations, compressor engines and turbines.
- k. Venting or flaring occurs as a result of a packer leakage test.
- l. Venting or flaring occurs as a result of a production test lasting less than 24 hours unless otherwise approved by the division.
- m. Venting or flaring occurs as a result of new equipment commissioning and is necessary to purge impurities from the pipeline or production equipment.
- 6. Cimarex will maintain its equipment in accordance with its Operations and Maintenance Program, to ensure venting or flaring events are minimized and that equipment is properly functioning.
- 7. Cimarex will install automatic tank gauging equipment on all production facilities constructed after May 25, 2021, to ensure minimal emissions from tank gauging practices.
- 8. By November 25, 2022, all Cimarex facilities equipped with flares or combustors will be equipped with continuous pilots or automatic igniters, and technology to ensure proper function, i.e. thermocouple, fire-eye, etc...
- 9. Cimarex will perform AVO (audio, visual, olfactory) facility inspections in accordance with NMOCD requirements. Specifically, Cimarex will:
 - a. Perform weekly inspections during the first year of production, and so long as production is greater than 60 MCFD.
 - b. If production is less than 60 MCFD, Cimarex will perform weekly AVO inspections when an operator is present on location, and inspections at least once per calendar month with at least 20 calendar days between inspections.
- 10. Cimarex will measure or estimate the volume of vented, flared or beneficially used natural gas, regardless of the reason or authorization for such venting or flaring.
- 11. On all facilities constructed after May 25, 2021, Cimarex will install metering where feasible and in accordance with available technology and best engineering practices, in an effort to measure how much gas could have been vented or flared.
 - a. In areas where metering is not technically feasible, such as low-pressure/low volume venting or flaring applications, engineering estimates will be used such that the methodology could be independently verified.
- 12. Cimarex will fulfill the division's requirements for reporting and filing of venting or flaring that exceeds 50 MCF in volume or last eight hours or more cumulatively within any 24-hour period.

VIII. Best Management Practices to minimize venting during active and planned maintenance

Cimarex strives to ensure minimal venting occurs during active and planned maintenance activities. Below is a description of common maintenance practices, and the steps Cimarex takes to limit venting exposure.

• Workovers:

- o Always strive to kill well when performing downhole maintenance.
- o If vapors or trapped pressure is present and must be relieved then:
 - Initial blowdown to production facility:
 - Route vapors to LP flare if possible/applicable
 - Blowdown to portable gas buster tank:
 - Vent to existing or portable flare if applicable.

• Stock tank servicing:

- o Minimize time spent with thief hatches open.
- When cleaning or servicing via manway, suck tank bottoms to ensure minimal volatiles exposed to atmosphere.
 - Connect vacuum truck to low pressure flare while cleaning bottoms to limit venting.
- o Isolate the vent lines and overflows on the tank being serviced from other tanks.

• Pressure vessel/compressor servicing and associated blowdowns:

- o Route to flare where possible.
- o Blow vessel down to minimum available pressure via pipeline, prior to venting vessel.
- Preemptively changing anodes to reduce failures and extended corrosion related servicing.
- When cleaning or servicing via manway, suck vessel bottoms to ensure minimal volatiles exposed to atmosphere.

• Flare/combustor maintenance:

- Minimize downtime by coordinating with vendor and Cimarex staff travel logistics.
- Utilizing preventative and predictive maintenance programs to replace high wear components before failure.
- Because the flare/combustor is the primary equipment used to limit venting practices, ensure flare/combustor is properly maintained and fully operational at all times via routine maintenance, temperature telemetry, onsite visual inspections.

The Cimarex expectation is to limit all venting exposure. Equipment that may not be listed on this document is still expected to be maintained and associated venting during such maintenance minimized.

1. Geological Formations

TVD of target 12,871 Pilot Hole TD N/A

MD at TD 23,111 Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	955	N/A	
Top of Salt	1315	N/A	
Base of Salt/Lamar	4900	N/A	
Top Delaware Sands/Bell Canyon	4990	Hydrocarbons	
Cherry Canyon	6365	Hydrocarbons	
Brushy Canyon	7517	Hydrocarbons	
Basal Brushy Canyon	8851	N/A	
Bone Spring Lime	9033	N/A	
Leaonard/Avalon Sand	9117	Hydrocarbons	
Avalon Shale	9360	Hydrocarbons	
1st Bone Spring Sand	9962	Hydrocarbons	
2nd Bone Spring Sand	10561	Hydrocarbons	
3rd Bone Spring Sand	11682	Hydrocarbons	
Wolfcamp	12118	Hydrocarbons	
Wolfcamp B - Target	12961	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
14 3/4	0	1050	1050	10-3/4"	40.50	J-55	BT&C	3.47	6.88	14.79
9 7/8	0	12424	12424	7-5/8"	29.70	HCL-80	BT&C	2.41	1.19	1.85
6 3/4	0	11924	11924	5-1/2"	20.00	P-110	BT&C	1.56	1.74	2.77
6 3/4	11924	23111	12871	5"	18.00	P-110	BT&C	1.83	1.85	72.09
					BLM	Minimum Sa	afety 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

Cimarex Energy Co., Red Hills Unit 504H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Υ
Does casing meet API specifications? If no, attach casing specification sheet.	Υ
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Υ
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Υ
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?	Υ

3. Cementing Program

Casing		Wt. lb/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	408	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	109	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	986	10.30	3.64	22.18	12	Lead: Tuned Light + LCM
	200	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	1384	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS
		•	-	-		

Casing String	тос	% Excess
Surface	0	45
Intermediate	0	49
Production	12224	25

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

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	Туре		Tested To
9 7/8	13 5/8	10M	Annular	Х	100% of working pressure
			Blind Ram		
			Pipe Ram		10M
			Double Ram	X	
			Other		
6 3/4	13 5/8	10M	Annular	Х	100% of working pressure
			Blind Ram		
			Pipe Ram		10M
			Double Ram	Х	
			Other		

	On E	nation integrity test will be performed per Onshore Order #2. 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. De tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.						
Х	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?						

4

5. Mud Program

Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0' to 1050'	Fresh Water	7.83 - 8.33	28	N/C
1050' to 12424'	Brine Diesel Emulsion	8.50 - 9.00	30-35	N/C
12424' to 23111'	ОВМ	10.50 - 11.00	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.

The Brine Emulsion is completely saturated brine fluid that ties diesel into itself to lower the weight of the fluid. The drilling fluid is completely salt saturated.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

6. Logging and Testing Procedures

Logg	Logging, Coring and Testing								
	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.								
Х	No logs are planned based on well control or offset log information.								
	Drill stem test?								
	Coring?								

Additional Logs Planned	Interval
7 20 gs	

7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	7362 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

- 1. The multi-bowl wellhead will be installed by a vendor representative. A copy of the installation instructions has been sent to the BLM field office.
- 2. A packoff will be installed after running and cementing the production casing. This packoff will be tested to 10K psi.

BOPE Additional Information & Testing

1. After running the first string of casing, a 10M BOP/BOPE system with 5M annular will be installed. BOPs will be tested according to Onshore Order #2. BOPE will be

tested to full rated pressure (10K for all BOPE except the annular, which is tested to 5K). For the low test, the system will be tested to 250 psi.

- 2. All BOP equipment will be tested utilizing a conventional test plug.
- 3. A remote kill line is included in the BOPE system
- 4. All casing strings will be tested per Onshore Order #2, to 0.22 psi/ft or 1,500 psi, whichever is greater, not to exceed 70% of casing burst.
- 5. If well conditions dictate, conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.

Additional Well Control Notes

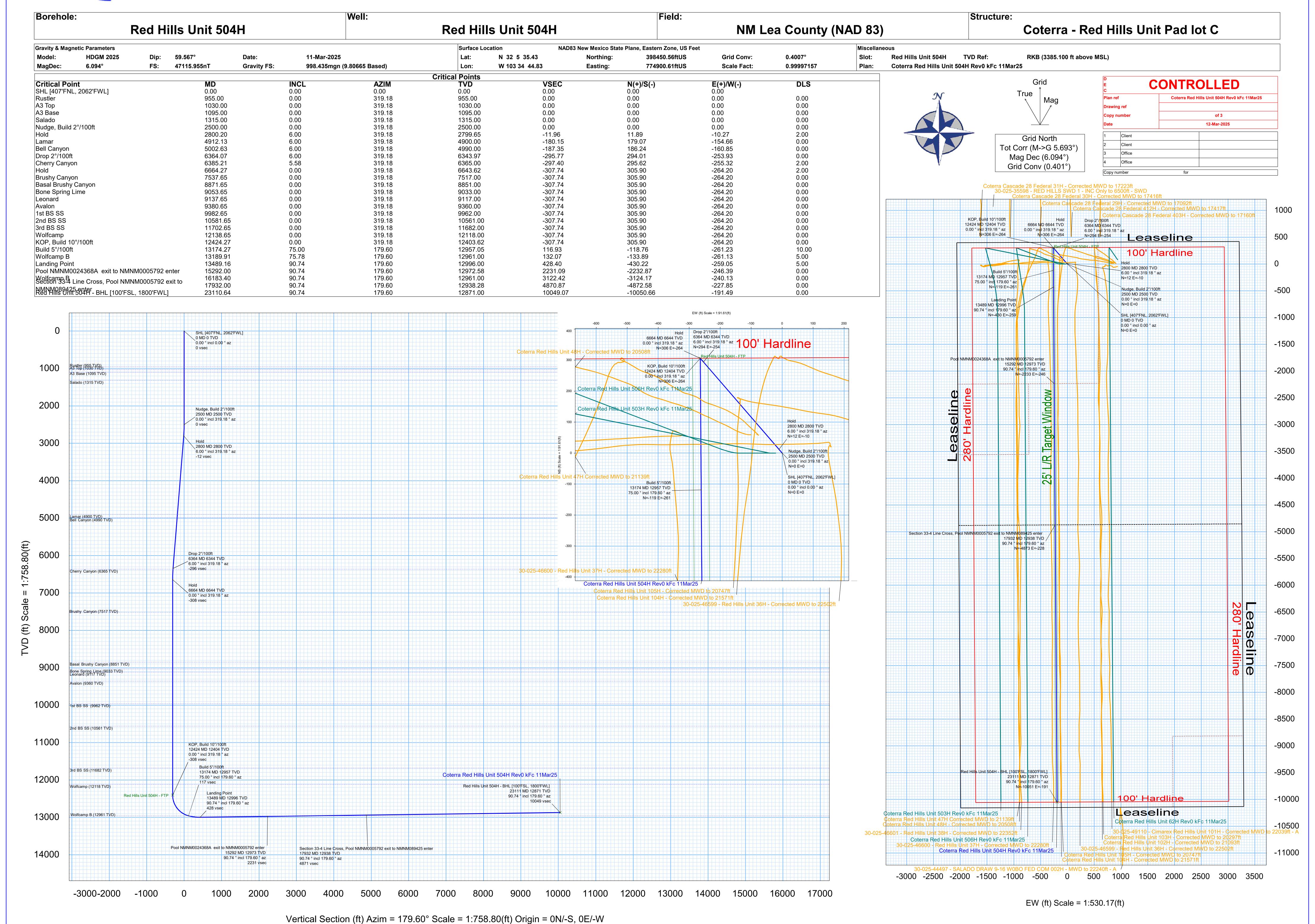
1. In the event wellbore pressure encroaches to the maximum rated pressure of the annular, primary pressure control will be switched to the higher rated components (i.e., switch from annular to pipe rams) – upper pipe rams will be closed, and the annular opened in order to not exceed maximum rated pressures.



COTERRA







Received by OCD: 9/3/2025 8:28:01 AM Page 25 of 101



Survey Name:

Coterra Red Hills Unit 504H Rev0 kFc 11Mar25 Proposal Geodetic Report

Def Plan

Report Date: Client: Field: Structure / Slot:

COTERRA NM Lea County (NAD 83) Coterra - Red Hills Unit Pad lot C / Red Hills Unit 504H Red Hills Unit 504H Well: Red Hills Unit 504H Borehole: UBHI / API#: Unknown / Unknown

March 12, 2025 - 04:10 PM (UTC 0)

Coterra Red Hills Unit 504H Rev0 kFc 11Mar25

Survey Date: March 12, 2025 Tort / AHD / DDI / ERD Ratio: 102.752 ° / 10761.007 ft / 6.294 / 0.828 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet Location Lat / Long: 32°5'35.42922"N, 103°34'44.83482"W

Location Grid N/E Y/X: N 398450.560 ftUS , E 774900.610 ftUS **CRS Grid Convergence Angle:** 0.401° **Grid Scale Factor:** 0.99997157(Applied)

2024.5.0.1

Version / Patch:

Gravity Model: Total Magnetic Field Strength: Magnetic Dip Angle: **Declination Date: Magnetic Declination Model:** North Reference:

Total Gravity Field Strength:

Grid Convergence Used: Total Corr Mag North->Grid North: Local Coord Referenced To: Well Head

Minimum Curvature / Lubinski Survey / DLS Computation: 179.600 °(GRID North) **Vertical Section Azimuth:** 0.000 ft, 0.000 ft **Vertical Section Origin:** TVD Reference Datum: RKB TVD Reference Elevation: 3385.100 ft above MSL 3362.100 ft above MSL Seabed / Ground Elevation: **Magnetic Declination:** 6.094°

> **GARM** 47115.955 nT 59.567° March 11, 2025 HDGM 2025 Grid North 0.401° 5.693°

998.4352mgn (9.80665 Based)

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
SHL [407'FNL, 2062'FWL]	0.00 100.00	0.00 0.00	0.00 319.18	0.00 100.00	-3,385.10 -3,285.10	0.00 0.00	0.00 0.00	0.00 0.00	398,450.56 398,450.56	774,900.61 774,900.61	32.09317478	-103.57912078 -103.57912078	0.00	0.00	0.00
	200.00 300.00	0.00 0.00	319.18 319.18	200.00 300.00	-3,185.10 -3,085.10	0.00 0.00	0.00 0.00	0.00 0.00	398,450.56 398,450.56	774,900.61 774,900.61		-103.57912078 -103.57912078	0.00 0.00	0.00 0.00	0.00 0.00
	400.00 500.00	0.00 0.00	319.18 319.18	400.00 500.00	-2,985.10 -2,885.10	0.00 0.00	0.00 0.00	0.00 0.00	398,450.56 398,450.56	774,900.61 774,900.61		-103.57912078 -103.57912078	0.00 0.00	0.00 0.00	0.00 0.00
	600.00 700.00	0.00 0.00	319.18 319.18	600.00 700.00	-2,785.10 -2,685.10	0.00 0.00	0.00 0.00	0.00 0.00	398,450.56 398,450.56	774,900.61 774,900.61		-103.57912078 -103.57912078	0.00 0.00	0.00 0.00	0.00 0.00
	800.00 900.00	0.00 0.00	319.18 319.18	800.00 900.00	-2,585.10 -2,485.10	0.00 0.00	0.00 0.00	0.00 0.00	398,450.56 398,450.56	774,900.61 774,900.61	32.09317478	-103.57912078 -103.57912078	0.00 0.00	0.00 0.00	0.00 0.00
Rustler□	955.00	0.00	319.18	955.00	-2,430.10	0.00	0.00	0.00	398,450.56	774,900.61	32.09317478	-103.57912078	0.00	0.00	0.00
A3 Top□	1,000.00 1,030.00	0.00 0.00	319.18 319.18	1,000.00 1,030.00	-2,385.10 -2,355.10	0.00 0.00	0.00 0.00	0.00 0.00	398,450.56 398,450.56	774,900.61 774,900.61	32.09317478	-103.57912078 -103.57912078	0.00 0.00	0.00 0.00	0.00 0.00
A3 Base□	1,095.00 1,100.00	0.00 0.00	319.18 319.18	1,095.00 1,100.00	-2,290.10 -2,285.10	0.00 0.00	0.00 0.00	0.00 0.00	398,450.56 398,450.56	774,900.61 774,900.61		-103.57912078 -103.57912078	0.00 0.00	0.00 0.00	0.00 0.00
	1,200.00 1,300.00	0.00 0.00	319.18 319.18	1,200.00 1,300.00	-2,185.10 -2,085.10	0.00 0.00	0.00 0.00	0.00 0.00	398,450.56 398,450.56	774,900.61 774,900.61		-103.57912078 -103.57912078	0.00 0.00	0.00 0.00	0.00 0.00
Salado□	1,315.00 1,400.00	0.00 0.00	319.18 319.18	1,315.00 1,400.00	-2,070.10 -1,985.10	0.00 0.00	0.00 0.00	0.00 0.00	398,450.56 398,450.56	774,900.61 774,900.61		-103.57912078 -103.57912078	0.00 0.00	0.00 0.00	0.00 0.00
	1,500.00 1,600.00	0.00 0.00	319.18 319.18	1,500.00 1,600.00	-1,885.10 -1,785.10	0.00 0.00	0.00 0.00	0.00 0.00	398,450.56 398,450.56	774,900.61 774,900.61	32.09317478	-103.57912078 -103.57912078	0.00 0.00	0.00 0.00	0.00 0.00
	1,700.00 1,800.00	0.00 0.00	319.18 319.18	1,700.00 1,800.00	-1,685.10 -1,585.10	0.00 0.00	0.00 0.00	0.00 0.00	398,450.56 398,450.56	774,900.61 774,900.61	32.09317478	-103.57912078 -103.57912078	0.00 0.00	0.00 0.00	0.00 0.00
	1,900.00	0.00	319.18	1,900.00	-1,485.10	0.00	0.00	0.00	398,450.56	774,900.61	32.09317478	-103.57912078	0.00	0.00	0.00
	2,000.00 2,100.00	0.00	319.18 319.18	2,000.00 2,100.00	-1,385.10 -1,285.10	0.00	0.00	0.00	398,450.56 398,450.56	774,900.61 774,900.61	32.09317478	-103.57912078 -103.57912078	0.00 0.00	0.00	0.00
	2,200.00 2,300.00	0.00 0.00	319.18 319.18	2,200.00 2,300.00	-1,185.10 -1,085.10	0.00 0.00	0.00 0.00	0.00 0.00	398,450.56 398,450.56	774,900.61 774,900.61	32.09317478	-103.57912078 -103.57912078	0.00 0.00	0.00 0.00	0.00 0.00
Nudge, Build 2°/100ft	2,400.00 2,500.00	0.00 0.00	319.18 319.18	2,400.00 2,500.00	-985.10 -885.10	0.00 0.00	0.00 0.00	0.00 0.00	398,450.56 398,450.56	774,900.61 774,900.61		-103.57912078 -103.57912078	0.00 0.00	0.00 0.00	0.00 0.00
	2,600.00 2,700.00	2.00 4.00	319.18 319.18	2,599.98 2,699.84	-785.12 -685.26	-1.33 -5.31	1.32 5.28	-1.14 -4.56	398,451.88 398,455.84	774,899.47 774,896.05		-103.57912444 -103.57913539	2.00 2.00	2.00 2.00	0.00 0.00
Hold	2,800.00 2,800.20	6.00 6.00	319.18 319.18	2,799.45 2,799.65	-585.65 -585.45	-11.95 -11.96	11.88 11.89	-10.26 -10.27	398,462.44 398,462.45	774,890.35 774,890.34		-103.57915364 -103.57915368	2.00 2.00	2.00 2.00	0.00 0.00
	2,900.00 3,000.00	6.00 6.00	319.18 319.18	2,898.90 2,998.35	-486.20 -386.75	-19.91 -27.88	19.79 27.71	-17.09 -23.93	398,470.35 398,478.27	774,883.52 774,876.68	32.09322952	-103.57917553 -103.57919743	0.00 0.00	0.00 0.00	0.00 0.00
	3,100.00 3,200.00	6.00 6.00	319.18 319.18	3,097.81 3,197.26	-287.29 -187.84	-35.84 -43.80	35.62 43.54	-30.77 -37.61	398,486.18 398,494.10	774,869.84 774,863.01	32.09327330	-103.57921933 -103.57924122	0.00 0.00	0.00 0.00	0.00 0.00
	3,300.00	6.00	319.18	3,296.71	-88.39	-51.77	51.46	-44.44	398,502.02	774,856.17	32.09331707	-103.57926312	0.00	0.00	0.00
	3,400.00 3,500.00	6.00 6.00	319.18 319.18	3,396.16 3,495.61	11.06 110.51	-59.73 -67.69	59.37 67.29	-51.28 -58.12	398,509.93 398,517.85	774,849.33 774,842.50	32.09336085	-103.57928501 -103.57930691	0.00 0.00	0.00 0.00	0.00 0.00
	3,600.00 3,700.00	6.00 6.00	319.18 319.18	3,595.06 3,694.52	209.96 309.42	-75.66 -83.62	75.20 83.12	-64.95 -71.79	398,525.76 398,533.68	774,835.66 774,828.82	32.09340463	-103.57932881 -103.57935070	0.00 0.00	0.00 0.00	0.00 0.00
	3,800.00 3,900.00	6.00 6.00	319.18 319.18	3,793.97 3,893.42	408.87 508.32	-91.58 -99.55	91.04 98.95	-78.63 -85.46	398,541.59 398,549.51	774,821.99 774,815.15		-103.57937260 -103.57939450	0.00 0.00	0.00 0.00	0.00 0.00
	4,000.00 4,100.00	6.00 6.00	319.18 319.18	3,992.87 4,092.32	607.77 707.22	-107.51 -115.47	106.87 114.78	-92.30 -99.14	398,557.43 398,565.34	774,808.31 774,801.48		-103.57941639 -103.57943829	0.00 0.00	0.00 0.00	0.00 0.00
	4,200.00 4,300.00	6.00 6.00	319.18 319.18	4,191.77 4,291.22	806.67 906.12	-123.44 -131.40	122.70 130.62	-105.97 -112.81	398,573.26 398,581.17	774,794.64 774,787.80		-103.57946018 -103.57948208	0.00 0.00	0.00 0.00	0.00 0.00
	4,400.00 4,500.00	6.00 6.00	319.18 319.18	4,390.68 4,490.13	1,005.58 1,105.03	-139.36 -147.33	138.53 146.45	-119.65 -126.48	398,589.09 398,597.00	774,780.97 774,774.13	32.09355786	-103.57950398 -103.57952587	0.00 0.00	0.00 0.00	0.00 0.00
	4,600.00 4,700.00	6.00 6.00	319.18 319.18	4,589.58 4,689.03	1,204.48 1,303.93	-155.29 -163.25	154.36 162.28	-133.32 -140.16	398,604.92 398,612.83	774,767.29 774,760.46	32.09360164	-103.57954777 -103.57956967	0.00 0.00	0.00 0.00	0.00 0.00
	4,800.00 4,900.00	6.00 6.00	319.18 319.18	4,788.48 4,887.93	1,403.38 1,502.83	-171.22 -179.18	170.20 178.11	-146.99 -153.83	398,620.75 398,628.67	774,753.62 774,746.78	32.09364542	-103.57959156 -103.57961346	0.00 0.00	0.00 0.00	0.00 0.00
Lamar□	4,912.13 5,000.00	6.00 6.00	319.18 319.18	4,900.00 4,987.38	1,514.90 1,602.28	-180.15 -187.14	179.07 186.03	-154.66 -160.67	398,629.63 398,636.58	774,745.95 774,739.95	32.09366996	-103.57961611 -103.57963535	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Bell Canyon□	5,002.63	6.00	319.18	4,990.00	1,604.90	-187.35	186.24	-160.85	398,636.79	774,739.77	32.09368977	-103.57963593	0.00	0.00	0.00
	5,100.00 5,200.00	6.00 6.00	319.18 319.18	5,086.84 5,186.29	1,701.74 1,801.19	-195.11 -203.07	193.94 201.86	-167.50 -174.34	398,644.50 398,652.41	774,733.11 774,726.27	32.09373297	-103.57965725 -103.57967915	0.00 0.00	0.00 0.00	0.00 0.00
	5,300.00 5,400.00	6.00 6.00	319.18 319.18	5,285.74 5,385.19	1,900.64 2,000.09	-211.04 -219.00	209.78 217.69	-181.18 -188.02	398,660.33 398,668.24	774,719.44 774,712.60	32.09377675	-103.57970104 -103.57972294	0.00 0.00	0.00 0.00	0.00 0.00
	5,500.00 5,600.00	6.00 6.00	319.18 319.18	5,484.64 5,584.09	2,099.54 2,198.99	-226.96 -234.93	225.61 233.52	-194.85 -201.69	398,676.16 398,684.08	774,705.76 774,698.93	32.09382053	-103.57974484 -103.57976673	0.00 0.00	0.00 0.00	0.00 0.00
	5,700.00 5,800.00	6.00 6.00	319.18 319.18	5,683.54 5,783.00	2,298.44 2,397.90	-242.89 -250.85	241.44 249.36	-208.53 -215.36	398,691.99 398,699.91	774,692.09 774,685.25	32.09386431	-103.57978863 -103.57981052	0.00 0.00	0.00 0.00	0.00 0.00
	5,900.00 6,000.00	6.00 6.00	319.18 319.18	5,882.45 5,981.90	2,497.35 2,596.80	-258.82 -266.78	257.27 265.19	-222.20 -229.04	398,707.82 398,715.74	774,678.42 774,671.58		-103.57983242 -103.57985432	0.00 0.00	0.00 0.00	0.00 0.00
	6,100.00 6,200.00	6.00 6.00	319.18 319.18	6,081.35 6,180.80	2,696.25 2,795.70	-274.74 -282.71	273.10 281.02	-235.87 -242.71	398,723.65 398,731.57	774,664.74 774,657.91		-103.57987621 -103.57989811	0.00 0.00	0.00 0.00	0.00 0.00
Drop 2°/100ft	6,300.00 6,364.07	6.00 6.00	319.18 319.18	6,280.25 6,343.97	2,895.15 2,958.87	-290.67 -295.77	288.93 294.01	-249.55 -253.93	398,739.49 398,744.56	774,651.07 774,646.69	32.09397376	-103.57992001 -103.57993404	0.00 0.00	0.00 0.00	0.00 0.00
Cherry Canyon□	6,385.21 6,400.00	5.58 5.29	319.18 319.18	6,365.00 6,379.73	2,979.90 2,994.63	-297.40 -298.46	295.62 296.68	-255.32 -256.24	398,746.17 398,747.23	774,645.30 774,644.38	32.09399225	-103.57993850 -103.57994143	2.00 2.00	-2.00 -2.00	0.00 0.00
	6,500.00	3.29	319.18	6,479.44	3,094.34	-304.15	302.34	-261.12	398,752.89	774,639.50	32.09401081	-103.57995708	2.00	-2.00	0.00
Hold	6,600.00 6,664.27	1.29 0.00	319.18 319.18	6,579.36 6,643.62	3,194.26 3,258.52	-307.19 -307.74	305.35 305.90	-263.73 -264.20	398,755.90 398,756.45	774,636.89 774,636.42	32.09402067	-103.57996542 -103.57996693	2.00 2.00	-2.00 -2.00	0.00 0.00
	6,700.00 6,800.00	0.00 0.00	319.18 319.18	6,679.35 6,779.35	3,294.25 3,394.25	-307.74 -307.74	305.90 305.90	-264.20 -264.20	398,756.45 398,756.45	774,636.42 774,636.42	32.09402067	-103.57996693 -103.57996693	0.00 0.00	0.00 0.00	0.00 0.00
	6,900.00 7,000.00	0.00 0.00	319.18 319.18	6,879.35 6,979.35	3,494.25 3,594.25	-307.74 -307.74	305.90 305.90	-264.20 -264.20	398,756.45 398,756.45	774,636.42 774,636.42	32.09402067	-103.57996693 -103.57996693	0.00 0.00	0.00 0.00	0.00 0.00
	7,100.00 7,200.00	0.00 0.00	319.18 319.18	7,079.35 7,179.35	3,694.25 3,794.25	-307.74 -307.74	305.90 305.90	-264.20 -264.20	398,756.45 398,756.45	774,636.42 774,636.42		-103.57996693 -103.57996693	0.00 0.00	0.00 0.00	0.00 0.00
	7,300.00 7,400.00	0.00 0.00	319.18 319.18	7,279.35 7,379.35	3,894.25 3,994.25	-307.74 -307.74	305.90 305.90	-264.20 -264.20	398,756.45 398,756.45	774,636.42 774,636.42		-103.57996693 -103.57996693	0.00 0.00	0.00 0.00	0.00 0.00
Brushy Canyon□	7,500.00 7,537.65	0.00 0.00	319.18 319.18	7,479.35 7,517.00	4,094.25 4,131.90	-307.74 -307.74	305.90 305.90	-264.20 -264.20	398,756.45 398,756.45	774,636.42 774,636.42		-103.57996693 -103.57996693	0.00 0.00	0.00 0.00	0.00 0.00
	7,600.00 7,700.00	0.00 0.00	319.18 319.18	7,579.35 7,679.35	4,194.25 4,294.25	-307.74 -307.74	305.90 305.90	-264.20 -264.20	398,756.45 398,756.45	774,636.42 774,636.42	32.09402067	-103.57996693 -103.57996693	0.00 0.00	0.00 0.00	0.00 0.00
	7,800.00 7,900.00	0.00 0.00	319.18 319.18	7,779.35 7,879.35	4,394.25 4,494.25	-307.74 -307.74	305.90 305.90	-264.20 -264.20	398,756.45 398,756.45	774,636.42 774,636.42	32.09402067	-103.57996693 -103.57996693	0.00 0.00	0.00 0.00	0.00 0.00
	8,000.00	0.00	319.18	7,979.35	4,594.25	-307.74	305.90	-264.20	398,756.45	774,636.42	32.09402067	-103.57996693	0.00	0.00	0.00
	8,100.00 8,200.00	0.00 0.00	319.18 319.18	8,079.35 8,179.35	4,694.25 4,794.25	-307.74 -307.74	305.90 305.90	-264.20 -264.20	398,756.45 398,756.45	774,636.42 774,636.42	32.09402067	-103.57996693 -103.57996693	0.00 0.00	0.00 0.00	0.00 0.00
	8,300.00 8,400.00	0.00 0.00	319.18 319.18	8,279.35 8,379.35	4,894.25 4,994.25	-307.74 -307.74	305.90 305.90	-264.20 -264.20	398,756.45 398,756.45	774,636.42 774,636.42	32.09402067	-103.57996693 -103.57996693	0.00 0.00	0.00 0.00	0.00 0.00
	8,500.00 8,600.00	0.00 0.00	319.18 319.18	8,479.35 8,579.35	5,094.25 5,194.25	-307.74 -307.74	305.90 305.90	-264.20 -264.20	398,756.45 398,756.45	774,636.42 774,636.42	32.09402067	-103.57996693 -103.57996693	0.00 0.00	0.00 0.00	0.00 0.00
	8,700.00 8,800.00	0.00 0.00	319.18 319.18	8,679.35 8,779.35	5,294.25 5,394.25	-307.74 -307.74	305.90 305.90	-264.20 -264.20	398,756.45 398,756.45	774,636.42 774,636.42	32.09402067	-103.57996693 -103.57996693	0.00 0.00	0.00 0.00	0.00 0.00
Basal Brushy Canyon□	8,871.65 8,900.00	0.00 0.00	319.18 319.18	8,851.00 8,879.35	5,465.90 5,494.25	-307.74 -307.74	305.90 305.90	-264.20 -264.20	398,756.45 398,756.45	774,636.42 774,636.42		-103.57996693 -103.57996693	0.00 0.00	0.00 0.00	0.00 0.00
Bone Spring Lime□	9,000.00 9,053.65	0.00 0.00	319.18 319.18	8,979.35 9,033.00	5,594.25 5,647.90	-307.74 -307.74	305.90 305.90	-264.20 -264.20	398,756.45 398,756.45	774,636.42 774,636.42	32.09402067	-103.57996693 -103.57996693	0.00 0.00	0.00 0.00	0.00 0.00
Leonard□	9,100.00 9,137.65	0.00 0.00	319.18 319.18	9,079.35 9,117.00	5,694.25 5,731.90	-307.74 -307.74	305.90 305.90	-264.20 -264.20	398,756.45 398,756.45	774,636.42 774,636.42	32.09402067	-103.57996693 -103.57996693	0.00 0.00	0.00 0.00	0.00 0.00
_	9,200.00 9,300.00	0.00 0.00	319.18 319.18	9,179.35 9,279.35	5,794.25 5,894.25	-307.74 -307.74	305.90 305.90	-264.20 -264.20	398,756.45 398,756.45	774,636.42 774,636.42	32.09402067	-103.57996693 -103.57996693	0.00 0.00	0.00 0.00	0.00 0.00
Avalon□	9,380.65	0.00	319.18	9,360.00	5,974.90	-307.74	305.90	-264.20	398,756.45	774,636.42		-103.57996693	0.00	0.00	0.00

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
	9,400.00 9,500.00 9,600.00	0.00 0.00 0.00	319.18 319.18 319.18	9,379.35 9,479.35 9,579.35	5,994.25 6,094.25 6,194.25	-307.74 -307.74 -307.74	305.90 305.90 305.90	-264.20 -264.20 -264.20	398,756.45 398,756.45 398,756.45	774,636.42 774,636.42 774,636.42	32.09402067	-103.57996693 -103.57996693 -103.57996693	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	9,700.00 9,800.00	0.00 0.00	319.18 319.18	9,679.35 9,779.35	6,294.25 6,394.25	-307.74 -307.74	305.90 305.90	-264.20 -264.20	398,756.45 398,756.45	774,636.42 774,636.42	32.09402067 32.09402067	-103.57996693 -103.57996693	0.00 0.00	0.00 0.00	0.00 0.00
1st BS SS □	9,900.00 9,982.65	0.00 0.00	319.18 319.18	9,879.35 9,962.00	6,494.25 6,576.90	-307.74 -307.74	305.90 305.90	-264.20 -264.20	398,756.45 398,756.45	774,636.42 774,636.42	32.09402067	-103.57996693 -103.57996693 -103.57996693	0.00 0.00	0.00 0.00	0.00
	10,000.00 10,100.00 10,200.00	0.00 0.00 0.00	319.18 319.18 319.18	9,979.35 10,079.35 10,179.35	6,594.25 6,694.25 6,794.25	-307.74 -307.74 -307.74	305.90 305.90 305.90	-264.20 -264.20 -264.20	398,756.45 398,756.45 398,756.45	774,636.42 774,636.42 774,636.42	32.09402067	-103.57996693 -103.57996693	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	10,300.00 10,400.00	0.00 0.00	319.18 319.18	10,279.35 10,379.35	6,894.25 6,994.25	-307.74 -307.74	305.90 305.90	-264.20 -264.20	398,756.45 398,756.45	774,636.42 774,636.42	32.09402067	-103.57996693 -103.57996693	0.00 0.00	0.00 0.00	0.00 0.00
2nd BS SS□	10,500.00 10,581.65	0.00 0.00	319.18 319.18	10,479.35 10,561.00	7,094.25 7,175.90	-307.74 -307.74	305.90 305.90	-264.20 -264.20	398,756.45 398,756.45	774,636.42 774,636.42	32.09402067	-103.57996693 -103.57996693	0.00 0.00	0.00 0.00	0.00
	10,600.00 10,700.00 10,800.00	0.00 0.00 0.00	319.18 319.18 319.18	10,579.35 10,679.35 10,779.35	7,194.25 7,294.25 7,394.25	-307.74 -307.74 -307.74	305.90 305.90 305.90	-264.20 -264.20 -264.20	398,756.45 398,756.45 398,756.45	774,636.42 774,636.42 774,636.42	32.09402067	-103.57996693 -103.57996693 -103.57996693	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	10,900.00 11,000.00	0.00 0.00	319.18 319.18	10,879.35 10,979.35	7,494.25 7,594.25	-307.74 -307.74	305.90 305.90	-264.20 -264.20	398,756.45 398,756.45	774,636.42 774,636.42	32.09402067	-103.57996693 -103.57996693	0.00 0.00	0.00 0.00	0.00
	11,100.00 11,200.00	0.00 0.00	319.18 319.18	11,079.35 11,179.35	7,694.25 7,794.25	-307.74 -307.74	305.90 305.90	-264.20 -264.20	398,756.45 398,756.45	774,636.42 774,636.42	32.09402067	-103.57996693 -103.57996693	0.00 0.00	0.00 0.00	0.00
	11,300.00 11,400.00 11,500.00	0.00 0.00 0.00	319.18 319.18 319.18	11,279.35 11,379.35 11,479.35	7,894.25 7,994.25 8,094.25	-307.74 -307.74 -307.74	305.90 305.90 305.90	-264.20 -264.20 -264.20	398,756.45 398,756.45 398,756.45	774,636.42 774,636.42 774,636.42	32.09402067	-103.57996693 -103.57996693 -103.57996693	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	11,600.00 11,700.00	0.00 0.00 0.00	319.18 319.18	11,479.35 11,579.35 11,679.35	8,194.25 8,294.25	-307.74 -307.74 -307.74	305.90 305.90 305.90	-264.20 -264.20 -264.20	398,756.45 398,756.45	774,636.42 774,636.42	32.09402067	-103.57996693 -103.57996693	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00
3rd BS SS□	11,702.65 11,800.00	0.00 0.00	319.18 319.18	11,682.00 11,779.35	8,296.90 8,394.25	-307.74 -307.74	305.90 305.90	-264.20 -264.20	398,756.45 398,756.45	774,636.42 774,636.42	32.09402067 32.09402067	-103.57996693 -103.57996693	0.00 0.00	0.00 0.00	0.00 0.00
	11,900.00 12,000.00	0.00	319.18 319.18	11,879.35 11,979.35	8,494.25 8,594.25	-307.74 -307.74	305.90 305.90	-264.20 -264.20	398,756.45 398,756.45	774,636.42 774,636.42	32.09402067	-103.57996693 -103.57996693	0.00 0.00	0.00 0.00	0.00
Wolfcamp□	12,100.00 12,138.65 12,200.00	0.00 0.00 0.00	319.18 319.18 319.18	12,079.35 12,118.00 12,179.35	8,694.25 8,732.90 8,794.25	-307.74 -307.74 -307.74	305.90 305.90 305.90	-264.20 -264.20 -264.20	398,756.45 398,756.45 398,756.45	774,636.42 774,636.42 774,636.42	32.09402067	-103.57996693 -103.57996693 -103.57996693	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	12,300.00 12,400.00	0.00 0.00	319.18 319.18	12,279.35 12,379.35	8,894.25 8,994.25	-307.74 -307.74	305.90 305.90	-264.20 -264.20	398,756.45 398,756.45	774,636.42 774,636.42	32.09402067	-103.57996693 -103.57996693	0.00 0.00	0.00 0.00	0.00 0.00
KOP, Build 10°/100ft	12,424.27 12,500.00	0.00 7.57	319.18 179.60	12,403.62 12,479.13	9,018.52 9,094.03	-307.74 -302.74	305.90 300.90	-264.20 -264.16	398,756.45 398,751.45	774,636.42 774,636.45	32.09400693	-103.57996693 -103.57996693	0.00 10.00	0.00 10.00	0.00
	12,600.00 12,700.00 12,800.00	17.57 27.57 37.57	179.60 179.60 179.60	12,576.61 12,668.83 12,753.00	9,191.51 9,283.73 9,367.90	-281.00 -242.66 -188.89	279.16 240.82 187.06	-264.01 -263.74 -263.37	398,729.71 398,691.38 398,637.61	774,636.61 774,636.87 774,637.25	32.09384179	-103.57996693 -103.57996693 -103.57996693	10.00 10.00 10.00	10.00 10.00 10.00	0.00 0.00 0.00
	12,900.00 12,900.00 13,000.00	47.57 57.57	179.60 179.60	12,826.54 12,887.24	9,441.44 9,502.14	-121.32 -42.01	119.49 40.18	-262.90 -262.34	398,570.05 398,490.74	774,637.72 774,638.28	32.09350827	-103.57996694 -103.57996694	10.00 10.00 10.00	10.00 10.00 10.00	0.00
Build 5°/100ft	13,100.00 13,174.27	67.57 75.00	179.60 179.60	12,933.24 12,957.05	9,548.14 9,571.95	46.64 116.93	-48.47 -118.76	-261.72 -261.23	398,402.10 398,331.81	774,638.89 774,639.38	32.09304660 32.09285339	-103.57996694 -103.57996694	10.00 10.00	10.00 10.00	0.00
Wolfcamp B□	13,189.91 13,200.00	75.78 76.29	179.60 179.60	12,961.00 12,963.44	9,575.90 9,578.34	132.07 141.86	-133.89 -143.68	-261.13 -261.06	398,316.67 398,306.88	774,639.49 774,639.56	32.09278486	-103.57996694 -103.57996694	5.00 5.00	5.00 5.00	0.00
Landing Point	13,300.00 13,400.00 13,489.16	81.29 86.29 90.74	179.60 179.60 179.60	12,982.88 12,993.70 12,996.00	9,597.78 9,608.60 9,610.90	239.92 339.30 428.40	-241.74 -341.12 -430.22	-260.37 -259.68 -259.05	398,208.83 398,109.45 398,020.35	774,640.24 774,640.94 774,641.57	32.09224216	-103.57996694 -103.57996693 -103.57996692	5.00 5.00 5.00	5.00 5.00 5.00	0.00 0.00 0.00
Landing Fount	13,500.00 13,600.00	90.74 90.74	179.60 179.60	12,995.86 12,994.56	9,610.76 9,609.46	439.25 539.24	-441.06 -541.05	-258.98 -258.27	398,009.51 397,909.52	774,641.64 774,642.34	32.09196743	-103.57996692 -103.57996691	0.00 0.00	0.00 0.00	0.00
	13,700.00 13,800.00	90.74 90.74	179.60 179.60	12,993.26 12,991.97	9,608.16 9,606.87	639.23 739.22	-641.04 -741.03	-257.57 -256.87	397,809.54 397,709.55	774,643.05 774,643.75	32.09114289	-103.57996690 -103.57996689	0.00 0.00	0.00 0.00	0.00
	13,900.00 14,000.00 14,100.00	90.74 90.74 90.74	179.60 179.60 179.60	12,990.67 12,989.37 12,988.07	9,605.57 9,604.27 9,602.97	839.21 939.20 1,039.20	-841.02 -941.01 -1,041.00	-256.17 -255.46 -254.76	397,609.56 397,509.58 397,409.59	774,644.45 774,645.15 774,645.86	32.09059319	-103.57996687 -103.57996686 -103.57996685	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	14,200.00 14,300.00	90.74 90.74 90.74	179.60 179.60 179.60	12,986.07 12,986.77 12,985.47	9,601.67 9,600.37	1,039.20 1,139.19 1,239.18	-1,041.00 -1,140.99 -1,240.98	-254.06 -253.36	397,309.61 397,209.62	774,646.56 774,647.26	32.09004350	-103.57996684 -103.57996682	0.00 0.00 0.00	0.00 0.00 0.00	0.00
	14,400.00 14,500.00	90.74 90.74	179.60 179.60	12,984.17 12,982.87	9,599.07 9,597.77	1,339.17 1,439.16	-1,340.97 -1,440.96	-252.66 -251.95	397,109.63 397,009.65	774,647.96 774,648.66	32.08949380 32.08921895	-103.57996681 -103.57996680	0.00 0.00	0.00 0.00	0.00 0.00
	14,600.00 14,700.00	90.74 90.74	179.60 179.60	12,981.57 12,980.27	9,596.47 9,595.17	1,539.15 1,639.14	-1,540.94 -1,640.93	-251.25 -250.55	396,909.66 396,809.68	774,649.37 774,650.07	32.08866926	-103.57996679 -103.57996678	0.00 0.00	0.00 0.00	0.00
	14,800.00 14,900.00 15,000.00	90.74 90.74 90.74	179.60 179.60 179.60	12,978.97 12,977.67 12,976.37	9,593.87 9,592.57 9,591.27	1,739.14 1,839.13 1,939.12	-1,740.92 -1,840.91 -1,940.90	-249.85 -249.14 -248.44	396,709.69 396,609.70 396,509.72	774,650.77 774,651.47 774,652.18	32.08811956	-103.57996676 -103.57996675 -103.57996674	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	15,100.00 15,200.00	90.74 90.74	179.60 179.60	12,975.08 12,973.78	9,589.98 9,588.68	2,039.11 2,139.10	-2,040.89 -2,140.88	-247.74 -247.04	396,409.73 396,309.75	774,652.88 774,653.58	32.08756987	-103.57996673 -103.57996672	0.00 0.00	0.00 0.00	0.00
Pool NMNM0024368A exit to N	15,292.00 15,300.00	90.74 90.74	179.60 179.60	12,972.58 12,972.48	9,587.48 9,587.38	2,231.09 2,239.09	-2,232.87 -2,240.87	-246.39 -246.34	396,217.76 396,209.76	774,654.23 774,654.28	32.08702017	-103.57996670 -103.57996670	0.00 0.00	0.00 0.00	0.00
	15,400.00 15,500.00 15,600.00	90.74 90.74 90.74	179.60 179.60 179.60	12,971.18 12,969.88 12,968.58	9,586.08 9,584.78 9,583.48	2,339.09 2,439.08 2,539.07	-2,340.86 -2,440.85 -2,540.84	-245.63 -244.93 -244.23	396,109.77 396,009.79 395,909.80	774,654.98 774,655.69 774,656.39	32.08647047	-103.57996669 -103.57996668 -103.57996667	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	15,700.00 15,800.00	90.74 90.74	179.60 179.60	12,967.28 12,965.98	9,582.18 9,580.88	2,639.06 2,739.05	-2,640.82 -2,740.81	-243.53 -242.82	395,809.82 395,709.83	774,657.09 774,657.79	32.08592078	-103.57996665 -103.57996664	0.00 0.00 0.00	0.00 0.00	0.00
	15,900.00 16,000.00	90.74 90.74	179.60 179.60	12,964.68 12,963.38	9,579.58 9,578.28	2,839.04 2,939.03	-2,840.80 -2,940.79	-242.12 -241.42	395,609.84 395,509.86	774,658.50 774,659.20	32.08509623	-103.57996663 -103.57996662	0.00 0.00	0.00 0.00	0.00
Wolfcamp B□	16,100.00 16,183.40 16,200.00	90.74 90.74 90.74	179.60 179.60 179.60	12,962.08 12,961.00 12,960.78	9,576.98 9,575.90 9,575.68	3,039.03 3,122.42 3,139.02	-3,040.78 -3,124.17 -3,140.77	-240.72 -240.13 -240.02	395,409.87 395,326.48 395,309.89	774,659.90 774,660.49 774,660.60	32.08459216	-103.57996660 -103.57996659 -103.57996659	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	16,300.00 16,400.00	90.74 90.74 90.74	179.60 179.60 179.60	12,959.49 12,958.19	9,573.06 9,574.39 9,573.09	3,239.01 3,339.00	-3,140.77 -3,240.76 -3,340.75	-239.31 -238.61	395,209.90 395,109.91	774,661.30 774,662.01	32.08427169	-103.57996658 -103.57996657	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00
	16,500.00 16,600.00	90.74 90.74	179.60 179.60	12,956.89 12,955.59	9,571.79 9,570.49	3,438.99 3,538.98	-3,440.74 -3,540.73	-237.91 -237.21	395,009.93 394,909.94	774,662.71 774,663.41	32.08344715	-103.57996655 -103.57996654	0.00 0.00	0.00 0.00	0.00 0.00
	16,700.00 16,800.00	90.74 90.74	179.60 179.60	12,954.29 12,952.99	9,569.19 9,567.89	3,638.98 3,738.97	-3,640.72 -3,740.70	-236.50 -235.80	394,809.96 394,709.97	774,664.11 774,664.82	32.08289745	-103.57996653 -103.57996652	0.00 0.00	0.00 0.00	0.00
	16,900.00 17,000.00 17,100.00	90.74 90.74 90.74	179.60 179.60 179.60	12,951.69 12,950.39 12,949.09	9,566.59 9,565.29 9,563.99	3,838.96 3,938.95 4,038.94	-3,840.69 -3,940.68 -4,040.67	-235.10 -234.40 -233.70	394,609.98 394,510.00 394,410.01	774,665.52 774,666.22 774,666.92	32.08234775	-103.57996650 -103.57996649 -103.57996648	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	17,200.00 17,300.00	90.74 90.74	179.60 179.60	12,947.79 12,946.49	9,562.69 9,561.39	4,138.93 4,238.92	-4,140.66 -4,240.65	-232.99 -232.29	394,310.03 394,210.04	774,667.62 774,668.33	32.08179806	-103.57996647 -103.57996645	0.00 0.00	0.00 0.00	0.00
	17,400.00 17,500.00	90.74 90.74	179.60 179.60	12,945.19 12,943.89	9,560.09 9,558.79	4,338.92 4,438.91	-4,340.64 -4,440.63	-231.59 -230.89	394,110.05 394,010.07	774,669.03 774,669.73	32.08097351	-103.57996644 -103.57996643	0.00 0.00	0.00 0.00	0.00
	17,600.00 17,700.00 17,800.00	90.74 90.74 90.74	179.60 179.60 179.60	12,942.60 12,941.30 12,940.00	9,557.50 9,556.20 9,554.90	4,538.90 4,638.89 4,738.88	-4,540.62 -4,640.61 -4,740.60	-230.18 -229.48 -228.78	393,910.08 393,810.09 393,710.11	774,670.43 774,671.14 774,671.84	32.08042382	-103.57996642 -103.57996640 -103.57996639	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Section 33-4 Line Cross, Pool NI	17,900.00 17,932.00	90.74 90.74	179.60 179.60	12,938.70 12,938.28	9,553.60 9,553.18	4,838.87 4,870.87	-4,840.58 -4,872.58	-228.08 -227.85	393,610.12 393,578.13	774,672.54		-103.57996638	0.00 0.00	0.00 0.00	0.00 0.00
	18,000.00 18,100.00	90.74 90.74	179.60 179.60	12,937.40 12,936.10	9,552.30 9,551.00	4,938.87 5,038.86	-4,940.57 -5,040.56	-227.38 -226.67	393,510.14 393,410.15	774,673.24 774,673.94		-103.57996635	0.00 0.00	0.00 0.00	0.00
	18,200.00 18,300.00 18,400.00	90.74 90.74 90.74	179.60 179.60 179.60	12,934.80 12,933.50 12,932.20	9,549.70 9,548.40 9,547.10	5,138.85 5,238.84 5,338.83	-5,140.55 -5,240.54 -5,340.53	-225.97 -225.27 -224.57	393,310.16 393,210.18 393,110.19	774,674.65 774,675.35 774,676.05	32.07877473	-103.57996634 -103.57996633 -103.57996631	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	18,500.00 18,600.00	90.74 90.74 90.74	179.60 179.60 179.60	12,932.20 12,930.90 12,929.60	9,545.80 9,544.50	5,336.63 5,438.82 5,538.82	-5,340.53 -5,440.52 -5,540.51	-223.86 -223.16	393,010.21 392,910.22	774,676.05 774,676.75 774,677.46	32.07822503	-103.57996630 -103.57996629	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	18,700.00 18,800.00	90.74 90.74	179.60 179.60	12,928.30 12,927.00	9,543.20 9,541.90	5,638.81 5,738.80	-5,640.50 -5,740.49	-222.46 -221.76	392,810.23 392,710.25	774,678.16 774,678.86	32.07767533 32.07740049	-103.57996627 -103.57996626	0.00 0.00	0.00 0.00	0.00 0.00
	18,900.00 19,000.00	90.74 90.74	179.60 179.60	12,925.71 12,924.41	9,540.61 9,539.31	5,838.79 5,938.78	-5,840.48 -5,940.46	-221.05 -220.35	392,610.26 392,510.28	774,679.56 774,680.26	32.07685079	-103.57996625 -103.57996624	0.00 0.00	0.00 0.00	0.00
	19,100.00 19,200.00 19,300.00	90.74 90.74 90.74	179.60 179.60 179.60	12,923.11 12,921.81 12,920.51	9,538.01 9,536.71 9,535.41	6,038.77 6,138.76 6,238.76	-6,040.45 -6,140.44 -6,240.43	-219.65 -218.95 -218.25	392,410.29 392,310.30 392,210.32	774,680.97 774,681.67 774,682.37	32.07630109	-103.57996622 -103.57996621 -103.57996620	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	19,400.00 19,500.00	90.74 90.74	179.60 179.60	12,919.21 12,917.91	9,534.11 9,532.81	6,338.75 6,438.74	-6,340.42 -6,440.41	-217.54 -216.84	392,110.33 392,010.35	774,683.07 774,683.78	32.07575139	-103.57996618 -103.57996617	0.00 0.00	0.00 0.00	0.00
	19,600.00 19,700.00	90.74 90.74	179.60 179.60	12,916.61 12,915.31	9,531.51 9,530.21	6,538.73 6,638.72	-6,540.40 -6,640.39	-216.14 -215.44	391,910.36 391,810.37	774,684.48 774,685.18	32.07492685	-103.57996616 -103.57996614	0.00 0.00	0.00 0.00	0.00
	19,800.00 19,900.00	90.74 90.74	179.60 179.60	12,914.01 12,912.71 12,911.41	9,528.91 9,527.61 9,526.31	6,738.71 6,838.71 6,938.70	-6,740.38 -6,840.37 -6,940.36	-214.73 -214.03 -213.33	391,710.39 391,610.40 391,510.42	774,685.88 774,686.58	32.07437715	-103.57996613 -103.57996612 -103.57996611	0.00 0.00 0.00	0.00 0.00 0.00	0.00
	20,000.00 20,100.00 20,200.00	90.74 90.74 90.74	179.60 179.60 179.60	12,911.41 12,910.11 12,908.82	9,526.31 9,525.01 9,523.72	6,938.70 7,038.69 7,138.68	-6,940.36 -7,040.34 -7,140.33	-213.33 -212.63 -211.93	391,510.42 391,410.43 391,310.44	774,687.29 774,687.99 774,688.69	32.07382746	-103.57996611 -103.57996609 -103.57996608	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	20,300.00 20,400.00	90.74 90.74	179.60 179.60	12,907.52 12,906.22	9,522.42 9,521.12	7,238.67 7,338.66	-7,240.32 -7,340.31	-211.22 -210.52	391,210.46 391,110.47	774,689.39 774,690.10	32.07327776 32.07300291	-103.57996607 -103.57996605	0.00 0.00	0.00 0.00	0.00 0.00
	20,500.00 20,600.00	90.74 90.74	179.60 179.60	12,904.92 12,903.62	9,519.82 9,518.52	7,438.65 7,538.65	-7,440.30 -7,540.29	-209.82 -209.12	391,010.49 390,910.50	774,690.80 774,691.50	32.07245321	-103.57996604 -103.57996603	0.00 0.00	0.00 0.00	0.00 0.00
	20,700.00 20,800.00 20,900.00	90.74 90.74 90.74	179.60 179.60 179.60	12,902.32 12,901.02 12,899.72	9,517.22 9,515.92 9,514.62	7,638.64 7,738.63 7,838.62	-7,640.28 -7,740.27 -7,840.26	-208.41 -207.71 -207.01	390,810.51 390,710.53 390,610.54	774,692.20 774,692.90 774,693.61	32.07190352	-103.57996601 -103.57996600 -103.57996599	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	20,900.00 21,000.00 21,100.00	90.74 90.74 90.74	179.60 179.60 179.60	12,899.72 12,898.42 12,897.12	9,514.62 9,513.32 9,512.02	7,838.62 7,938.61 8,038.60	-7,840.26 -7,940.25 -8,040.24	-207.01 -206.31 -205.61	390,510.54 390,510.56 390,410.57	774,693.61 774,694.31 774,695.01	32.07135382	-103.57996597 -103.57996597 -103.57996596	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	21,200.00 21,300.00	90.74 90.74	179.60 179.60	12,895.82 12,894.52	9,510.72 9,509.42	8,138.60 8,238.59	-8,140.22 -8,240.21	-204.90 -204.20	390,310.58 390,210.60	774,695.71 774,696.42	32.07080412 32.07052927	-103.57996595 -103.57996593	0.00 0.00	0.00 0.00	0.00 0.00
	21,400.00 21,500.00	90.74 90.74	179.60 179.60	12,893.22 12,891.93	9,508.12 9,506.83	8,338.58 8,438.57	-8,340.20 -8,440.19	-203.50 -202.80	390,110.61 390,010.62	774,697.12 774,697.82	32.07025442 32.06997958	-103.57996591	0.00 0.00	0.00 0.00	0.00 0.00
	21,600.00 21,700.00 21,800.00	90.74 90.74 90.74	179.60 179.60 179.60	12,890.63 12,889.33 12,888.03	9,505.53 9,504.23 9,502.93	8,538.56 8,638.55 8,738.55	-8,540.18 -8,640.17 -8,740.16	-202.09 -201.39 -200.69	389,910.64 389,810.65 389,710.67	774,698.52 774,699.22 774,699.93		-103.57996589 -103.57996588 -103.57996587	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	_1,000.00	JU.14	119.00	.2,000.00	0,002.30	5,7 00.00	J,1 70.10	200.03	000,110.01	, , , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	JUUU 1UUUU	. 55.01 550501	0.00	0.00	0.00

Page 27 of 101

Comments	MD (ft)	Incl (°)	Azim	TVD	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude	Longitude	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
		()	()	(11)	(11)	(11)	(11)	(11)			()	()	(710011)	(710011)	
	21,900.00	90.74	179.60	12,886.73	9,501.63	8,838.54	-8,840.15	-199.99	389,610.68	774,700.63	32.06888018 -	-103.57996585	0.00	0.00	0.00
	22,000.00	90.74	179.60	12,885.43	9,500.33	8,938.53	-8,940.14	-199.29	389,510.69	774,701.33	32.06860533 -	-103.57996584	0.00	0.00	0.00
	22,100.00	90.74	179.60	12,884.13	9,499.03	9,038.52	-9,040.13	-198.58	389,410.71	774,702.03	32.06833048 -	-103.57996583	0.00	0.00	0.00
	22,200.00	90.74	179.60	12,882.83	9,497.73	9,138.51	-9,140.12	-197.88	389,310.72	774,702.74	32.06805563 -	-103.57996581	0.00	0.00	0.00
	22,300.00	90.74	179.60	12,881.53	9,496.43	9,238.50	-9,240.10	-197.18	389,210.74	774,703.44	32.06778079 -	-103.57996580	0.00	0.00	0.00
	22,400.00	90.74	179.60	12,880.23	9,495.13	9,338.49	-9,340.09	-196.48	389,110.75	774,704.14	32.06750594 -	-103.57996579	0.00	0.00	0.00
	22,500.00	90.74	179.60	12,878.93	9,493.83	9,438.49	-9,440.08	-195.77	389,010.76	774,704.84	32.06723109 -	-103.57996577	0.00	0.00	0.00
	22,600.00	90.74	179.60	12,877.63	9,492.53	9,538.48	-9,540.07	-195.07	388,910.78	774,705.54	32.06695624 -	-103.57996576	0.00	0.00	0.00
	22,700.00	90.74	179.60	12,876.34	9,491.24	9,638.47	-9,640.06	-194.37	388,810.79	774,706.25	32.06668139 -	-103.57996575	0.00	0.00	0.00
	22,800.00	90.74	179.60	12,875.04	9,489.94	9,738.46	-9,740.05	-193.67	388,710.81	774,706.95	32.06640654 -	-103.57996573	0.00	0.00	0.00
	22,900.00	90.74	179.60	12,873.74	9,488.64	9,838.45	-9,840.04	-192.97	388,610.82	774,707.65	32.06613169 -	-103.57996572	0.00	0.00	0.00
	23,000.00	90.74	179.60	12,872.44	9,487.34	9,938.44	-9,940.03	-192.26	388,510.83	774,708.35	32.06585684 -	-103.57996570	0.00	0.00	0.00
	23,100.00	90.74	179.60	12,871.14	9,486.04	10,038.44	-10,040.02	-191.56	388,410.85	774,709.06	32.06558199 -	-103.57996569	0.00	0.00	0.00
Red Hills Unit 504H - BHL [100'F	23,110.64	90.74	179.60	12,871.00	9,485.90	10,049.07	-10,050.66	-191.49	388,400.21	774,709.13	32.06555275 -	-103.57996569	0.00	0.00	0.00

Survey Type:

Def Plan

Survey Error Model: Survey Program: ISCWSA0 3 - D 95 % Confidence 2.7955 sigma

Expected Max MD To EOU Freq Hole Size Casing Diameter MD From **Survey Tool Code** Description Part Inclination Vendor / Tool Borehole / Survey (ft) (ft) (in) (ft) (deg)

1 0.000 12,400.000 1/100.000 - 12.25 - 8.75 - 6'5 - 9.625 - 7 - 6 A001Mb_MWD Red Hills Unit 504H / Coterra Red Hills Unit 504H

1 12,400.000 23,105.418 1/100.000 6 6 A008Mb_MWD+IFR1+MS Red Hills Unit 504H / Coterra Red Hills Unit 504H

EOU Geometry:

End MD (ft)	Hole Size (in)	Casing Size (in)	Name
1,308.000	17.500	13.375	
4,903.000	12.250	9.625	
11,491.000	8.750	7.000	
23,110.640	6.000		

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Cimarex Energy Company of Colorado
	Section 33, T.25 S., R.33 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.: Red Hills Unit 504H
ATS/API ID: ATS-25-1346
APD ID: 10400104286
Sundry ID: N/a

COA

H2S	Yes		
Potash	None •	None	
Cave/Karst Potential	Low		
Cave/Karst Potential	☐ Critical		
Variance	None	Flex Hose	Other
Wellhead	Conventional and Multibowl	▼	
Other	□4 String □5 String	Capitan Reef None	□WIPP
Other	Pilot Hole None	☐ Open Annulus	
Cementing	Contingency Squeeze None	Echo-Meter None	Primary Cement Squeeze None
Special Requirements	☐ Water Disposal/Injection	□ СОМ	✓ Unit
Special Requirements	☐ Batch Sundry	Waste Prevention Waste MP	
Special Requirements Variance	☐ BOPE Break Testing ☐ Offline BOPE Testing	☐ Offline Cementing	Casing Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation. As a result, the Hydrogen Sulfide area must meet **43 CFR part 3170 Subpart 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

- 1. The 10-3/4 inch surface casing shall be set at approximately 1050 feet (a minimum of 70 feet into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be 14 3/4 inch in diameter.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 7-5/8 inch intermediate casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 10-3/4 inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months.

Casing Clearance

Operator casing variance is approved for the utilization of 5-1/2 inch 18# P-110 **from** base of curve and a minimum of 500 feet or the minimum tie-back requirement above, whichever is greater into the previous casing shoe.

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are less than 0.5 micron before cementing.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

✓ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43** CFR part **3170** Subpart **3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. 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. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL
- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke

manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be

- initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR part 3170 Subpart 3172 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR part 3170 Subpart 3172.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and

disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Long Vo (LVO) 7/23/2025

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Cimarex Energy Company
LEASE NO.:	NMNM0024368A
COUNTY:	Lea

Wells:

Red Hills Unit 503H

Surface Hole Location: 407' FNL & 2022' FWL, Section 33, T. 25 S, R. 33 E. Bottom Hole Location: 100' FSL & 1800' FWL, Section 4, T. 26 S, R. 33 E.

Red Hills Unit 504H

Surface Hole Location: 407' FNL & 2062' FWL, Section 33, T. 25 S, R. 33 E. Bottom Hole Location: 100' FSL & 1800' FWL, Section 4, T. 26 S, R. 33 E.

Red Hills Unit 506H

Surface Hole Location: 407' FNL & 2042' FWL, Section 33, T. 25 S, R. 33 E. Bottom Hole Location: 100' FSL & 1255' FWL, Section 4, T. 26 S, R. 33 E.

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

 ☐ General Provisions` ☐ Permit Expiration ☐ Archaeology, Paleontology, and Historical Sites ☐ Noxious Weeds
Watershed
Range
Lesser Prairie Chicken
☐ Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
☐ Road Section Diagram
□ Production (Post Drilling)
Well Structures & Facilities
Pipelines
Electric Lines
Interim Reclamation
Final Abandonment & Reclamation

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See information below discussing NAGPRA.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

SPECIAL REQUIREMENT(S)

Watershed:

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The topsoil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

TANK BATTERY:

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

BURIED/SURFACE LINE(S):

When crossing ephemeral drainages the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons should be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences should be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars should be placed within the ROW to divert and dissipate surface runoff. A pipeline access road is not permitted to cross these ephemeral drainages. Traffic should be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.

Prior to pipeline installation/construction a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present.

The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

ELECTRIC LINE(S):

Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be taken to prevent future erosion. A power pole should not be placed in drainages, playas, wetlands, riparian areas, or floodplains and must span across the features at a distance away that would not promote further erosion.

TEMPORARY USE FRESH WATER FRAC LINE(S):

Once the temporary use exceeds the timeline of 180 days and/or with a 90 day extension status; further analysis will be required if the applicant pursues to turn the temporary ROW into a permanent ROW.

Range:

Cattleguards

Where a permanent cattlegaurd is approved, an appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

Fence Requirement

Where entry granted across a fence line, the fence must be braced and tied off on both sides of the passageway prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Livestock Watering Requirement

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

Lesser Prairie Chicken:

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

Timing Limitation Exceptions:

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC

Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

Ground-level Abandoned Well Marker to avoid raptor perching:

Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

V. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

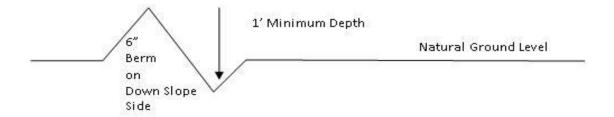
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope:
$$\frac{400'}{4\%}$$
 + 100' = 200' lead-off ditch interval

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

- 1. Salvage topsoil
- Redistribute topsoil
- 2. Construct road
- 4. Revegetate slopes

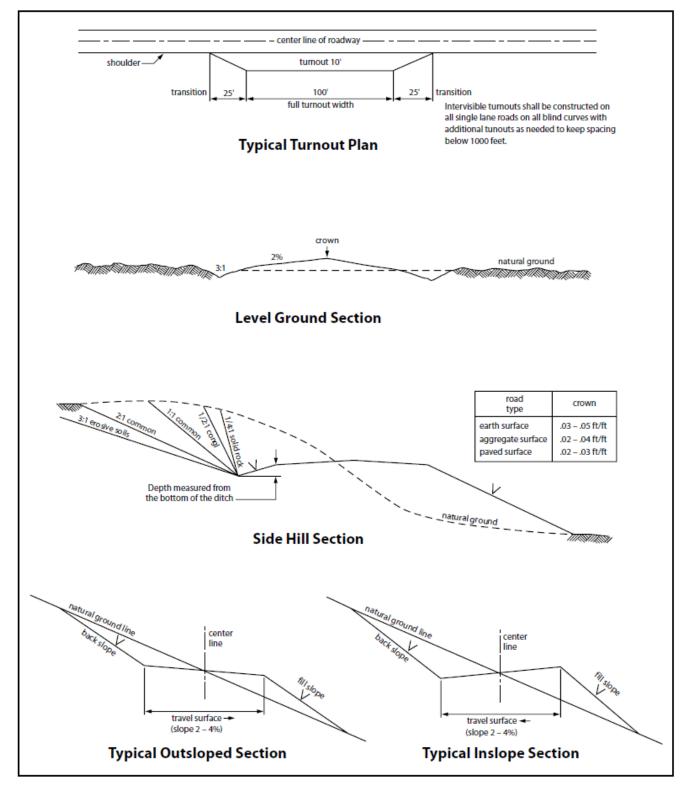


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VI. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- If a void is encountered alignments may be rerouted to avoid the karst feature and lessen; the potential of subsidence or collapse of karst features, buildup of toxic or combustible gas, or other possible impacts to cave and karst resources from the buried pipeline.
- Special restoration stipulations or realignment may be required at such intersections, if any.
- A leak detection plan will be submitted to the BLM Carlsbad Field Office for approval
 prior to pipeline installation. The method could incorporate gauges to detect pressure
 drops, situating values and lines so they can be visually inspected periodically or
 installing electronic sensors to alarm when a leak is present. The leak detection plan will
 incorporate an automatic shut off system that will be installed for proposed pipelines to
 minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

CONDITIONS OF APPROVAL FOR TEMPORARY FRESHWATER PIPELINES

Subject to the terms and conditions which are shown below, is hereby approved:

- Surface pipelines 6.5 inch to 16 inch OD may be in place for no more than 180 days not including installation. Cimarex will submit a ROW application for these temporary freshwater pipelines when they need them.
- Surface pipeline will be in operation for no more than 180 days; a maximum of seven (7) days authorized for installation of the lay flat poly line prior to operation.
- Surface pipelines larger than 6.5 inch to-16-inch OD may be in place for no more than 180 days from date of authorization; 5/1/2018, unless a SF-299 is submitted within 30 days of this decision expiring requesting a long term buried fresh water pipeline, and processing of the SF-299 is not yet complete at the end of 30 days, in which case the line(s) may be left in place until a decision is made on the SF-299.
- All lines will be removed when no longer in use.
- · Width of authorized use is 15-feet.
- No blading and/or earthwork will be allowed in order to place the pipeline except burying the line under crossings.
- The pipeline will be buried under all intersecting routes, including BLM-designated trails and access roads into caliche pits, rancher watering stations, etc. All such buried crossings will be removed when the pipeline is removed, unless otherwise approved by the Authorized Officer. Pipelines larger than 6.5-inch OD may utilize other crossing methodologies (but any fill placed over pipeline must be brought in from off-site).
- Pipeline crossings of fences should be avoided where possible. If a crossing is necessary, contact fence owner [usually the grazing permittee] prior to installation, and install by threading pipeline under the lowest wire of the fence; pipeline should never cross on top of any fence wires.

- The pipeline shall stay within 10 feet maximum of existing disturbance (e.g. lease road, pipeline right-of-way etc.); placement should be within 5 feet whenever possible.
- Placement of pumps or other high-maintenance equipment shall be installed along maintained lease roads.
- Gas or diesel pumps, generators, or compressors shall be placed on visquen matting [or 20 mil plastic] and in a containment structure capable of containing all potentially released fuels.
 Containments must be protected against wildlife deaths in accordance with oilfield best management practices.
- Due to potential damage to natural resources, no work is allowed during inclement weather.
- Pipeline will be marked with your company's name and contact number, at beginning and ending points, at all public-road crossings, and at intervals not exceeding every 0.6 mile, unless otherwise approved by the Authorized Officer.
- Should unforeseen damage occur to resources, BLM will require reclamation of the impacted land
- No water may be released into the environment without BLM consent.
- Placement of surface pipelines along or under public roadways may require permits from the road authority.
- This authorization is limited to lands under BLM jurisdiction. If your proposed pipeline crosses lands under private ownership or under other agency jurisdiction, you are responsible for obtaining all necessary permits and approvals from those parties.

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.
- 5. All construction and maintenance activity will be confined to the authorized right-of-way.
- 6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.
- 7. The maximum allowable disturbance for construction in this right-of-way will be 30 feet:
 - Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed <u>20</u> feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation*.)
 - Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed <u>30</u> feet. The trench and bladed area are included in this area. (Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.)
 - The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (Compressing can be caused by vehicle tires, placement of equipment, etc.)
- 8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately ____6___ inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.
- 9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the

owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

- 10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.
- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

() seed mixture 1	() seed mixture 3
(X) seed mixture 2	() seed mixture 4
() seed mixture 2/LPC	() Aplomado Falcon Mixture

- 13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" **Shale Green**, Munsell Soil Color No. 5Y 4/2.
- 14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.
- 15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.
- 16. Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 17 for more information.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

- 17. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."
- 18. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.
- 19. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
- 20. <u>Escape Ramps</u> The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

21. Special Stipulations:

Lesser Prairie-Chicken

Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the Grant and attachments, including stipulations, survey plat(s) and/or map(s), shall be on location during construction. BLM personnel may request to review a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC § 2601 *et seq.* (1982) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant (see 40 CFR, Part 702-799 and in particular, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. Holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way Holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way Holder on the Right-of-Way. This provision applies without regard to whether a release is caused by Holder, its agent, or unrelated third parties.
- 4. Holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. Holder shall be held to a standard of strict liability for damage or injury to

the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:

- a. Activities of Holder including, but not limited to: construction, operation, maintenance, and termination of the facility;
- b. Activities of other parties including, but not limited to:
 - (1) Land clearing
 - (2) Earth-disturbing and earth-moving work
 - (3) Blasting
 - (4) Vandalism and sabotage;
- c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

- 5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of Holder, regardless of fault. Upon failure of Holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he/she deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of Holder. Such action by the Authorized Officer shall not relieve Holder of any responsibility as provided herein.
- All construction and maintenance activity shall be confined to the authorized right-of-way width of <u>30</u> feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline shall be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline shall be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be confined to existing roads or right-of-ways.
- 7. No blading or clearing of any vegetation shall be allowed unless approved in writing by the Authorized Officer.
- 8. Holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline shall be "snaked" around hummocks and dunes rather than suspended across these features.
- 9. The pipeline shall be buried with a minimum of ______ 6 ____ inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.
- 10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No

permanent gates will be allowed unless approved by the Authorized Officer.

- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.
- 13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.
- 14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.
- 15. Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 16 for more information.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

16. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

- 17. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.
- 18. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
- 19. Surface pipelines shall be less than or equal to 4 inches and a working pressure below 125 psi.

C. ELECTRIC LINES

- Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems. Larger powerlines will adjust their pole spacing to avoid cave and karst features.
- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction.
- No further construction will be done until clearance has been issued by the Authorized Officer.
- Special restoration stipulations or realignment may be required.

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES.

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.
- 5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

- 6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.
- 8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.
- 9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
- 10. Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 11 for more information.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

- 11. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."
- 12. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

13. Special Stipulations:

For reclamation remove poles, lines, transformer, etc. and dispose of properly. Fill in any holes from the poles removed.

Lesser Prairie-Chicken

Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

VII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

VIII. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the

authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species

<u> </u>	I <u>b/acre</u>
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

^{*}Pounds of pure live seed:

Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed



H2S Drilling Operations Plan

Training

All company and contract personnel admitted on location must be trained by a qualified H2S safety instructor to do the following:

- 1. Characteristics of H2S
- 2. Physical effects and hazards
- 3. Principle and operation of H2S detectors, warning system, and briefing areas
- 4. Evacuation procedure, routes and first aid
- 5. Proper use of safety equipment & life support systems
- 6. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30 minute pressure demand air packs.

H2S Detection and Alarm Systems

- 1. H2S sensors/detectors to be located on the drilling rig floor, in the base of the sub structure/cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may be placed as deemed necessary
- 2. An audio alarm system will be installed on the derrick floor and in the top doghouse

Windsock and/or wind streamers

- 1. Windsock at mudpit area should be high enough to be visible
- 2. Windsock on the rig floor and / or top of doghouse should be high enough to be visible

Condition Flags & Signs

- 1. Warning signs on access road to location
- 2. Flags are to be displayed on sign at the entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates

danger (H2S present in dangerous concentration). Only H2S trained and certified personnel admitted to location.

Well Control Equipment

1. See the pressure control section of this submission.

Communication

- 1. While working under masks, chalkboards will be used for communication
- 2. Hand signals will be used where chalk board is inappropriate.
- 3. Two way radio will be used to communicate off location in case emergency help is required. In most cases, cellular telephones will be available at most drilling foreman's trailer or living quarters.

Drillstem Testing

- 1. No DSTs or cores are planned at this tmie
- 2. Drilling contractor supervisor will be required to be familiar with the effects that H2S has on tubular goods and other mechanical equipment.
- 3. If H2S is encountered, mud system will be altered if necessary to maintain control of the well. A mud gas separator will be brought into service along with H2S scavenger if necessary.

H2S Contingency Plan

Emergency Procedures

In the event of an H2S release, the first responder(s) must:

- 1. Isolate the area and prevent entry by other persons into the 100 PPM ROE.
- 2. Evacuate any public places encompassed by the 100 PPM ROE.
- 3. Be equipped with H2S monitors and air packs in order to control the release.
- 4. Use the buddy system
- 5. Take precautions to avoid personal injury during this operation
- 6. Contact operator and/or local officials to aid in operation. See list of emergency contacts attached.
- 7. Have received training the detection of H2S, measures for protection against the gas, and equipment used for protection and emergency response

Ignition of the Gas Source

1. Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Contacting Authorities

- 1. Coterra personnel must liaise with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours.
- 2. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Coterra's response must be in coordination with the State of New Mexico's" Hazardous Materials Emergency Response Plan" (HMER).

Emergency Contacts

Coterra Energy

Charlie Pritchard: Drilling Operations Manager: 432 - 238 - 7084

Darrell Kelly: Vice President EHS: 281 – 589 – 5795

Third Party

	PERMIAN	PERMIAN REGION CONTACT NUMBERS					
		CALL	911				
Air Ambulance Services							
Reeves County Me	edical - Pecos, TX		432-447-3551				
Aero Care - Midlar	Aero Care - Midland, TX		800-627-2376				
Tri State Care Fligh	Tri State Care Flight - Artesia, NM		800-800-0900				
Air Methods - Hobb	Air Methods - Hobbs, NM		800-242-6199				
Fire / Police / Medical Care							
Sheriff's Office		Fire Depart	ments	Hospital / Medical Care F	acilities		
Andrews County	432-523-5545	Andrews	432-523-3111	Permian Regional Med.	432-523-2200		
Reagan County	325-884-2929	Big Lake	325-884-3650	Reagan Memorial Hosp.	325-884-2561		
Howard County	432-264-2244	Big Springs	432-264-2303	Scenic Mountain Med Ctr	432-263-1211		
Terry County	806-637-2212		806-637-6633				
Crane County	432-558-3571	Crane	432-558-2361	Crane Memorial Hosp.	432-558-3555		
Val Verde County	830-774-7513	Del Rio	830-774-8648	Val Verde Regional Med.	830-775-8566		
, and a dealing		Denver City	806-592-3516		806-592-2121		
Pecos County	432-336-3521		432-336-8525		333 332 2121		
Glasscock County	432-354-2361		,52 000 0020				
Winkler County	432-586-3461		432-586-2577	Winkler County Memorial	432-586-5864		
Willikier Courty	432-300-3401	McCamey	432-652-8232	McCamey Hospital	432-552-8626		
Lavina Caunti	432-377-2411	<u> </u>	432-002-0232	IVICCAITEY HOSPIIAI	432-032-0020		
Loving County	325-835-2551						
Irion County			400 040 0044				
Ward County	432-943-6703		432-943-2211				
Ector County	432-335-3050			Odessa Regional Hosp. 432-582-			
Crocket County	325-392-2661		325-392-2626				
Reeves County	432-445-4901		505-757-6511				
Yoakum County	806-456-2377		806-456-2288				
Garza County	806-495-3595						
Upton County	432-693-2422	Rankin					
Coke County	915-453-2717	Robert Lee					
		Roscoe	325-766-3931				
Hockley County	806-894-3126	Levelland	806-894-3155	Covenant Health	806-894-4963		
Tom Green County	325-655-8111	San Angelo	325-657-4355	San Angelo Comm. Med.	325-949-9511		
Gaines County	432-758-9871	Seminole	432-758-3621	Memorial Hospital	432-758-5811		
Terrell County	432-345-2525	Sanderson					
Scurry County	325-573-3551	Snyder	325-573-3546	6 DM Cogdell Memorial 325-573			
Sterling County	325-378-4771	Sterling City					
Nolan County	325-235-5471	Sweetwater	325-235-8130	Rolling Plains Memorial	325-235-1701		
Culberson County	432-283-2060	Van Horn		Culberson Hospital	432-283-2760		
New Mexico	•			·			
Lea County	505-396-3611	Knowles	505-392-7469	Lea Reg Med Ctr	575-492-5000		
Eddy County	575-887-7551	Carlsbad	575-885-3125	Carlsbad Medical	575-887-4100		
		Artesia		Artesia Hospital	575-748-3333		
Roosevelt County	575-356-4408	7.1.6014	0.0140 0000	7 TOOK TTOOPINI	15.57.15.5000		
					 		
Chaves County	575-624-7590						
Ground Ambulance Services	P 1						
Reeves County Me	edical			Pecos, TX	432-447-3551		



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

SUPO Data Report

APD ID: 10400104286 **Submission Date:** 04/02/2025

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: RED HILLS UNIT Well Number: 504H

Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most recent changes Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Red_Hills_Unit_50H_Existing_Roads_map_20230220124634.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT Row(s) Exist? YES

ROW ID(s)

ID: NMNM130688

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Existing Well map Attachment:

Well Name: RED HILLS UNIT Well Number: 504H

RED_HILLS_UNIT_E2W2_1_mile_radius_map_20250402130642.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: 2- 550 X 450 pads were staked with the BLM for construction and use as a central tank batteries (CTB), please see Exhibit F. Road: New and existing roads will be used. Please see Exhibit D for 7168 new road. Bulk Lines: 900 of 8- 12 buried steel Bulk lines will be constructed in the same 30 trench. Please see Attachment B for route. Power: 1 pole, 243 of 480 volt, 4 wire, 3 phase overhead powerline will be constructed for the facility. Please see Exhibit I for powerline route.

Production Facilities map:

Red_Hills_Unit__Zone_1_West_CTB_Btty_Layout_20230220131112.pdf Red_Hills_Unit__Zone_2_West_CTB_Btty_Layout_20230220131134.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: MUNICIPAL

Water source use type: SURFACE CASING

INTERMEDIATE/PRODUCTION

CASING

Source latitude: Source longitude:

Source datum:

City: Hobbs

Water source permit type: WATER RIGHT

Permit Number:

Water source transport method: TRUCKING

Source land ownership: FEDERAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 5000 Source volume (acre-feet): 0.64446548

Source volume (gal): 210000

Water source and transportation

Red_Hills_Unit_47H_Drilling_Water_Sources_20230220131650.pdf

Water source comments:

New water well? N

New Water Well Info

Well Name: RED HILLS UNIT Well Number: 504H

Well latitude: Well Longitude: Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft): Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft): Well casing type:

Well casing outside diameter (in.): Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method: Drill material:

Grout material: Grout depth:

Casing length (ft.): Casing top depth (ft.):

Well Production type: Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: NO

Construction Materials description:

Construction Materials source location

Section 7 - Methods for Handling

Waste type: DRILLING

Waste content description: Drilling Fluids, drill cuttings, water and other waste produced from the well during drilling

operations.

Amount of waste: 15000 pounds

Waste disposal frequency : Weekly Safe containment description: N/A

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: Haul to R360 Environmental Solutions, 4507 Carlsbad Hwy, Hobbs, NM 88240

Well Name: RED HILLS UNIT Well Number: 504H

Waste type: SEWAGE

Waste content description: Human Waste

Amount of waste: 300 gallons

Waste disposal frequency: Weekly

Safe containment description: Waste will be properly contained and disposed of properly at a state approved disposal

facility.

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE

FACILITY

Disposal type description:

Disposal location description: A licensed 3rd party contractor will be used to haul and dispose human waste to City of

Toyah TX waste water facility.

Waste type: GARBAGE

Waste content description: Garbage and trash produced during drilling and completion operations

Amount of waste: 32500 pounds

Waste disposal frequency : Weekly Safe containment description: N/A

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: A licensed 3rd party hauls trash to Lea County Landfill

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? N

Well Name: RED HILLS UNIT Well Number: 504H

Description of cuttings location

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

Cuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

RED_HILLS_UNIT_E2W2_location_layout_20250402130721.pdf

Comments:

Section 10 - Plans for Surface

Type of disturbance: No New Surface Disturbance Multiple Well Pad Name: Red Hills Unit

Multiple Well Pad Number: E2W2 Pad

Recontouring

Red_Hills_Unit_E2W2_Pad_Interim_Reclaim_20230220133210.pdf

Drainage/Erosion control construction: To control and prevent potentially contaminated precipitation from leaving the pad site, a perimeter berm and settlement pond will be installed. Contaminated water will be removed from pond, stored in waste tanks, and disposed of at a state approved facility. Standing water or puddles will not be allowed. Drainage ditches would be established and maintained on the pad and along access roads to divert water away from operations. Natural drainage areas disturbed during construction would be re-contoured to near original condition prior to construction. Erosion Control Best Management Practices would be used where necessary and consist of seeding, fiber rolls, water bars, silt fences, and temporary diversion dikes. Areas disturbed during construction that are no longer needed for operations would be used where necessary and consist of seeding, fiber rolls, water bars, silt fences, and temporary diversion dikes. Areas disturbed during construction that are no longer needed for operations would be obliterated, re-contoured, and reclaimed to near original condition to re-establish natural drainage.

Drainage/Erosion control reclamation: All disturbed and re-contoured areas would be reseeded according to specifications. Approved seed mixtures would be certified weed free and consist of grasses, forbs, or shrubs similar to the surrounding area. Compacted soil areas may need to be obliterated and reclaimed to near natural conditions by recontouring all slopes to facilitate and re-establish natural drainage.

Well Name: RED HILLS UNIT Well Number: 504H

Well pad proposed disturbance Well pad interim reclamation (acres): 0 Well pad long term disturbance

(acres): 0 (acres):

Road proposed disturbance (acres): Road interim reclamation (acres): 0 Road long term disturbance (acres): 0

Powerline proposed disturbance Powerline interim reclamation (acres): Powerline long term disturbance

(acres): (acres): 0 Pipeline proposed disturbance

Pipeline interim reclamation (acres): 0 Pipeline long term disturbance

(acres): 0

Other proposed disturbance (acres): Other interim reclamation (acres): 0 Other long term disturbance (acres): 0

Total interim reclamation: 0 Total proposed disturbance: 0 Total long term disturbance: 0

Disturbance Comments:

(acres):

Reconstruction method: After well plugging, all disturbed areas would be returned to the original contour or a contour that blends with the surrounding landform including roads unless the surface owner requests that they be left intact. In consultation with the surface owners it will be determined if any gravel or similar materials used to reinforce an area are to be removed, buried, or left in place during final reclamation. Salvaged topsoil, if any, would be re-spread evenly over the surfaces to be re-vegetated. As necessary, the soil surface would be prepared to provide a seedbed for re-establishment of desirable vegetation. Site preparation may include gouging, scarifying, dozer track-walking, mulching, or fertilizing. Reclamation, Re-vegetation, and Drainage: All disturbed and re-contoured areas would be reseeded using techniques outlined under Phase I and II of this plan or as specified by the land owner. Approved seed mixtures would be certified weed free and consist of grasses, forbs, or shrubs similar to the surrounding area. Compacted soil areas may need to be obliterated and reclaimed to near natural conditions by re-contouring all slopes to facilitate and re-establish natural drainage.

Topsoil redistribution: The original stock piled topsoil, if any, will be spread evenly over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pad, production facilities, roads, pipelines, and power line corridors as close as possible to the original topography. The location will then be seeded.

Soil treatment: The soil surface would be prepared to provide a seedbed for reestablishment of desirable vegetation. Establish control of erosion and invasion of non-native plants to reestablish plant community.

Existing Vegetation at the well pad: N/A

Existing Vegetation at the well pad

Existing Vegetation Community at the road: N/A

Existing Vegetation Community at the road

Existing Vegetation Community at the pipeline: N/A

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: N/A

Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Well Name: RED HILLS UNIT Well Number: 504H

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type

Pounds/Acre

Seed reclamation

Operator Contact/Responsible Official

First Name: Last Name:

Phone: Email:

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment

Weed treatment plan description: N/A

Weed treatment plan

Monitoring plan description: N/A

Monitoring plan

Success standards: N/A

Pit closure description: N/A

Pit closure attachment:

Section 11 - Surface

Well Name: RED HILLS UNIT Well Number: 504H

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other

Right of Way needed? N

Use APD as ROW?

ROW Type(s):

ROW

SUPO Additional Information:

Use a previously conducted onsite? Y

Previous Onsite information: Onsite date 4/11/17; BLM Personnel Jeff Robertson; Cimarex Personnel Barry Hunt

Other SUPO

Red_Hills_Unit_50H_SUPO_20230220135425.pdf

BEGINNING AT THE INTERSECTION J-1/ORLA ROAD AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD83 LATITUDE N32.0650° AND LONGITUDE W103.6743°) PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 5.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 2.1 MILES TO THE BEGINNING OF THE PROPOSED RED HILLS UNIT 33-4 ACCESS ROAD "A" TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY, THEN EASTERLY, THEN NORTHERLY DIRECTION APPROXIMATELY 2,443' TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE WEST; FOLLOW THE ROAD FLAGS IN A WESTERLY, THEN NORTHERLY DIRECTION APPROXIMATELY 533' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM THE INTERSECTION OF J-1/ORLA ROAD AND AN EXISTING ROAD TO THE EAST (LOCATED AT NAD83 LATITUDE N32.0650° AND LONGITUDE W103.6743°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 7.7 MILES.

REV: 5 08-18-21 Z.T. (ACCESS ROAD RE-ROUTE)

CIMAREX ENERGY CO.

RED HILLS UNIT E2W2 NE 1/4 NW 1/4, SECTION 33, T25S, R33E, N.M.P.M. LEA COUNTY, NEW MEXICO

Corp.
Verigineering & Land Surveying

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

SURVEYED BY	C.J., A.H.	05-05-17			
DRAWN BY	V.L.D.	05-25-17			
ROAD DESCRIPTION					

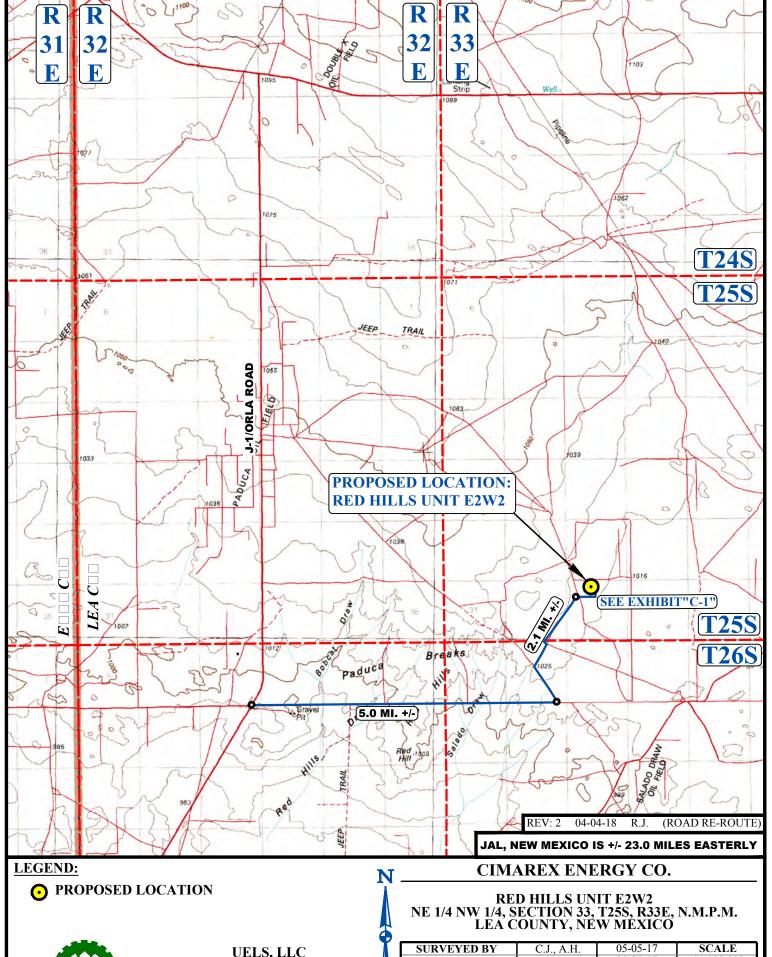


UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017 RED HILLS UNIT E2W2 NE 1/4 NW 1/4, SECTION 33, T25S, R33E, N.M.P.M. LEA COUNTY, NEW MEXICO

SURVEYED BY	C.J., A.H.	05-0:	5-17	SCALE
DRAWN BY	V.L.D.	05-25-17		1:12,000
TOPOGRA	PHIC MA	P	EXE	IIBIT C-1

1:100,000

EXHIBIT B



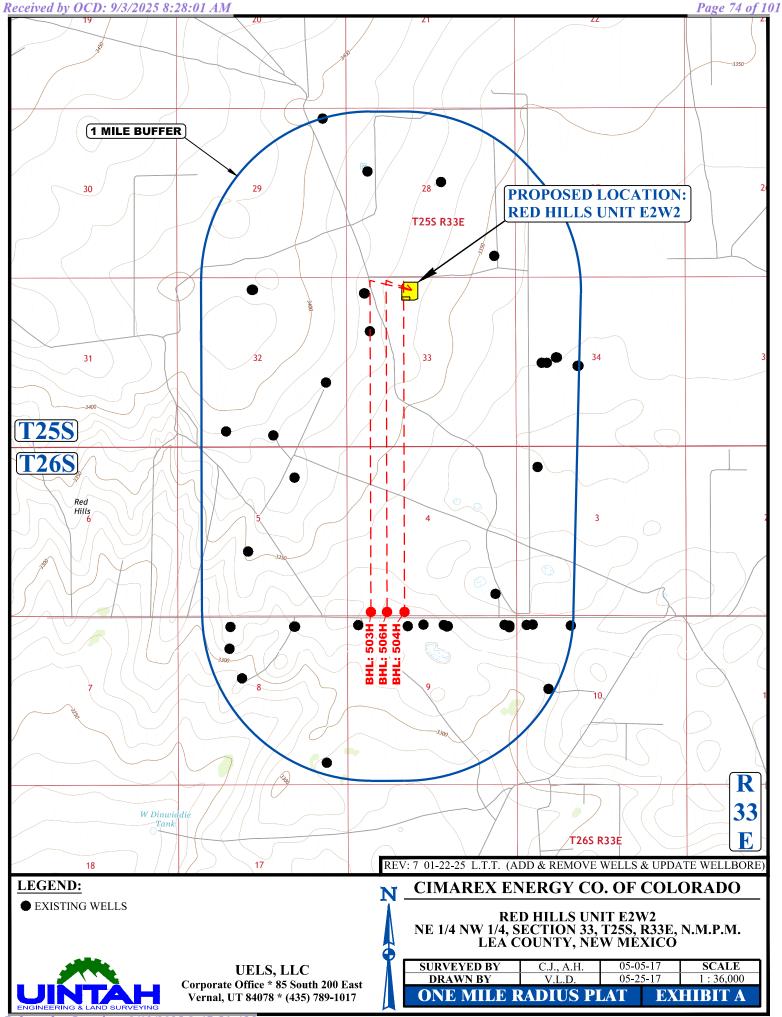
DRAWN BY

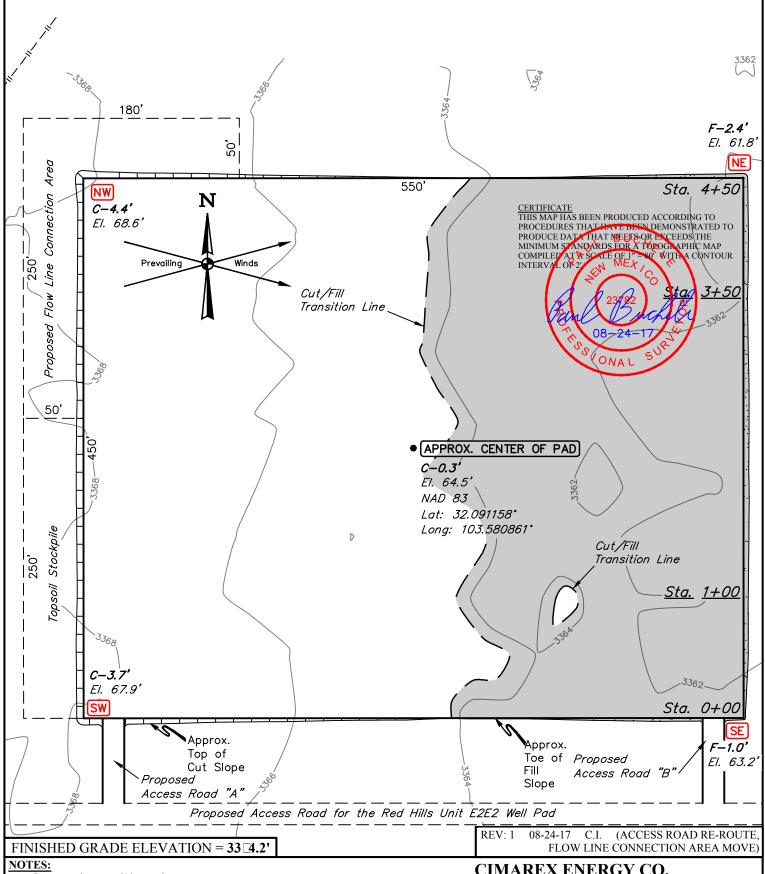
PUBLIC ACCESS ROAD MAP

UELS, LLC

Corporate Office * 85 South 200 East

Vernal, UT 84078 * (435) 789-1017





Contours shown at 2' intervals.

Cut/Fill slopes 1 1/2:1 (Typ. except where noted)

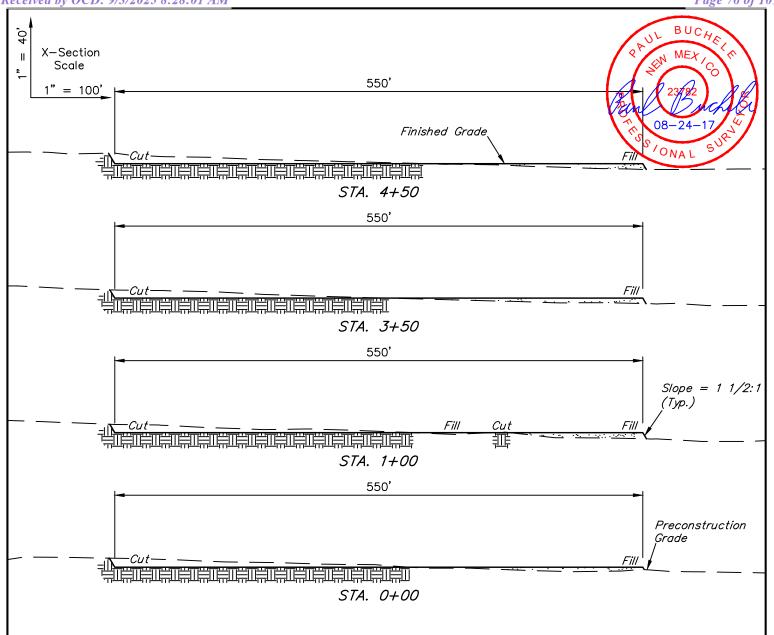
Topsoil stockpile to be seeded in place prior to reclamation.

CIMAREX ENERGY CO.

RED HILLS UNIT 33 ZONE 1 WEST CTB NW 1/4, SECTION 33, T25S, R33E, N.M.P.M. LEA COUNTY, NEW MEXICO

SURVEYED BY C.J., A.H., P.R 05-04-17 **SCALE** DRAWN BY LOCATION LAYOUT EXHIBIT F





APPROXIMATE EARTHWOR□ □UANTITIES					
(4") TOPSOIL STRIPPING	3,140 Cu. Yds.				
REMAINING LOCATION	7,910 Cu. Yds.				
TOTAL CUT	11,050 Cu. Yds.				
	7,910 Cu. Yds.				
EXCESS MATERIAL	3,140 Cu. Yds.				
TOPSOIL	3,140 Cu. Yds.				
EXCESS UNBALANCE (After Interim Rehabilitation)	0 Cu. Yds.				

APPROXIMATE SUR□ACE DISTURBANCE AREAS						
	DISTANCE	ACRES				
WELL SITE DISTURBANCE	NA	±6.301				
FLOW LINE CONNECTION AREA DISTURBANCE	NA	±0.436				
30' WIDE ACCESS ROAD "A" R-O-W DISTURBANCE	±79.80'	±0.055				
30' WIDE ACCESS ROAD "B" R-O-W DISTURBANCE	±79.92'	±0.055				
30' WIDE POWER LINE R-O-W DISTURBANCE	±109.91'	±0.076				
TOTAL		±6.868				

REV: 1 08-24-17 C.I. (RE-ROUTE)

NOTES:

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

NGINEERING & LAND SURVEYING

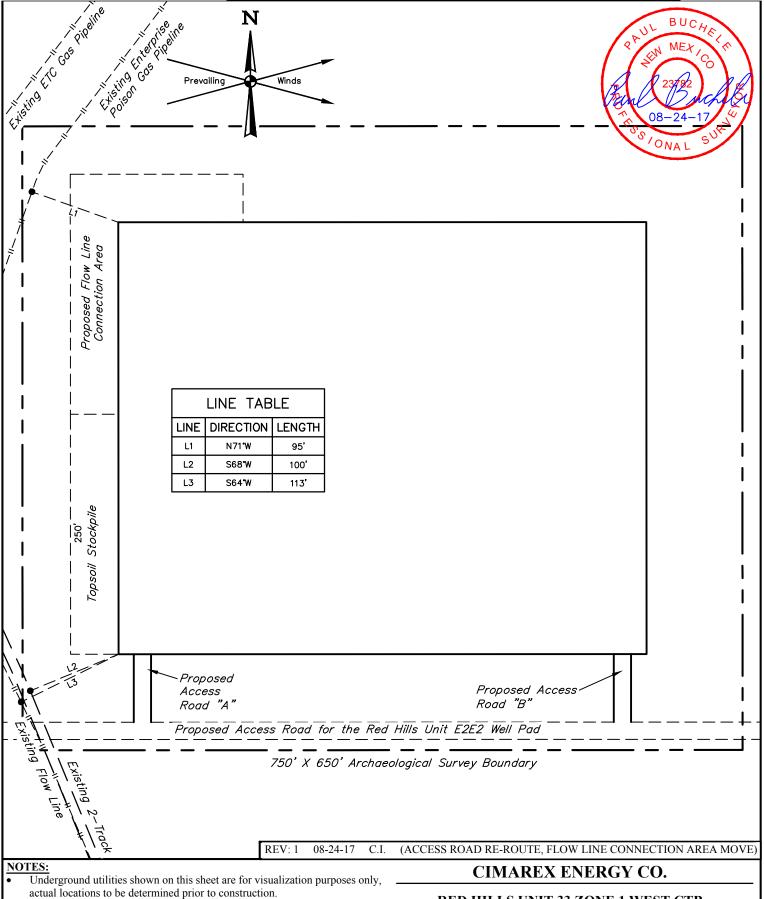
UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

CIMAREX ENERGY CO.

RED HILLS UNIT 33 ZONE 1 WEST CTB NW 1/4, SECTION 33, T25S, R33E, N.M.P.M. LEA COUNTY, NEW MEXICO

SURVEYED BY
DRAWN BYC.J., A.H., P.R.05-04-17
06-02-17SCALE
AS SHOWNTYPICAL CROSS SECTIONSEXHIBIT F

Released to Imaging: 9/12/2025 8:47:51 AM



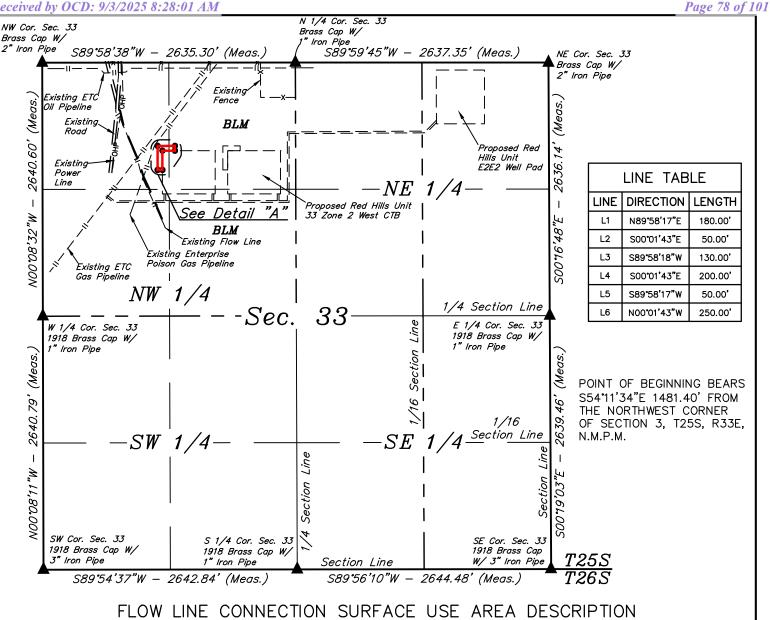
RED HILLS UNIT 33 ZONE 1 WEST CTB NW 1/4, SECTION 33, T25S, R33E, N.M.P.M. LEA COUNTY, NEW MEXICO

 SURVEYED BY
 C.J., A.H., P.R.
 05-04-17
 SCALE

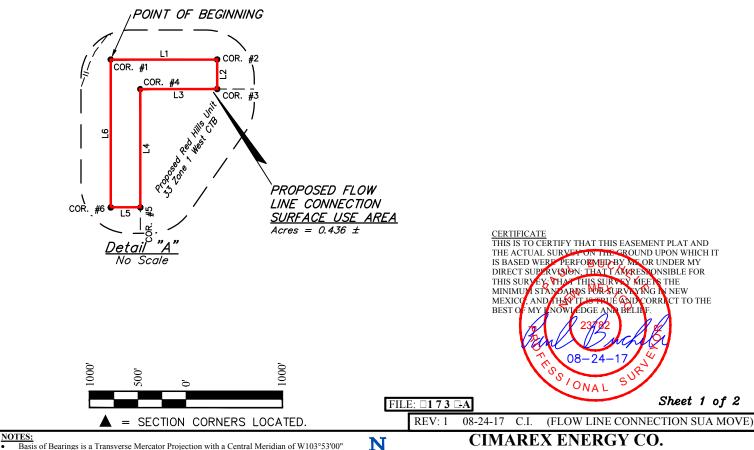
 DRAWN BY
 S.F.
 06-02-17
 1" = 100'

 ARCHAEOLOGICAL SURVEY BOUNDARY
 EXHIBIT F





BEGINNING AT A POINT IN THE NW 1/4 NW 1/4 OF SECTION 33, T25S, R33E, N.M.P.M., WHICH BEARS S54*11'34"E 1481.40' FROM THE NORTHWEST CORNER OF SAID SECTION 33, THENCE N89*58'17"E 180.00'; THENCE S00*01'43"E 50.00'; THENCE S89*58'18"W 130.00'; THENCE S00*01'43"E 200.00'; THENCE S89*58'17"W 50.00'; THENCE N00*01'43"W 250.00' TO THE POINT OF BEGINNING. CONTAINS 0.436 ACRES MORE OR LESS.



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

RED HILLS UNIT 33 ZONE 1 WEST CTB SECTION 33, T25S, R33E, N.M.P.M. LEA COUNTY, NEW MEXICO

C.J., A.H., P.R. SCALE SURVEYED BY 05-04-17 B.D.H 06-06-17 FLOW LINE CONNECTION **EXHIBIT**

Released to Imaging: 9/12/2025 8:47:51 AM

BEGINNING AT THE INTERSECTION OF J-1/ORLA ROAD AND PIPELINE ROAD TO THE EAST (LOCATED AT NAD83 LATITUDE N32.064964° AND LONGITUDE W103.674262°) PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 5.0 TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY, THEN NORTHEASTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 2.1 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE RED HILLS UNIT E2E2; FOLLOW ROAD FLAGS IN AN SOUTHEASTERLY, THEN EASTERLY DIRECTION FOR APPROXIMATELY 629' TO THE BEGINNING OF THE PROPOSED ACCESS "A" TO THE NORTH; FOLLOW ROAD FLAGS IN A NORTHERLY DIRECTION APPROXIMATELY 80' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM THE INTERSECTION OF J-1/ORLA ROAD AND PIPELINE ROAD TO THE EAST (LOCATED AT NAD 83 LATITUDE N32.064964° AND LONGITUDE W103.674262°), TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 7.2 MILES.

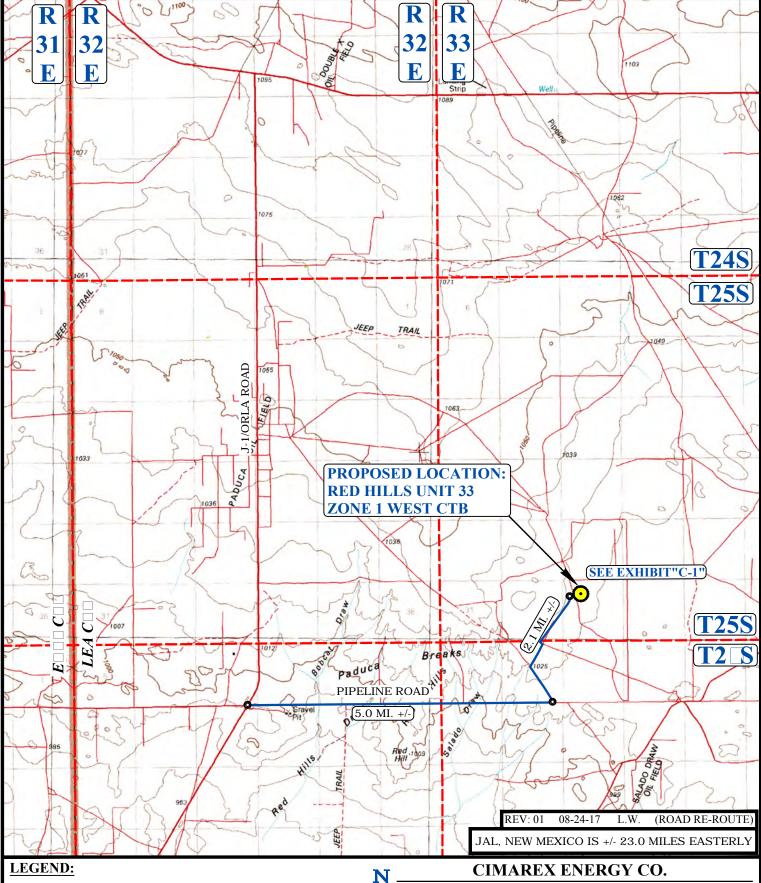
REV: 01 08-24-17 L.W. (ROAD RE-ROUTE)

CIMAREX ENERGY CO.

RED HILLS UNIT 33 ZONE 1 WEST CTB NW 1/4, SECTION 33, T25S, R33E, N.M.P.M. LEA COUNTY, NEW MEXICO



SURVEYED BY	C.J., A.H.	05-05-17	
DRAWN BY D	05-26-17		
ROAD DESC	CRIPTION	EXHI	BIT F



LEGEND:

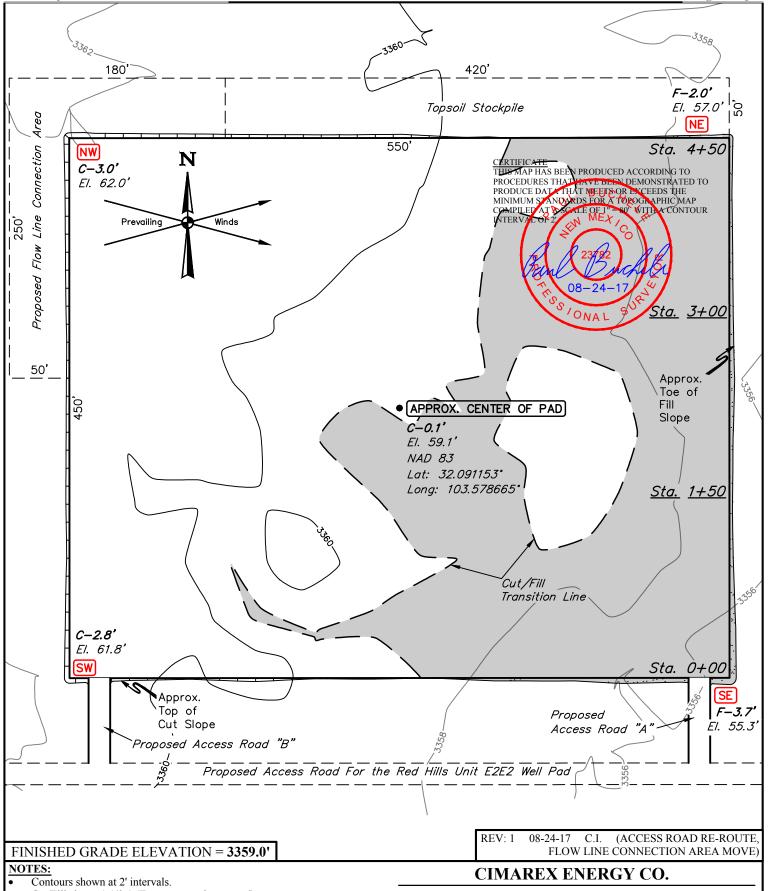
• PROPOSED LOCATION

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

CIMAREX ENERGY CO.

RED HILLS UNIT 33 ZONE 1 WEST CTB NW 1/4, SECTION 33, T25S, R33E, N.M.P.M. LEA COUNTY, NEW MEXICO

SURVEYED BY C.J., A.H. 05-05-17 **SCALE** 1:100,000 **DRAWN BY** 05-26-17 PUBLIC ACCESS ROAD MAP EXHIBIT B

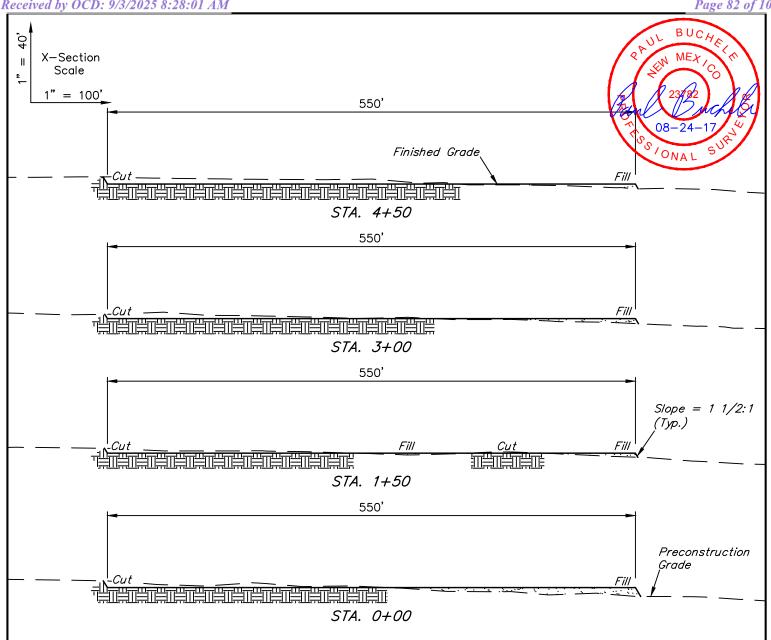


- Cut/Fill slopes 1 1/2:1 (Typ. except where noted)
- Topsoil stockpile to be seeded in place prior to reclamation.

UINTAH

UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017 RED HILLS UNIT 33 ZONE 2 WEST CTB E 1/2 NW 1/4, SECTION 33, T25S, R33E, N.M.P.M. LEA COUNTY, NEW MEXICO

SURVEYED BY	C.J., A.H., P.R.	05-04-17		SCALE	
DRAWN BY	S.F.	06-02-17		1" = 80'	
LOCATION LAYOUT EXHIBIT F					



APPROXIMATE EARTHWOR □ UANTITIES					
(4") TOPSOIL STRIPPING	3,120 Cu. Yds.				
REMAINING LOCATION	4,790 Cu. Yds.				
TOTAL CUT	7,910 Cu. Yds.				
	4,790 Cu. Yds.				
EXCESS MATERIAL	3,120 Cu. Yds.				
TOPSOIL	3,120 Cu. Yds.				
EXCESS UNBALANCE (After Interim Rehabilitation)	0 Cu. Yds.				

APPROXIMATE SUR□ACE DISTURBANCE AREAS						
DISTANCE ACRE						
WELL SITE DISTURBANCE	NA	±6.273				
FLOW LINE CONNECTION AREA DISTURBANCE	NA	±0.436				
30' WIDE ACCESS ROAD "A" R-O-W DISTURBANCE	±79.97'	±0.055				
30' WIDE ACCESS ROAD "B" R-O-W DISTURBANCE	±79.85'	±0.055				
30' WIDE POWER LINE R-O-W DISTURBANCE	±1,563.59'	±1.077				
TOTAL		±7.896				

REV: 1 08-24-17 C.I. (RE-ROUTE)

NOTES:

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

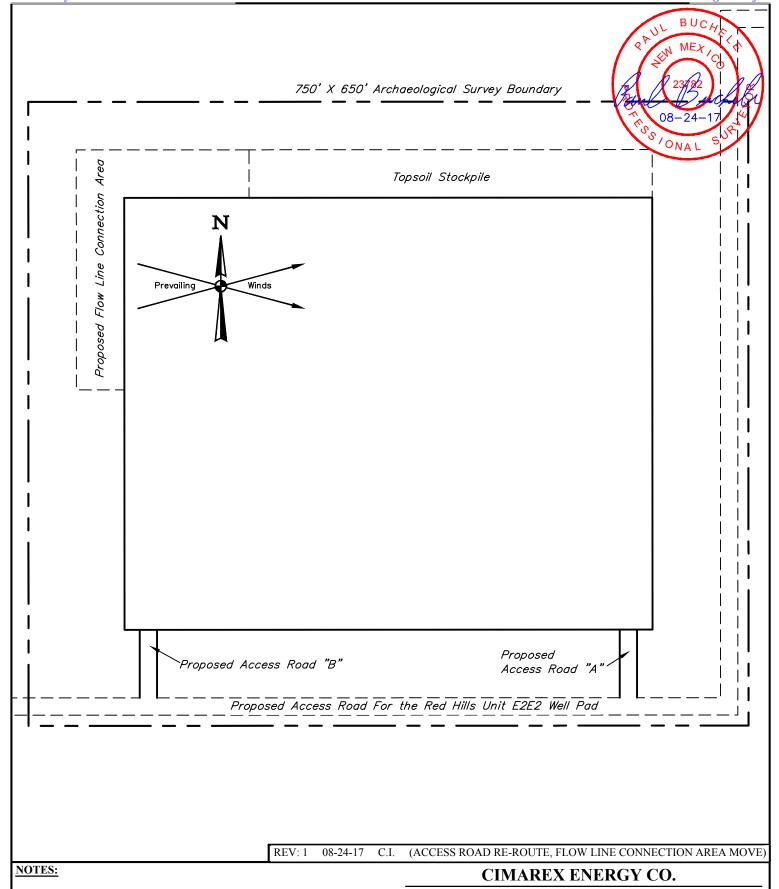
UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

CIMAREX ENERGY CO.

RED HILLS UNIT 33 ZONE 2 WEST CTB E 1/2 NW 1/4, SECTION 33, T25S, R33E, N.M.P.M. LEA COUNTY, NEW MEXICO

SURVEYED BY	C.J., A.H., P.R.	05-04-17	SCALE			
DRAWN BY	S.F.	06-02-17	AS SHOWN			
TVDICAL CDOSS SECTIONS FYHIRIT E						

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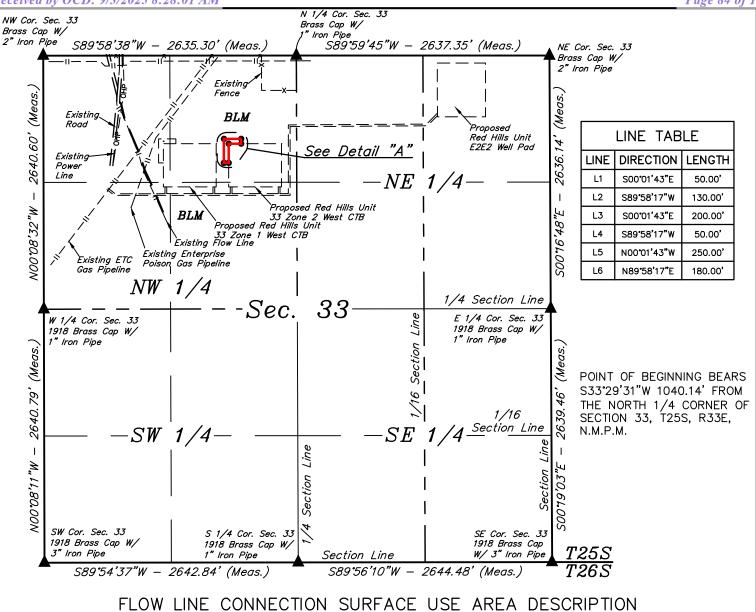
RED HILLS UNIT 33 ZONE 2 WEST CTB E 1/2 NW 1/4, SECTION 33, T25S, R33E, N.M.P.M. LEA COUNTY, NEW MEXICO

 SURVEYED BY
 C.J., A.H., P.R.
 05-04-17
 SCALE

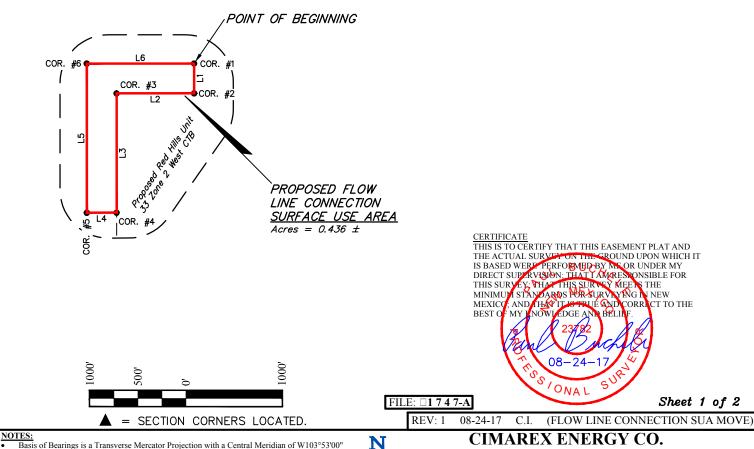
 DRAWN BY
 S.F.
 06-02-17
 1" = 100'

 ARCHAEOLOGICAL SURVEY BOUNDARY
 EXHIBIT F

UNITAH ENGINEERING & LAND SURVEYING



BEGINNING AT A POINT IN THE NE 1/4 NW 1/4 OF SECTION 33, T25S, R33E, N.M.P.M., WHICH BEARS S33°29'31"W 1040.14' FROM THE NORTH 1/4 CORNER OF SAID SECTION 33, THENCE S00°01'43"E 50.00'; THENCE S89°58'17"W 130.00'; THENCE S00°01'43"E 200.00'; THENCE S89°58'17"W 50.00'; THENCE N00°01'43"W 250.00'; THENCE N89°58'17"E 180.00' TO THE POINT OF BEGINNING. CONTAINS 0.436 ACRES MORE OR LESS.



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

CIMAREX ENERGY CO.

RED HILLS UNIT 33 ZONE 2 WEST CTB SECTION 33, T25S, R33E, N.M.P.M. LEA COUNTY, NEW MEXICO

C.J., A.H., P.R. SURVEYED BY 05-04-17 **SCALE** B.D.H 06-07-17 FLOW LINE CONNECTION EXHIBIT F

BEGINNING AT THE INTERSECTION OF J-1/ORLA ROAD AND PIPELINE ROAD TO THE EAST (LOCATED AT NAD83 LATITUDE N32.064964° AND LONGITUDE W103.674262°) PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 5.0 TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY, THEN NORTHEASTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 2.1 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE RED HILLS UNIT E2E2; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION THEN EASTERLY DIRECTION FOR APPROXIMATELY 1,809' TO THE PROPOSED ACCESS "A"; FOLLOW ROAD FLAGS IN A NORTHERLY DIRECTION APPROXIMATELY 80' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM THE INTERSECTION OF J-1/ORLA ROAD AND PIPELINE ROAD TO THE SOUTH (LOCATED AT NAD83 LATITUDE N32.064964° AND LONGITUDE W103.674262°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 7.5 MILES.

REV: 01 08-24-17 L.W. (ROAD RE-ROUTE)

CIMAREX ENERGY CO.

RED HILLS UNIT 33 ZONE 2 WEST CTB E 1/2 NW 1/4, SECTION 33, T25S, R33E, N.M.P.M. LEA COUNTY, NEW MEXICO



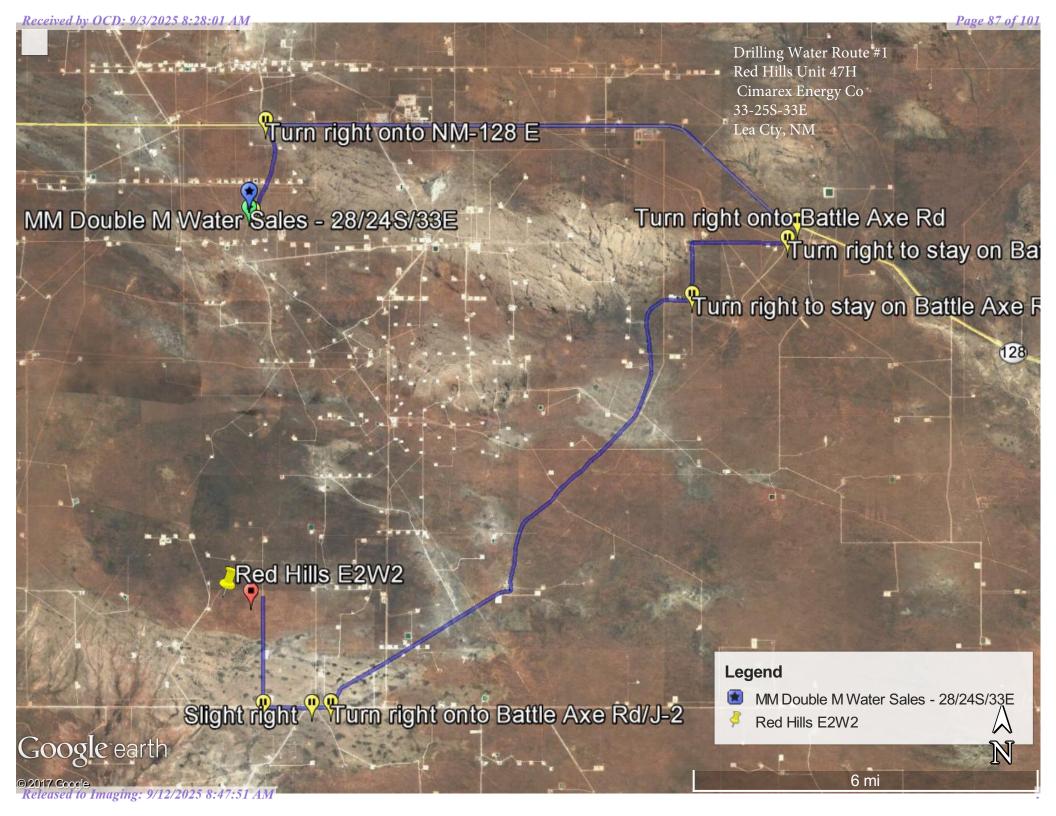
SURVEYED BY	C.J., A.H.	05-05-17	
DRAWN BY			
ROAD DESCRI	PTION	EXHIE	BIT F

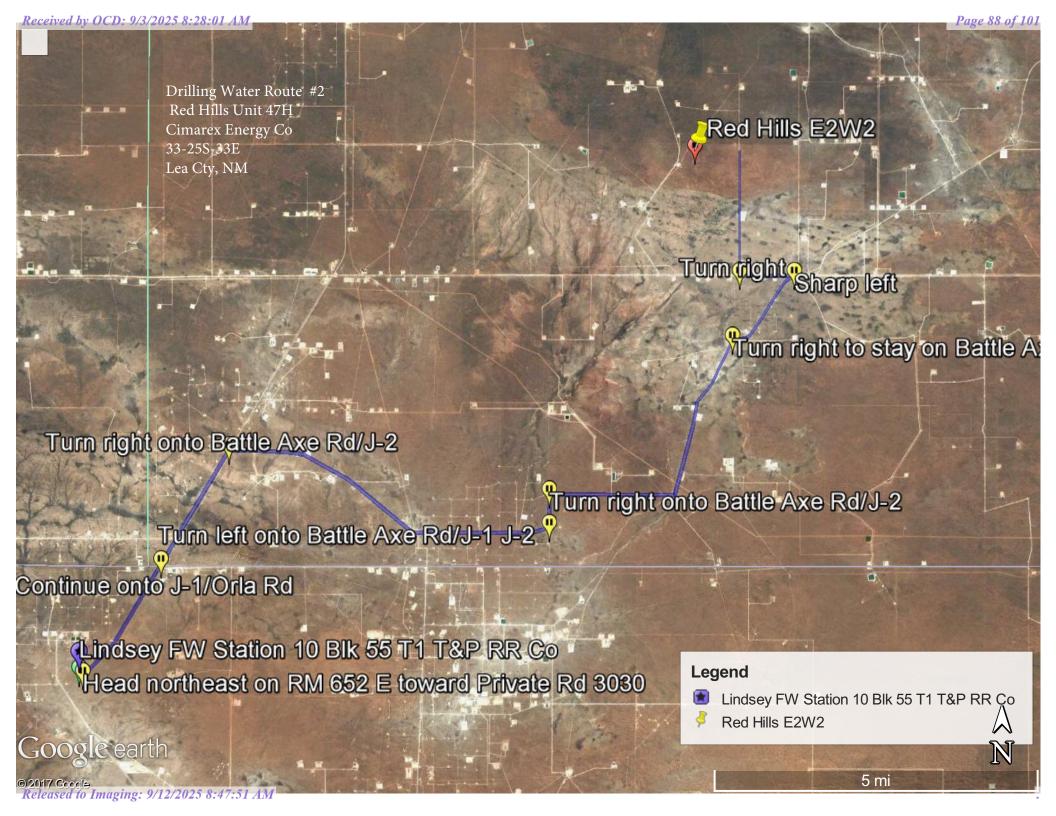




RED HILLS UNIT 33 ZONE 2 WEST CTB E 1/2 NW 1/4, SECTION 33, T25S, R33E, N.M.P.M. LEA COUNTY, NEW MEXICO

SURVEYED BY	C.J., A.H.	05-05-17	SCALE	11
DRAWN BY	V.L.D.V.L.I	05-26-	17 1:100	0000
PUBLIC ACCES	SS ROAD M	IAP EXH	IBIT B	Ш





NOTE: Earthwork calculations require a fill @ some location stakes for balance. All fill is to be compacted to a minimum of 95% of the maximum FINISHED GRADE ELEVATION = 3362.2 dry density obtained by AASHTO method t-99.

70'

Proposed Red Hills Unit 33–4 Access Road "B" REV: 10

- Contours shown at 2' intervals.
- Cut/Fill slopes 1 1/2:1 (Typ.)

30'

- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

250

CIMAREX ENERGY CO. OF COLORADO

Existing ETP Pipeline

(UPDATE SHL'S & REMOVE WELLS)

[6B

L.T.T.

75'

01-22-25

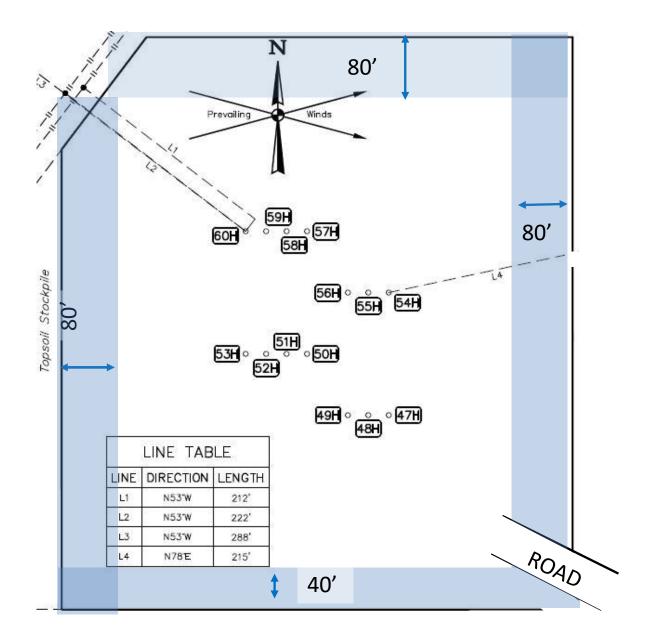
RED HILLS UNIT E2W2 NE 1/4 NW 1/4, SECTION 33, T25S, R33E, N.M.P.M. LEA COUNTY, NEW MEXICO



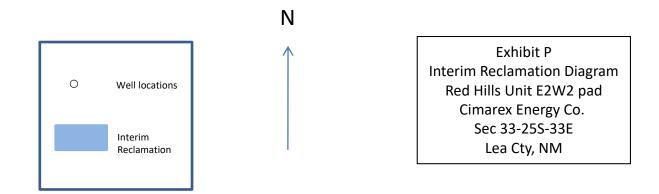
UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

SURVEYED BY	C.J., A.H.	05-05-17		SCALE
DRAWN BY	S.F.	06-0)3-17	1" = 80'
LOCATI	ON LAYOUT		EX	HIBIT D

<mark>[8]</mark> El. 63.0°



Pad will be reclaimed after cessation of drilling operations. Please see Surface Use Plan for pad reclamation plans.



Cimarex Red Hills Unit 47H Surface Use Plan

Upon approval of the Application for Permit to Drill (APD) the following surface use plan of operations will be followed and carried out. The surface use plan outlines the proposed surface disturbance. If any other disturbance is needed after the APD is approved, a BLM sundry notice or right of way application will be submitted for approval prior to any additional surface disturbance.

Existing Roads

- Directions to location Exhibit A.
- Public access route Exhibit B.
- Existing access road for the proposed project. Please see Exhibit B and C.
- Cimarex Energy will:
 - o Improve and/or maintain existing road(s) condition the same as or better than before the operations began.
 - o Provide plans for improvement and /or maintenance of existing roads if requested.
 - o Repair or replace damaged or deteriorated structures as needed. Including cattle guards and culverts.
 - Prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations, or other events.
 - Obtain written BLM approval prior to the application of surfactants, binding agents, or other dust suppression chemicals on the roadways.
- The maximum width of the driving surface will be 18'. The road will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 1' deep with 3:1 slopes. The driving surface will be made of 6" rolled and compacted caliche.

New or Reconstructed Access Roads

Cimarex Energy plans to construct a new off-lease access road

- Length: 7168'
- Width: 30'
- Road Plat Exhibit D.
- A ROW will be submitted to the BLM for approval.
- Cimarex Energy will complete improvements to the driving surface as needed.
- The maximum width of the driving surface for all roads above will be 18'.
- The road will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface.
- The ditches will be 1' deep with 3:1 slopes.
- The driving surface will be made of 6" rolled and compacted caliche.
- Cimarex Energy will prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations, or other events.

Well Radius Map

Please see Exhibit E for wells within one mile or proposed well SHL and BHL.

Proposed or Existing Production Facility

An existing battery will be utilized for the project if the well is productive.

- Red Hills Unit 33 Zone 1 & Zone 2 West CTB
 - o Battery Pad diagram Exhibit F
 - o Battery will not require an expansion in order to accommodate additional production equipment for the project.
 - o Battery Pad location previously approved
 - Sundry: Red Hill Unit 16H & Red Hills Unit 17H.

Gas Pipeline Specifications

No new gas pipelines are required for this project.

Salt Water Disposal Specifications

No new SWD pipelines are required for this project.

Cimarex Red Hills Unit 47H Surface Use Plan

Power Lines

- Cimarex plans to construct an off-lease power line to service the Red Hills Unit E2W2 Well Pad.
- Overhead power line from an existing power source located in the SW/4 of Sec.28-25S-33E.
- Length: 243'.
- Poles: 1
- Specifications: 480 volt, 4 wire, 3 phase.
- Please see Exhibit I for proposed route.
- A ROW application will be submitted to the BLM for the proposed route.

Well Site Location

- Proposed well pad/location layout Exhibit J.
- Proposed Rig layout Exhibit K
 - The rig layout, including V-door and flare line may change depending on rig availability. The pad dimensions and orientation will remain the same. No additional disturbance is anticipated if a rig layout change is necessary to accommodate the drilling rig. If additional disturbance is required a sundry notice will be submitted to the BLM for approval.
 - Mud pits in the closed circulation system will be steel pits and the cuttings will be stored in the steel containment pits.
 - o Cuttings will be stored in steel pits until they are hauled to a state-approved disposal facility.
- Archeological boundary Exhibit L
- Multi well pad: Red Hills Unit #47H through #60H
- Pad Size: 500 x 560
- Construction Material
 - o If possible, native caliche will be obtained from the excavation of drill site. The primary way of obtaining caliche will be by "turning over" the location. This means caliche will be obtained from the actual well site. A caliche permit will be obtained from BLM prior to pushing up any caliche. 2,400 cu yds is the max amount of caliche needed for pad and roads. Amount will vary for each pad. The procedure below has been approved by BLM personnel:
 - The top 6 inches of topsoil is pushed off and stockpiled along the side of the location.
 - An approximate 120' x 120' area is used within the proposed well site to remove caliche.
 - Subsoil is removed and piled alongside the 120' x 120' area within the pad site.
 - When caliche is found, material will be stockpiled within the pad site to build the location and road.
 - Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road.
 - Once well is drilled, the stockpiled top soil will be used for interim reclamation and spread along areas
 where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stockpiled
 outside of the well pad. Topsoil will be stockpiled along the edge of the pad as depicted in Exhibit J Layout
 Diagram.
 - Per the Surface Use Agreement Cimarex will be required to use caliche from a BLM Approved pit in Sec. 20-25S-33E.
 - o Mud pits in the closed circulation system will be steel pits and the cuttings will be stored in steel containment pits.
- Cuttings will be stored in steel pits until they are hauled to a state-approved disposal facility.
- If the well is a producer, those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements. Exhibit P: Interim Reclamation Diagram.
- There are no known dwellings within 1.5 miles of this location.

Flowlines and Gas Lift Pipelines

All proposed pipelines will be constructed in a 30' ROW corridor.

- Flowlines
 - o Cimarex Energy plans to construct on-lease flowlines to service the well.
 - o 6" HP steel for oil, gas, and water production.
 - o Length: 900'.
 - o MAOP: 1,500 psi; Anticipated working pressure: 200-300 psi.
 - o Please see Exhibit M for proposed on lease route.
- Gas Lift Pipeline
 - o Cimarex Energy plans to construct on-lease gas lift pipelines to service the well.
 - o 6" HP steel for gas lift.
 - o Length: 900'.
 - o MAOP: 1,500 psi; Anticipated working pressure: 200-300 psi.
 - o Please see Exhibit N for proposed on lease route.

Cimarex Red Hills Unit 47H Surface Use Plan

Water Resources

- A temporary surface fresh water pipeline(s) will be utilized for this project.
- Cimarex plans to lay the fresh water surface pipeline(s) prior to commencement of the stimulation job.
- 10" lay-flat surface pipeline.
- The surface pipeline(s) will follow the road from a frac pit to the well.
- Length: 11,050'.
- Operating pressure: <140 psi.
- Fresh water will be purchased from a 3rd party.
- Please see Exhibit O for proposed route.

Methods of Handling Waste

- Drilling fluids, produced oil, and water from the well during drilling and completion operations will be stored safely and disposed of properly in a NMOCD approved disposal facility.
- Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly at a state approved disposal facility. All trash on and around well site will be collected for disposal.
- Human waste and grey water will be contained and disposed of properly at a state approved disposal site.
- After drilling and completion operations, trash, chemicals, salts, frac sand and other waste will be removed and disposed of properly at a state approved disposal site.
- The well will be drilled utilizing a closed loop system. Drill cuttings will be properly disposed of into steel tanks and taken to an NMOCD approved disposal facility.

Waste Minimization Plan

See Gas Capture Plan.

Ancillary Facilities

No camps or airstrips to be constructed.

Interim and Final Reclamation

- Rehabilitation of the location will start in a timely manner after all proposed drilling wells have been drilled from the pad or if drilling operations have ceased as outlined below:
 - o No approved or pending drill permits for wells located on the drill pad
 - No drilling activity for 5 years from the drill pad
- Surfacing materials will be removed and returned to a mineral pit or recycled to repair or build roads and well pads.
- Drainage systems, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may
 need to be modified in certain circumstances to prevent inundation of the location's pad and surface facilities. After the area
 has been shaped and contoured, topsoil from the spoil pile will be placed over the disturbed area to the extent possible.
 Revegetation procedures will comply with BLM standards.
- Exhibit P illustrates the proposed Surface Reclamation plans after cessation of drilling operations as outlined above.
 - The areas of the location not essential to production facilities and operations will be reclaimed and seeded per BLM requirements.
- Operator will amend the surface reclamation plan if well is a dry hole and/or a single well pad.

Surface Ownership

- The wellsite is on surface owned by Burau of Land Management.
- A copy of Surface Use Agreement has been given to the surface owner.
- The land is used mainly for farming, cattle ranching, recreational use, and oil and gas production.

Cultural Resource Survey - Archeology

 Cultural Resources Survey will be conducted for the entire project as proposed in the APD and submitted to the BLM for review and approval.

On Site Notes and Information

Onsite Date: 4/11/2017

BLM Personnel on site: Jeff Robertson Cimarex Energy personnel on site: Barry Hunt

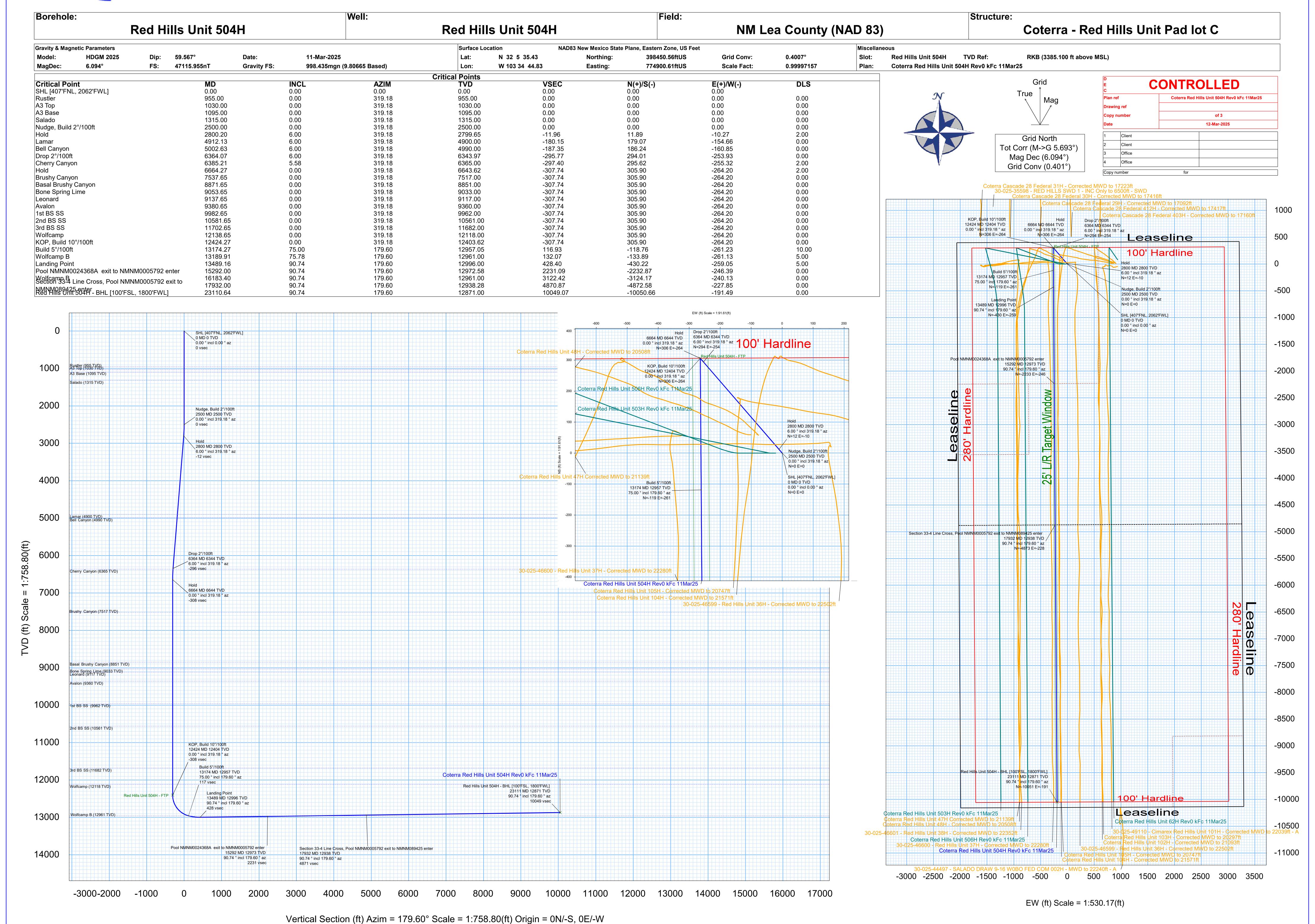
Pertinent information from onsite:



COTERRA



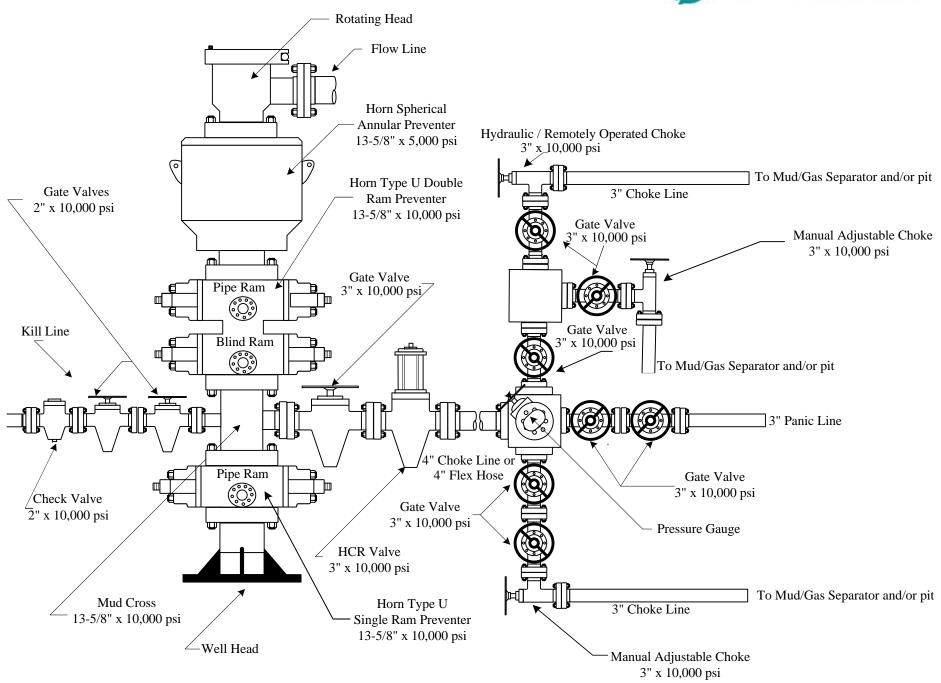


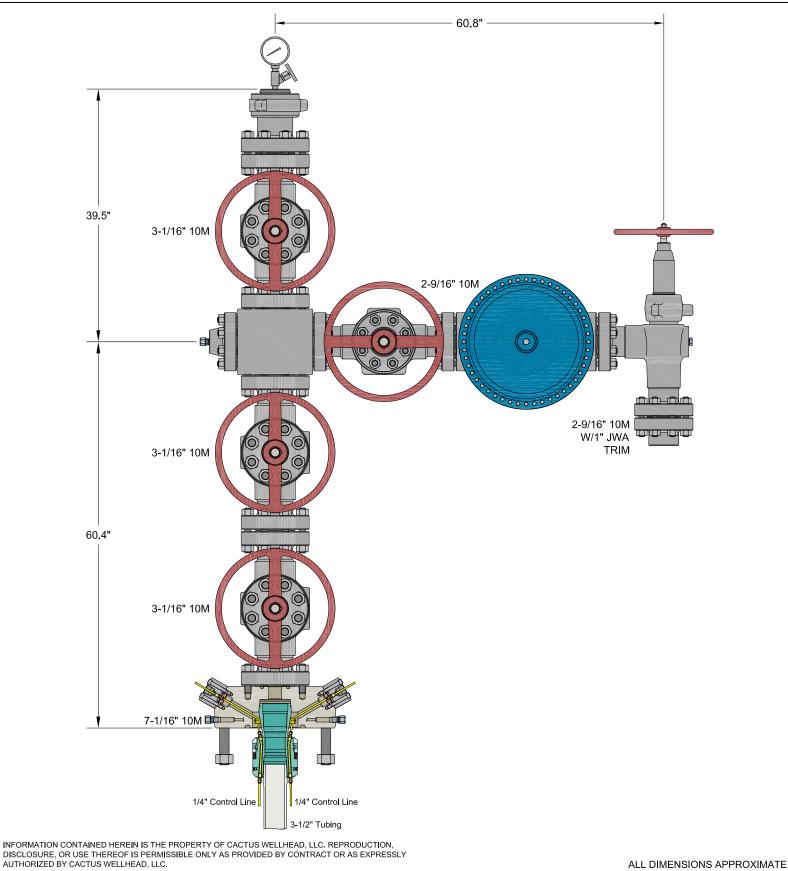


0	BOP EQUIPMENT INFORMATION							
Ay O	DESCRIPTION	MODEL	QTY	ITEM	DESCRIPTION	MODEL	QT	
Ā	ANNULAR BOP	13 %" 5M	-1	G	STUDDED BLOCK	4 ½ ₆ " 10M	1	
ĕ	DOUBLE RAM BOP	13 %" 10M TYPE-U	- 1	н	GATE VALE	2 ⅓ ₆ " 10M FC MANUAL	2	
eive	MUD CROSS	13 %" 10M	-1	1	CHECK VALVE	2 ½ ₆ * 10M	1	
0	SINGLE RAM BOP	13 %" 10M TYPE-U	-1	J	CHOKE HOSE	4 ½ ₆ " 10M	1	
Re	GATE VALVE	4 1/16" 10M FC MANUAL	- 1	К	KILL HOSE	2 ½ ₆ " 10M	1	
F	HCR VALVE	4 % " 10M HCR	-1					

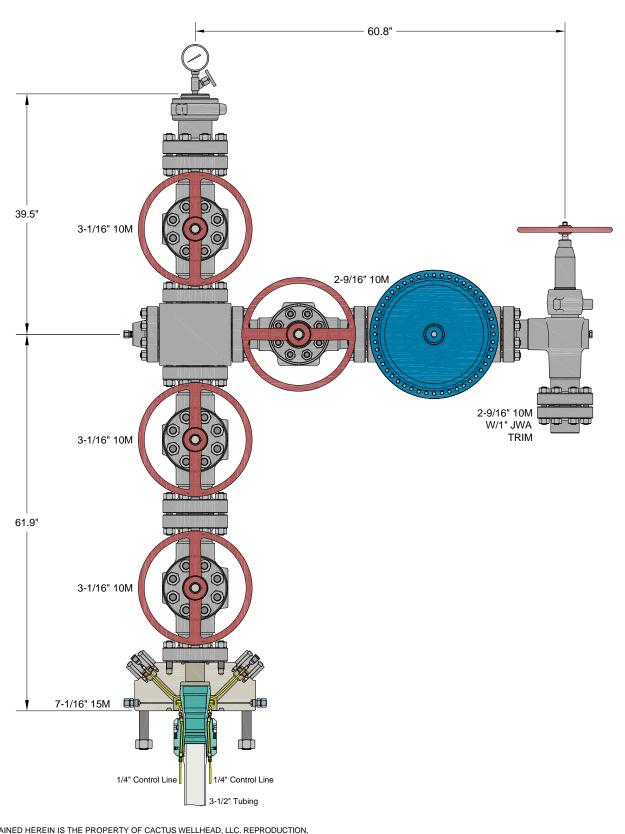
Received by OCD: 9/3/2025 8:28:01 AM







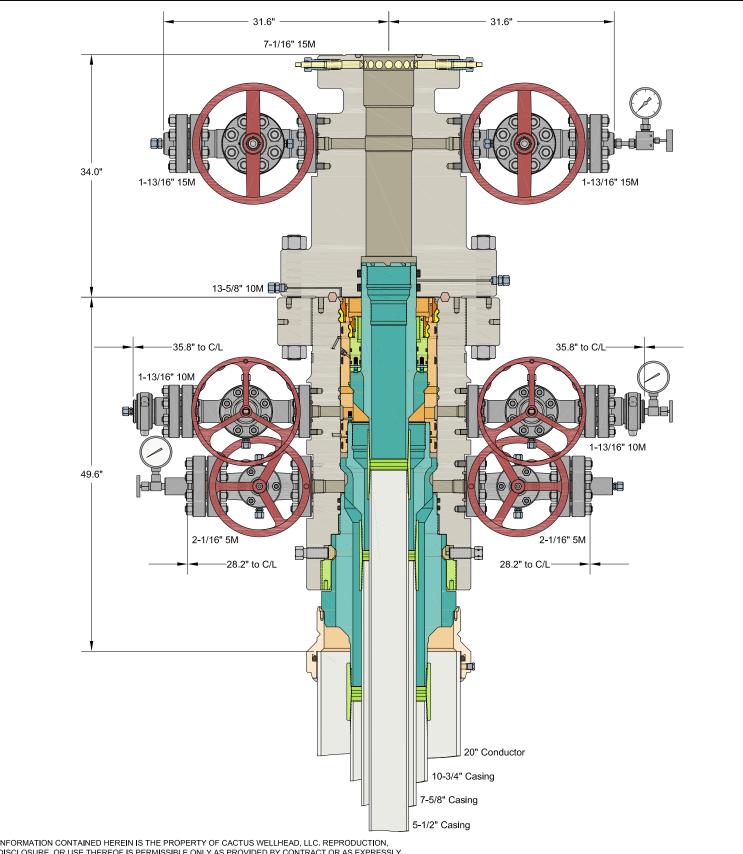
CACTUS WELLHEAD LLC		CIMAREX HOBBS, NM	
7-1/16" 10M x 3-1/16" x 2-9/16" 10M Production Tree Assembly	DRAWN	VJK	05SEP23
•	APPRV		
With 7-1/16" 10M x 3-1/16" 10M T40-CCL Tubing Head Adapter	DRAWING NO		1010
And 7-1/16" 3-1/2" T40-CCL Tubing Hanger		o. HBE000	1018



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ALL DIMENSIONS APPROXIMAT

CACTUS WELLHEAD LLC	CIMAREX HOBBS, NM		
7-1/16" 15M x 3-1/16" x 2-9/16" 10M Production Tree Assembly	DRAWN	VJK	13DEC23
	APPRV		
With 7-1/16" 15M x 3-1/16" 10M T40-CCL Tubing Head Adapter			
And 7-1/16" 3-1/2" T40-CCL Tubing Hanger	DRAWING NO	o. HBE000)1018



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ALL DIMENSIONS APPROXIMATE

COTERRA ENERGY INC CACTUS WELLHEAD LLC HOBBS, NM VJK 07JUL23 DRAWN 20" x 10-3/4" x 7-5/8" x 5-1/2" MBU-3T-CFL-R-DBLO-SF Wellhead APPRV With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head DRAWING NO. HBE0000965 And 7-5/8" & 5-1/2" Mandrel Casing Hangers

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 500969

ACKNOWLEDGMENTS

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd	Action Number:
Midland, TX 79706	500969
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

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CONDITIONS

Action 500969

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CONDITIONS

Created By	Condition	Condition Date
klinarte	Cement is required to circulate on both surface and intermediate1 strings of casing.	9/3/2025
klinarte	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	9/3/2025
matthew.gomez	Administrative order required for non-standard location prior to production.	9/11/2025
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.	9/12/2025
matthew.gomez	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	9/12/2025
matthew.gomez	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	9/12/2025
matthew.gomez	File As Drilled C-102 and a directional Survey with C-104 completion packet.	9/12/2025