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. 30-025-52903 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. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the 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

APPROVED WITH CONDITIONS Released to Imaging: 5/9/2024 10:18:51 AM Approval Date: 04/11/2024

\*(Instructions on page 2)

District I

1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-52903	I Ognaz	98094 BOBCAT DRAW; UPPER WOLFCAMP			
<sup>4</sup> Property Code 314104	CA	<sup>5</sup> Property Name CASCADE 28 FEDERAL			
<sup>7</sup> ogrid №. 215099	CIN	<sup>8</sup> Operator Name CIMAREX ENERGY CO.			

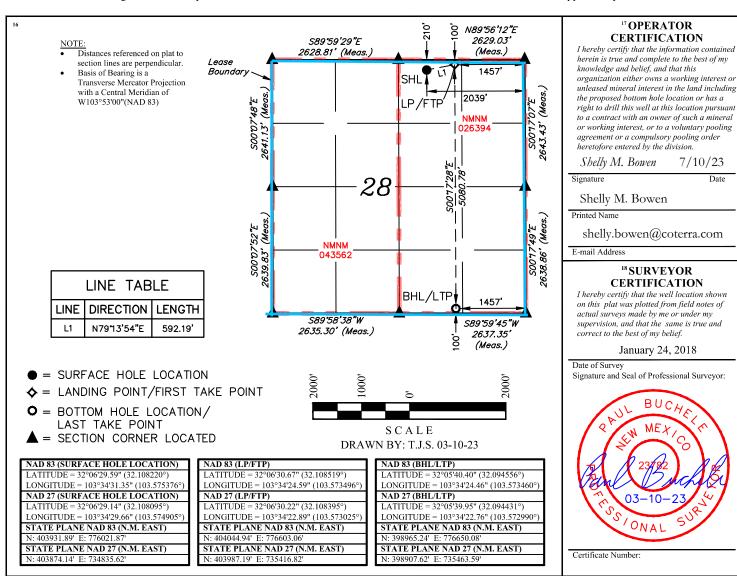
#### <sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
В	28	25S	33E		210	NORTH	2039	EAST	LEA

#### <sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no. O	Secti 28	· I	Township 25S	Range 33E	Lot Idn	Feet from the 100	North/South line SOUTH	Feet from the 1457	East/West line EAST	County LEA
12 Dedicated Acre 640	es	<sup>13</sup> Jo	int or Infill	14 Conso	olidation Code	15 Order No.	REOUIF	RES NSP		

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



I. Operator:

# State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

07/5/2023

Date:

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

OGRID: 215099

x Energy Company		_OGRID: _2	15099	07/5/2023	
nal □ Amendmer	nt due to □ 19.15.27.9	9.D(6)(a) NMA	.C □ 19.15.27.9.D	<b>0</b> (6)(b) NMAC □	Other.
ribe:					
				f wells proposed t	to be drilled or proposed
API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
	B, Sec 28 T25S, R33E	210 FNL/2039	FEL 2000	3900	5000
	single well pad or co	TD Reached Date	Completion Commencement	nt. Initial F Date Back D	First Production Date Date
	11/19/2024	12/7/2024	1/28/2025	2/13/20	25 2/13/2025
ractices:  Attactices:  Attactices:  The properties of 19.15.27.8	ch a complete descrip NMAC.	otion of the act	tions Operator wil	Il take to comply	with the requirements of
	API  API  API  API  API  API  API  API	ribe:	anal □ Amendment due to □ 19.15.27.9.D(6)(a) NMA  Tibe:  the the following information for each new or recomporation a single well pad or connected to a central delivery  API ULSTR Footages  B, Sec 28 T25S, R33E 210 FNL/2039  To Point Name: Cascade 28 CDP Sales  The dule: Provide the following information for each net completed from a single well pad or connected to a central delivery  API Spud Date TD Reached Date  API Spud Date TD Reached Date  To Reached Date  To Footages  The API Spud Date TD Reached Date  The API Spud Date TD Reached Date	anal □ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.E  Tibe:  The the following information for each new or recompleted well or set of the following information for each new or recompleted well or set of the following information for each new or recompleted on the following information for each new or recompleted ompleted from a single well pad or connected to a central delivery point.    API	anal □ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ 19.15.27.D(6)(b) NMAC □ 19.

# Section 2 – Enhanced Plan

			E APRIL 1, 2022		
Beginning April 1, 2 reporting area must c			with its statewide natural g	s capture requirement for	the applicable
Operator certifies capture requirement	-	-	tion because Operator is in	ompliance with its statew	ide natural gas
IX. Anticipated Nat	ural Gas Producti	on:			
We	11	API	Anticipated Average Natural Gas Rate MCF/E	Anticipated Volum Gas for the First	
X. Natural Gas Gat	hering System (NC	GGS):			
Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Da of System Segment	
production operations the segment or portion XII. Line Capacity. production volume fr	s to the existing or point of the natural gas.  The natural gas gas from the well prior to	blanned interconnect of the gathering system will the the date of first product		em(s), and the maximum danceted.  ather 100% of the anticipa	aily capacity of
			at its existing well(s) connect meet anticipated increases in		
☐ Attach Operator's	plan to manage pro	oduction in response to the	ne increased line pressure.		
Section 2 as provided	l in Paragraph (2) o		uant to Section 71-2-8 NMS 27.9 NMAC, and attaches a f ion.		

(i)

# Section 3 - Certifications Effective May 25, 2021

	<u>=====================================</u>						
Operator certifies that, a	fter reasonable inquiry and based on the available information at the time of submittal:						
one hundred percent of	Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport me hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, king into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or						
hundred percent of the a into account the current	able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one inticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. box, Operator will select one of the following:						
Well Shut-In. ☐ Operat D of 19.15.27.9 NMAC	for will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection ; or						
alternative beneficial us	lan. □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential es for the natural gas until a natural gas gathering system is available, including:						
(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; reinjection for enhanced oil recovery;						
(g) (h)	fuel cell production; and						
I (II)	tuoi oon production, and						

# **Section 4 - Notices**

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

other alternative beneficial uses approved by the division.

- (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: Sarah Jordan
Printed Name: Sarah Jordan
Title: Regulatory Analyst
E-mail Address: sarah.jordan@coterra.com
Date: 7/5/2023
Phone: 432/620-1909
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.

# **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 12,320  $\,$  Pilot Hole TD N/A

MD at TD 17,204 Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
RUSTLER	995	Useable Water	
TOP SALT	1340	N/A	
BASE SALT	4930	N/A	
TOP DELAWARE SANDS	4970	N/A	
CHERRY CANYON	5985	N/A	
BRUSHY CANYON	7575	Hydrocarbons	
BASAL BRUSHY CANYON	8920	Hydrocarbons	
BONE SPRING LIME	9090	Hydrocarbons	
LEONARD	9130	Hydrocarbons	
AVALON	9330	Hydrocarbons	
1ST BONE SPRING SAND	10105	Hydrocarbons	
3RD BONE SPRING CARB	11120	Hydrocarbons	
3RD BONE SPRING SAND	11785	Hydrocarbons	
WOLFCAMP	12360	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	1170	1170	10-3/4"	40.50	J-55	BT&C	3.12	6.18	13.27
9 7/8	0	12288	12192	7-5/8"	29.70	L-80	BT&C	2.49	1.21	1.83
6 3/4	0	11726	11726	5-1/2"	20.00	L-80	LT&C	1.16	1.21	1.88
6 3/4	11726	17204	12320	5"	18.00	P-110	BT&C	1.68	1.70	54.25
					BLM	Minimum S	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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	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?	Y

# 3. Cementing Program

Casing		Wt. lb/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	455	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	121	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	971	10.30	3.64	22.18		Lead: Tuned Light + LCM
	207	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS
Production						
	710	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	12088	25
Production	12088	25

# 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	5M	100% of working pressure
			Blind Ram		
			Pipe Ram	X	10M
			Double Ram	X	
			Other		
6 3/4	13 5/8	10M	Annular	5M	100% of working pressure
			Blind Ram		
			Pipe Ram	X	10M
			Double Ram	Х	
			Other		

X	Formation integrity test will be performed per Onshore Order #2.  On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
×	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

Are anchors required by manufacturer?

#### 5. Mud Program

Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0' to 1170'	Fresh Water	7.83 - 8.33		N/C
1170' to 12288'	Brine Diesel Emulsion	8.50 - 9.00	30-35	N/C
12288' to 17204'	ОВМ	12.00 - 12.50	50-70	N/C

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

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
Additional Logs Planned	intervai

#### 7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	8008 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

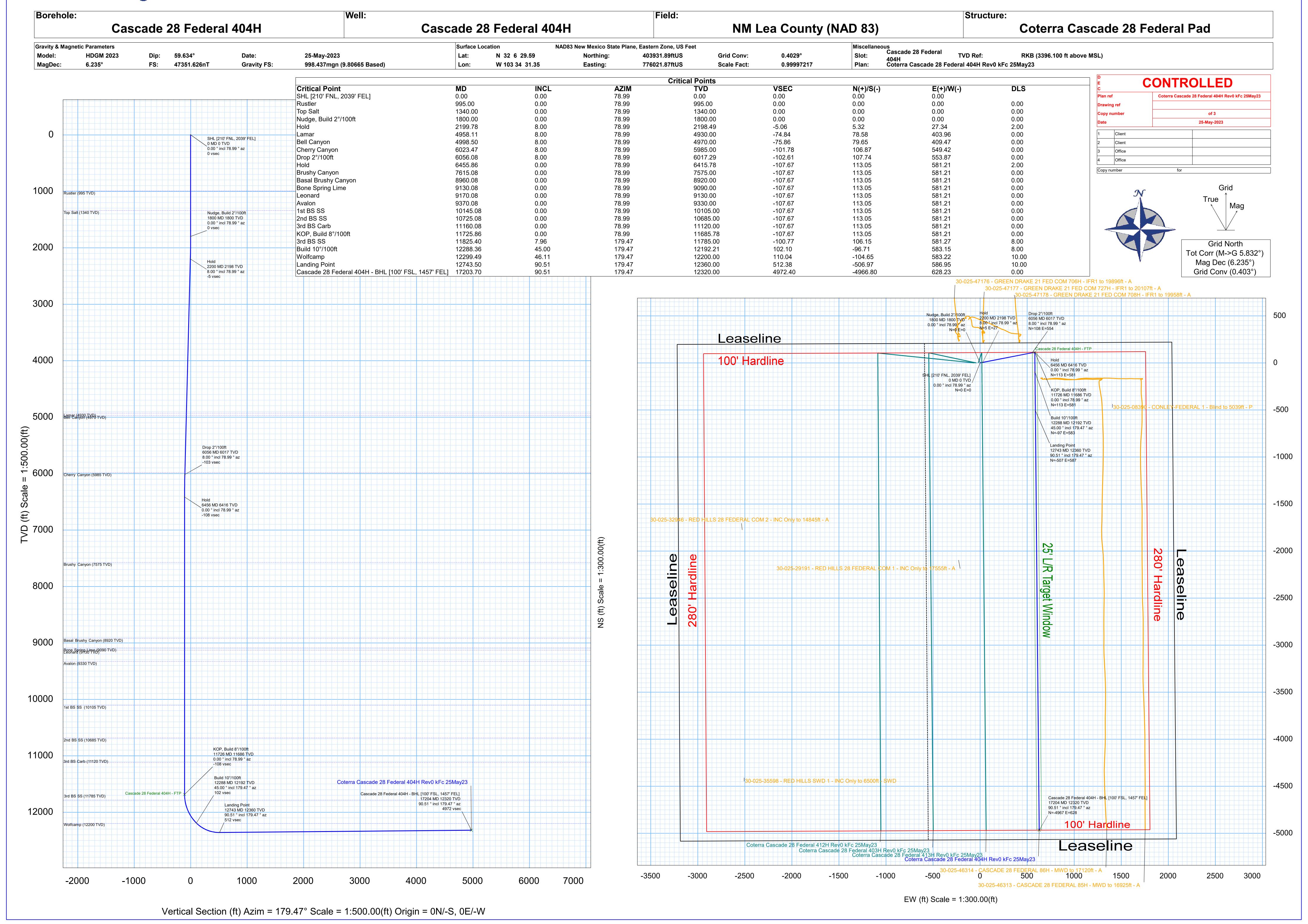
1. In the event wellbore pressure encroaches to the maximum rated pressure of the annular, primary pressure control will be switched to the higher rated components (i.e., switch from annular to pipe rams) – upper pipe rams will be closed, and the annular opened in order to not exceed maximum rated pressures.

# Schlumberger

# COTERRA

# Rev 0



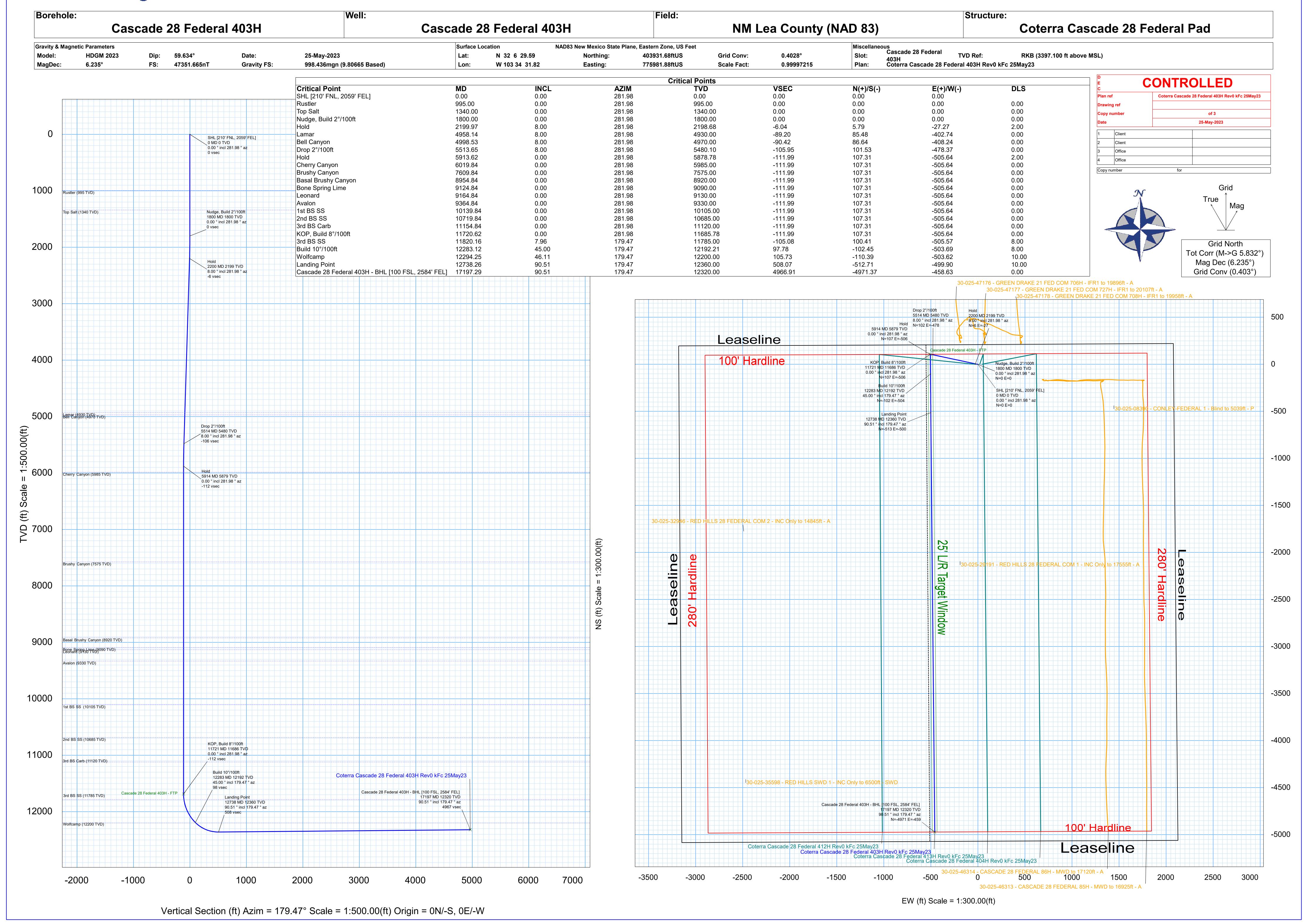


# Schlumberger

# COTERRA







#### Schlumberger

# Coterra Cascade 28 Federal 404H Rev0 kFc 25May23 Anti-Collision Summary Report

Analysis Date-24hr Time: May 25, 2023 - 03:24 PM (UTC 0)

Client:

NM Lea County (NAD 83) Coterra Cascade 28 Federal Pad Cascade 28 Federal 404H Field: Slot:

Borehole

Cascade 28 Federal 404H Cascade 28 Federal 404H Scan MD Range: 0.00ft ~ 17203.70ft

Analysis Method: 3D Least Distance

Reference Trajectory: Coterra Cascade 28 Federal 404H Rev0 kFc 25May23 (Def Plan) Depth Interval:

Every 10.00 Measured Depth (ft)
NAL Procedure: D&M AntiCollision Standard S002

Min Pts: Absolute minima indicated.

Cascade 28 Federal 404H–COTERRA Database \ Project:

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

Offset Trajectories Summary

Offset Selection Criteria
Bounding box scan:

Selection filters:

minimum Ct-Ct separation <= 2000ft
Definitive Surveys - Definitive Plans - Definitive surveys exclude definitive plans
- All Non-Def Surveys when no Def-Survey is set in a borehole - All Non-Def Plans when no Def-Plan is set in a borehole

Offset Trajectory		Separation		Allow	llow Sep. Contr		Controlling Reference Trajec				Alert	Status	
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major		
Results highlighted in red: Sep-F	Factor <= 1.5												
Result highlighted in boxed, red	and bold: all lo	cal minima in	dicated.										
0-025-08390 - CONLEY-FEDE	RAL 1 - Blind	to 5039ft - P	(DefinitiveSu	rvey)									Fail Major
	1472.88	32.81	1471.02	1440.07	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1472.55	32.81	1470.65	1439.74	38906.15	MAS = 10.00 (m)	20.00	20.00				MinPt-O-SF	
	1472.53	32.81	1470.63	1439.72	42973.56	MAS = 10.00 (m)	23.00	23.00				WRP	
	1472.49	444.95	1175.23	1027.54	4.98	OSF1.50	350.00	350.00	OSF<5.00			Enter Alert	
	1472.49	1482.73	483.37	-10.25	1.49	OSF1.50	850.00	850.00		OSF<1.50		Enter Minor	
	1472.49	2208.98	-0.72	-736.49	1.00	OSF1.50	1200.00	1200.00			OSF<1.00	Enter Major	
	1110.85	10247.65	-5721.47	-9136.80	0.16	OSF1.50	5110.00	5080.41				MinPt-O-ADP	
	1109.88	10246.64	-5721.77	-9136.76	0.16	OSF1.50	5120.00	5090.32				MINPT-O-EOU	
	1106.89	10234.36	-5716.57	-9127.47	0.16	OSF1.50	5160.00	5129.93				MinPt-O-SF	
	4405.40	40404.04	EC00 47	0005.00	0.40	0054.50	5000.00	E400.04				MI-DL CLCL	

3185.23	3193.06	1055.97	-7.83	1.50	OSF1.50	8140.00	8099.92		OSF>1.50	Exit Minor	
5821.95	1748.88	4655.48	4073.07	5.00	OSF1.50	10850.00	10809.92	OSF>5.00		Exit Alert	
7333.06	1153.30	6563.69	6179.77	9.55	OSF1.50	12750.00	12359.94			MinPt-CtCt	
7454.84	2241.70	5959.86	5213.14	4.99	OSF1.50	14090.00	12347.92	OSF<5.00		Enter Alert	
8580.59	5489.68	4920.29	3090.90	2.34	OSF1.50	17203.70	12320.00			MinPts	
Coterra Cascade 28 Federal 413H Rev0 kFc 2	5May23 (Defir	nitivePlan)								Fail Min	nor
20.09	16.29	19.03	3.81	N/A	MAS = 4.96 (m)	0.00	0.00	CtCt<=15m<15.00		Enter Alert	
20.09	16.29	19.02	3.81	4475.27	MAS = 4.96 (m)	23.00	23.00			WRP	
20.09	20.21	6.29	-0.12	1.49	OSF1.50	1340.00	1340.00		OSF<1.50	Enter Minor	
20.09	27.13	1.68	-7.04	1.10	OSF1.50	1800.00	1800.00			MinPt-CtCt	
20.25	27.57	1.53	-7.33	1.09	OSF1.50	1830.00	1830.00			MinPts	
20.37	27.72	1.56	-7.36	1.09	OSF1.50	1840.00	1840.00			MinPt-O-ADP	
30.02	30.68	9.24	-0.66	1.47	OSF1.50	2040.00	2039.72		OSF>1.50	Exit Minor	



Coterra Cascade 28 Federal 403H	Rev0 kFc 25	May23 (Defir	nitivePlan)							War
	39.99	32.21	38.93	7.79	N/A	MAS = 9.82 (m)	0.00	0.00	CtCt<=15m<15.00	Enter Alert
	39.99	32.21	38.93		10986.87	MAS = 9.82 (m)	23.00	23.00	01014-1311413.00	WRP
-				7.79						
L	39.99	32.21	21.68	7.79	2.25	MAS = 9.82 (m)	1790.00	1790.00		MinPts
	40.03	32.21	21.52	7.82	2.23	MAS = 9.82 (m)	1810.00	1810.00		MINPT-O-EOU
	40.31	32.21	21.60	8.10	2.22	MAS = 9.82 (m)	1830.00	1830.00		MinPt-O-SF
_	107.39	33.34	84.84	74.05	4.93	OSF1.50	2250.00	2248.22	OSF>5.00	Exit Alert
	1126.84	175.33	1009.63	951.51	9.69	OSF1.50	12560.00	12332.49		MinPt-CtCt

MINPTS		12320.00	1/203./0	USF1.50	7.07	887.12	966.71	239.75	1126.86
Warning Alert							initivePlan)	iMay23 (Defin	Coterra Cascade 28 Federal 412H Rev0 kFc 25
Surface		0.00	0.00	MAS = 10.00 (m)	N/A	27.18	58.93	32.81	59.99
WRP		23.00	23.00	MAS = 10.00 (m)	15119.69	27.18	58.93	32.81	59.99
Enter Alert	OSF<5.00	1240.00	1240.00	MAS = 10.00 (m)	4.99	27.18	47.19	32.81	59.99
MinPts		1590.00	1590.00	MAS = 10.00 (m)	3.85	27.18	43.68	32.81	59.99
MINPT-O-EOU		1630.00	1630.00	MAS = 10.00 (m)	3.76	27.35	43.46	32.81	60.16
MinPt-O-SF		1700.00	1700.00	MAS = 10.00 (m)	3.70	28.92	44.35	32.81	61.73
Exit Alert	OSF>5.00	2009.81	2010.00	MAS = 10.00 (m)	4.94	63.25	75.84	32.81	96.06

61.73	32.81	44.35	28.92	3.70	MAS = 10.00 (m)	1700.00	1700.00		MinPt-O-SF
96.06	32.81	75.84	63.25	4.94	MAS = 10.00 (m)	2010.00	2009.81	OSF>5.00	Exit Alert
1669.13	176.42	1551.19	1492.71	14.26	OSF1.50	11910.00	11867.90		MINPT-O-EOU
1669.30	176.63	1551.22	1492.67	14.25	OSF1.50	11940.00	11896.74		MinPt-O-ADP
1669.89	176.84	1551.67	1493.05	14.24	OSF1.50	12000.00	11953.27		MinPt-O-SF
1691.30	176.67	1573.20	1514.64	14.43	OSF1.50	12743.50	12360.00		MINPT-O-EOU
1704.44	240.24	1543.95	1464.20	10.68	OSF1.50	17203.70	12320.00		MinPts
	_								
30-025-47178 - GREEN DRAKE 21 FED COM		Warning a							

	17	04.44	240.24	1543.95	1464.20	10.66	O3F 1.50	17203.70	12320.00		WIIIFES
178 - GRI	EEN DRAKE 21 FI	ED COM 7	08H - IFR1	to 19958ft - A	(DefinitiveS	urvey)					Warning Alert
	4	192.66	32.81	490.80	459.86	N/A	MAS = 10.00 (m)	0.00	0.00		Surface
		192.63	32.81	490.75	459.82	36960.29	MAS = 10.00 (m)	23.00	23.00		WRP
	4	75.45	32.81	467.17	442.64	73.86	MAS = 10.00 (m)	720.00	720.00		MinPts
		75.72	32.81	466.88	442.91	67.93	MAS = 10.00 (m)	780.00	780.00		MINPT-O-EOU
	2	254.16	77.42	201.99	176.74	5.00	OSF1.50	4960.00	4931.87	OSF<5.00	Enter Alert
	2	226.50	92.77	164.10	133.73	3.70	OSF1.50	5920.00	5882.54		MinPt-CtCt
	- 2	226.73	93.50	163.85	133.23	3.68	OSF1.50	5970.00	5932.05		MINPT-O-EOU
	2	27.09	93.93	163.92	133,16	3.66	OSF1.50	6000.00	5961.76		MinPt-O-ADP
	2	231.63	116.17	153.62	115.45	3.01	OSF1.50	7620.00	7579.92		MinPt-CtCt
		231.94	117.09	153.32	114.85	2.99	OSF1.50	7690.00	7649.92		MINPT-O-EOU
	2	232.26	117.49	153.38	114.77	2.99	OSF1.50	7720.00	7679.92		MinPt-O-ADP
	1	195.57	171.34	80.83	24.23	1.71	OSF1.50	11470.00	11429.92		MinPt-CtCt

	226.73	93.50	163.85	133.23	3.68	OSF1.50	5970.00	5932.05		MINPT-O-EOU	
_	227.09	93.93	163.92	133,16	3.66	OSF1.50	6000.00	5961.76		MinPt-O-ADP	
	231.63	116.17	153.62	115.45	3.01	OSF1.50	7620.00	7579.92		MinPt-CtCt	
_	231.94	117.09	153,32	114.85	2.99	OSF1.50	7690.00	7649.92		MINPT-O-EOU	
<u>_</u>	232.26	117.49	153.38	114.77	2.99	OSF1.50	7720.00	7679.92		MinPt-O-ADP	
	195.57	171.34	80.83	24.23	1.71	OSF1.50	11470.00	11429.92		MinPt-CtCt	
	196.27	175.17	78.97	21.09	1.68	OSF1.50	11750.00	11709.91		MinPt-CtCt	
-	196.31	175.26	78.96	21.05	1.68	OSF1.50	11760.00	11719.91		MinPts	
	547.81	167.49	435.64	380.32	4.94	OSF1.50	12400.00	12262.98	OSF>5.00	Exit Alert	
	5214.86	181.80	5093.15	5033.06	43.38	OSF1.50	17203.70	12320.00		TD	
										Warning	
30-025-47177 - GREEN DRAKE	0-025-47177 - GREEN DRAKE 21 FED COM 727H - IFR1 to 20107ft - A (DefinitiveSurvey)										

21 FED COM 7	727H - IFR1 t	o 20107ft - A	(DefinitiveS	Survey)				Wai
501.27	32.81	499.40	468.46	N/A	MAS = 10.00 (m)	0.00	0.00	Surface
501.24	32.81	499.37	468.43	114657.95	MAS = 10.00 (m)	23.00	23.00	WRP
494.83	32.81	488.22	462.02	103.85	MAS = 10.00 (m)	560.00	560.00	MinPts
494.95	32.81	488.06	462.14	98.19	MAS = 10.00 (m)	590.00	590.00	MINPT-O-EOU
417.92	44.10	387.96	373.82	14.71	OSF1.50	2920.00	2911.70	MinPt-CtCt
419.58	51.06	384.98	368.52	12.69	OSF1.50	3370.00	3357.33	MINPT-O-EOU
421.13	52.91	385.30	368.22	12.28	OSF1.50	3490.00	3476.16	MinPt-O-ADP
413.05	72.40	364.23	340.65	8.72	OSF1.50	4750.00	4723.91	MinPt-CtCt
413.09	72.55	364.17	340.54	8.71	OSF1.50	4760.00	4733.82	MINPT-O-EOU
413.20	72.69	364.18	340.51	8.69	OSF1.50	4770.00	4743.72	MinPt-O-ADP
416.07	73.58	366.46	342.49	8.64	OSF1.50	4840.00	4813.04	MinPt-O-SF

Offset Trajectory		Separation		Allow	Sep.	Controlling	Reference	Trajectory		Risk Level	_	Alert	Status
	Ct-Ct (ft)	MAS (ft) E0	OU (ft) 466.54	Dev. (ft) 419.26	Fact. 5.93	Rule OSF1.50	MD (ft) 9650.00	TVD (ft) 9609.92	Alert	Minor	Major	MinPt-CtCt	
	559.07 550.57	151.57 166.46	457.47 439.04	407.50 384.11	5.58 5.00	OSF1.50 OSF1.50	10200.00 11210.00	10159.92 11169.92	OSF<5.00			MinPt-CtCt Enter Alert	
	550.01 550.31	167.85 168.95	437.56 437.13	382.16 381.36	4.95 4.92	OSF1.50 OSF1.50	11310.00 11390.00	11269.92 11349.92	001 10.00			MinPt-CtCt MinPts	
	552.13	172.18	436.84	379.95	4.84	OSF1.50	11620.00	11579.92				MINPT-O-EOU	
	553.03 554.14	173.33 173.94	436.96 437.67	379.70 380.20	4.82 4.81	OSF1.50 OSF1.50	11700.00 11770.00	11659.92 11729.89				MinPt-O-ADP MinPt-O-SF	
	582.85 5222.77	176.37 182.70	464.76 5100.46	406.48 5040.07	4.99 43.23	OSF1.50 OSF1.50	12090.00 17203.70	12034.43 12320.00	OSF>5.00			Exit Alert TD	
30-025-46314 - CASCADE 28 F	EDERAL 86H			finitiveSurvey									Warning Alert
	683.96 683.93	32.81 32.81	682.09 682.06	651.15 651.12	N/A 116537.08	MAS = 10.00 (m) MAS = 10.00 (m)	0.00 23.00	0.00 23.00				Surface WRP	
	664.93 665.15	32.81 32.81	651.58 651.35	632.12 632.34	56.76 54.67	MAS = 10.00 (m) MAS = 10.00 (m)	1260.00 1310.00	1260.00 1310.00				MinPts MINPT-O-EOU	
	<b>575.37</b> 575.47	46.74 47.13	543.66 543.50	528.63 528.34	19.09 18.93	OSF1.50 OSF1.50	3180.00 3210.00	3169.17 3198.88				MinPt-CtCt MINPT-O-EOU	
	575.68 575.16	47.39 64.47	543.54 531.62	<b>528.30</b> 510.68	18.83 13.70	OSF1.50 OSF1.50	3230.00 4330.00	3218.69 4308.00				MinPt-O-ADP MinPt-CtCt	
	575.55	65.65	531.23	509.90	13.45	OSF1.50	4410.00	4387.22				MINPT-O-EOU	
	577.00 582.98	67.33 76.47	531.55 531.44	<b>509.66</b> 506.51	13.14 11.66	OSF1.50 OSF1.50	4520.00 5090.00	4496.15 5060.61				MinPt-O-ADP MinPt-CtCt	
	586.35 586.00	83.72 92.72	523.64	502.63 493.28	10.69 9.63	OSF1.50 OSF1.50	5550.00 6100.00	5516.14 6060.83				MINPT-O-EOU MinPt-CtCt	
	586.19 586.43	93.35 93.67	<b>523.40</b> 523.43	492.83 492.77	9.56 9.53	OSF1.50 OSF1.50	6140.00 6160.00	6100.56 6120.44				MINPT-O-EOU MinPt-O-ADP	
	598.14 758.12	97.24 129.08	532.76 671.51	500.90 629.04	9.36 8.91	OSF1.50 OSF1.50	6400.00 8570.00	6359.92 8529.92				MinPt-O-SF MinPt-CtCt	
	758.68 760.47	140.50 145.16	664.46 663.15	618.18 615.32	8.18 7.93	OSF1.50 OSF1.50	9360.00 9680.00	9319.92 9639.92				MinPt-CtCt MINPT-O-EOU	
	761.21 683.36	146.03 178.20	663.30 564.04	615.18 505.15	7.89 5.79	OSF1.50 OSF1.50	9740.00 12440.00	9699.92 12284.08				MinPt-O-ADP MinPts	
	683.57 715.50	178.29 196.77	564.20 583.81	505.28 518.73	<b>5.79</b> 5.49	OSF1.50 OSF1.50	12460.00 14060.00	12293.72 12348.19				MinPt-O-SF MinPt-CtCt	
	715.72 715.90	197.41 197.62	583.60 583.64	518.31 518.28	5.47 5.46	OSF1.50 OSF1.50	14090.00 14100.00	12347.92 12347.83				MINPT-O-EOU MinPt-O-ADP	
	721.32	199.98	587.49	521.34	5.44	OSF1.50	14210.00	12346.85				MinPt-O-SF	
	733.91 734.72	206.97 210.04	595.41 594.18	526.93 524.68	5.35 5.27	OSF1.50 OSF1.50	14440.00 14550.00	12344.79 12343.80				MinPt-CtCt MINPT-O-EOU	
	735.61 730.92	211.15 220.61	594.33 583.33	<b>524.46</b> 510.31	5.25 4.99	OSF1.50 OSF1.50	14590.00 14880.00	12343.44 12340.84	OSF<5.00			MinPt-O-ADP Enter Alert	
	727.11 727.74	233.80 235.71	570.73 570.09	493.30 492.03	4.69 4.65	OSF1.50 OSF1.50	15280.00 15340.00	12337.25 12336.71				MinPt-CtCt MINPT-O-EOU	
	728.26 734.97	236.33 263.52	570.19 558.78	<b>491.93</b> 471.45	4.64 4.20	OSF1.50 OSF1.50	15360.00 16080.00	12336.53 12330.08				MinPt-O-ADP MinPt-CtCt	
	<b>721.86</b> 722.71	284.34 286.97	531.79 530.88	437.52 435.73	3.82 3.79	OSF1.50 OSF1.50	16610.00 16680.00	12325.32 12324.70				MinPt-CtCt MINPT-O-EOU	
	726.11 732.89	292.78 301.54	530.41 531.35	433.33 431.35	3.73 3.66	OSF1.50 OSF1.50	16820.00 17030.00	12323.44 12321.56				MINPT-O-EOU MinPt-O-ADP	
	741.90	308.60	535.66	433.30	3.62	OSF1.50	17203.70	12320.00				MinPt-O-SF	
30-025-29191 - RED HILLS 28	FEDERAL CC 2108.62		o 17555ft 2106.76	- A (Definitive 2075.82	Survey) N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Warning Alert
	2108.62		2106.76 2037.36	2075.82 2002.56	N/A 30.27	MAS = 10.00 (m) OSF1.50	23.00 1800.00	23.00 1800.00				WRP MinPt-CtCt	
	2114.69 2219.91	124.71	2031.00 2055.30	1989.98 1973.83	25.76 13.61	OSF1.50 OSF1.50	2140.00 4220.00	2139.20 4199.06				MINPT-O-EOU MinPt-O-ADP	
	2339.66		1869.98	1635.90 92.46	4.99 1.69	OSF1.50 OSF1.50	11870.00 14330.00	11828.95 12345.77	OSF<5.00			Enter Alert MinPts	
	2450.06 2996.05	737.47	1957.90 2504.07	1712.59 2258.85	4.99 6.11	OSF1.50 OSF1.50	16630.00 17203.70	12325.15	OSF>5.00			Exit Alert	
00 005 47470 ODEEN DDAW						O3F 1.50	17203.70	12320.00				10	Pass
30-025-47176 - GREEN DRAKE	510.91	32.81	509.04	478.10	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	510.87 498.75	32.81 32.81	509.00 488.83	478.07 465.94	68747.39 61.71	MAS = 10.00 (m) MAS = 10.00 (m)	23.00 890.00	23.00 890.00				WRP MINPT-O-EOU	
	497.99 476.39	32.81 32.81	484.60 455.10	465.18 443.58	42.31 24.19	MAS = 10.00 (m) MAS = 10.00 (m)	1260.00 2040.00	1260.00 2039.72				MinPts MinPts	
	476.76 506.52	32.81 49.35	<b>454.77</b> 473.07	443.95 457.17	23.38 15.88	MAS = 10.00 (m) OSF1.50	2110.00 3230.00	2109.40 3218.69				MINPT-O-EOU MinPt-O-ADP	
	633.15 832.79	73.23 103.49	583.78 763.25	559.92 729.30	13.23 12.24	OSF1.50 OSF1.50	4850.00 6930.00	4822.94 6889.92				MinPt-O-SF MINPT-O-EOU	
	837.93 815.14	118.64 148.61	758.28 715.51	719.29 666.53	10.72 8.30	OSF1.50 OSF1.50	7960.00 10000.00	7919.92 9959.92				MinPt-CtCt MinPt-CtCt	
	815.39 817.12	149.41 151.42	715.24 715.62	665.99 665.70	8.26 8.17	OSF1.50 OSF1.50	10060.00 10200.00	10019.92 10159.92				MINPT-O-EOU MinPt-O-ADP	
	812.21 812.37	163.58 164.08	702.61 702.43	648.63 648.29	7.51 7.49	OSF1.50 OSF1.50	11020.00 11060.00	10979.92 11019.92				MinPt-CtCt MINPT-O-EOU	
	812.59 824.90	164.33 173.74	702.48 708.56	648.26 651.16	7.48 7.17	OSF1.50 OSF1.50	11080.00 11740.00	11039.92 11699.92				MinPt-O-ADP MINPT-O-EOU	
	824.96 826.25	173.81 174.27	708.58 709.56	651.15 651.98	7.17 <b>7.16</b>	OSF1.50 OSF1.50	11750.00 11820.00	11709.91 11779.65				MinPt-O-ADP MinPt-O-SF	
	5313.27		5191.38	5131.20	44.13	OSF1.50	17203.70	12320.00				TD	
30-025-46313 - CASCADE 28 F	EDERAL 85H 703.40	I - MWD to 1692 32.81	5ft - A (De 701.54	finitiveSurvey 670.59	) N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	703.37 703.31	32.81 32.81	701.51 700.01		2977743.37	MAS = 10.00 (m) MAS = 10.00 (m)	23.00 230.00	23.00 230.00				WRP MinPts	
	701.31 699.48	32.81 32.81	691.40 687.11	668.50	86.97 65.14	MAS = 10.00 (m) MAS = 10.00 (m)	890.00 1160.00	890.00 1160.00				MINPT-O-EOU MinPts	
	699.75	32.81	686.81	666.67 666.94	61.92	MAS = 10.00 (m)	1220.00	1220.00				MINPT-O-EOU	
	<b>629.20</b> 629.32	44.76 45.13	598.81 598.68	584.44 584.19	21.84 21.66	OSF1.50 OSF1.50	3040.00 3070.00	3030.54 3060.24				MinPt-CtCt MINPT-O-EOU	
	629.43 678.35	45.25 66.62	598.71 633.39	<b>584.18</b> 611.73	21.60 15.63	OSF1.50 OSF1.50	3080.00 4450.00	3070.15 4426.83				MinPt-O-ADP MinPt-CtCt	
	678.79 679.29	67.95 68.54	632,94 633.04	610.84 610.75	15.32 15.20	OSF1.50 OSF1.50	4540.00 4580.00	4515.95 4555.56				MINPT-O-EOU MinPt-O-ADP	
	681.18 681.34	75.45 75.85	630.33 630.22	605.74 605.49	13.81 13.74	OSF1.50 OSF1.50	5010.00 5040.00	4981.38 5011.09				MinPt-CtCt MINPT-O-EOU	
	681.45 746.26	75.98 95.16	630.24 682.26	<b>605.47</b> 651.10	13.72 11.95	OSF1.50 OSF1.50	5050.00 6280.00	5021.00 6240.03				MinPt-O-ADP MinPt-O-SF	
	969.06 1155.88	114.49 161.36	892.18 1047.75	854.58 994.52	<b>12.86</b> 10.84	OSF1.50 OSF1.50	7570.00 10740.00	7529.92 10699.92				MinPt-O-SF MinPt-CtCt	
	1158.13 1159.08	170.87 173.38	1043.67 1042.98	<b>987.27</b> 985.70	10.25 10.10	OSF1.50 OSF1.50	11390.00 11570.00	11349.92 11529.92				MinPts MINPT-O-EOU	
	1160.26 1158.27	175.58	1042.69 1039.84	984.68 981.40	9.99 9.90	OSF1.50 OSF1.50	11725.86 11970.00	11685.78 11925.22				MINPT-O-EOU MinPt-CtCt	
	1158.30 1158.32		1039.82 1039.82	981.34 981.34	9.89 9.89	OSF1.50 OSF1.50	12000.00 12010.00	11953.27 11962.52				MINPT-O-EOU MinPt-O-ADP	
	1144.61 1144.63	179.01	1024.76 1024.74	965.60 965.57	9.66 9.66	OSF1.50 OSF1.50	12520.00 12530.00	12318.91 12322.55				MinPt-CtCt MINPT-O-EOU	
	1144.66 1113.92	179.11 187.52	1024.75 988.40	965.55 926.40	9.66 8.97	OSF1.50 OSF1.50	12540.00 13310.00	12326.03 12354.92				MinPt-O-ADP MinPt-CtCt	
	1114.18 1114.69	188.26 188.87	988.16 988.27	925.92 925.82	8.94 8.91	OSF1.50 OSF1.50	13360.00 13400.00	12354.47 12354.11				MINPT-O-EOU MinPt-O-ADP	
	1120.99 1119.70	211.17 221.01	979.70 971.85	909.82 898.69	8.01 7.64	OSF1.50 OSF1.50	14380.00 14710.00	12345.32				MinPt-CtCt MinPt-CtCt	
	1120.32 1121.31	223.06 224.23	971.10 971.31	897.26 897.08	7.58 7.54	OSF1.50 OSF1.50	14780.00 14820.00	12341.74 12341.38				MINPT-O-EOU MinPt-O-ADP	
	1118.78 1122.28	251.13 258.51	950.85 949.43	867.66 863.77	6.71 6.54	OSF1.50 OSF1.50	15580.00 15780.00	12334.56 12332.77				MinPt-CtCt MINPT-O-EOU	
	1131.16	272.39	949.06	858.77	6.26	OSF1.50	16130.00	12329.63				MINPT-O-EOU	

Offset Trajectory	Trajectory Separation			Allow	Sep.	Controlling	Reference	Trajectory	Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major		
	1130.67	285.47	939.85	845.21	5.97	OSF1.50	16440.00	12326.85				MinPt-CtCt	
	1126.83	315.28	916.14	811.56	5.38	OSF1.50	17130.00	12320.66				MinPt-CtCt	
	1126.66	318.59	913.75	808.06	5.32	OSF1.50	17203.70	12320.00				MinPts	
30-025-32946 - RED HILLS 28	FEDERAL CO	OM 2 - INC Or	nly to 14845ft	- A (Definitive	Survey)								Pass
	3089.00	32.81	3087.14	3056.19	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	3089.00	32.81	3087.12	3056.19	187746.60	MAS = 10.00 (m)	23.00	23.00				WRP	
	3089.00	106.61	3017.37	2982.39	44.13	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	3092.12	115.59		2976.53	40.69	OSF1.50	1940.00	1939.94				MINPT-O-EOU	
	3095.37	119.47	3015.18	2975.91	39.39	OSF1.50	2000.00	1999.84				MinPt-O-ADP	
	3126.68	910.15	2519.41	2216.54	5.16	OSF1.50	13980.00	12348.91				MinPts	
	3126.69	910.15	2519.41	2216.54	5.16	OSF1.50	13990.00	12348.82				MinPt-O-SF	
	4488.93	910.72	3881.27	3578.21	7.40	OSF1.50	17203.70	12320.00				TD	
30-025-35598 - RED HILLS SW	D 1 - INC Or	ly to 6500ft -	SWD (Definiti	iveSurvey)									Pass
	5074.50	32.81	5072.63	5041.69	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	5074.49	32.81	5072.56	5041.68	74279.20	MAS = 10.00 (m)	23.00	23.00				WRP	
	5074.49	93.92	5011.32	4980.57	82.47	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	5077.78	103.78	5008.03	4973.99	74.56	OSF1.50	1970.00	1969.90				MINPT-O-EOU	
	5081.60	108.34	5008.81	4973.25	71.43	OSF1.50	2050.00	2049.68				MinPt-O-ADP	
	5341.11	326.87	5122.64	5014.24	24.63	OSF1.50	4850.00	4822.94				MINPT-O-EOU	
	5371.07	362.99	5128.52	5008.08	22.29	OSF1.50	5160.00	5129.93				MinPt-O-ADP	
	5478.44	464.53	5168.20	5013.91	17.75	OSF1.50	6550.00	6509.92				MinPts	
	5478.63	464.57	5168.36	5014.06	17.75	OSF1.50	6590.00	6549.92				MinPt-O-SF	
	6609.68	262.74	6434.01	6346.95	37.95	OSF1.50	16670.00	12324.79				MinPt-CtCt	
	6609.86	263.30	6433.81	6346.55	37.87	OSF1.50	16720.00	12324.34				MINPT-O-EOU	
	6610.14	263.67	6433.86	6346.48	37.82	OSF1.50	16750.00	12324.07				MinPt-O-ADP	
	6631.05	270.74	6450.04	6360.31	36.94	OSF1.50	17203.70	12320.00				MinPt-O-SF	



# 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 (SO<sub>2</sub>). 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		ONTACT NUM	<b>MBERS</b>	
	_		CALL	911		
Air Ambulance					ı	
	Reeves County Med			432-447-3551		
	ero Care - Midland	,		800-627-2376		
	ri State Care Flight			800-800-0900		
_	ir Methods - Hobbs	, NM		800-242-6199		
Fire / Police / I	Medical Care					
<u>_s</u>	heriff's Office		Fire Departi	<u>ments</u>	Hospital / Medical Care F	acilities acilities
A	Indrews County	432-523-5545	Andrews	432-523-3111	Permian Regional Med.	432-523-2200
R	Reagan County	325-884-2929	Big Lake	325-884-3650	Reagan Memorial Hosp.	325-884-2561
Н	loward County	432-264-2244	Big Springs	432-264-2303	Scenic Mountain Med Ctr	432-263-1211
T	erry County	806-637-2212	Brownfield	806-637-6633		
С	rane County	432-558-3571	Crane	432-558-2361	Crane Memorial Hosp.	432-558-3555
V	al Verde County	830-774-7513	Del Rio	830-774-8648	Val Verde Regional Med.	830-775-8566
			Denver City	806-592-3516	Yoakum County Hospital	806-592-2121
P	ecos County	432-336-3521	Ft Stockton	432-336-8525		
G	Blasscock County	432-354-2361	Garden City			
W	Vinkler County	432-586-3461	Kermit	432-586-2577	Winkler County Memorial	432-586-5864
			McCamey	432-652-8232	McCamey Hospital	432-652-8626
Lo	oving County	432-377-2411	Mentone		, ,	
	rion County	325-835-2551	Mertzon			
W	Vard County	432-943-6703	Monahans	432-943-2211	Ward Memorial Hospital	432-943-2511
E	ctor County	432-335-3050	Odessa	432-335-4650	Odessa Regional Hosp.	432-582-8340
	rocket County	325-392-2661	Ozona	325-392-2626	J I	
	Reeves County	432-445-4901	Pecos	505-757-6511	Reeves County Hospital	432-447-3551
	oakum County	806-456-2377	Plains	806-456-2288	, , , , , , , , , , , , , , , , , , , ,	
	Sarza County	806-495-3595				
	Jpton County	432-693-2422	Rankin			
	Oke County	915-453-2717	RobertLee			
ř	one county	010 100 21 11	Roscoe	325-766-3931		
н	lockley County	806-894-3126		806-894-3155	Covenant Health	806-894-4963
	om Green County	325-655-8111		325-657-4355	San Angelo Comm. Med.	325-949-9511
	Saines County	432-758-9871		432-758-3621	Memorial Hospital	432-758-5811
	errell County	432-345-2525		102 700 0021	momorium roopium	132 733 3311
	curry County	325-573-3551		325-573-3546	DM Cogdell Memorial	325-573-6374
	sterling County	325-373-3331	Sterling City	020 010-0040	5171 Oogacii Welloriai	320-373-0014
	Iolan County	325-376-4771	Sweetwater	325-235-8130	Rolling Plains Memorial	325-235-1701
	Culberson County	432-283-2060	Van Horn	020-200-0100	Culberson Hospital	432-283-2760
New Mexico	alberson county	+32-203-2000	Valificiti		O diberson 1103pilai	+32-203-2700
	ea County	505-396-3611	Knowles	505-302-7460	Lea Reg Med Ctr	575-492-5000
	ddy County	575-887-7551	Carlsbad	575-885-3125	Carlsbad Medical	575-492-3000
	ddy Courity	373-667-7551				575-748-3333
<u>.                                    </u>		F7F 0F0 4/00	Artesia	5/5-/46-5050	Artesia Hospital	3/3-/46-3333
	Roosevelt County	575-356-4408				
	chaves County	575-624-7590				<u> </u>
	Ilance Services					
R	Reeves County Med	lical			Pecos, TX	432-447-3551

# Onshore Order No. 1 Surface Use Plan of Operations

# Cimarex Energy Co. Cascade 28 Federal W2E2 Pad S ½ SW ¼, Section 28, T25S, R33E, NMPM Lea County, New Mexico

Well Name	Surface Hole Locations
Cascade 28 Federal 403H	210' FNL / 2079' FEL
Cascade 28 Federal 404H	210' FNL / 2039' FEL
Cascade 28 Federal 412H	210' FNL / 2099' FEL
Cascade 28 Federal 413H	210' FNL / 2059' FEL

This surface use plan of operations provides site specific information for the above referenced wells located within the proposed "Cascade 28 Federal Project".

# 1. Existing Roads, directions to location: See Exhibit C

- **a. Existing Road Purpose:** Existing roads providing access to the well site are shown. Existing roads will be maintained and kept in good repair during all drilling and completion operations associated with these wells.
- **b. BLM ROW:** No off-lease ROW is required.

# 2. New Roads: See Exhibit D & Access Road Map & R-O-W Plats

# a. Road Construction:

- The proposed access road is approximately 480 feet in length. It will be 30 feet in width, containing a total of approximately 0.33 acres of disturbance on BLM surface. The existing road that runs to the proposed access road may need to be repaired. Graveling or capping the roadbed will be performed as necessary to provide a well-constructed safe road. Should conditions warrant, rock, gravel, or culverts will be installed as needed.
- New access roads on BLM surface will be crowned (2 to 3%), ditched, and constructed with a running surface of 480' and a maximum disturbed width of 30'.
- Surface disturbance and vehicular traffic will be limited to the approved location and access route.

# b. Road Dimensions:

• Total Length: 480'

Construction Width: 30'

Travel Width: 20'Max Slope: 0

• Max Grade: 0

- c. New Road Drainage Crossings:
  - Location and size of culverts and/or low water crossings: Should conditions
    warrant, rock, gravel or culverts will be installed as needed. The operator will
    clean and maintain approved culverts as needed.
  - Drainage Control comments and Ditch Design: All drainage ditches will be kept clear and free-flowing and will be maintained to good standards. All culverts will be kept free of trash, free-flowing, and serviceable. The access road disturbed area will be kept free of trash during operations. All traffic will be confined to the approved road running surface. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause excess siltation or accumulation of debris in the drainage, nor shall the drainage be blocked by the roadbed.
- d. Army Corp of Engineers (ACOE) permit:, N/A
- **e. Road Drainage Control Structures (DCS):** Drainage structures or drainage dips will be placed in all natural drainage ways
- **f. New road access erosion control**: Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Should mud holes develop, the holes shall be filled in and detours around the holes avoided.
- g. Road Plan or Profile prepared: N/A
- h. Engineering Design: N/A
- i. Turnouts: N/A
- **j. Surfacing Material Type:** Should conditions warrant, rock, gravel or culverts will be installed as needed.
- k. Source and storage of Topsoil:
  - Onsite:
    - i. Depth: 4"
    - ii. Removal process: The topsoil shall be stripped and salvaged to provide for sufficient quantities to be respreads to a depth that will be determined at the on-site over the disturbed areas needing reclamation. Topsoil shall be stockpiled separately from subsoil materials.
- **I.** Other: The road surface and shoulders will be kept in safe and usable condition and will be maintained to good standards. When snow is removed from the road during the winter months, the snow should be pushed outside of the borrow ditches, and the turnouts kept clear so that snowmelt will be channeled away from the road.
- 3. Location of Wells: See Exhibit E 1 Mile Radius Map
- 4. Location of Production Facilities: See Exhibit J Location Layout
  - a. Production Facilities:
    - A Satellite pad will be constructed on the southeast corner of the proposed pad.
    - An existing battery pad (South) will be utilized.

- All permanent (on site six months or longer) above the ground structures constructed or installed will be painted Carlsbad Tan as approved by the BLM.
- b. Proposed Pipelines: See Exhibit H SWD Pipeline ROW
  - No SWD pipeline ROW is required. Existing infrastructure will be utilized.
- c. Proposed Power lines: See Powerline ROW
  - **BLM ROW:** New powerline ROW will parallel the bulkline ROW, so only one ROW is needed for the power/bulkline.

# d. Bulklines Pipelines

- Bulkline ROW: Bulkline ROW required, crossing from NMNM026394 to NMNM043562
  - All proposed pipelines will be constructed in a 70' ROW corridor.
    - Bulklines
      - Cimarex Energy plans to construct off-lease bulklines to service the well
      - 8- 12" HP steel for oil, gas, and water production.
      - Length: 6,484'.
      - MAOP: 1,500 psi; Anticipated working pressure: 200-300 psi.
- 5. Location and Types of Water Supply: See Water Haul Map
  - a. Source & Volume:
    - **Source Type:** Commercial Water NGL CTP Treated Produced Water
    - Use: Surface Casing and Intermediate/Production Casing
    - Location: Latitude: 32.3070805, Longitude: -103.6602027, SW/NE, Section 15, T23S, R32E
    - Source Land Ownership: Federal
    - Source Transportation Land Ownership: Federal
    - Permit Type: Water Right
    - Transportation Method: Pipeline/Trucking
    - Volume: 150,000 BBLS

# 6. Construction Materials

- **a. Intended Use of Construction Materials:** The use of materials under BLM jurisdiction will conform with 43 CFR 3610.2-3.
- **b. Proposed Source of Materials:** NM One Call (811), offset operators will be notified before construction starts, if necessary. Top 4" of soil and brush will be stockpiled near the well pad. Top 4" of soil and brush will be piled near the CTB. Caliche will be obtained from the actual well sit if available. If caliche is not available onsite, caliche will be

hauled from an existing caliche pit on private land in SWSE, Section 6, T23S, R32E or SENE, Section 3, T22S, R32E.

# 7. Methods of Handling Waste

- a. Reserve Pits (if necessary): No Reserve Pit Planned
- **b.** Cuttings stored on location: Contents (drill cuttings, mud, salts, and other chemicals) of the mud tanks will be hauled to state approved disposal.
- **c. Garbage:** All trash will be placed in a portable trash cage. It will be hauled to the Lea County landfill. There will be no trash burning.
  - Waste content description: Onsite Refuse/trash
  - Amount: 32,500 pounds
  - Disposal frequency: Weekly
  - Safe Containment description: Garbage, trash, and other waste materials will be
    collected in a portable, self-contained, fully enclosed trash cage during
    operations. Trash will not be burned on location. All debris and other waste
    material not contained in the trash cage will be cleaned up and removed from
    the location immediately after removal of the drilling rig.
  - Waste disposal type: Haul to commercial facility
  - **Disposal location ownership:** Commercial
  - **Disposal location description:** All trash and waste material will be hauled to the Lea County Landfill.
- **d. Sewage:** Human waste will be disposed of in chemical toilets and hauled to the Hobbs wastewater treatment plant.
  - Waste content description: Onsite human waste
  - Amount: 300 gallons
  - **Disposal frequency:** Weekly
  - **Safe Containment description:** A chemical porta-toilet will be furnished with the drilling rig.
  - Waste disposal type: Haul to commercial facility
  - **Disposal location ownership:** Commercial
  - **Disposal location description:** The chemical porta-toilet wastes will be hauled to state approved disposal facility for treatment.

# e. Produced Water:

- Waste content description: After first production, produced water will be confined to storage tanks on location and then disposed of in an approved location or recycled on location for future use.
- Amount: 400 BBLS
- Disposal frequency: Daily
- Safe Containment description: Flowline to an approved disposal location
- Waste disposal type: Off-lease injection
- **Disposal location ownership:** Federal

Disposal location description: Federal

# 8. Ancillary Facilities

No camps, airstrips or other facilities will be necessary during drilling of this well.

# 9. Well Site Layout: See Exhibits J, K, L, Archeological Survey Boundary Plat

**a.** The location showing access roads onto the pad and orientation of the rig with respect to the pad and other facilities are shown on Typical Rig Layout, Exhibit K for each well.

# 10. Plans for Final Surface Reclamation

New Surface Disturbance vs. No New Surface Disturbance

APPROXIMATE SURFACE DISTURBANCE AREAS	DISTANCE (feet)	ACRES
WELL SITE DISTURBANCE	NA	4.24
70' WIDE Bulk Line R-O-W DISTURBANCE	757.80	1.28
30' Wide Road	480	0.33
TOTAL SURFACE USE AREA:	NA	5.52

<sup>\*</sup>The table can be modified as needed to incorporate any/all associated actions

- **a. Interim Reclamation:** Once the last well has been drilled, then the pad will be interim reclaimed to a reduced working surface area. The reclaimed area will be recontoured and reseeded to match preconstruction grades.
- **b. Final Reclamation:** Once the last well is plugged, then the pad, CTB, and new road will be reclaimed within 6 months of plugging. Disturbed areas will be recontoured to match pre- construction grades. Soil and brush will be evenly spread over disturbed areas and harrowed on the contour. Disturbed areas will be seeded in accordance with BLM requirements. Road will be blocked. Noxious weeds will be controlled.

# c. Drainage Systems:

- Drainage/Erosion control construction: Pad construction will include drainage control by rerouting drainages around the pad an installing culverts or low water crossings where needed. Erosion control techniques will be used where needed to minimize wind and water erosion and sedimentation prior to vegetation establishment.
- Drainage/Erosion control reclamation: Area-wide drainage will be stabilized and restored so that surface runoff flows and gradients are returned to the condition present prior to development. Drainage basins will have similar features found in nearby, properly functioning basins.

# d. Existing Vegetation:

• Well/Road/Pipeline/Other (Powerline): Vegetation types noted during onsite were shinnery oak, yucca, mesquite, and big blue stem.

- e. Reconstruction method: Areas to be reclaimed will be graded to approximate original contours and to blend in with adjacent topography. Graded surfaces will be suitable for the replacement of a uniform depth of topsoil, will promote cohesion between subsoil and topsoil layers, will reduce wind erosion, and will facilitate moisture capture. Specialized grading techniques may be applied, if warranted, and could include slope rounding, stair-step grading/terracing, and/or contour furrowing.
- **f. Topsoil redistribution:** After compaction relief (ripping and discing) all topsoil will be redistributed on the reclaimed area to a pre-disturbance depth. Topsoil is typically redistributed with a scraper or front-end loader which leaves a friable surface to work with. Waterbars and erosion control devices will be installed on reclaimed areas, as necessary, to control topsoil erosion.
- g. Soil Treatments: As needed.
- h. Seed Management (for each seed type, or Seed Reclamation Attachment):
  - Seed type: The seed mixture and seeding rates will be submitted to the BLM in a subsequent report sundry notice following reclamation operations. Seed mixtures will be certified weed-free.
  - **Seed use location:** Well pad, access road, pipeline right-of-way, powerline right-of-way
  - PLS pound per acre: TBD
  - Proposed seeding season: Once the topsoil is replaced, seeding will occur generally between August 15 and ground freeze-up. If fall seeding is not feasible and erosion control is needed, seeding may occur between spring thaw and May 15. Spring seeding will be an exception, not the rule. The site will be monitored as outlined in this plan. Seeding will not be applied to wet or frozen ground. In this circumstance, seeding will take place when the ground dries or thaws to the point where soils are friable.
- i. Revegetation Operator Contact:
  - Name:
  - Phone #:
  - Email:
  - **Seed method:** Broadcast over rough surface.
- j. Existing invasive species: Yes
  - Existing invasive species treatment description: African Rue is present in proximity to well pad, access road, pipeline right-of-way, powerline right-of-way.
  - Weed treatment plan: Operator will be responsible for noxious and invasive weed control from all project activities for the life of the project. If use of herbicides is deemed necessary, a Pesticide Use Proposal will be submitted for approval to the BLM. Herbicides will be used only in the season or growth stage during which they are most effective. Herbicides will be applied only by certified personnel using approved precautionary and application procedures in compliance with all applicable federal, state, and local regulations. Herbicides will not be used within 100 feet of open water or during extremely windy conditions. Mowing may be considered as an alternative to herbicide

applications. Mowing would be implemented prior to seed head establishment or bloom. A weed control program will be applied to all existing and proposed access roads, pipeline ROWs, and well pads. Weed control involves annual treatments that are monitored and continued until desirable vegetation outcompetes invasive or noxious weeds.

- Monitoring: Monitoring will be done in accordance with the BLM Reclamation Guidelines.
- **Success standard:** Success Standards will be in accordance with the BLM Reclamation Guidelines.
- k. Pit Closure Description: No pit closure will be necessary. The referenced wells will be drilled utilizing a closed loop system. The closed loop system will be installed in a manner that will prevent leaks, breaks, or discharge. Drill cuttings will be contained in designated cuttings area. Upon completion of drilling operations, the cuttings will be mixed on location and dried; then spread on location.

# 11. Surface Ownership

- Well site
  - a. Surface owner: Bureau of Land Management
  - b. Contact/Office location: Bureau of Land Management
- Roads
  - a. Surface owner: Bureau of Land Management
  - b. Contact/Office location: Bureau of Land Management
- Pipeline
  - a. Surface owner: Bureau of Land Management
  - b. Contact/Office location: Bureau of Land Management
- Utility Lines
  - a. Surface owner: Bureau of Land Management
  - b. Contact/Office location: Bureau of Land Management

\*include surface ownership for all actions associated with the APD

# 12. Additional Information

- **a.** Location Construction: OPERATOR shall notify the BLM AO 48 hours prior to construction of the location and access roads.
- **b.** Location Completion: OPERATOR shall notify the BLM AO prior to moving the drilling rig on location
- **c. Approved APD:** A true and complete copy of the approved Application for Permit to Drill will be located on site during all drilling & completion operations.
- **d. Archeology:** A Class III Archeological Survey (19-0283) has been conducted by Archeologist. A copy of the reports was sent via email to the lead agency BLM Field Office.

# 13. Additional Information

**Onsite Information:** An onsite inspection was conducted for the Pad on 1/18/2018. Weather conditions were warm and sunny at the time of the onsite. In attendance at the inspection were the following individuals:

Attendee	Organization/Affiliate						
Unknown	Cimarex/Coterra						
Jeff Robertson	BLM						
Cimarex Energy personnel on site:	BLM						

# **Permitting Matters**

Operator: Cimarex Energy Co.

Address: 6001 Deuville Blvd., Suite 300N City, State, Zip: Midland, TX 79706

Name: Phillip Levasseur Title: Regulatory Manager Phone: 432-620-1974

Email: <a href="mailto:phillip.levasseur@coterra.com">phillip.levasseur@coterra.com</a>

# **Drilling, Completions Operational Matters**

Operator: Cimarex Energy Co.

Address: 6001 Deuville Blvd., Suite 300N City, State, Zip: Midland, TX 79706

Name: Grant Muncrief

Title: Drilling and Completions Manager

Phone: 432-570-3607

Email: grant.muncrief@coterra.com



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

Well Name: CASCADE 28 FEDERAL

# Drilling Plan Data Report

**Submission Date:** 08/03/2023

**Operator Name: CIMAREX ENERGY COMPANY** 

Well Number: 404H

Well Type: OIL WELL

**APD ID:** 10400093773

Well Work Type: Drill

Highlighted data reflects the most recent changes

**Show Final Text** 

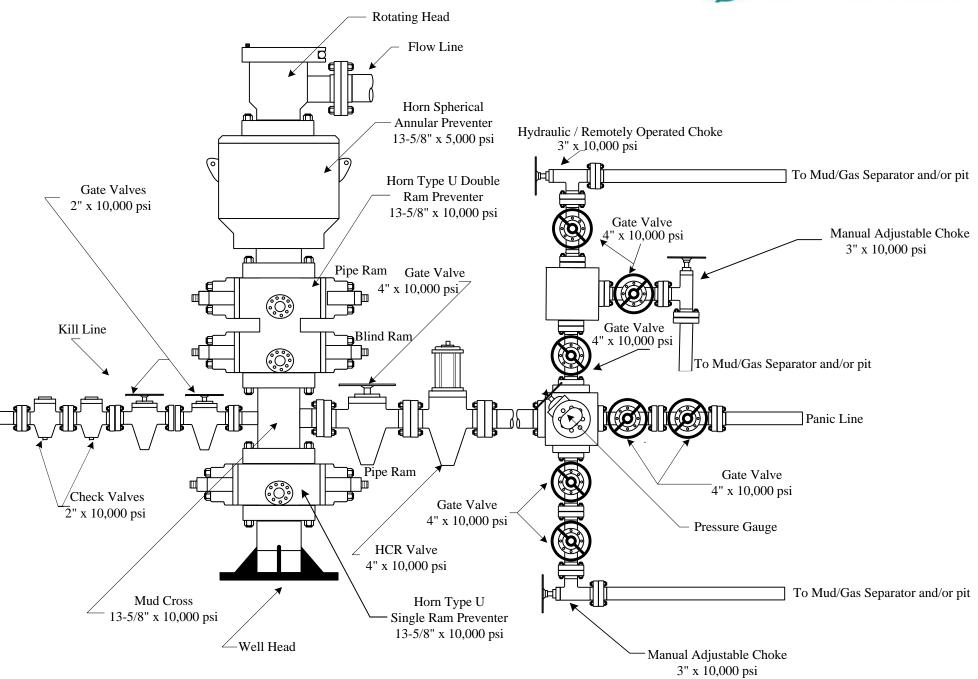
# **Section 1 - Geologic Formations**

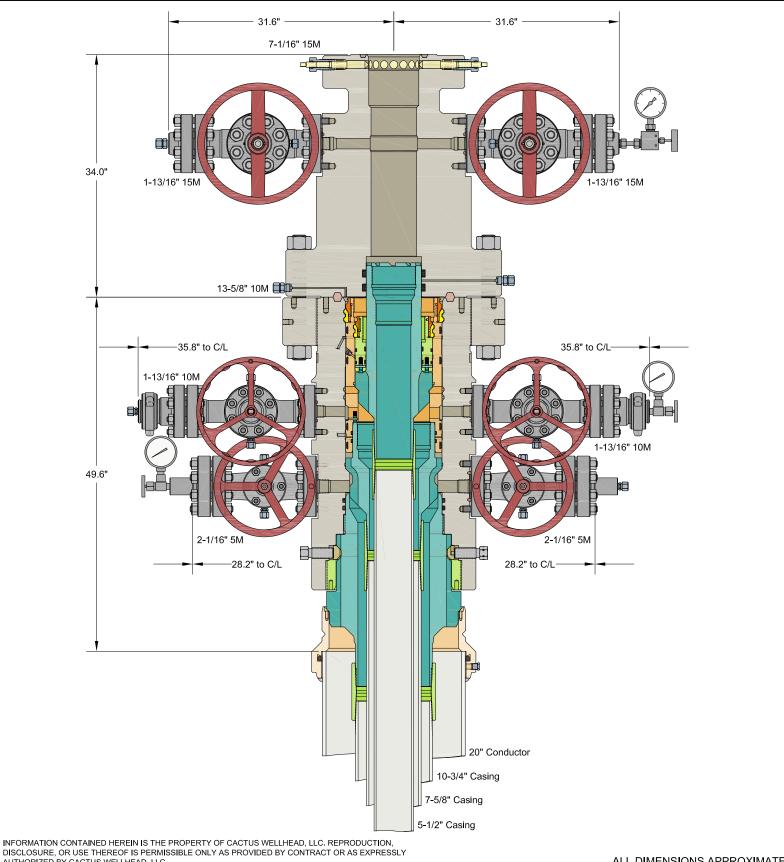
Formation	F N	Ele elle e	True Vertical		120 -12	Mineral Resources	Producing
ID 10000045	Formation Name	Elevation	007	Depth	Lithologies	LIGEARI E VIVIE	Formatio
13238845	RUSTLER	0	995	995	ANHYDRITE, SANDSTONE	USEABLE WATER	N
13238846	TOP SALT	-1340	1340	1340	ANHYDRITE	NONE	N
13238855	LAMAR	-4930	4930	4958	LIMESTONE	NONE	N
13238847	BASE OF SALT	-4930	4930	4958	ANHYDRITE	NONE	N
13238849	BELL CANYON	-4970	4970	4999	SANDSTONE	NONE	N
13238850	CHERRY CANYON	-5985	5985	6020	SANDSTONE	NONE	N
13238851	BRUSHY CANYON	-7575	7575	7610	SANDSTONE	NATURAL GAS, OIL	N
13238840	BRUSHY CANYON LOWER	-8920	8920	8955	SANDSTONE	NATURAL GAS	N
13238852	BONE SPRING	-9090	9090	9125	LIMESTONE	NATURAL GAS, OIL	N
13238853	UPPER AVALON SHALE	-9330	9330	9364	SHALE	NATURAL GAS, OIL	N
13238841	BONE SPRING 1ST	-10105	10105	10139	SANDSTONE	NATURAL GAS	N
13238842	BONE SPRING 2ND	-10685	10685	10719	SANDSTONE	NATURAL GAS	N
13238843	BONE SPRING 3RD	-11120	11120	11154	OTHER : Carbonate	NATURAL GAS	N
13238844	BONE SPRING 3RD	-11785	11785	11820	SANDSTONE	NATURAL GAS	N
13238854	WOLFCAMP	-12200	12200	17197	SHALE	NATURAL GAS, OIL	Y

# **Section 2 - Blowout Prevention**

Received by OCD: 5/7/2024 2:16:02 PM



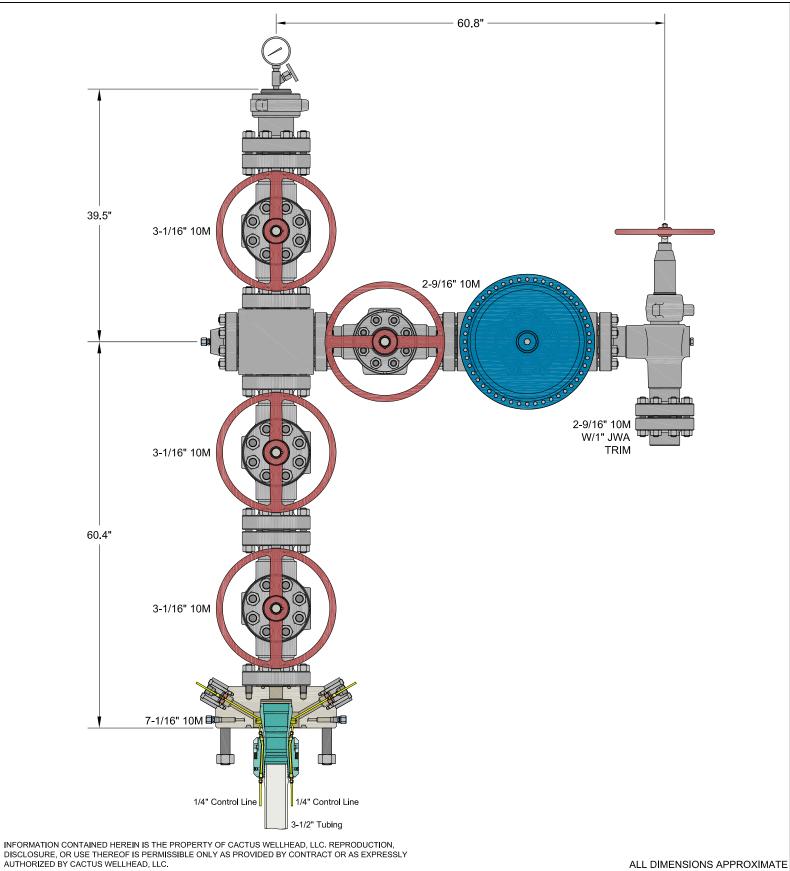




INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY AUTHORIZED BY CACTUS WELLHEAD, LLC.

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

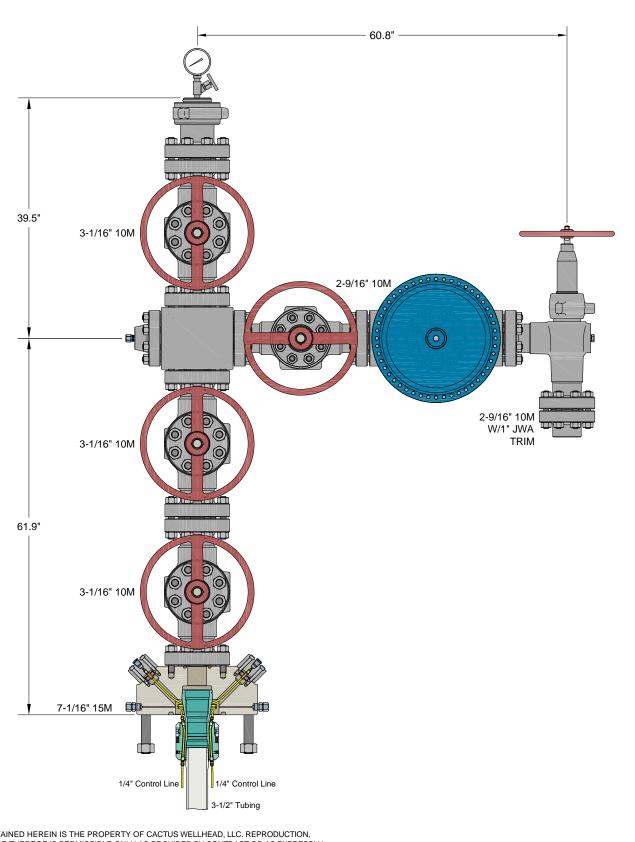


**CIMAREX** 

CACTUS WELLHEAD LLC
7-1/16" 10M x 3-1/16" x 2-9/16" 10M Production Tree Assembly With 7-1/16" 10M x 3-1/16" 10M T40-CCL Tubing Head Adapter
And 7-1/16" 3-1/2" T40-CCL Tubing Hanger

	HOBBS, NIVI	
DRAWN	VJK	05SEP23
APPRV		

HBE0001018 DRAWING NO.



INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY AUTHORIZED BY CACTUS WELLHEAD, LLC.

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
•			
With 7-1/16" 15M x 3-1/16" 10M T40-CCL Tubing Head Adapter	DRAWING NO	LIDEOGO	1010
And 7-1/16" 3-1/2" T40-CCL Tubing Hanger		D. HBE000	1018



Quotation

Hobbs, NM 4120 W Carlsbad Hwy Hobbs NM 88240 Phone: 817-682-8336 Quote Number: HBE0001018

Date: 09/08/2023

Valid For 30 Days

Page 1 of 5

**Bill To:** 7050 **Ship To:** 1016

CIMAREX ATTN: DAVID SHAW 202 S CHEYENNE AVENUE SUITE 1000 TULSA OK 74103 US 2023 PRICING REVIEW 202 S Cheyenne Ave Ste 1000 Tulsa OK 74103-3001 US

Quantity Price Ext Price

**CIMAREX** 

HOBBS, NM

PRODUCTION TREE ASSEMBLY 7-1/16" 10M X 3-1/16" 10M X 2-9/16" 10M OPTIONAL 15M ADAPTER

### QUOTATION SUMMARY:

PRODUCTION TREE ASSEMBLY - \$49,338.02

CACTUS CONTACT:

RILEY STAFFORD / MIKE SPINKS

OFFICE: 405.708.7217 (RILEY) / 713.396.5762 (MIKE) MOBILE: 405.445.2222 (RILEY) / 832.691.7724 (MIKE)

EMAIL: riley.stafford@cactuswellhead.com / mike.spinks@cactuswellhead.com

DUE TO VOLATILITY IN THE STEEL MARKET, PRICING FOR ITEMS MADE FROM NICKEL ALLOYS (EX. 410SS, 17-4PHSS, INCONEL, ETC.) WILL BE VALID FOR TWO WEEKS. CW WILL REVIEW AND ADJUST, IF NECESSARY, AT ORDER PLACEMENT.

PREMIUM THREADED CASING HANGERS/RUNNING TOOLS & CUSTOMER SPECIFIC EQUIPMENT ARE NON-CANCELABLE AND MAY REQUIRE A PURCHASE ORDER (PO) PRIOR TO MANUFACTURING.

SUPPLY CHAIN PRICING IS BASED UPON A 135 DAY DELIVERY ARO. EXPEDITED PRICING CAN BE PROVIDED UPON REQUEST. PRICES ARE F.O.B. CACTUS BOSSIER CITY, LA. THE FOLLOWING QUOTATION DOES NOT INCLUDE APPLICABLE MILEAGE AND SERVICE CHARGES THAT MAY BE CHARGED AT TIME OF INVOICING.

Gates Engineering & Services UK Ltd		
Doc. Ref.	Form-056	
Revision	4	

### **CERTIFICATE OF CONFORMITY**



Gates SO No. 31675	Customer Name & Address:		
Cates 00 110: 01070	☐ Gates Engineering & Services North America		
Clients PO No: 1714987/ 0	7603, Prairie Oak Drive		
	─ Suite 190		
Description: 3" Choke & Kill Hose x 35ft	Houston, TX 77086		
Boothphom o oneko a kiii Hooc x ook	United States		

This is to certify that the components listed below have been supplied in accordance API 16C & with the referenced order number above. The assemblies listed below have been manufactured and tested in the UK

**SPECIFICATION** 

### **ITEM DESCRIPTION Drawing Num** QTY 3" Choke & Kill Hose x 35ft complete with 4.1/16" API 6A 10K Fixed Flange 31675-DW-001, 2 with BX155 Inlaid Ring Groove on one end & 4.1/16" API 6A 10K Swivel 1 Rev 0 Flange with BX155 Inlaid Ring Groove On the other end Hose Batch: 120839 Hose Assembly: 120840 Customer Tag: N/A Working Pressure: 10000 PSI Test Pressure: 15000 PSI Standard: API 16C PSL: FSL 3 Material Grade: F Temperature Rating: -25 to +100 Deg C

Accepted by SA Tait 17/02/2

. for and on behalf of Gates Engineering & Services UK Ltd

Gates Engineering & Services UK Ltd			
Doc. Ref. Form-051			
Revision 9			

### PRESSURE TEST CERTIFICATE



			Certificate No:
□ BURST	<b>▼</b> HYDROSTATIC	CYCLIC	31675-002

Product:	3" Choke & Kill Hose	Hose WO/Batch:	120839
Assembly WO:	120840	Length:	35Ft
SO No:	31675	Date:	11/02/20
Client:	Gates Engineering & Services North America	Client Reference:	1714987/ 0

Inner Diameter:	3	Inch		
Working Pressure:	10000	Psi	690	bar
Test Pressure:	15000	Psi	1034	bar
Burst Pressure:	22500	Psi	1551	bar

Hose	Descriptio	n: with BX155 Inlaid Ring Groove	ete with 4.1/16" API 6A 10K Fixed Flange on one end & 4.1/16" API 6A 10K Swivel d Ring Groove On the other end
Item No	Qty	Part Code	Customer Tag No (if applicable)
2	1	HA31623-001	N/A

Details of Test:	Pressure tested with water at ambient temperature for 60 minutes at test pressure 1034 BAR,  Chart recording done with Yokagawa Data Logger S/N: S5NC08915  Transducer ESI GS4200EX3000DE ID:TD/DC-002, S/N: 2018-741502  Calibration Certificate No: IKMCERTL9111
Results:	Pressure Loss: 11.4 Bar Acceptance Criteria: Pressure loss not to exceed - 34.47 Bar or 500 PSI

GESUK Ltd	Third Party
17/02/20	

11/02/2020 20:25:00.000

RMS

1055.1

Mean

1055.0

Received by OCD: 5/7/2024 2:16:02 PM

: S5NC08915

Print Groups : GROUP 1

Print Range : 11/02/2020 18:06:20.000 - 11/02/2020 21:08:10.000

Comment : Factory Acceptance Test

		Cursor A	Cursor B	Difference
Data No.		472	832	360
Absolute Time		11/02/2020 19:25:00.000	11/02/2020 20:25:00.000	01:00:00.000
Channel		Value A	Value B	Value B-A
CH001	Max	1061.9	1050.9	-11.0
[BAR]	Min	1061.7	1050.5	-11.2

Start Time	: 11/02/2020 18:06:20.000
Stop Time	: 11/02/2020 21:08:10.000

Section

Channel

CH001[BAR]

472

832

1050.5

MAX

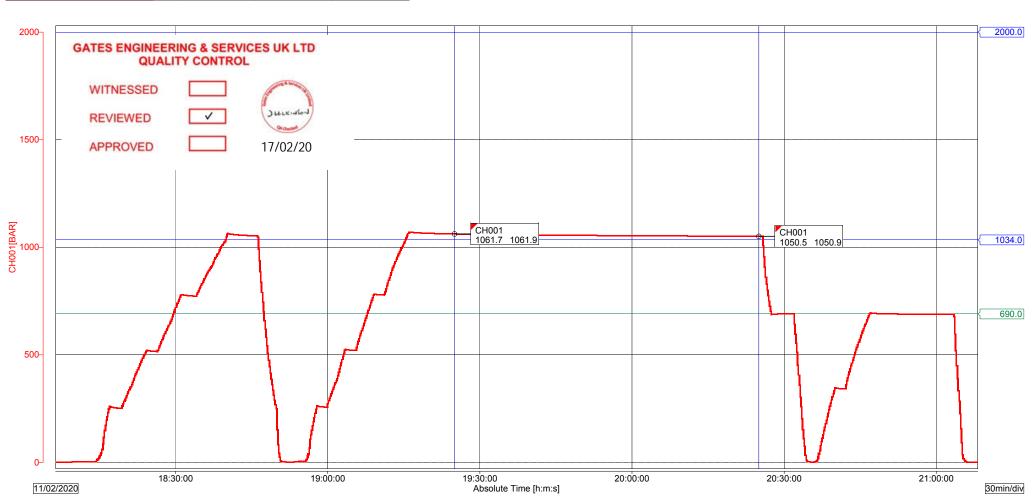
1061.9

MIN

11/02/2020 19:25:00.000

P-P

11.4



# IN ACCORDANCE WITH LIFTING OPERATIONS AND LIFTING EQUIPMENT REGULATIONS 1998

## ALL ITEMS ON THIS REPORT ARE SAFE TO USE

NAME & ADDRESS OF COMPANY FOR	NAME & ADDRESS OF COMPANY FOR WHOM THE EXAMINATION WAS MADE	ADDRESS OF THE PREMISES WHERE THE EXAMINATION WAS MADE	THE EXAMINATION	WAS MADE	DATE OF REPORT	08/01/2020	0
Gates Engineering & Services UK Ltd Bassington Drive	s UK Ltd	Tusk Lifting Ltd 49D Sadler Forster Way			REPORT NO	13322	
Bassington Industrial Estate Cramlington		Teesside Industrial Estate Stockton-On-Tees			CUSTOMER REFERENCE	ICE 052628	
NE23 8AS		S1/ 9JY			CONTRACT NO.	0000059501	1
40.	DESCRIPTION OF EQUIPMENT INCLUDING MANUFACTURER AND DATE OF MANUFACTURE	ACTURER AND DATE OF MANUFACTURE	SWL / WLL	EWL	EXAM REASON (SEE BELOW)	TEST APPLIED	LATEST DATE OF NEXT THOROUGH EXAMINATION
Seusian Sanivarian San	50.00 643615/1 - 643615/50 10mm x 6ft HCP Coated Chain Sling  C/w 4.75t Safety Pin Bow Shackle each end  Solving  C/w 4.75t Safety Pin Bow Shackle each end  C/w 4.75t Safety Pin Bow Shackle each end  Solving  S	I WITHIN 6 MONTHS; <b>C</b> - WITHIN 12 MG	4 TONNE	6 FT N SCHEME; <b>E</b> - I	4 TONNE 6 FT B VISUAL  C - WITHIN 12 MONTHS; <b>D</b> - WRITTEN SCHEME; <b>E</b> - EXCEPTIONAL CIRCUMSTANCES.	VISUAL	08/07/2020
SNAME AND QUALIFICATION OF PERSON MAKING THE REPORT	ERSON MAKING THE REPORT	NAME OF THE PERSON AUTHENTICATING THE REPORT	HENTICATING THE	REPORT			
उ Jimmy Joyce, Company Approved Examiner	ed Examiner	Julie Montgomery, Planner	_				

Jimmy Joyce, Company Approved Examiner

SIGNATURE

SIGNATURE

DATE OF THOROUGH EXAMINATION 08/01/2020

THE ORIGINAL MANUFACTURERS EC DECLARATION OF CONFORMITY IS HELD ON FILE AT OUR PREMISES AND IS AVAILABLE UPON REQUEST OPERATING INSTRUCTIONS CAN BE FOUND ON OUR WEBSITE, HTTP://www.TUSKLIFTING.CO.UK

Tusk Lifting Ltd.

49D Sadler Forster Way. Teesside Industrial Estate. Stockton On Tees. TS17 9JY

E. teesside@tusklifting.co.uk W. tusklifting.co.uk T. 01642 915330

VAT. GB258876247 **REG.** 10497383





IMB52628

LEEA

Full Member

Villiam Hackett

Lifting Products Limited

















### LEEA Full Member

### DUAL PURPOSE DOCUMENT **EC DECLARATION OF** CONFORMITY

4

I DECLARE THAT THE ITEMS DESCRIBED ON THIS DOCUMENT COMPLY WITH THE REQUIREMENTS OF THE MACHINERY DIRECTIVE 2006/42/EC

DECLARATION

	뿌
ш	片
F	F
A	F)
5	A
	田
H	B
RTIFICAT	10
CEI	۵
C	11:
	CERTIFIED ON BEHALF OF THE
	R
	S

MANUFACTURER'S

COMPANY

8

PRODUCTS REQUIRING A DECLARATION OF CONFORMITY

Date Received: 17/12/2019

Certificate Number: L072222 Supplied To: TUS002

Customer Order No: 7557

(STOCK)

TUSK LIFTING LTD

**Delivery Address** 

TEESIDE INDUSTRIAL ESTATE

STOCKTON ON TEES

TS17 9JY

49D SADLER FORSTER WAY

THOSE REQUIRING JUST A MANUFACTURER'S

CERTIFICATE BY (B)

ARE INDICATED BY (A)

7	
	S
	S
	Щ
	9
	4
	2
	-
	-

12/2019

•	
٣	-
U	ŋ
ú	ņ
ď	5

17/
SS

king

	Min Breaki Load	
nWick, UK	Proof Load	
rting Products, Al	Working Load Limit	4t
m Hackett LI	Qty	50
Authorised person for the configuration of the declaration documents: Tim Burgess, William Hackett Litting Products, Ainwick, UK	Description	643615/1-50 HNZZZ.100.TUSK 10mm grade 10 chain sling assembly. Comprising of: 1 x 4.75t Safety Bow Shackle, 1 x 10mm connector, 10mm grade 10 chain, 1 x 10mm connector and 1 x 4.75t Safety Bow Shackle.
son for the config	Product	HNZZZ.100.TUSK
Authorised pen	Lot No / Serial No	643615/1-50
	Batch	P02637

Email: info@williamhackett.co.uk OAK DRIVE, LIONHEART ENTERPRISE PARK, ALNWICK, NORTHUMBERLAND NE66 2EU Tel. + 44 (0) 1655 604200 Fax. + 44 (0) 1665 604204

VAT Reg. No. 217 3508 23 Website: www.williamhackett.co.uk Co. Registration No. 09679580

Page 1 of 1

Released to Imaging: 5/9/2024 10:18:51 AM

IMB52628

Report Version 2-5

A/B Ø







### 3.1 Material Certificate

DATE: 18.12.2019	PURCHASE ORDER NO. 7557

CUSTOMER	TUSK LIFTING LIMITED
ADDRESS	49D SADLER FORSTER WAY TEESIDE IND EST STOCKTON ON TEES TS17 9JY

PRODUCT CODE: ASV.100.5 Marking: 1235

DESCRIPTION: 10MM GRADE 10 LIFTING CHAIN – Q61076

### **Chemical Composition –**

	%
С	0,215
Si	0,216
Mn	1,222
Р	0,0076
S	0,0071
Ni	0,947
Cr	0,554
Cu	-
Mo	0,595
AL	0,0337

Trading & Registered Office: Oak Drive, Lionheart Enterprise Park, Alnwick, Northumberland NE66 2EU

Tel: +44 (0) 1665 604200 Website: www.williamhackett.co.uk

Received by OCD: 5/7/2024 2:16:02 PM

Fax: +44 (0) 1665 604204 CRN: 09679580

Email: info@williamhackett.co.uk VAT Registration No. 217 3508 23

Safety is our first priority

### YOKE INDUSTRIAL CORP.

#39,33<sup>rd</sup> Road, Taichung Industrial Park, TAICHUNG 407, TAIWAN TEL:+886-4-2350 8088

Test Certificate

Oak Drave, OKE YOKE YOKE Lionheart Enterprise Park, Alnwick, Northumberland, NE66 2EU United Kingdom Tel: 44-1665604200

G100, Connecting Link, 10mm, 3/8" Batch No . YUA Quantity : 1,800

Y KE TO CHE TON	STOKS1 YOKE	OKE MINKE YO	ENYOPENYORE	WOKES OKES	OKEEYCKEGYO	Eevokmo Vokes	OKENNKENYO	EAYORE POKES
0.18~0.30	0.15~0.40	0.70~1.30	<0.035	EeYOKEeYOKE	0.40~1.10	0.15~0.40	0.40~1.00	weeyoyneyotd otoothersyos

Mini. Breaking Magnetic Flux

34 54	Proof Load Test	«AORE» ADKE» AORE»
The State of the S	Fatigue Rate	NEPACKEPACKEPACKEPACKEPACKEPACKEPACKEPACK
A 100 A 100 A	[	YOKE &YOKE &

YOKE INDUSTRIAL CORP

### YOKE INDUSTRIAL CORP.

#39,33rd Road, Taichung Industrial Park, TAICHUNG 407, TAIWAN TEL:+886-4-2350 8088 FAX:+886-4-2350 1001

### Test Certificate

Oak Drive, KENYOKENYOKENY Lionheart Enterprise Park, Alnwick, Northumberland, NE66 2EU United Kingdom Te1: 44-1665604200 ITEM: DA-808-19

DA Bolt Pin Anchor Shackle, 3/4 (Your PO no. 601644) Batch No : AAA/AA

THE REAL PROPERTY OF STREET	是不是我们在学行社(1)	正好的任何正包的证据主动	当に任命の方法のは、これの法	性。但可以可能是可以使用的 (1)	20%是在10%是在10%是	是在国际的时间。2000年1	是是否可能是"一个的基本的是一个对象的	经过多数价格的证据结合的图
YOKEWYOKEWY	KE#YOKE WYOK	*YOKE YOKE &	OKENYOKENYO	ENTOKENTOKE	YOKENYOKENY	SKEWYOKE WYOKI	WYOKEW WORLD	ти у Режиний и городи
WYOKE WYOKE W	OKE # YOKE # YO	CESYOKES YOKE	DYOKEDYOKEWS	OKE#AOKE#AO!	它需定仍然已多人OXE?	FOKEWYOKEWYO	《任命人母似任命人母认生》	A OME A A ONE WAS
E0738~0743	·0.15~0.35Y	0.60~1.00	< 0.035	10140×0×040	0.90~1.00	0.15~0.30	KE <0.1% IN	YOKE #YOKE #YO
い言語していては、したいだ	程于16次次后指示为66%应服。	LOUGH BY LOUGH WITH IT	4日間子切り口張さい6月日	<b>EXAUST AND 311</b>	<b>建筑层层中型内积原引度开关</b>	监理 SSAN 东南 TALY 的原理 F	MARKET STATE OF THE STATE OF T	<b>三等八分配的统计划形面积</b>

Mini, Breaking Load Che Vokes Magnetic Flux Crack Tested: Working Load

TO BE LANGUE SEE STREET AND SEE SEE STREET	E®AGKE®AGKE®AGKE®AGKE®ACKE®AGKE®A ®AGKE®AGKE®AGKE®AGKE®AGKE®AGKE®AGKE®AGKE
20000	JESYDES SYOKESYOKESYOKESYOKESYOKESYOKESYOKESYOKE
Impact Testyoke	E-YOKE-FYSKE-FYSKE-YOKE-FYSKE-
ESSEKES ADKESADKES ADK SADKES ADKESADKESADKE AVMESA DKESA AVESSESKES	E#AOKE#AOKE#AOKE#AOKE#AOKE#AOKE#AO #AGKE#AOKE#AOKE#AOKE#AOKE#AOK MAKE#AOKE#AOKE#AOKE#AOKE#AOKE#AOK MAKE#AOKE#AOKE#AOKE#AOKE#AOKE#AOKE#AOKE#A

TESTING ACCORDING TO EN 13889 RR-C-271F DNVGL-ST-E273 EN 12079-2 IMO/MSC Circular 860 ISO 9001:2015 Certification by DNVGL and API Inspection Test Certificate meet the EN 10204 3.1 These shackle have been designed, approved and tested in accordance with DNVGL-ST-E271 Offshore Containers.

YOKE INDUSTRIAL CORP



## REPORT OF THOROUGH EXAMINATION OF LIFTING EQUIPMENT

# IN ACCORDANCE WITH LIFTING OPERATIONS AND LIFTING EQUIPMENT REGULATIONS 1998

## **ALL ITEMS ON THIS REPORT ARE SAFE TO USE**

	20.00	30.00	γTQ	NE23 8AS		Cram	Bassir	Bassir	Gates	NAME &
	IML52690/01 - IML52690/20	IMK52690/01 - IMK52690/30	ID NO.	8AS		Cramlington	Bassington Industrial Estate	Bassington Drive	Gates Engineering & Services UK Ltd	ADDRESS OF COMPANY
	3.6T Safety Clamp CS Galv - 195MM Material CERT : GI9268	3.6T Safety Clamp CS Galv - 195MM Material CERT : GI9268	DESCRIPTION OF EQUIPMENT INCLUDING MANUFACTURER AND DATE OF MANUFACTURE				ıte		ices UK Ltd	NAME & ADDRESS OF COMPANY FOR WHOM THE EXAMINATION WAS MADE
			ACTURER AND DATE OF MANUFACTURE		TS17 9JY	Stockton-On-Tees	Teesside Industrial Estate	49D Sadler Forster Way	Tusk Lifting Ltd	ADDRESS OF THE PREMISES WHERE THE EXAMINATION WAS MADE
	3.6 TONNE	3.6 TONNE	SWL / WLL							E THE EXAMINATION V
	t		EWL							VAS MADE
	B	В	EXAM REASON (SEE BELOW)	CONTRACT NO.		CUSTOMER REFERENCE		REPORT NO		DATE OF REPORT
	PROOF LOAD	PROOF LOAD	TEST APPLIED	0000059627		NCE 052690		13586		21/01/2020
imi	21/07/2020	21/07/2020	LATEST DATE OF NEXT THOROUGH EXAMINATION	27	nv					0

REASON FOR EXAMINATION: A - NEW INSTALLATION OR NEW LOCATION; B - WITHIN 6 MONTHS; C - WITHIN 12 MONTHS; D - WRITTEN SCHEME; E - EXCEPTIONAL CIRCUMSTANCES

NAME OF THE PERSON AUTHENTICATING THE REPORT

Julie Montgomery, Planner

MAME AND QUALIFICATION OF PERSON MAKING THE REPORT

Wimmy Joyce, Company Approved Examiner

SIGNATURE

SIGNATURE

REPRIME INSTRUCTIONS CAN BE FOUND ON OUR WEBSITE, HTTP://WWW.TUSKLIFTING.CO.UK

DATE OF THOROUGH EXAMINATION

21/01/2020

THE ORIGINAL MANUFACTURERS EC DECLARATION OF CONFORMITY IS HELD ON FILE AT OUR PREMISES AND IS AVAILABLE UPON REQUEST

Pusk Lifting Ltd.

9D Sadler Forster Way. Teesside Industrial Estate.

Received by 190 Sadler Forster Way. Teesside Industrial Estate. E. teesside@tusklifting.co.uk T. 01642 915330 REG. 10497383

W. tusklifting.co.uk

VAT. GB258876247





Page 1 of 1

Steel making

ssabodd

Electric arc

Cardiff,

20.08.2019

Stuart Thomas Quality-Manager

The materials has been evaluated and radiation is within national limits product suitable for galvanizing 0.14<=51<=0.2516 pc=0.035)

92

CELSA STEEL UK
OFFICES: Build. 58, Castle Works, East Moors Road
STAN Cardiff (United Kingdom)

MANUFACTURING UK

### UK MADE

Hot rolled structural steel products Cert No: 0038/CPR/LRQ4002811/1 DOP: CELSAUK001

Customer: CARTER STEEL LTD YARM ROAD, STOCKTON

Standard BS-EN 10025-2004

Hot rolled structural steel products

S275 JR+AR FL130X10 L.6m

CM124288 0.10 CM124288

> 0.53 0.53

0.14 0.14

0.026

0.026

0.020 0.020

0.117

0.117

0.010 0.010 40

0.026

0.020

0.117

0.117

0.010

0.53

0.14 0.14

0.026

0.16

0.035

0.022 0.020

0.124

0.009

0.10

40

CM124288 0.10 CM124288 0.10

S275 JR+AR FL130X10 L.6m S275 JR+AR FL130X10 L.6m

S275 JR+AR

FL130X10 L.6m

S275 JR+AR FL130X12 L.6m S275 JR+AR FL130X12 L.6m

> CM124207 0.10 CM124207

0.56 0.56 0.53

0.16

0.035

0.022

0.124 0.009

0.10

CM127200 0.10

0.54 0.54

0.15 0.15

0.023

0.018 0.018

> 0.086 0.086

0.010 0.008

0.010

0.023

0.15

0.023

0.019

0.105

CM127200

0.10

CM127310 0.11 CM127310 0.11

0.15 0.15

CM124647 0.08 CM127310 0.11

> 0.53 0.57 0.57 0.57

0.14

0.023 0.023 0.023

0.020

0.097

0.019

0.105

0.008

0.019

0.105

0.008

0.53 0.53

0.14

0.020

0.097

0.012 0.012

0.14

0.023 0.023

0.020

0.097

0.012 0.012

0.020

0.097

CM124647 0.08

CM124647 0.08

CM124647 -0-08 - 0-53 - - 0-14 - - 0-023

JR+AR FL150X12 L.6m

S275 JR+AR FL150X12 L.6m

S275 JR+AR FL150X6 L.6m S275 JR+AR FL150X6 L.6m

S275 JR+AR FL150X6 L.6m

JR+AR FL50X15 L.6m

S275 JR+AR FL50X15 L.6m

S275 JR+AR FL50X15 L.6m

JR+AR FL50X15-01-6m

MATERIAL

CAST

C

MZ

SI

S

ы

G

z

N.

TS18 3SA STOCKTON United Kingdom

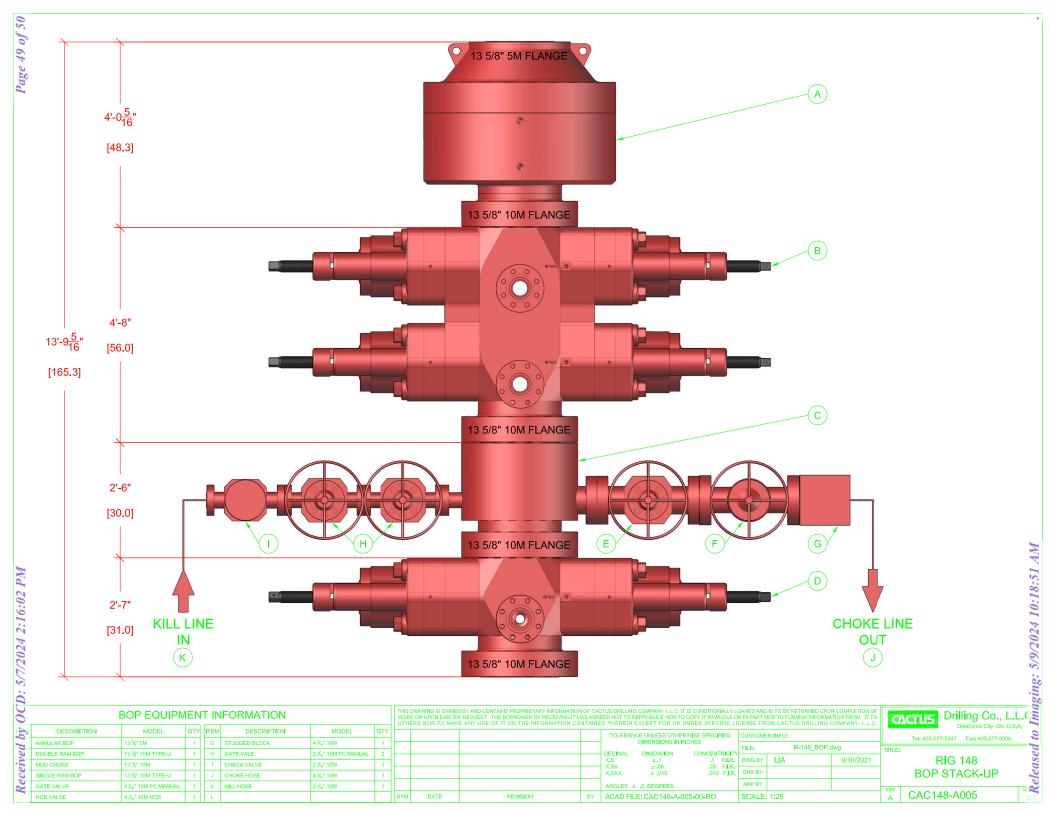
> Destination: YARM ROAD, STOCKTON CARTER STEEL LTD United Kingdom TS18 3SA STOCKTON

Certified that the material detailed hereon meets the requirements of the specified standard. 0.010 | 0.14 0.14 0.14 0.14 0.14 0.10 0.10 0.10 0.11 0.14 0.11 0.20 0.20 0.20 0.20 Cu 0.55 0.55 0.55 0.44 0.47 0.55 0.47 0.40 0.40 0.44 0.52 0.40 0.52 0.52 0.52 Mo 0.021 0.021 0.021 0.021 0.021 0.021 0.021 0.015 0.021 0.014 0.014 0.021 0.015 0.015 0.021 < 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.002 0.001 0.001 0.001 0.001 0.001 CE 0.260 0.260 0.260 0.259 0.260 0.259 0.260 0.260 0.250 0.250 0.244 0.244 0.260 0.244 0.244 Reh 329 325 323 317 328 308 313 323 298 320 319 MPA 326 329 318 322 Rm 467 464 465 465 451 452 448 457 459 462 450 448 448 447 MPA

Your order Order number Delivery number: 2550169238 :15705941 :11049

DATE 35.3 CHECKED BY 35.2 34.8 35.2 33.8 33.8 32.5 37.6 32.0 32.5 ARI 33.8 33.2 37.5 5.65 33.9 21.8.2019 н c 贝 Impact 4 Pe STEEL Impact ORDER No. ч 11049 Impact J Impact Avg. True

Engineering & Services Released to Imaging: 5/9/2024 10:18:51 AM



District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 341640

### **CONDITIONS**

Operator:	OGRID:
CIMAREX ENERGY CO.	215099
6001 Deauville Blvd	Action Number:
Midland, TX 79706	341640
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

### CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	5/9/2024
pkautz	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	5/9/2024
pkautz	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	5/9/2024
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	5/9/2024
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	5/9/2024