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

Sundry Print Report 02/12/2025

Well Name: ROYAL OAK 25 FED COM Well Location: T18S / R33E / SEC 25 /

NWNW / 32.7250468 / -103.6208995

County or Parish/State: LEA /

NIV

Well Number: 501H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM0245247

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002552844

Operator: AVANT OPERATING LLC

Notice of Intent

Sundry ID: 2835948

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 02/07/2025

Time Sundry Submitted: 10:36

Date proposed operation will begin: 02/20/2025

Procedure Description: Avant Operating, LLC would like to request to change the SHL for the Royal Oak 25 Fed Com 501H (API# 30-025-52844). The SHL will change from 320' FNL and 1300' FWL, to 320' FNL and 1280' FWL. Please see the attached updated plat and directional plan for this request. Thank you!

NOI Attachments

Procedure Description

 $Royal_Oak_25_Fed_Com_501H_Plan_0.1_20250207103549.pdf$

Royal Oak 25 Fed Com 501H Plan 0.1 Report 20250207103535.pdf

Royal_Oak_25_Fed_Com_501H_Plan_0.1_AC_20250207103525.pdf

Coterra_Energy___Royal_Oak_25_Fed_Com__501H___Cement_Program_20250207103515.pdf

Royal_Oak_25_Fed_Com_501H_C_102_2.7.25_20250207103503.pdf

Received by OCD: WARRANG. ROBALORNOS FED COM

Well Location: T18S / R33E / SEC 25 / NWNW / 32.7250468 / -103.6208995

County or Parish/State: LEA /

Page 2 of 58

NM

Well Number: 501H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM0245247

NMNM0245247 Unit or CA Name:

Unit or CA Number:

US Well Number: 3002552844

Operator: AVANT OPERATING LLC

Conditions of Approval

Additional

25_18_33_D_Sundry_ID_2835948_Royal_Oak_25_Fed_Com_501H_Lea_NM245247_AVANT_OPERATING_LLC_13_22fa_8_10_2023_LV_20250211095633.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: SARAH FERREYROS Signed on: FEB 07, 2025 10:36 AM

Name: AVANT OPERATING LLC

Title: Director of Regulatory

Street Address: 1515 WYNKOOP

City: DENVER State: CO

Phone: (720) 854-9020

Email address: SARAH@AVANTNR.COM

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234 BLM POC Email Address: cwalls@blm.gov

Disposition: Approved **Disposition Date:** 02/12/2025

Signature: Chris Walls

Page 2 of 2

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

	•
Lease Serial No.	NMNM0245247

BURI	EAU OF LAND MANAGEMENT		5. Lease Serial No.	NMNM0245247
Do not use this f	OTICES AND REPORTS ON Worm for proposals to drill or to Jse Form 3160-3 (APD) for suc	re-enter an	6. If Indian, Allottee or Tribe	Name
SUBMIT IN 1	TRIPLICATE - Other instructions on pag	e 2	7. If Unit of CA/Agreement, 1	Name and/or No.
1. Type of Well Oil Well Gas W	_		8. Well Name and No. ROYAL OAK 25 FED COM/501H	
2. Name of Operator AVANT OPERA	TING LLC		9. API Well No. 300255284	4
	EET, SUITE 700, DENVEF 3b. Phone No. (720) 746-504		10. Field and Pool or Explora	tory Area
4. Location of Well (Footage, Sec., T.,R SEC 25/T18S/R33E/NMP	.,M., or Survey Description)		11. Country or Parish, State LEA/NM	
12. CHE	CK THE APPROPRIATE BOX(ES) TO INI	DICATE NATURE (OF NOTICE, REPORT OR OT	HER DATA
TYPE OF SUBMISSION		TYPE	E OF ACTION	
✓ Notice of Intent	Acidize Deep Alter Casing Hydr	en [aulic Fracturing [Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity
Subsequent Report		Construction [and Abandon [Recomplete Temporarily Abandon	Other
Final Abandonment Notice	Convert to Injection Plug	-	Water Disposal	
completion of the involved operation completed. Final Abandonment Not is ready for final inspection.) Avant Operating, LLC would like	I be perfonned or provide the Bond No. on fins. If the operation results in a multiple comices must be filed only after all requirements to the to request to change the SHL for the Pintal 1300' FWL, to 320' FNL and 1300' FWL, to 320' FNL	pletion or recomple s, including reclama Royal Oak 25 Fed	tion in a new interval, a Form 3 tion, have been completed and Com 501H (API# 30-025-52	3160-4 must be filed once testing has been the operator has detennined that the site 2844).
14. I hereby certify that the foregoing is SARAH FERREYROS / Ph: (720) 8		Director of F	Regulatory	
Signature (Electronic Submissio	n)	Date	02/07/2	2025
	THE SPACE FOR FEDI	ERAL OR STA	TE OFICE USE	
Approved by		Detucle	Fasiana	00/40/0005
CHRISTOPHER WALLS / Ph: (575	5) 234-2234 / Approved	Title	eum Engineer	02/12/2025 Date
	ned. Approval of this notice does not warran quitable title to those rights in the subject le duct operations thereon.		LSBAD	
	3 U.S.C Section 1212, make it a crime for arents or representations as to any matter with		and willfully to make to any d	epartment or agency of the United States

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

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

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-4.

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

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

(Form 3160-5, page 2)

Additional Information

Location of Well

0. SHL: NWNW / 320 FNL / 1300 FWL / TWSP: 18S / RANGE: 33E / SECTION: 25 / LAT: 32.7250468 / LONG: -103.6208995 (TVD: 0 feet, MD: 0 feet) PPP: NWNW / 100 FNL / 330 FWL / TWSP: 18S / RANGE: 33E / SECTION: 25 / LAT: 32.7256417 / LONG: -103.6240539 (TVD: 9600 feet, MD: 9935 feet) BHL: SWSW / 100 FSL / 330 FWL / TWSP: 18S / RANGE: 33E / SECTION: 36 / LAT: 32.6971692 / LONG: -103.6240431 (TVD: 9600 feet, MD: 19873 feet)

Royal Oak 25 Fed Com 501H

13 3/8	surfa	ice csg in a	17 1/2	inch hole.		<u>Design I</u>	Factors -			Surface		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	54.50		j 55	btc	9.15	1.28	0.94	1,711	4	1.63	2.24	93,250
"B"				btc				0				0
	w/8.4#/g	mud, 30min Sfc Csg Tes	t psig: 1,164	Tail Cmt	does not	circ to sfc.	Totals:	1,711				93,250
Comparison o	f Proposed to Min	imum Required Cem	ent Volumes									
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
17 1/2	0.6946	965	1745	1189	47	9.90	1675	2M				1.56
Burst Frac Grad	lient(s) for Segmen	:(s) A, B = , b All > 0	.70, ОК.		Site plat (pip	e racks S or E) a	as per O.O.1.ll	II.D.4.i. not fo				

cas	ing inside the	13 3/8			<u>Design</u>	Factors		1	Int 1		
#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
40.00		j 55	btc	2.82	1.24	0.86	4,000	1	1.60	2.15	160,000
40.00		hcl 80	btc	14.38	1.46	1.25	1,593	2	2.32	2.53	63,720
w/8.4	#/g mud, 30min Sfc Csg Test	psig: 1,020				Totals:	5,593				223,720
	The cement v	olume(s) are intende	ed to achieve a top of	0	ft from su	rface or a	1711				overlap.
Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
0.3132	1110	2120	1836	15	10.00	2476	3M				0.81
						sum of sx	Σ CuFt				Σ%excess
	#VALUE!	#VALUE!				1110	2120				15
•	nent(s): A, B, C, D = 0.99, b	, c, d All > 0.70, OK									
	#/ft 40.00 40.00 w/8.4 Annular Volume 0.3132	40.00 40.00 w/8.4#/g mud, 30min Sfc Csg Test The cement v Annular 1 Stage Volume Cmt Sx 0.3132 1110 #VALUE! t yld > 1.20	#/ft Grade 40.00 j 55 40.00 hcl 80 w/8.4#/g mud, 30min Sfc Csg Test psig: 1,020 The cement volume(s) are intended and the stage location of the stage lo	#/ft Grade Coupling 40.00 j 55 btc 40.00 hcl 80 btc w/8.4#/g mud, 30min Sfc Csg Test psig: 1,020 The cement volume(s) are intended to achieve a top of Annular 1 Stage 1 Stage Min Volume Cmt Sx CuFt Cmt Cu Ft 0.3132 1110 2120 1836	#/ft Grade Coupling Body 40.00 j 55 btc 2.82 40.00 hcl 80 btc 14.38 w/8.4#/g mud, 30min Sfc Csg Test psig: 1,020 The cement volume(s) are intended to achieve a top of O Annular 1 Stage Min 1 Stage Volume Cmt Sx CuFt Cmt Cu Ft % Excess 0.3132 1110 2120 1836 15 #VALUE! #VALUE!	#/ft Grade Coupling Body Collapse 40.00 j 55 btc 2.82 1.24 40.00 hcl 80 btc 14.38 1.46 w/8.4#/g mud, 30min Sfc Csg Test psig: 1,020	#/ft Grade Coupling Body Collapse 40.00 j 55 btc 2.82 1.24 0.86 40.00 hcl 80 btc 14.38 1.46 1.25 w/8.4#/g mud, 30min Sfc Csg Test psig: 1,020 Totals: The cement volume(s) are intended to achieve a top of Annular 1 Stage I Stage Min 1 Stage Drilling Calc Volume Cmt Sx CuFt Cmt Cu Ft % Excess Mud Wt MASP 0.3132 1110 2120 1836 15 10.00 2476 #VALUE! #VALUE! 1 1110	#/ft Grade Coupling Body Collapse Burst Length 40.00 j 55 btc 2.82 1.24 0.86 4,000 40.00 hcl 80 btc 14.38 1.46 1.25 1,593 w/8.4#/g mud, 30min Sfc Csg Test psig: 1,020 Totals: 5,593 The cement volume(s) are intended to achieve a top of O ft from surface or a 1711 Annular 1 Stage 1 Stage Min 1 Stage Drilling Calc Req'd Washer Cmt Sx CuFt Cmt Cu Ft % Excess Mud Wt MASP BOPE 0.3132 1110 2120 1836 15 10.00 2476 3M #VALUE! #VALUE! 1 1110 2120 t yld > 1.20	##ft Grade Coupling Body Collapse Burst Length 40.00 j 55 btc 2.82 1.24 0.86 4,000 1 40.00 hcl 80 btc 14.38 1.46 1.25 1,593 7 w/8.4#/g mud, 30min Sfc Csg Test psig: 1,020 The cement volume(s) are intended to achieve a top of Volume Cmt Sx CuFt Cmt Cu Ft % Excess Mud Wt MASP BOPE 0.3132 1110 2120 1836 15 10.00 2476 3M \$\frac{\text{sum of sx}}{\text{tyd} > 1.20}\$ \$\frac{\text{tyd}}{\text{tyd} > 1.20}\$ \$\f	#/ft Grade Coupling Body Collapse Burst Length 40.00 j 55 btc 2.82 1.24 0.86 4,000 1 1.60 40.00 hcl 80 btc 14.38 1.46 1.25 1,593 2 2.32	casing inside the 13 3/8 Design Factors Int 1 #/ft Grade Coupling Body Collapse Burst Length B@s a-B a-C 40.00 j 55 btc 2.82 1.24 0.86 4,000 1 1.60 2.15 40.00 hcl 80 btc 14.38 1.46 1.25 1,593 2 2.32 2.53 w/8.4#/g mud, 30min Sfc Csg Test psig: 1,020 The cement volume(s) are intended to achieve a top of The cement vo

5 1/2	casin	g inside the	9 5/8			Design Fac	ctors			Prod 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	20.00		hcp 110	gbcd	3.57	2.66	3.13	19,880	3	5.80	4.93	397,600
"B"								0				0
"C"								0				0
"D"				0				0				0
	w/8.4#/	g mud, 30min Sfc Csg Test	psig: 2,112				Totals:	19,880				397,600
		The cement v	olume(s) are intende	ed to achieve a top of	3800	ft from su	rface or a	1793				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
8 3/4	0.2526	3529	6084	4076	49	9.20						1.23
Class 'C' tail cm	nt yld > 1.35											

0			5 1/2	_		Design I	Factors		<c< th=""><th>hoose Ca</th><th>ising></th><th></th></c<>	hoose Ca	ising>	
Segment	#/ft	Grade		Coupling	#N/A	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"				0.00				0				0
"B"				0.00				0				0
	w/8.4#/g	mud, 30min Sfc Csg Test	psig:				Totals:	0				0
		Cmt vol ca	Ic below includes th	is csg, TOC intended	#N/A	ft from su	rface or a	#N/A				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cpl
0		#N/A	#N/A	0	#N/A							
#N/A			Capitan Reef est	top XXXX.								

Carlsbad Field Office 2/11/2025

State LG 2484 001

South(-)/North(+) (3500 ustrin)

90

Federal 004

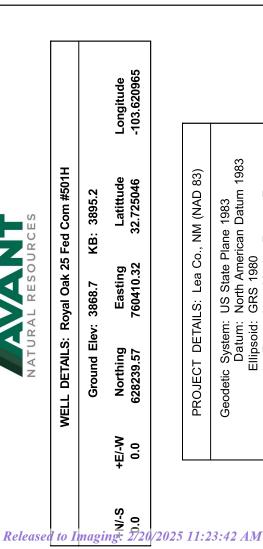
S25-T18S-R33E

Edith Federal 003

-1750 -

McElvain Federal 004





PROJECT DETAILS: Lea Co., NM (NAD 83)

Geodetic System: US State Plane 1983 Datum: North American Datum 1983 Ellipsoid: GRS 1980

Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

G A Azimuths to Grid North
$A \mid A$ Irue North: -0.39° Magnetic North: 8.24°
Magnetic Field Strength: 49719.1nT
Dip Angle: 60.90° Date: 12/31/2004 Model: IGRF2000

7000

5250

3500

West(-)/East(+) (3500 usft/in)

-1750

-3500

-5250

-7000

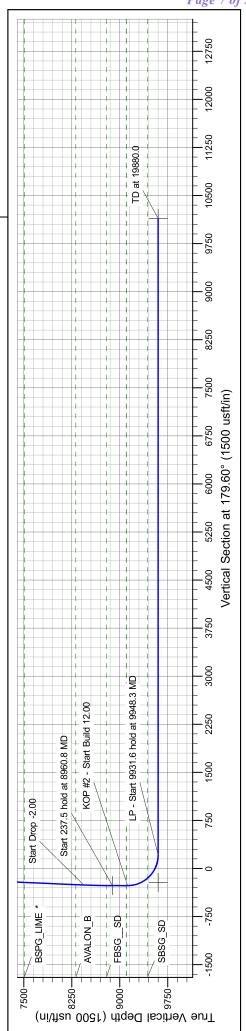
Royal Oak 25 Fed Com #504H Royal Oak 25 Fed Com #301H

-8750-

Royal Oak 25 Fed Com #502H

S36-T18S-R33E

	Annotation KOP - Start Build 2.00 Start 5861.2 hold at 2649.8 MD Start Drop -2.00 Start 237.5 hold at 8960.8 MD KOP #2 - Start Build 12.00 LP - Start 9931.6 hold at 9948.3 MD TD at 19880.0
	VSect 0.0 0.0 -9.5 -257.4 -266.9 -266.9 210.5
	TFace 0.00 0.00 285.29 0.00 180.00 0.00 179.60 0.00
ETAILS	Dleg 0.00 0.00 2.00 0.00 12.00 0.00
SECTION DETAILS	+E/-W 0.0 0.0 -34.0 -918.0 -951.9 -951.9 -948.6 -878.9
SE(+N/-S 0.0 0.0 9.3 251.0 260.3 260.3 -217.1
	TVD 0.0 2200.0 2647.9 8437.1 8885.0 9122.5 9600.0
	Azi 0.00 0.00 285.29 285.29 0.00 179.60
	9.00 0.00 0.00 0.00 0.00 90.00
	MD 0.0 2200.0 2649.8 8511.0 8960.8 9198.3 9948.3
	8 -



Avant Operating, LLC

Lea Co., NM (NAD 83) Royal Oak 25 Fed Com Pad 2 Royal Oak 25 Fed Com #501H

OH

Plan: Plan 0.1

Standard Planning Report

04 February, 2025

Database: EDM 5000.16 Single User Db Company: Avant Operating, LLC
Project: Lea Co., NM (NAD 83)
Site: Royal Oak 25 Fed Com Pad 2

 Well:
 Royal Oak 25 Fed Com #501H

 Wellbore:
 OH

 Design:
 Plan 0.1

Local Co-ordinate Reference:
TVD Reference:

MD Reference:
North Reference:

Survey Calculation Method:

Well Royal Oak 25 Fed Com #501H

Well @ 3895.2usft (3895.2) Well @ 3895.2usft (3895.2)

Grid

Minimum Curvature

Project Lea Co., NM (NAD 83)

Map System:US State Plane 1983Geo Datum:North American Datum 1983Map Zone:New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site Royal Oak 25 Fed Com Pad 2

 Site Position:
 Northing:
 628,331.07 usft
 Latitude:
 32.725297

 From:
 Map
 Easting:
 760,434.75 usft
 Longitude:
 -103.620883

Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 "

Well Royal Oak 25 Fed Com #501H **Well Position** +N/-S 0.0 usft 628,239.58 usft Latitude: 32.725046 Northing: +E/-W 0.0 usft Easting: 760,410.32 usft Longitude: -103.620965 0.0 usft Wellhead Elevation: usft **Ground Level:** 3,868.7 usft **Position Uncertainty** 0.39 **Grid Convergence:**

ОН Wellbore **Model Name** Declination Field Strength Magnetics Sample Date **Dip Angle** (°) (°) (nT) IGRF2000 12/31/2004 8.62 60.90 49,719.12481862

Plan 0.1 Design Audit Notes: PLAN 0.0 Version: Phase: Tie On Depth: Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.0 0.0 179.60 0.0

 Plan Survey Tool Program
 Date
 2/4/2025

 Depth From (usft)
 Depth To (usft)
 Survey (Wellbore)
 Tool Name
 Remarks

 1
 0.0
 19,880.0
 Plan 0.1 (OH)
 B001Mb_MWD+HRGM

OWSG MWD + HRGM

Plan Sections Measured Vertical Dogleg Build Turn Depth Inclination Azimuth Depth +N/-S +E/-W Rate Rate Rate TFO (usft) (°) (°) (usft) (usft) (usft) (°/100usft) (°/100usft) (°/100usft) (°) Target 0.0 0.00 0.00 0.0 0.0 0.0 0.00 0.00 0.00 0.00 2,200.0 0.00 0.00 2,200.0 0.0 0.0 0.00 0.00 0.00 0.00 2,649.8 9.00 285.29 2,647.9 9.3 -34.0 2.00 2.00 0.00 285.29 8,511.0 9.00 285.29 8,437.1 -918.0 0.00 0.00 251.0 0.00 0.00 8,960.8 260.3 0.00 0.00 8,885.0 -951.9 2.00 -2.00 0.00 180.00 KOP - Royal Oak 25 F 260.3 9,198.3 0.00 0.00 9,122.5 -951.9 0.00 0.00 0.00 0.00 9,948.3 90.00 179.60 9,600.0 -217.1 -948.6 12.00 12.00 0.00 179.60 19,880.0 -878.9 90.00 179.60 9,600.0 -10,148.5 0.00 0.00 0.00 0.00 LTP/PBHL-Royal Oak

Database: EDM 5000.16 Single User Db Company: Avant Operating, LLC
Project: Lea Co., NM (NAD 83)
Site: Royal Oak 25 Fed Com Pad 2

Well: Royal Oak 25 Fed Com #501H

Wellbore: OH
Design: Plan 0.1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Royal Oak 25 Fed Com #501H

Well @ 3895.2usft (3895.2) Well @ 3895.2usft (3895.2)

Grid

Minimum Curvature

ned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,628.0	0.00	0.00	1,628.0	0.0	0.0	0.0	0.00	0.00	0.00
RUSTLER									
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,951.0	0.00	0.00	1,951.0	0.0	0.0	0.0	0.00	0.00	0.00
SOLADO									
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start	Build 2.00		,						
2,300.0	2.00	285.29	2,300.0	0.5	-1.7	-0.5	2.00	2.00	0.00
2,400.0	4.00	285.29	2,399.8	1.8	-6.7	-1.9	2.00	2.00	0.00
	6.00	285.29	2,499.5	4.1	-0. <i>1</i> -15.1		2.00	2.00	
2,500.0						-4.2			0.00
2,600.0	8.00	285.29	2,598.7	7.4	-26.9	-7.5	2.00	2.00	0.00
2,649.8	9.00	285.29	2,647.9	9.3	-34.0	-9.5	2.00	2.00	0.00
Start 5861.2	2 hold at 2649.8 N	ND .							
2,700.0	9.00	285.29	2,697.5	11.4	-41.6	-11.7	0.00	0.00	0.00
2,800.0	9.00	285.29	2,796.3	15.5	-56.6	-15.9	0.00	0.00	0.00
2,900.0	9.00	285.29	2,895.1	19.6	-71.7	-20.1	0.00	0.00	0.00
3,000.0	9.00	285.29	2,993.8	23.7	-86.8	-24.3	0.00	0.00	0.00
3,100.0	9.00	285.29	3,092.6	27.9	-101.9	-28.6	0.00	0.00	0.00
3,200.0	9.00	285.29	3,191.4	32.0	-117.0	-32.8	0.00	0.00	0.00
3,300.0			,						
	9.00	285.29	3,290.2	36.1	-132.1	-37.0	0.00	0.00	0.00
3,400.0	9.00	285.29	3,388.9	40.2	-147.1	-41.3	0.00	0.00	0.00
3,500.0	9.00	285.29	3,487.7	44.4	-162.2	-45.5	0.00	0.00	0.00
3,600.0	9.00	285.29	3,586.5	48.5	-177.3	-49.7	0.00	0.00	0.00
3,655.2	9.00	285.29	3,641.0	50.8	-185.6	-52.1	0.00	0.00	0.00
YATES									
3,700.0	9.00	285.29	3,685.2	52.6	-192.4	-53.9	0.00	0.00	0.00
3,800.0	9.00	285.29	3,784.0	56.7	-207.5	-58.2	0.00	0.00	0.00
3,900.0	9.00	285.29	3,882.8	60.9	-222.5	-62.4	0.00	0.00	0.00
4,000.0	9.00	285.29	3,981.5	65.0	-237.6	-66.6	0.00	0.00	0.00
4,100.0	9.00	285.29	4,080.3	69.1	-252.7	-70.9	0.00	0.00	0.00
4,200.0	9.00	285.29	4,080.3 4,179.1	73.2	-252.7 -267.8	-70.9 -75.1	0.00	0.00	0.00
.,_00.0	9.00	285.29	4,277.9	77.4	-282.9	-79.3	0.00	0.00	0.00

Database: EDM 5000.16 Single User Db Company: Avant Operating, LLC
Project: Lea Co., NM (NAD 83)
Site: Royal Oak 25 Fed Com Pad 2

Plan 0.1

Well: Royal Oak 25 Fed Com #501H
Wellbore: OH

Design:

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Royal Oak 25 Fed Com #501H Well @ 3895.2usft (3895.2)

Well @ 3895.2usft (3895.2)

Minimum Curvature

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,400.0	9.00	285.29	4,376.6	81.5	-297.9	-83.6	0.00	0.00	0.00
4,500.0	9.00	285.29	4,475.4	85.6	-313.0	-87.8	0.00	0.00	0.00
4,600.0	9.00	285.29	4,574.2	89.7	-328.1	-92.0	0.00	0.00	0.00
4,700.0	9.00	285.29	4,672.9	93.8	-343.2	-96.2	0.00	0.00	0.00
4,800.0	9.00	285.29	4,771.7	98.0	-358.3	-100.5	0.00	0.00	0.00
4,900.0	9.00	285.29	4,870.5	102.1	-373.4	-104.7	0.00	0.00	0.00
5,000.0	9.00	285.29	4,969.2	106.2	-388.4	-108.9	0.00	0.00	0.00
5,100.0	9.00	285.29	5,068.0	110.3	-403.5	-113.2	0.00	0.00	0.00
5,200.0	9.00	285.29	5,166.8	114.5	-418.6	-117.4	0.00	0.00	0.00
5,300.0	9.00	285.29	5,265.6	118.6	-433.7	-121.6	0.00	0.00	0.00
5,400.0	9.00	285.29	5,364.3	122.7	-448.8	-125.8	0.00	0.00	0.00
5,500.0	9.00	285.29	5,463.1	126.8	-463.8	-130.1	0.00	0.00	0.00
5,600.0	9.00	285.29	5,561.9	131.0	-478.9	-134.3	0.00	0.00	0.00
5,693.3	9.00	285.29	5,654.0	134.8	-493.0	-138.2	0.00	0.00	0.00
5,700.0	9.00	285.29	5,660.6	135.1	-494.0	-138.5	0.00	0.00	0.00
5,800.0	9.00	285.29	5,759.4	139.2	-509.1	-142.8	0.00	0.00	0.00
5,900.0	9.00	285.29	5,858.2	143.3	-524.2	-147.0	0.00	0.00	0.00
6,000.0	9.00	285.29	5,957.0	147.5	-539.3	-151.2	0.00	0.00	0.00
6,100.0	9.00	285.29	6,055.7	151.6	-554.3	-155.4	0.00	0.00	0.00
6,200.0	9.00	285.29	6,154.5	155.7	-569.4	-159.7	0.00	0.00	0.00
6,300.0	9.00	285.29	6,253.3	159.8	-584.5	-163.9	0.00	0.00	0.00
6,400.0	9.00	285.29	6,352.0	164.0	-599.6	-168.1	0.00	0.00	0.00
6,500.0	9.00	285.29	6,450.8	168.1	-614.7	-172.4	0.00	0.00	0.00
6,600.0	9.00	285.29	6,549.6	172.2	-629.7	-176.6	0.00	0.00	0.00
6,700.0	9.00	285.29	6,648.3	176.3	-644.8	-180.8	0.00	0.00	0.00
6,800.0	9.00	285.29	6,747.1	180.5	-659.9	-185.1	0.00	0.00	0.00
6,900.0	9.00	285.29	6,845.9	184.6	-675.0	-189.3	0.00	0.00	0.00
7,000.0	9.00	285.29	6,944.7	188.7	-690.1	-193.5	0.00	0.00	0.00
7,100.0	9.00	285.29	7,043.4	192.8	-705.2	-197.7	0.00	0.00	0.00
7,200.0	9.00	285.29	7,142.2	196.9	-720.2	-202.0	0.00	0.00	0.00
7,295.0	9.00	285.29	7,236.0	200.9	-734.6	-206.0	0.00	0.00	0.00
7,300.0	9.00	285.29	7,241.0	201.1	-735.3	-206.2	0.00	0.00	0.00
7,400.0	9.00	285.29	7,339.7	205.2	-750.4	-210.4	0.00	0.00	0.00
7,500.0	9.00	285.29	7,438.5	209.3	-765.5	-214.7	0.00	0.00	0.00
7,570.4	9.00	285.29	7,508.0	212.2	-776.1	-217.6	0.00	0.00	0.00
BSPG_LIME 7,600.0 7,700.0	* 9.00 9.00	285.29 285.29	7,537.3 7,636.0	213.4 217.6	-780.6 -795.6	-218.9 -223.1	0.00 0.00	0.00 0.00	0.00 0.00
7,800.0	9.00	285.29	7,734.8	221.7	-810.7	-227.3	0.00	0.00	0.00
7,900.0	9.00	285.29	7,833.6	225.8	-825.8	-231.6	0.00	0.00	0.00
8,000.0	9.00	285.29	7,932.4	229.9	-840.9	-235.8	0.00	0.00	0.00
8,100.0	9.00	285.29	8,031.1	234.1	-856.0	-240.0	0.00	0.00	0.00
8,200.0	9.00	285.29	8,129.9	238.2	-871.0	-244.3	0.00	0.00	0.00
8,300.0	9.00	285.29	8,228.7	242.3	-886.1	-248.5	0.00	0.00	0.00
8,385.4	9.00	285.29	8,313.0	245.8	-899.0	-252.1	0.00	0.00	0.00
AVALON_B 8,400.0 8,500.0 8,511.0	9.00 9.00 9.00	285.29 285.29 285.29	8,327.4 8,426.2 8,437.1	246.4 250.6 251.0	-901.2 -916.3 -918.0	-252.7 -257.0 -257.4	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Start Drop -2		005.00	0.505.0	054.0	000.4	200.0	0.00	0.00	0.00
8,600.0	7.22	285.29	8,525.2	254.3	-930.1	-260.8	2.00	-2.00	0.00

Database: EDM 5000.16 Single User Db Company: Avant Operating, LLC
Project: Lea Co., NM (NAD 83)
Site: Royal Oak 25 Fed Com Pad 2
Well: Royal Oak 25 Fed Com #501H

Wellbore: OH
Design: Plan 0.1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well Royal Oak 25 Fed Com #501H Well @ 3895.2usft (3895.2) Well @ 3895.2usft (3895.2) Grid Minimum Curvature

ned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,700.	0 5.22	285.29	8,624.6	257.2	-940.5	-263.7	2.00	-2.00	0.00
8,800.		285.29	8,724.3	259.1	-947.6	-265.7	2.00	-2.00	0.00
8,867.	8 1.86	285.29	8,792.0	259.9	-950.5	-266.5	2.00	-2.00	0.00
FBSG_S	D								
8,900.	0 1.22	285.29	8,824.2	260.1	-951.3	-266.8	2.00	-2.00	0.00
8,960.	8 0.00	0.00	8,885.0	260.3	-951.9	-266.9	2.00	-2.00	0.00
	5 hold at 8960.8 M				-951.9	-200.5	2.00	-2.00	0.00
9,000.		0.00	8,924.2	260.3	-951.9	-266.9	0.00	0.00	0.00
9,000.		0.00	9,024.2	260.3	-951.9 -951.9	-266.9	0.00	0.00	0.00
9,175.		0.00	9,100.0	260.3	-951.9	-266.9	0.00	0.00	0.00
SBSG_SH		0.00	0,100.0	200.0	001.0	200.0	0.00	0.00	0.00
9,178.		0.00	9,103.0	260.3	-951.9	-266.9	0.00	0.00	0.00
•		0.00	9,103.0	200.3	-931.9	-200.9	0.00	0.00	0.00
SBSG_CA	AND								
9,198.	3 0.00	0.00	9,122.5	260.3	-951.9	-266.9	0.00	0.00	0.00
KOP #2 - :	Start Build 12.00								
9,200.	0 0.20	179.60	9,124.2	260.3	-951.9	-266.9	12.00	12.00	0.00
9,300.		179.60	9,223.5	249.5	-951.9	-256.2	12.00	12.00	0.00
9,400.	0 24.20	179.60	9,318.3	218.3	-951.6	-225.0	12.00	12.00	0.00
9,500.	0 36.20	179.60	9,404.5	168.1	-951.3	-174.8	12.00	12.00	0.00
9.535.	0 40.40	179.60	9,432.0	146.4	-951.1	-153.1	12.00	12.00	0.00
SBSG_SE			0,102.0		55			.2.00	0.00
9,600.		179.60	9,478.5	101.1	-950.8	-107.7	12.00	12.00	0.00
.,	I Oak 25 Fed Com		0,170.0	101.1	000.0	107.1	12.00	12.00	0.00
9,700.		179.60	9,536.9	20.1	-950.3	-26.8	12.00	12.00	0.00
9,800.		179.60	9,577.1	-71.2	-949.6	64.6	12.00	12.00	0.00
9,900.		179.60	9,597.6	-168.9	-948.9	162.3	12.00	12.00	0.00
9,948.		179.60	9,600.0	-217.1	-948.6	210.5	12.00	12.00	0.00
	9931.6 hold at 994								
10,000.		179.60	9,600.0	-268.8	-948.2	262.2	0.00	0.00	0.00
10,100.		179.60	9,600.0	-368.8	-947.5	362.2	0.00	0.00	0.00
10,200. 10,300.		179.60 179.60	9,600.0 9,600.0	-468.8 -568.8	-946.8 -946.1	462.2 562.2	0.00 0.00	0.00 0.00	0.00 0.00
			·						
10,400.		179.60	9,600.0	-668.8	-945.4	662.2	0.00	0.00	0.00
10,500.		179.60	9,600.0	-768.8	-944.7	762.2	0.00	0.00	0.00
10,600.		179.60	9,600.0	-868.8	-944.0	862.2	0.00	0.00	0.00
10,700.		179.60	9,600.0	-968.8	-943.3	962.2	0.00	0.00	0.00
10,800.	0 90.00	179.60	9,600.0	-1,068.8	-942.6	1,062.2	0.00	0.00	0.00
10,900.		179.60	9,600.0	-1,168.8	-941.9	1,162.2	0.00	0.00	0.00
11,000.		179.60	9,600.0	-1,268.8	-941.2	1,262.2	0.00	0.00	0.00
11,100.		179.60	9,600.0	-1,368.8	-940.5	1,362.2	0.00	0.00	0.00
11,200.		179.60	9,600.0	-1,468.8	-939.8	1,462.2	0.00	0.00	0.00
11,300.	0 90.00	179.60	9,600.0	-1,568.8	-939.1	1,562.2	0.00	0.00	0.00
11,400.	0 90.00	179.60	9,600.0	-1,668.8	-938.4	1,662.2	0.00	0.00	0.00
11,500.		179.60	9,600.0	-1,768.8	-937.7	1,762.2	0.00	0.00	0.00
11,600.		179.60	9,600.0	-1,868.8	-937.0	1,862.2	0.00	0.00	0.00
11,700.		179.60	9,600.0	-1,968.8	-936.3	1,962.2	0.00	0.00	0.00
11,800.	0 90.00	179.60	9,600.0	-2,068.8	-935.6	2,062.2	0.00	0.00	0.00
11,900.	0 90.00	179.60	9,600.0	-2,168.8	-934.9	2,162.2	0.00	0.00	0.00
12,000.		179.60	9,600.0	-2,268.8	-934.2	2,262.2	0.00	0.00	0.00
12,100.		179.60	9,600.0	-2,368.8	-933.5	2,362.2	0.00	0.00	0.00
12,200.		179.60	9,600.0	-2,468.8	-932.8	2,462.2	0.00	0.00	0.00
12,300.		179.60	9,600.0	-2,568.8	-932.1	2,562.2	0.00	0.00	0.00
				-2,668.8	-931.4	2,662.2	0.00	0.00	0.00

Database: EDM 5000.16 Single User Db Company: Avant Operating, LLC
Project: Lea Co., NM (NAD 83)
Site: Royal Oak 25 Fed Com Pad 2

Royal Oak 25 Fed Com #501H

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well Royal Oak 25 Fed Com #501H Well @ 3895.2usft (3895.2) Well @ 3895.2usft (3895.2) Grid Minimum Curvature

Wellbore: OH
Design: Plan 0.1

Well:

nned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,500.0	90.00	179.60	9,600.0	-2,768.8	-930.7	2,762.2	0.00	0.00	0.00
12,600.0	90.00	179.60	9,600.0	-2,868.8	-930.0	2,862.2	0.00	0.00	0.00
12,700.0	90.00	179.60	9,600.0	-2,968.8	-929.3	2,962.2	0.00	0.00	0.00
12,800.0	90.00	179.60	9,600.0	-3,068.8	-928.6	3,062.2	0.00	0.00	0.00
12,900.0	90.00	179.60	9,600.0	-3,168.8	-927.9	3,162.2	0.00	0.00	0.00
13,000.0	90.00	179.60	9,600.0	-3,268.8	-927.2	3,262.2	0.00	0.00	0.00
13,100.0	90.00	179.60	9,600.0	-3,368.8	-926.5	3,362.2	0.00	0.00	0.00
13,200.0	90.00	179.60	9,600.0	-3,468.8	-925.8	3,462.2	0.00	0.00	0.00
13,300.0	90.00	179.60	9,600.0	-3,568.8	-925.1	3,562.2	0.00	0.00	0.00
13,400.0	90.00	179.60	9,600.0	-3,668.7	-924.4	3,662.2	0.00	0.00	0.00
13,500.0	90.00	179.60	9,600.0	-3,768.7	-923.7	3,762.2	0.00	0.00	0.00
13,600.0	90.00	179.60	9,600.0	-3,868.7	-923.0	3,862.2	0.00	0.00	0.00
13,700.0	90.00	179.60	9,600.0	-3,968.7	-922.3	3,962.2	0.00	0.00	0.00
13,800.0	90.00	179.60	9,600.0	-4,068.7	-921.6	4,062.2	0.00	0.00	0.00
13,900.0 14,000.0	90.00 90.00	179.60 179.60	9,600.0 9,600.0	-4,168.7 -4,268.7	-920.9 -920.2	4,162.2 4,262.2	0.00 0.00	0.00 0.00	0.00 0.00
14,000.0	90.00	179.60	9,600.0	-4,266.7 -4,368.7	-920.2 -919.5	4,262.2	0.00	0.00	0.00
14,200.0	90.00	179.60	9,600.0	-4,468.7	-918.8	4,462.2	0.00	0.00	0.00
14,300.0	90.00	179.60	9,600.0	-4,568.7	-918.1	4,562.2	0.00	0.00	0.00
14,400.0	90.00	179.60	9,600.0	-4,668.7	-917.4	4,662.2	0.00	0.00	0.00
14,500.0	90.00	179.60	9,600.0	-4,768.7	-916.7	4,762.2	0.00	0.00	0.00
14,600.0 14,700.0	90.00 90.00	179.60 179.60	9,600.0 9,600.0	-4,868.7 -4,968.7	-916.0 -915.3	4,862.2 4,962.2	0.00 0.00	0.00 0.00	0.00 0.00
14,800.0	90.00	179.60	9,600.0	-5,068.7	-913.3 -914.6	5,062.2	0.00	0.00	0.00
14,900.0	90.00	179.60	9,600.0	-5,168.7	-913.9	5,162.2	0.00	0.00	0.00
15,000.0	90.00	179.60	9,600.0	-5,268.7	-913.2	5,262.2	0.00	0.00	0.00
15,100.0	90.00	179.60	9,600.0	-5,368.7	-912.5	5,362.2	0.00	0.00	0.00
15,200.0	90.00	179.60	9,600.0	-5,468.7	-911.8	5,462.2	0.00	0.00	0.00
15,300.0	90.00	179.60	9,600.0	-5,568.7	-911.0	5,562.2	0.00	0.00	0.00
15,400.0	90.00	179.60	9,600.0	-5,668.7	-910.3	5,662.2	0.00	0.00	0.00
15,500.0	90.00	179.60	9,600.0	-5,768.7	-909.6	5,762.2	0.00	0.00	0.00
15,600.0	90.00	179.60	9,600.0	-5,868.7	-908.9	5,862.2	0.00	0.00	0.00
15,700.0	90.00	179.60	9,600.0	-5,968.7	-908.2	5,962.2	0.00	0.00	0.00
15,800.0	90.00	179.60	9,600.0	-6,068.7	-907.5	6,062.2	0.00	0.00	0.00
15,900.0	90.00	179.60	9,600.0	-6,168.7	-906.8	6,162.2	0.00	0.00	0.00
16,000.0	90.00	179.60	9,600.0	-6,268.7	-906.1	6,262.2	0.00	0.00	0.00
16,100.0	90.00	179.60	9,600.0	-6,368.7	-905.4	6,362.2	0.00	0.00	0.00
16,200.0	90.00	179.60	9,600.0	-6,468.7	-904.7	6,462.2	0.00	0.00	0.00
16,300.0	90.00	179.60	9,600.0	-6,568.7	-904.0	6,562.2	0.00	0.00	0.00
16,400.0	90.00	179.60	9,600.0	-6,668.7	-903.3	6,662.2	0.00	0.00	0.00
16,500.0	90.00	179.60	9,600.0	-6,768.7	-902.6	6,762.2	0.00	0.00	0.00
16,600.0	90.00	179.60	9,600.0	-6,868.7	-901.9	6,862.2	0.00	0.00	0.00
16,700.0	90.00	179.60	9,600.0	-6,968.7	-901.2	6,962.2	0.00	0.00	0.00
16,800.0	90.00	179.60	9,600.0	-7,068.7	-900.5	7,062.2	0.00	0.00	0.00
16,900.0	90.00	179.60	9,600.0	-7,168.7	-899.8	7,162.2	0.00	0.00	0.00
17,000.0	90.00	179.60	9,600.0	-7,268.7	-899.1	7,262.2	0.00	0.00	0.00
17,100.0	90.00	179.60	9,600.0	-7,368.7	-898.4	7,362.2	0.00	0.00	0.00
17,200.0	90.00	179.60	9,600.0	-7,468.7	-897.7	7,462.2	0.00	0.00	0.00
17,300.0	90.00	179.60	9,600.0	-7,568.7	-897.0	7,562.2	0.00	0.00	0.00
17,400.0	90.00	179.60	9,600.0	-7,668.6	-896.3	7,662.2	0.00	0.00	0.00
17,500.0	90.00	179.60	9,600.0	-7,768.6	-895.6	7,762.2	0.00	0.00	0.00
17,600.0	90.00	179.60	9,600.0	-7,868.6	-894.9	7,862.2	0.00	0.00	0.00
17,700.0	90.00	179.60	9,600.0	-7,968.6	-894.2	7,962.2	0.00	0.00	0.00
17,800.0	90.00	179.60	9,600.0	-8,068.6	-893.5	8,062.2	0.00	0.00	0.00

Database: EDM 5000.16 Single User Db Company: Avant Operating, LLC
Project: Lea Co., NM (NAD 83)
Site: Royal Oak 25 Fed Com Pad 2
Well: Royal Oak 25 Fed Com #501H

Wellbore: OH
Design: Plan 0.1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Royal Oak 25 Fed Com #501H Well @ 3895.2usft (3895.2)

Well @ 3895.2usft (3895.2)

Minimum Curvature

ed Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,900.0	90.00	179.60	9,600.0	-8,168.6	-892.8	8,162.2	0.00	0.00	0.00
18.000.0	90.00	179.60	9,600.0	-8,268.6	-892.1	8,262.2	0.00	0.00	0.00
18,100.0	90.00	179.60	9,600.0	-8.368.6	-891.4	8.362.2	0.00	0.00	0.00
18.200.0	90.00	179.60	9,600.0	-8.468.6	-890.7	8.462.2	0.00	0.00	0.00
18,300.0	90.00	179.60	9,600.0	-8,568.6	-890.0	8,562.2	0.00	0.00	0.00
18,400.0	90.00	179.60	9,600.0	-8,668.6	-889.3	8,662.2	0.00	0.00	0.00
18,500.0	90.00	179.60	9,600.0	-8,768.6	-888.6	8,762.2	0.00	0.00	0.00
18,600.0	90.00	179.60	9,600.0	-8,868.6	-887.9	8,862.2	0.00	0.00	0.00
18,700.0	90.00	179.60	9,600.0	-8,968.6	-887.2	8,962.2	0.00	0.00	0.00
18,800.0	90.00	179.60	9,600.0	-9,068.6	-886.5	9,062.2	0.00	0.00	0.00
18,900.0	90.00	179.60	9,600.0	-9,168.6	-885.8	9,162.2	0.00	0.00	0.00
19,000.0	90.00	179.60	9,600.0	-9,268.6	-885.1	9,262.2	0.00	0.00	0.00
19,100.0	90.00	179.60	9,600.0	-9,368.6	-884.4	9,362.2	0.00	0.00	0.00
19,200.0	90.00	179.60	9,600.0	-9,468.6	-883.7	9,462.2	0.00	0.00	0.00
19,300.0	90.00	179.60	9,600.0	-9,568.6	-883.0	9,562.2	0.00	0.00	0.00
19,400.0	90.00	179.60	9,600.0	-9,668.6	-882.3	9,662.2	0.00	0.00	0.00
19,500.0	90.00	179.60	9,600.0	-9,768.6	-881.6	9,762.2	0.00	0.00	0.00
19,600.0	90.00	179.60	9,600.0	-9,868.6	-880.9	9,862.2	0.00	0.00	0.00
19,700.0	90.00	179.60	9,600.0	-9,968.6	-880.2	9,962.2	0.00	0.00	0.00
19,800.0	90.00	179.60	9,600.0	-10,068.6	-879.5	10,062.2	0.00	0.00	0.00
19,880.0	90.00	179.60	9,600.0	-10,148.5	-878.9	10,142.2	0.00	0.00	0.00
TD at 19880.	0 - LTP/PBHL-Re	oval Oak 25 Fed	I Com #501H						

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP - Royal Oak 25 Fed - plan hits target cer - Point		0.00	8,885.0	260.3	-951.9	628,499.88	759,458.38	32.725779	-103.624054
FTP-Royal Oak 25 Fed (- plan misses target - Point		0.00 .4usft at 960	9,600.0 0.0usft MD (210.3 9478.5 TVD, 1	-951.5 101.1 N, -950.	628,449.90 8 E)	759,458.77	32.725642	-103.624054
LTP/PBHL-Royal Oak 25 - plan hits target cer - Point		0.00	9,600.0	-10,148.5	-878.9	618,091.03	759,531.40	32.697169	-103.624043

Database: EDM 5000.16 Single User Db Company: Avant Operating, LLC
Project: Lea Co., NM (NAD 83)
Site: Royal Oak 25 Fed Com Pad 2
Well: Royal Oak 25 Fed Com #501H

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Royal Oak 25 Fed Com #501H Well @ 3895.2usft (3895.2) Well @ 3895.2usft (3895.2) Grid Minimum Curvature

Wellbore: OH
Design: Plan 0.1

Formations							
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,628.0	1,628.0	RUSTLER				
	1,951.0	1,951.0	SOLADO				
	3,655.2	3,641.0	YATES				
	5,693.3	5,654.0	CHERRY_CNYN				
	7,295.0	7,236.0	BYCN_MKR				
	7,570.4	7,508.0	BSPG_LIME *				
	8,385.4	8,313.0	AVALON_B				
	8,867.8	8,792.0	FBSG_SD				
	9,175.8	9,100.0	SBSG_SHALE *				
	9,178.8	9,103.0	SBSG_CARB				
	9,535.0	9,432.0	SBSG_SD				

Plan Annotations				
Measured	Vertical	Local Coor	dinates	
Depth	Depth	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	Comment
2,200.0	2,200.0	0.0	0.0	KOP - Start Build 2.00
2,649.8	2,647.9	9.3	-34.0	Start 5861.2 hold at 2649.8 MD
8,511.0	8,437.1	251.0	-918.0	Start Drop -2.00
8,960.8	8,885.0	260.3	-951.9	Start 237.5 hold at 8960.8 MD
9,198.3	9,122.5	260.3	-951.9	KOP #2 - Start Build 12.00
9,948.3	9,600.0	-217.1	-948.6	LP - Start 9931.6 hold at 9948.3 MD
19,880.0	9,600.0	-10,148.5	-878.9	TD at 19880.0

Avant Operating, LLC

Lea Co., NM (NAD 83) Royal Oak 25 Fed Com Pad 2 Royal Oak 25 Fed Com #501H

OH Plan 0.1

Anticollision Summary Report

04 February, 2025

ОН

0.0

Anticollision Summary Report

Avant Operating, LLC Company: Local Co-ordinate Reference: Well Royal Oak 25 Fed Com #501H Project: Lea Co., NM (NAD 83) **TVD Reference:** Well @ 3895.2usft (3895.2)

Well @ 3895.2usft (3895.2) Royal Oak 25 Fed Com Pad 2 MD Reference: Reference Site:

Site Error: 0.0 usft North Reference: Grid Royal Oak 25 Fed Com #501H Reference Well: **Survey Calculation Method:**

Minimum Curvature Well Error: 0.0 usft Output errors are at 2.00 sigma

EDM 5000.16 Single User Db Reference Wellbore Database: Reference Design: Plan 0.1 Offset TVD Reference: Offset Datum

Reference Plan 0.1

19,880.0 Plan 0.1 (OH)

Filter type: NO GLOBAL FILTER: Using user defined selection & filtering criteria

Interpolation Method: Stations Error Model: **ISCWSA**

Depth Range: Unlimited Scan Method: Closest Approach 3D Maximum centre distance of 1,000.0usft Results Limited by: **Error Surface:** Pedal Curve Warning Levels Evaluated at: 2.00 Sigma Casing Method: Not applied

Date 2/4/2025 **Survey Tool Program** From То (usft) (usft) Survey (Wellbore) **Tool Name** Description

B001Mb_MWD+HRGM

OWSG MWD + HRGM

ummary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Dista Between Centres (usft)	nce Between Ellipses (usft)	Separation Factor	Warning
Royal Oak 25 Fed Com Pad 2						
Edith Federal 001 - OH - OH						Out of range
Edith Federal 003 - OH - OH Edith Federal 004 - OH - P&A	11,390.7	9,577.4	319.8	66.8	1.264	Level 3, CC, ES, SF Out of range
McElvain 005 - OH - OH	13,900.0	9,552.2	469.0	196.2	1.719	SF
McElvain 005 - OH - OH	13,907.2	9,552.0	469.0	196.2	1.719	CC, ES
McElvain Federal 004 - OH - OH	2,311.9	2,334.6	697.1	613.6	8.350	CC
McElvain Federal 004 - OH - OH	2,400.0	2,422.7	698.4	612.6	8.133	ES
McElvain Federal 004 - OH - OH	5,100.0	5,105.6	996.2	850.6	6.840	SF
Royal Oak 25 Fed Com #301H - OH - Plan 0.1	2,279.7	2,277.7	14.0	-1.9	0.881	Level 1, CC
Royal Oak 25 Fed Com #301H - OH - Plan 0.1	2,300.0	2,297.9	14.1	-1.9	0.879	Level 1, ES, SF
Royal Oak 25 Fed Com #302H - OH - Plan 0.1	1,916.6	1,916.9	80.1	66.8	6.027	CC
Royal Oak 25 Fed Com #302H - OH - Plan 0.1	2,000.0	2,000.0	80.1	66.2	5.768	ES
Royal Oak 25 Fed Com #302H - OH - Plan 0.1	2,100.0	2,097.6	81.7	67.2	5.606	SF
Royal Oak 25 Fed Com #502H - OH - Plan 0.1	2,200.0	2,201.3	59.9	44.6	3.912	CC, ES
Royal Oak 25 Fed Com #502H - OH - Plan 0.1	2,300.0	2,301.3	61.6	45.6	3.843	SF
Royal Oak 25 Fed Com #511H - OH - Plan 0.1	2,200.0	2,201.3	39.9	24.6	2.605	CC, ES
Royal Oak 25 Fed Com #511H - OH - Plan 0.1	2,300.0	2,301.3	41.6	25.6	2.594	SF
State LG 2484 001 - OH - OH						Out of range

Anticollision Summary Report

Database:

Company: Avant Operating, LLC Project: Lea Co., NM (NAD 83) Reference Site: Royal Oak 25 Fed Com Pad 2

Site Error: 0.0 usft

Royal Oak 25 Fed Com #501H Reference Well:

Well Error: 0.0 usft Reference Wellbore ОН Reference Design: Plan 0.1 **Local Co-ordinate Reference:**

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well @ 3895.2usft (3895.2) Well @ 3895.2usft (3895.2) Grid

Well Royal Oak 25 Fed Com #501H

Minimum Curvature 2.00 sigma

Output errors are at EDM 5000.16 Single User Db

Offset TVD Reference: Offset Datum

Reference Depths are relative to Well @ 3895.2usft (3895.2)

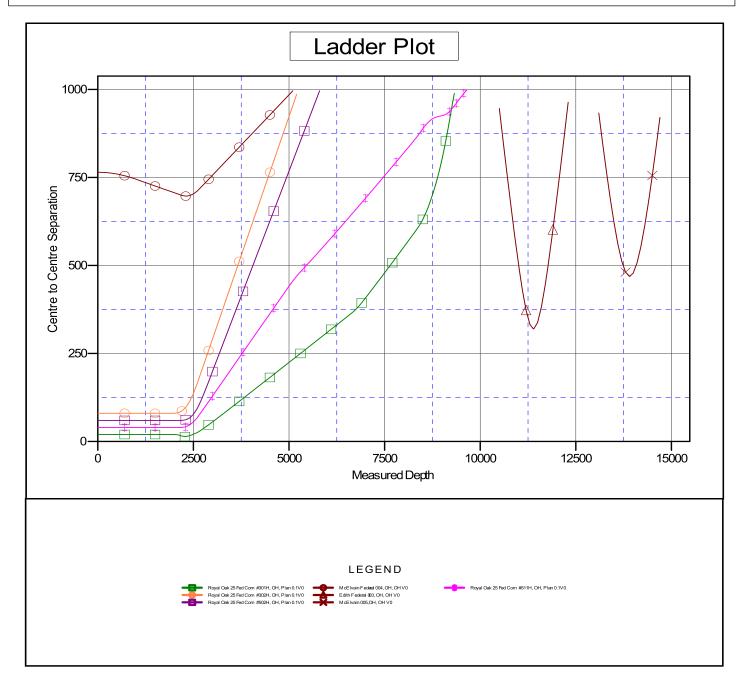
Offset Depths are relative to Offset Datum

Central Meridian is -104.333334

Coordinates are relative to: Royal Oak 25 Fed Com #501H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.39°



Anticollision Summary Report

Company: Avant Operating, LLC Project: Lea Co., NM (NAD 83) Reference Site: Royal Oak 25 Fed Com Pad 2

Site Error: 0.0 usft

Royal Oak 25 Fed Com #501H Reference Well:

Well Error: 0.0 usft Reference Wellbore ОН Reference Design: Plan 0.1 Local Co-ordinate Reference:

Well Royal Oak 25 Fed Com #501H **TVD Reference:** Well @ 3895.2usft (3895.2) Well @ 3895.2usft (3895.2) MD Reference: North Reference: Grid

Minimum Curvature **Survey Calculation Method:** Output errors are at 2.00 sigma

Database: EDM 5000.16 Single User Db

Offset TVD Reference: Offset Datum

Reference Depths are relative to Well @ 3895.2usft (3895.2)

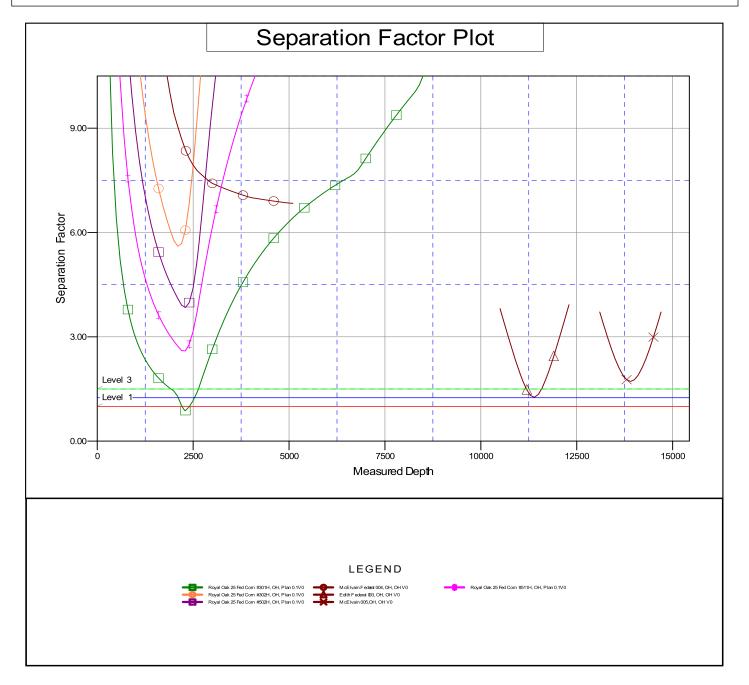
Offset Depths are relative to Offset Datum

Central Meridian is -104.333334

Coordinates are relative to: Royal Oak 25 Fed Com #501H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.39°





Coterra Energy Inc. CEMENT PROPOSAL #81434

Surface Proposal

Royal Oak 25 Fed Com #501H 30-025-52844 S:25 T:18S R:33E Lea NM

February 06, 2025



CEMENT PROPOSAL

Attention: Kyle Adamek | (660) 247-2024 | kyle@deepenergyllc.com Coterra Energy Inc. 202 S. Cheyenne Ave Suite 1000 | Tulsa, OK 74103 February 06, 2025

Dear Kyle Adamek,

Thank you for the opportunity to submit pricing for cementing services on the attached wellbore. American Cementing's priority is to provide premium customer service while operating in a safe, efficient manner. If you have any questions regarding the proposal or services offered, please contact American Cementing at any time.

Sincerely,

Will Bautista
Sales | (432) 254-0261 | will.bautista@americancementing.com

Prepared By
Meseret Belayneh
Field Engineer III | (801) 513-8231 | meseret.belayneh@americancementing.com

Field Office 6165 W Murphy St, Odessa, TX 79763

Phone: (432) 208-6452

Disclaimer

- 1. Proposal is valid for 30 days
- 2. Proposal is for pricing purposes only; actual job procedure to be confirmed prior to job
- 3. American Cementing recommends proper hole conditioning prior to initiating cementing; please discuss procedures with your American Cementing representative
- 4. Applicable sales tax will be added to the final invoice
- 5. American Cementing's general terms and conditions are hereby incorporated into this Proposal

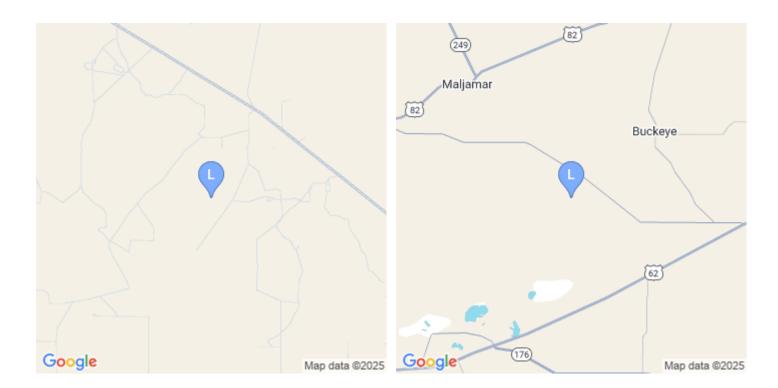


Well Information

Well Name: Royal Oak 25 Fed Com #501H

Well API: **30-025-52844** Latitude: **32.725047** Longitude: **-103.620900**

Section: 25 Township: 18S Range: 33E County: Lea, NM







Job: Surface (Surface) - Well Information

Drilling Fluid Density: 8.40 lb/gal

Drilling Fluid: Water

Total Measured Depth: **1653 ft** Total Vertical Depth: **1653 ft**

BHCT: 86 °F BHST: 95 °F

Temperature Gradient: 0.90 °F/100ft

Surface Temp: 80 °F

Geometry

#	Туре	Function	OD (in)	ID (in)	Weight	Grade	Thread	Тор	Bottom	Excess
					(lb/ft)					(%)
1	Casing	Outer	20.000	19.500	53.00		n/a	0	120	0.0
2	OpenHole	Outer		17.500			n/a	120	1353	50.0
3	OpenHole	Outer		17.500			n/a	1353	1653	20.0
1	Casing	Inner	13.375	12.615	54.50		n/a	0	1653	0.0

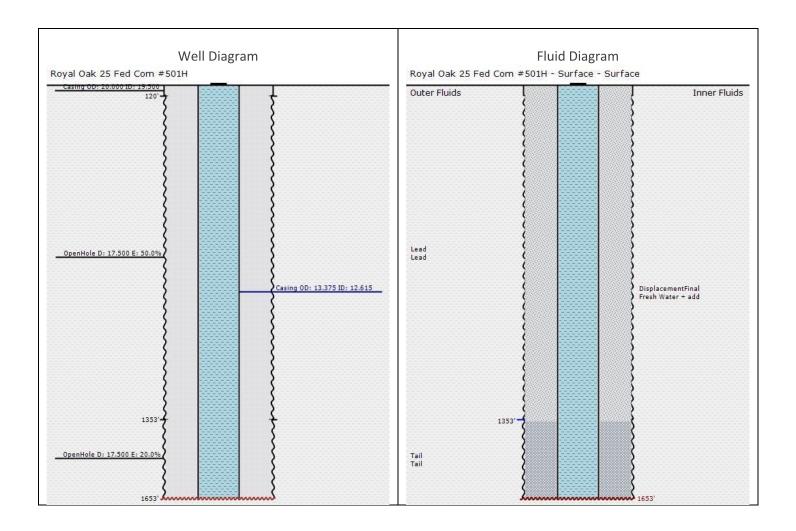
Capacities

Excess added to Capacity Factor

Туре	TopDepth (ft)	Length (ft)	OD (in)	ID (in)	Capacity (bbl/ft)	Capacity (ft ^{3/ft)}	Fill (ft/bbl)	Fill (ft/ft ³⁾
DisplacementFinal	0	1568	12.615	0.000	0.1546	0.8679	6.47	1.15
ShoeJoint	1568	85	12.615	0.000	0.1546	0.8679	6.47	1.15
Casing to OpenHole	1353	300	17.500	13.375	0.1485	0.8335	6.74	1.20
Casing to OpenHole	120	1233	17.500	13.375	0.1856	1.0419	5.39	0.96
Casing to Casing	0	120	19.500	13.375	0.1956	1.0982	5.11	0.91



Job: Surface (Surface) - Well & Fluid Diagrams







Job: Surface (Surface) - Material Information

Pump Order	Туре	Fluid	Fluid Top (ft)	Density (lb/gal)	Water Req. (gal/bbl)	Yield (ft ^{3/sk)}	Proposed Volume (sks)	Proposed Volume (bbl)
1	Flush	FW with dye	0.00	8.34	42.0	n/a		20.00

DYE, LIQUID, BLUE - Other - 0.050 gal/bbl

Pump	Туре	Fluid	Fluid Top	Density	Water Req.	Yield	Proposed	Proposed
Order			(ft)	(lb/gal)	(gal/sk)	(ft ^{3/sk)}	Volume (sks)	Volume (bbl)
2	Lead	Lead	0.00	12.80	10.8	1.97	721	252.57

CEMENT, CLASS C, HSR - Cement - 100.000 %

Cement Additive, Sodium Metasilicate A-2 - Accelerator - 1.200 %BWOB

ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS - Accelerator - 0.500 %BWOB

FOAM PREVENTER, FP-28L - Defoamer - 0.005 gal/sk

IntegraSeal CELLO - LostCirculation - 0.250 lb/sk

IntegraSeal KOL - LostCirculation - 2.500 lb/sk

RETARDER, R-7C - Retarder - 0.170 %BWOB

Pump	Туре	Fluid	Fluid Top	Density	Water Req.	Yield	Proposed	Proposed
Order			(ft)	(lb/gal)	(gal/sk)	(ft ^{3/sk)}	Volume (sks)	Volume (bbl)
3	Tail	Tail	1353.00	14.80	6.3	1.33	244	57.82

CEMENT, CLASS C, HSR - Cement - 100.000 %

ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS - Accelerator - 0.500 %BWOB

FOAM PREVENTER, FP-28L - Defoamer - 0.005 gal/sk

ANTI STATIC ADDITIVE, STATIC FREE - Other - 0.005 lb/sk

Pump Order	Туре	Fluid	Fluid Top (ft)	Density (lb/gal)	Water Req. (gal/bbl)	Yield (ft ^{3/sk)}	Proposed Volume (sks)	Proposed Volume (bbl)
4	DisplacementFinal	Fresh Water + add	0.00	8.34	42.0	n/a		243.00

Job: Surface (Surface) - Pump Schedule

Sequence	Туре	Fluid	Density (lb/gal)	Pump Rate (bpm)	Volume (bbls)	Volume (sks)	Cum. Vol. (bbls)	Stage Time (min)	Cum. Time (min)
1	Flush	FW with dye	8.34	5.00	20.00		20.00	4.00	4.00
2	Lead	Lead	12.80	5.00	252.57	721	272.57	50.51	54.51
3	Tail	Tail	14.80	5.00	57.82	244	330.39	11.56	66.07
4	DisplacementFinal	Fresh Water + add	8.34	5.00	243.00		573.39	48.60	114.67



General Terms and Conditions

AMERICAN CEMENTING, LLC TERMS AND CONDITIONS

These Terms and Conditions (these "T&Cs") contain INDEMNIFICATION, LIMITATION OF LIABILITY AND RISK SHIFTING PROVISIONS. The provision of Work by American Cementing, LLC or its affiliated companies ("Contractor" or "American") to any person or entity placing an Order for such Work ("Company" or "Customer") is subject to these T&Cs. By requesting the Work, Company voluntarily elects to enter into and be bound by these T&Cs, and any Order for Work shall constitute acceptance of these T&Cs, unless Contractor and Company have entered into a Master Service Agreement or other agreement expressly accepted in writing by Contractor's authorized representative, in which case the terms and conditions of such agreements shall govern the provision of the Work and completely supersede these T&Cs in all respects.

- 1. <u>DEFINITIONS</u>. "Claims" means all claims, lawsuits, demands, causes of action, liabilities, damages (including punitive damages), judgments, awards, fines, penalties, losses, costs, expenses (including, without limitation, reasonable attorneys' fees, expert fees, and costs of litigation) of any kind or character, without limit, which arise out of or are related to the Work. "COMPANY GROUP" means (i) COMPANY, and any of its parent, subsidiary and affiliated or related entities; (ii) the working interest owners, co-owners, co-lesses, co-lessors, partners and joint venturers of (i); (iii) any person or entity with an economic interest or property rights in the well, premises or the property in relation to or upon which Work is performed; and (iv) the officers, directors employees, shareholders, agents, representatives, contractors (except CONTRACTOR), subcontractors, consultants, and invitees of (i), (ii) and (iii) above. "CONTRACTOR GROUP" means (i) CONTRACTOR and any of its subsidiary and affiliated or related entities; and (ii) the officers, directors, employees, shareholders, agents, representatives, contractors, subcontractors, consultants, and invitees of all of the foregoing. "Order" means a written or verbal request for specific Work, including by way of a purchase order, work order, service order, work authorization, or similar instrument issued by COMPANY to CONTRACTOR, and which shall incorporate the pricing proposal submitted by CONTRACTOR for such Work. A request will be considered written if exchanges, whether by correspondence, letter, fax, or email include all material terms and conditions and they have been accepted or ratified by both COMPANY and CONTRACTOR; provided, however, if verbal, such request shall control. "Work" means any cementing services and other related services provided by CONTRACTOR, along with all related personnel, equipment, machinery, tools, supplies, materials, vehicles, facilities, consumables, goods, and any other items used in connection with such services.
- 2. <u>INDEPENDENT CONTRACTOR</u>. This Agreement does not create any agency, partnership, joint venture, or similar business relationship between parties. COMPANY will have the right generally to oversee and inspect the performance of the Work to ensure the reasonable satisfactory completion thereof; it being understood and agreed that CONTRACTOR shall have exclusive control over the operational details of the Work.
- 3. PRICING AND PAYMENT. 3.1 COMPANY will pay CONTRACTOR for the Work according to the prices and rates contained the applicable Order; provided, however, that if there are no such prices and rates, then the prices and rates set forth in the pricing proposal submitted by CONTRACTOR for the Work shall apply. The pricing proposals submitted by CONTRACTOR are generally valid sixty (60) days from submission of such proposal, unless otherwise set forth in such pricing proposal. Notwithstanding the foregoing, before commencing the Work and until an agreement is reached between the parties regarding such prices and rates, CONTRACTOR has the right to revise and shall advise COMPANY of any changes in the pricing proposal, and COMPANY may either accept or reject such changes, and proceed with the Work or not. 3.2 COMPANY shall pay CONTRACTOR's invoices within thirty (30) days of receipt of invoice. In the event COMPANY disputes any amount, it shall do so in good faith and shall notify CONTRACTOR of such dispute within thirty (30) days of receipt of invoice; provided, however, that COMPANY shall pay any undisputed portion of the invoice within the time for payment noted above and shall endeavor to expeditiously resolve such disputes. Any undisputed invoices, remaining unpaid for sixty (60) days after receipt by COMPANY, shall accrue interest at the rate of 1.5% per month or the maximum interest rate allowed by applicable law, whichever is less, through the time of collection. 3.3 Prices quoted by CONTRACTOR do not include sales, VAT, use or similar taxes, and such taxes, where applicable, shall be added to the quoted prices and invoiced accordingly. Each party shall pay all taxes levied or assessed by any governmental authority in connection with or incident to its performance under an Order; provided, however, that CONTRACTOR shall pay any assessments or taxes upon wages of CONTRACTOR, social security, unemployment insurance, old age benefits, or any other employment taxes, contributions or withholdings.
- 4. ORDERS; STANDARD OF PERFORMANCE; WARRANTIES. 4.1 COMPANY may from time to time place an Order for Work, and CONTRACTOR may provide such Work to COMPANY, subject to these T&Cs. Orders shall become binding only after signed or acknowledged by an authorized representative of each party. 4.2 CONTRACTOR shall provide all labor, equipment, machinery, tools, supplies, materials, vehicles, facilities, consumables, goods, and any other items required for the execution and completion of the Work, as more fully described in the applicable Order. 4.3 CONTRACTOR shall perform the Work with due diligence and care, in a good and workmanlike manner, using skilled, competent, experienced, and, where applicable, licensed personnel in accordance with the specifications represented by CONTRACTOR and with generally accepted oilfield practices. 4.4 CONTRACTOR shall conduct its Work, in all material respects, in accordance with all applicable laws, rules, regulations, decrees, and/or official government orders of any governing body having jurisdiction over the Work. 4.5 CONTRACTOR's Work is designed to operate under conditions normally encountered in a wellbore. COMPANY shall notify CONTRACTOR in advance and make special arrangements for Work in which hazardous or unusual conditions exist. COMPANY has complete care, custody, and control of the well, the premises around the well, and the drilling and production equipment of the well (other than such equipment provided by CONTRACTOR hereunder), and Company shall furnish directions and requirements for Work performed hereunder. CONTRACTOR is relying on COMPANY to provide such directions and requirements without further investigation by CONTRACTOR. CONTRACTOR agrees to observe and abide by COMPANY's safety policies and procedures communicated to and acknowledged by CONTRACTOR. CONTRACTOR shall as promptly as possible under the circumstances report to COMPANY's representative all accidents or occurrences resulting in injuries, illness or death to person(s) or damage to property, arising out of or occurring during the Work. 4.6 CONTRACTOR's sole liability, and COMPANY's exclusive remedy, for any Claims for breach of warranty under this Section 4 are limited to, at CONTRACTOR's sole option, (i) if practical, the re-performance of the defective Work or portion thereof, at no additional cost to COMPANY; or (ii) a refund or credit to COMPANY of any amount paid to CONTRACTOR for such defective Work or portion thereof. In the event that CONTRACTOR materially fails to perform the Work or if CONTRACTOR provides defective Work for reasons solely within CONTRACTOR's control, COMPANY shall give notice to CONTRACTOR of such non-performance or defective performance immediately upon discovery and prior to CONTRACTOR's departure from the worksite, otherwise such warranty Claim is waived. 4.7 Due to the nature of the Work to be performed in unpredictable wellbore conditions, CONTRACTOR does not warrant the accuracy, correctness, or completeness of any interpretations, analysis, recommendations, or advice, nor that COMPANY's or any third party's reliance on such interpretations, analysis, recommendations, or advice will accomplish any particular results, and which in any event are opinions only. Accordingly, it is COMPANY's responsibility, and sole risk, to determine the completion, well treatment, production, or financial decision involving any risk. Any outcomes that are less than expected will not relieve COMPANY of its responsibility to pay for the Work in accordance with these T&Cs. 4.8 THE WARRANTIES PROVIDED IN THIS SECTION 4 ARE THE SOLE AND EXCLUSIVE WARRANTIES RELATING TO THE WORK AND ARE IN LIEU OF ANY AND ALL OTHER WARRANTIES WHETHER ORAL, WRITTEN, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WARRANTY OF MERCHANTABILITY AND WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. 5. ORDER CHANGES; PROJECT ADMINISTRATION. 5.1 COMPANY may ask for and CONTRACTOR may agree to variations in the Work, whether by way of addition, modification or omission, which variations shall be in writing and signed by authorized representatives of both parties. The value of any such variations shall be ascertained by reference to the prices and rates specified in the applicable Order for like or analogous Work; provided, however, that if there are no such prices and rates or if they are otherwise inapplicable, then the prices and rates set forth in the pricing proposal submitted by CONTRACTOR for such additional Work shall apply. 5.2 To acknowledge or document various events during the provision of the Work, a party may from time to time sign the other party's forms, such as Orders, delivery tickets, job tickets, invoices, or similar instruments used by the parties in the normal course of business. In the event of a conflict between these T&Cs and any such documents, these T&Cs shall control, unless specific reference is made that these T&Cs are modified and the intention to modify is explicitly stated in such documents. 5.3 It is understood and agreed between the parties that COMPANY's representative (appointed in accordance with Section 5.4 below) shall have the authority to approve any job tickets, delivery tickets, or similar forms attesting to the completion of the Work by CONTRACTOR ("Job Tickets"). A COMPANY representative's signature on such Tickets shall indicate acceptance of the Work. If the Job Tickets are not acknowledged within forty-eight (48) hours of receipt through no fault of CONTRACTOR, CONTRACTOR may submit invoices for payment as if such Tickets had been acknowledged. 5.4 COMPANY will appoint a representative who will be responsible for the supervision of the Work, and who shall have full authority to represent and make decisions on behalf of COMPANY with respect to the Work, or otherwise to resolve the day-to-day issues which may arise related to the Work. Likewise, CONTRACTOR shall designate a representative with similar responsibilities and authority to liaise with COMPANY's representative.
- 6. CONTRACTOR's EQUIPMENT. 6.1 Title to CONTRACTOR's equipment, including any lost, damaged, or confiscated equipment, shall remain in CONTRACTOR, and COMPANY shall have no right to assign, transfer, hypothecate, or remove such equipment from the place of its intended use without CONTRACTOR's prior written consent. 6.2 COMPANY shall be responsible for and agrees to compensate CONTRACTOR for all damages, losses, or any abnormal wear to CONTRACTOR GROUP's equipment: (i) while in COMPANY GROUP's care, custody or control, including while being transported by any member of COMPANY GROUP; (ii) as a result of operations conducted out of specifications at COMPANY GROUP's request, or in corrosive, abnormal temperatures or other



unusual conditions; (iii) due to fishing operations (if any); or (iv) if lost in the hole or damaged beyond repair while in the hole or used in the hole. COMPANY will replace such equipment or reimburse CONTRACTOR with the current replacement price of such equipment.

7. INDEMNITY.

7.1 Application of Indemnities. 7.1.1 In those matters in which a party is required by these T&Cs to RELEASE, DEFEND, PROTECT, INDEMNIFY, AND HOLD HARMLESS the other party and/or members of its respective Group, SUCH OBLIGATIONS SHALL, EXCEPT TO THE EXTENT EXPRESSLY PROVIDED OTHERWISE IN THESE T&CS, APPLY TO INDEMNITOR REGARDLESS OF THE CAUSE OR REASON, OR WHO MAY BE AT FAULT OR OTHERWISE RESPONSIBLE UNDER ANY CONTRACT, STATUTE, RULE, OR THEORY OF LAW, INCLUDING WITHOUT LIMITATION STRICT LIABILITY, TORT, BREACH OF DUTY (STATUTORY OR OTHERWISE), BREACH OF CONTRACT, BREACH OF REPRESENTATION OR WARRANTY, BREACH OF ANY SAFETY REQUIREMENT OR REGULATION, DUE TO ANY LATENT, PATENT, OR PRE-EXISTING DEFECTS OR CONDITIONS, IMPERFECTION OF MATERIAL, FAILURE OF EQUIPMENT, OR ANY LEGAL FAULT OR RESPONSIBILITY OF EITHER PARTY. INCLUDING THE SOLE, JOINT, AND/OR CONCURRENT NEGLIGENCE OR FAULT, WHETHER ACTIVE OR PASSIVE, OF THE INDEMNIFIED PARTY, OR OTHER PERSONS OR ENTITIES. 7.1.2 In the event these T&Cs are subject to the indemnity limitations in Chapter 127 of the Texas Civil Practice and Remedies Code (or any successor statute), and so long as such limitations are in force, each party covenants and agrees to support the mutual indemnity and release obligations contained herein by carrying insurance in an amount and of a type sufficient to cover their indemnity obligations. 7.1.3 Notwithstanding any provisions in these T&Cs to the contrary, the following provision applies where Work is to be performed in New Mexico or Wyoming, as applicable: to the extent this Section 7 is governed by New Mexico or Wyoming law, then the provisions herein shall be read not to include indemnification for the indemnified party's own negligence. 7.1.4 If any defense, indemnity, or insurance provision contained in these T&Cs conflicts with, is prohibited by or violates public policy under any federal, state or other law determined to be applicable to a particular situation arising or involving these T&Cs, it is understood and agreed that the conf

- 7.2 CONTRACTOR's Indemnification. CONTRACTOR shall be liable for, and hereby agrees to RELEASE, DEFEND, PROTECT, INDEMNIFY AND HOLD COMPANY GROUP HARMLESS from and against any and all Claims for personal or bodily injury to, sickness, disease or death of any member of CONTRACTOR GROUP, and any and all Claims for damage to or loss of any property of CONTRACTOR GROUP.
- 7.3 COMPANY's Indemnification. COMPANY shall be liable for, and hereby agrees to RELEASE, DEFEND, PROTECT, INDEMNIFY AND HOLD CONTRACTOR GROUP HARMLESS from and against any and all Claims for personal or bodily injury to, sickness, disease or death of any member of COMPANY GROUP, and any and all Claims for damage to or loss of any property of COMPANY GROUP.
 7.4 Pollution and Contamination; Catastrophic Damages or Losses. Notwithstanding each party's obligations pursuant to Sections 7.2 and 7.3 hereof, it is understood and agreed between the parties that the following additional terms shall apply: 7.4.1 (a) CONTRACTOR shall be liable for, and hereby agrees to RELEASE, DEFEND, PROTECT, INDEMNIFY AND HOLD COMPANY GROUP HARMLESS from and against any and all Claims arising from pollution or contamination, which originates above the surface of the land or water, and which shall directly result from or be caused by CONTRACTOR GROUP's equipment, vehicles, or other tools and instruments while in CONTRACTOR GROUP's sole care, custody or control, and shall assume all responsibility for control and removal of same; and (b) COMPANY shall be liable for, and hereby agrees to RELEASE, DEFEND, PROTECT, INDEMNIFY AND HOLD CONTRACTOR GROUP HARMLESS from and against any and all Claims arising from any and all pollution or contamination other than that described under Section 7.4.1 (a) above, and removal of same. 7.4.2 COMPANY shall be liable for, and hereby agrees to RELEASE, DEFEND, PROTECT, INDEMNIFY AND HOLD CONTRACTOR GROUP HARMLESS from and against any and all Claims arising from any and all catastrophic damages or losses, including but not limited to those on account of injury, destruction of, loss or impairment (i) of any formation, strata, or reservoir beneath the surface of the earth; (ii) of any property rights in or to oil, gas, or other mineral substance or water, or the quiet enjoyment thereof, including subsurface trespass; (iii) to the well or the hole, including its casing; (iv) from radioactive sources; and (v) fr
- 7.5 Incidental or Consequential Damages. Notwithstanding any provisions to the contrary in these T&Cs, neither party shall be liable to the other party for, and parties shall RELEASE, PROTECT, DEFEND, INDEMNIFY AND HOLD EACH OTHER HARMLESS from and against any special, punitive, indirect, incidental or consequential damages or losses suffered by the other party and its Group resulting from or arising, directly or indirectly, out of or in connection with the Work, including, without limitation, loss and/or deferral of production, loss of product, loss of use, loss of bargain, contract expectations, or opportunity to contract with others, loss of revenue, profit, or anticipated profit, loss of business, business interruption, or downtime, whether direct or indirect, and whether or not such loss was foreseeable at the time of placing of an Order.
- 8. INSURANCE. 8.1 CONTRACTOR and COMPANY agree, at their sole cost and expense, to procure and continuously maintain in full force and effect throughout the term of this Agreement the following insurance coverage which may be met by a combination of primary and excess/umbrella insurance: A. Statutory Workers' Compensation Insurance and Employer's Liability in the amount of \$1,000,000 per occurrence and in the aggregate; B. Commercial General Liability insurance providing for third party property damage and personal injury, including broad form contractual liability for any agreement and broad form property damage in the amount of \$1,000,000 per occurrence and \$2,000,000 in the aggregate; C. Owned and Non-Owned Automobile Liability Insurance for bodily injury and property damage combined single limit in the amount of \$1,000,000 per occurrence and in the aggregate; D. Excess/Umbrella Liability Insurance providing coverage in excess of the foregoing insurances in the amount of \$5,000,000 per occurrence and in the aggregate, excluding statutory insurance coverage. 8.2 Each party agrees that, to the extent it assumes liability herein, it shall endorse the above coverages to name the indemnified parties as additional insureds (except for Workers' Compensation), shall waive its right of subrogation against the indemnified parties and their insurers, and agrees that its insurance shall be primary to that carried by the indemnified parties and non-contributory as per negligence for third party Claims, and shall not contribute in case of any Claim of exhaustion of horizontal limits. 8.3 Each party shall furnish an insurance certificate to the other to evidence the insurance required herein, and such certificates shall contain an endorsement stating that the insurer will endeavor to provide a thirty (30) days prior written notice of alteration or material change to such coverage. All deductible amounts, premiums, franchise amounts, or other charges due with respect to each party's required insurance should be the sole obligation of the insured party. 9. CONFIDENTIALITY. Each party contemplates that the other party may be provided and exposed to confidential and proprietary information ("Confidential Information"), which includes information relating to specifications of its tools, designs, inventions, component parts, parts list, software, firmware, hardware, processes, computer interfaces, operational parameters, and terms and pricing of Work. All Confidential Information shall remain the property of the party disclosing the same and no license is granted to the receiving party by virtue of the provision of such information. Confidential Information shall (i) be used by the recipient solely for the purpose of the provision of the Work and (ii) kept confidential and not disclosed to any person, except authorized representatives of the receiving Party, without written permission of the disclosing party. The receiving party shall take all reasonable steps to require its authorized representatives to keep such information confidential during and after the Work. Confidential Information shall not include information which: (i) at the time of placement of the Order is in the public domain or subsequently comes into the public domain through no fault of the receiving party and not in breach of these T&Cs; (ii) was already known to the receiving party on the date of disclosure, provided that such prior knowledge can be substantiated and proved by documentation; or (iii) properly and lawfully available to the receiving party from sources independent of the disclosing party.
- 10. INTELLECTUAL PROPERTY. While performing the Work, CONTRACTOR may utilize CONTRACTOR's intellectual property (including, without limitation, copyrights, registered marks, trademarks, service marks, patents, know-how, trade secrets, inventions, discoveries, techniques. techniques. technical information, technologies, designs, software, computer programs, formulae, calculations, computations, expertise, ideas, concepts, improvements, sketches, drawings, models, methods, practices, and/or processes, whether patentable or not) and/or develop, conceive, create, acquire, obtain, collect, generate, or make such additional intellectual property, which is and shall be CONTRACTOR's exclusive property. Except if expressly and specifically agreed in writing in a separate development agreement executed by the parties, and in exchange for appropriate payment, CONTRACTOR shall not develop any intellectual property for ownership by COMPANY in association with Work performed under a specific Order. Notwithstanding the foregoing, COMPANY GROUP shall own any intellectual property solely developed by COMPANY or COMPANY GROUP, respectively.
- 11. FORCE MAJEURE. 11.1 "Force Majeure" means (to the extent and only to the extent that any of the following are not reasonably within the control of the party claiming a Force Majeure and by the exercise of due diligence such party could not have mitigated, avoided, or overcome such condition) acts of God, fire, floods, lightning, blizzards, tornadoes, earthquakes, ice storms, named tropical storms and hurricanes, pandemics, terrorism, insurrection, revolution, war, strikes, lockouts, federal or state laws, rules and regulations of any governmental or public authorities having or asserting jurisdiction over the premises of either or both parties, inability to procure material due to industry wide shortages or soaring commodity costs, equipment, or necessary labor despite reasonable efforts, or similar causes. 11.2 If a party is rendered unable, wholly or in part, by a Force Majeure event to perform, that party will give written notice detailing such Force Majeure event to the other party as soon as reasonably possible. If a Force Majeure event continues without interruption for ten (10) days, either Party may cancel the applicable Order by giving prompt, written cancellation notice to the other party. Nothing in this Section 14.2 shall excuse COMPANY from its payment obligations of any invoices due and owing for Work performed under a specific Order.
- 12. <u>LIMITATION OF LIABILITY.</u> Notwithstanding anything to the contrary in these T&Cs, CONTRACTOR's liability arising from or in connection with its performance of the Work shall be limited to the value of the consideration paid to CONTRACTOR under the applicable Order.
- 13. GOVERNING LAW; VENUE. 13.1 For Work performed on a worksite within the United States, these T&Cs shall be exclusively governed by the laws of the State of Texas, excluding any conflict of laws principle that would refer to the laws of another jurisdiction. Venue shall lie exclusively in the state or federal courts of Harris County, Texas, and the parties consent to personal



jurisdiction therein. 13.2 For Work performed on a worksite within Canada, these T&Cs shall be exclusively governed by the laws of Province of Alberta, excluding any conflict of laws principle that would refer to the laws of another jurisdiction.

14. MISCELLANEOUS. 14.1 Notices. Notices shall be sent by registered post, or delivered in person, to the address for notices communicated by the other party. Said notices shall be deemed received (i) upon delivery if hand delivered, (ii) upon delivery if sent by registered post, and (iii) upon recipient's confirmation of receipt if faxed. 14.2 Waiver. No benefit or right accruing to either party under these T&Cs shall be deemed to be waived unless the waiver is in writing, expressly refers to these T&Cs, and is signed by a duly authorized representative of both parties. A waiver in any one or more instances shall not constitute a continuing waiver, unless specifically so stated in the written waiver. 14.3 Severability. In the event one or more of the provisions contained in these T&Cs shall be held, for any reason, to be invalid, void, illegal, contrary to law and/or unenforceable in any respect, these T&Cs shall be deemed to be amended to partially or completely modify such provision or portion thereof to the extent necessary to make it enforceable. If necessary, these T&Cs shall be deemed to be amended to delete the unenforceable provision or portion thereof, in which event such invalidity, illegality or unenforceability shall not affect the remaining provisions hereof, and these T&Cs shall remain unaffected and shall be construed as if such invalid, void, illegal or unenforceable provision never had been contained herein. 14.4 Independent Representation. COMPANY AND CONTRACTOR ACKNOWLEDGE THAT THEY HAVE CONSULTED AN ATTORNEY CONCERNING THESE T&Cs OR HAVE ELECTED NOT TO DO SO, BUT REPRESENT THAT THEY FULLY UNDERSTAND THEIR RIGHTS AND OBLIGATIONS HEREUNDER

Company:		
Signature:	 	
Name:		
Title:		
Date:		



Coterra Energy Inc. CEMENT PROPOSAL #81457

Intermediate Proposal

Royal Oak 25 Fed Com #501H 30-025-52844 S:25 T:18S R:33E Lea NM

February 06, 2025

* AMERICAN

Intermediate Proposal

CEMENT PROPOSAL

Attention: Kyle Adamek | (660) 247-2024 | kyle@deepenergyllc.com Coterra Energy Inc. 202 S. Cheyenne Ave Suite 1000 | Tulsa, OK 74103 February 06, 2025

Dear Kyle Adamek,

Thank you for the opportunity to submit pricing for cementing services on the attached wellbore. American Cementing's priority is to provide premium customer service while operating in a safe, efficient manner. If you have any questions regarding the proposal or services offered, please contact American Cementing at any time.

Sincerely,

Will Bautista
Sales | (432) 254-0261 | will.bautista@americancementing.com

Prepared By
Meseret Belayneh
Field Engineer III | (801) 513-8231 | meseret.belayneh@americancementing.com

Field Office 6165 W Murphy St, Odessa, TX 79763

Phone: (432) 208-6452

Disclaimer

- 1. Proposal is valid for 30 days
- 2. Proposal is for pricing purposes only; actual job procedure to be confirmed prior to job
- 3. American Cementing recommends proper hole conditioning prior to initiating cementing; please discuss procedures with your American Cementing representative
- 4. Applicable sales tax will be added to the final invoice
- 5. American Cementing's general terms and conditions are hereby incorporated into this Proposal

Intermediate Proposal

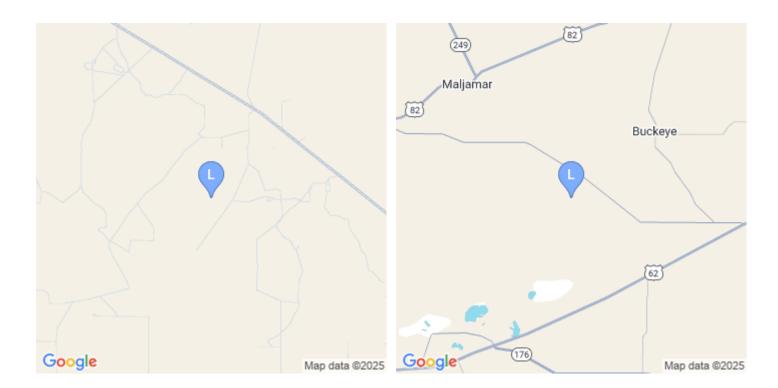


Well Information

Well Name: Royal Oak 25 Fed Com #501H

Well API: **30-025-52844** Latitude: **32.725047** Longitude: **-103.620900**

Section: 25 Township: 18S Range: 33E County: Lea, NM



Intermediate Proposal



Job: Intermediate (Intermediate) - Well Information

Drilling Fluid Density: 10.00 lb/gal

Drilling Fluid: WBM

Total Measured Depth: **5593 ft** Total Vertical Depth: **5593 ft**

BHCT: **109** °F BHST: **130** °F

Temperature Gradient: 0.90 °F/100ft

Surface Temp: 80 °F

Geometry

#	Туре	Function	OD (in)	ID (in)	Weight	Grade	Thread	Тор	Bottom	Excess
					(lb/ft)					(%)
1	Casing	Outer	13.375	12.615	54.50		n/a	0	1653	0.0
2	OpenHole	Outer		12.250			n/a	1653	4474	20.0
3	OpenHole	Outer		12.250			n/a	4474	5593	20.0
1	Casing	Inner	9.625	8.835	40.00		n/a	0	5593	0.0

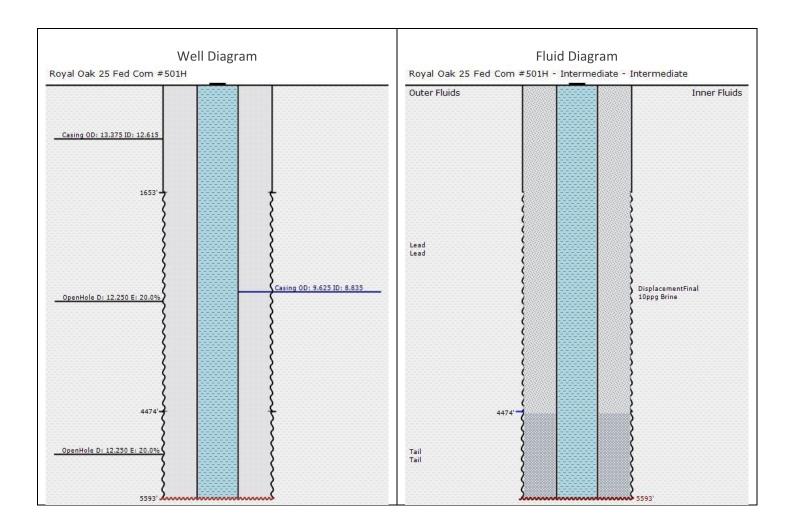
Capacities

Excess added to Capacity Factor

Туре	TopDepth (ft)	Length (ft)	OD (in)	ID (in)	Capacity (bbl/ft)	Capacity (ft ^{3/ft)}	Fill (ft/bbl)	Fill (ft/ft ³⁾
DisplacementFinal	0	5508	8.835	0.000	0.0758	0.4257	13.19	2.35
ShoeJoint	5508	85	8.835	0.000	0.0758	0.4257	13.19	2.35
Casing to OpenHole	4474	1119	12.250	9.625	0.0669	0.3758	14.94	2.66
Casing to OpenHole	1653	2821	12.250	9.625	0.0669	0.3758	14.94	2.66
Casing to Casing	0	1653	12.615	9.625	0.0646	0.3627	15.48	2.76



Job: Intermediate (Intermediate) - Well & Fluid Diagrams



Intermediate Proposal



Job: Intermediate (Intermediate) - Material Information

Pump	Туре	Fluid	Fluid Top	Density	Water Req.	Yield	Proposed	Proposed
Order			(ft)	(lb/gal)	(gal/bbl)	(ft ^{3/sk)}	Volume (sks)	Volume (bbl)
1	Flush	Fresh Water	0.00	8.34	42.0	n/a		20.00

Pump Order	Туре	Fluid	Fluid Top (ft)	Density (lb/gal)	Water Req. (gal/sk)	Yield (ft ^{3/sk)}	Proposed Volume (sks)	Proposed Volume (bbl)
2	Lead	Lead	0.00	12.50	12.4	2.17	766	295.81

CEMENT, CLASS C, HSR - Cement - 100.000 %

Cement Additive, Sodium Metasilicate A-2 - Accelerator - 2.000 %BWOB

SALT, SODIUM CHLORIDE, A-5 - Accelerator - 3.000 %BWOW

FOAM PREVENTER, FP-28L - Defoamer - 0.005 gal/sk

RETARDER, R-7C - Retarder - 0.430 %BWOB

ANTI STATIC ADDITIVE, STATIC FREE - Other - 0.005 lb/sk

Pump	Туре	Fluid	Fluid Top	Density	Water Req.	Yield (ft ^{3/sk)}	Proposed	Proposed
Order			(ft)	(lb/gal)	(gal/sk)	(ITS) SIC)	Volume (sks)	Volume (bbl)
3	Tail	Tail	4474.00	14.80	6.3	1.33	344	81.41

CEMENT, CLASS C, HSR - Cement - 100.000 %

Cement Additive, Sodium Metasilicate A-2 - Accelerator - 0.250 %BWOB

FOAM PREVENTER, FP-28L - Defoamer - 0.005 gal/sk

RETARDER, R-7C - Retarder - 0.050 %BWOB

Pump Order	Туре	Fluid	Fluid Top (ft)	Density (lb/gal)	Water Req. (gal/bbl)	Yield (ft ^{3/sk)}	Proposed Volume (sks)	Proposed Volume (bbl)
4	DisplacementFinal	10ppg Brine	0.00	8.34	42.0	n/a	, ,	418.00

Job: Intermediate (Intermediate) - Pump Schedule

Sequence	Туре	Fluid	Density (lb/gal)	Pump Rate (bpm)	Volume (bbls)	Volume (sks)	Cum. Vol. (bbls)	Stage Time (min)	Cum. Time (min)
1	Flush	Fresh Water	8.34	5.00	20.00		20.00	4.00	4.00
2	Lead	Lead	12.50	5.00	295.81	766	315.81	59.16	63.16
3	Tail	Tail	14.80	5.00	81.41	344	397.22	16.28	79.44
4	DisplacementFinal	10ppg Brine	8.34	5.00	418.00		815.22	83.60	163.04

Released to Imaging: 2/20/2025 11:23:42 AM





General Terms and Conditions

AMERICAN CEMENTING, LLC TERMS AND CONDITIONS

These Terms and Conditions (these "T&Cs") contain INDEMNIFICATION, LIMITATION OF LIABILITY AND RISK SHIFTING PROVISIONS. The provision of Work by American Cementing, LLC or its affiliated companies ("Contractor" or "American") to any person or entity placing an Order for such Work ("Company" or "Customer") is subject to these T&Cs. By requesting the Work, Company voluntarily elects to enter into and be bound by these T&Cs, and any Order for Work shall constitute acceptance of these T&Cs, unless Contractor and Company have entered into a Master Service Agreement or other agreement expressly accepted in writing by Contractor's authorized representative, in which case the terms and conditions of such agreements shall govern the provision of the Work and completely supersede these T&Cs in all respects.

- 1. <u>DEFINITIONS</u>. "Claims" means all claims, lawsuits, demands, causes of action, liabilities, damages (including punitive damages), judgments, awards, fines, penalties, losses, costs, expenses (including, without limitation, reasonable attorneys' fees, expert fees, and costs of litigation) of any kind or character, without limit, which arise out of or are related to the Work. "COMPANY GROUP" means (i) COMPANY, and any of its parent, subsidiary and affiliated or related entities; (ii) the working interest owners, co-owners, co-lesses, co-lessors, partners and joint venturers of (i); (iii) any person or entity with an economic interest or property rights in the well, premises or the property in relation to or upon which Work is performed; and (iv) the officers, directors employees, shareholders, agents, representatives, contractors (except CONTRACTOR), subcontractors, consultants, and invitees of (i), (ii) and (iii) above. "CONTRACTOR GROUP" means (i) CONTRACTOR and any of its subsidiary and affiliated or related entities; and (ii) the officers, directors, employees, shareholders, agents, representatives, contractors, subcontractors, consultants, and invitees of all of the foregoing. "Order" means a written or verbal request for specific Work, including by way of a purchase order, work order, service order, work authorization, or similar instrument issued by COMPANY to CONTRACTOR, and which shall incorporate the pricing proposal submitted by CONTRACTOR for such Work. A request will be considered written if exchanges, whether by correspondence, letter, fax, or email include all material terms and conditions and they have been accepted or ratified by both COMPANY and CONTRACTOR; provided, however, if verbal, such request shall control. "Work" means any cementing services and other related services provided by CONTRACTOR, along with all related personnel, equipment, machinery, tools, supplies, materials, vehicles, facilities, consumables, goods, and any other items used in connection with such services.
- 2. <u>INDEPENDENT CONTRACTOR</u>. This Agreement does not create any agency, partnership, joint venture, or similar business relationship between parties. COMPANY will have the right generally to oversee and inspect the performance of the Work to ensure the reasonable satisfactory completion thereof; it being understood and agreed that CONTRACTOR shall have exclusive control over the operational details of the Work.
- 3. PRICING AND PAYMENT. 3.1 COMPANY will pay CONTRACTOR for the Work according to the prices and rates contained the applicable Order; provided, however, that if there are no such prices and rates, then the prices and rates set forth in the pricing proposal submitted by CONTRACTOR for the Work shall apply. The pricing proposals submitted by CONTRACTOR are generally valid sixty (60) days from submission of such proposal, unless otherwise set forth in such pricing proposal. Notwithstanding the foregoing, before commencing the Work and until an agreement is reached between the parties regarding such prices and rates, CONTRACTOR has the right to revise and shall advise COMPANY of any changes in the pricing proposal, and COMPANY may either accept or reject such changes, and proceed with the Work or not. 3.2 COMPANY shall pay CONTRACTOR's invoices within thirty (30) days of receipt of invoice. In the event COMPANY disputes any amount, it shall do so in good faith and shall notify CONTRACTOR of such dispute within thirty (30) days of receipt of invoice, provided, however, that COMPANY shall pay any undisputed portion of the invoice within the time for payment noted above and shall endeavor to expeditiously resolve such disputes. Any undisputed invoices, remaining unpaid for sixty (60) days after receipt by COMPANY, shall accrue interest at the rate of 1.5% per month or the maximum interest rate allowed by applicable law, whichever is less, through the time of collection. 3.3 Prices quoted by CONTRACTOR do not include sales, VAT, use or similar taxes, and such taxes, where applicable, shall be added to the quoted prices and invoiced accordingly. Each party shall pay all taxes levied or assessed by any governmental authority in connection with or incident to its performance under an Order; provided, however, that CONTRACTOR shall pay any assessments or taxes upon wages of CONTRACTOR, social security, unemployment insurance, old age benefits, or any other employment taxes, contributions or withholdings.
- 4. ORDERS; STANDARD OF PERFORMANCE; WARRANTIES. 4.1 COMPANY may from time to time place an Order for Work, and CONTRACTOR may provide such Work to COMPANY, subject to these T&Cs. Orders shall become binding only after signed or acknowledged by an authorized representative of each party. 4.2 CONTRACTOR shall provide all labor, equipment, machinery, tools, supplies, materials, vehicles, facilities, consumables, goods, and any other items required for the execution and completion of the Work, as more fully described in the applicable Order. 4.3 CONTRACTOR shall perform the Work with due diligence and care, in a good and workmanlike manner, using skilled, competent, experienced, and, where applicable, licensed personnel in accordance with the specifications represented by CONTRACTOR and with generally accepted oilfield practices. 4.4 CONTRACTOR shall conduct its Work, in all material respects, in accordance with all applicable laws, rules, regulations, decrees, and/or official government orders of any governing body having jurisdiction over the Work. 4.5 CONTRACTOR's Work is designed to operate under conditions normally encountered in a wellbore. COMPANY shall notify CONTRACTOR in advance and make special arrangements for Work in which hazardous or unusual conditions exist. COMPANY has complete care, custody, and control of the well, the premises around the well, and the drilling and production equipment of the well (other than such equipment provided by CONTRACTOR hereunder), and Company shall furnish directions and requirements for Work performed hereunder. CONTRACTOR is relying on COMPANY to provide such directions and requirements without further investigation by CONTRACTOR. CONTRACTOR agrees to observe and abide by COMPANY's safety policies and procedures communicated to and acknowledged by CONTRACTOR. CONTRACTOR shall as promptly as possible under the circumstances report to COMPANY's representative all accidents or occurrences resulting in injuries, illness or death to person(s) or damage to property, arising out of or occurring during the Work. 4.6 CONTRACTOR's sole liability, and COMPANY's exclusive remedy, for any Claims for breach of warranty under this Section 4 are limited to, at CONTRACTOR's sole option, (i) if practical, the re-performance of the defective Work or portion thereof, at no additional cost to COMPANY; or (ii) a refund or credit to COMPANY of any amount paid to CONTRACTOR for such defective Work or portion thereof. In the event that CONTRACTOR materially fails to perform the Work or if CONTRACTOR provides defective Work for reasons solely within CONTRACTOR's control, COMPANY shall give notice to CONTRACTOR of such non-performance or defective performance immediately upon discovery and prior to CONTRACTOR's departure from the worksite, otherwise such warranty Claim is waived. 4.7 Due to the nature of the Work to be performed in unpredictable wellbore conditions, CONTRACTOR does not warrant the accuracy, correctness, or completeness of any interpretations, analysis, recommendations, or advice, nor that COMPANY's or any third party's reliance on such interpretations, analysis, recommendations, or advice will accomplish any particular results, and which in any event are opinions only. Accordingly, it is COMPANY's responsibility, and sole risk, to determine the completion, well treatment, production, or financial decision involving any risk. Any outcomes that are less than expected will not relieve COMPANY of its responsibility to pay for the Work in accordance with these T&Cs. 4.8 THE WARRANTIES PROVIDED IN THIS SECTION 4 ARE THE SOLE AND EXCLUSIVE WARRANTIES RELATING TO THE WORK AND ARE IN LIEU OF ANY AND ALL OTHER WARRANTIES WHETHER ORAL, WRITTEN, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WARRANTY OF MERCHANTABILITY AND WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. 5. ORDER CHANGES; PROJECT ADMINISTRATION. 5.1 COMPANY may ask for and CONTRACTOR may agree to variations in the Work, whether by way of addition, modification or omission, which variations shall be in writing and signed by authorized representatives of both parties. The value of any such variations shall be ascertained by reference to the prices and rates specified in the applicable Order for like or analogous Work; provided, however, that if there are no such prices and rates or if they are otherwise inapplicable, then the prices and rates set forth in the pricing proposal submitted by CONTRACTOR for such additional Work shall apply. 5.2 To acknowledge or document various events during the provision of the Work, a party may from time to time sign the other party's forms, such as Orders, delivery tickets, job tickets, invoices, or similar instruments used by the parties in the normal course of business. In the event of a conflict between these T&Cs and any such documents, these T&Cs shall control, unless specific reference is made that these T&Cs are modified and the intention to modify is explicitly stated in such documents. 5.3 It is understood and agreed between the parties that COMPANY's representative (appointed in accordance with Section 5.4 below) shall have the authority to approve any job tickets, delivery tickets, or similar forms attesting to the completion of the Work by CONTRACTOR ("Job Tickets"). A COMPANY representative's signature on such Tickets shall indicate acceptance of the Work. If the Job Tickets are not acknowledged within forty-eight (48) hours of receipt through no fault of CONTRACTOR, CONTRACTOR may submit invoices for payment as if such Tickets had been acknowledged. 5.4 COMPANY will appoint a representative who will be responsible for the supervision of the Work, and who shall have full authority to represent and make decisions on behalf of COMPANY with respect to the Work, or otherwise to resolve the day-to-day issues which may arise related to the Work. Likewise, CONTRACTOR shall designate a representative with similar responsibilities and authority to liaise with COMPANY's representative.
- 6. CONTRACTOR's EQUIPMENT. 6.1 Title to CONTRACTOR's equipment, including any lost, damaged, or confiscated equipment, shall remain in CONTRACTOR, and COMPANY shall have no right to assign, transfer, hypothecate, or remove such equipment from the place of its intended use without CONTRACTOR's prior written consent. 6.2 COMPANY shall be responsible for and agrees to compensate CONTRACTOR for all damages, losses, or any abnormal wear to CONTRACTOR GROUP's equipment: (i) while in COMPANY GROUP's care, custody or control, including while being transported by any member of COMPANY GROUP; (ii) as a result of operations conducted out of specifications at COMPANY GROUP's request, or in corrosive, abnormal temperatures or other



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unusual conditions; (iii) due to fishing operations (if any); or (iv) if lost in the hole or damaged beyond repair while in the hole or used in the hole. COMPANY will replace such equipment or reimburse CONTRACTOR with the current replacement price of such equipment.

7. INDEMNITY.

7.1 Application of Indemnities. 7.1.1 In those matters in which a party is required by these T&Cs to RELEASE, DEFEND, PROTECT, INDEMNIFY, AND HOLD HARMLESS the other party and/or members of its respective Group, SUCH OBLIGATIONS SHALL, EXCEPT TO THE EXTENT EXPRESSLY PROVIDED OTHERWISE IN THESE T&CS, APPLY TO INDEMNITOR REGARDLESS OF THE CAUSE OR REASON, OR WHO MAY BE AT FAULT OR OTHERWISE RESPONSIBLE UNDER ANY CONTRACT, STATUTE, RULE, OR THEORY OF LAW, INCLUDING WITHOUT LIMITATION STRICT LIABILITY, TORT, BREACH OF DUTY (STATUTORY OR OTHERWISE), BREACH OF CONTRACT, BREACH OF REPRESENTATION OR WARRANTY, BREACH OF ANY SAFETY REQUIREMENT OR REGULATION, DUE TO ANY LATENT, PATENT, OR PRE-EXISTING DEFECTS OR CONDITIONS, IMPERFECTION OF MATERIAL, FAILURE OF EQUIPMENT, OR ANY LEGAL FAULT OR RESPONSIBILITY OF EITHER PARTY. INCLUDING THE SOLE, JOINT, AND/OR CONCURRENT NEGLIGENCE OR FAULT, WHETHER ACTIVE OR PASSIVE, OF THE INDEMNIFIED PARTY, OR OTHER PERSONS OR ENTITIES. 7.1.2 In the event these T&Cs are subject to the indemnity limitations in Chapter 127 of the Texas Civil Practice and Remedies Code (or any successor statute), and so long as such limitations are in force, each party covenants and agrees to support the mutual indemnity and release obligations contained herein by carrying insurance in an amount and of a type sufficient to cover their indemnity obligations. 7.1.3 Notwithstanding any provisions in these T&Cs to the contrary, the following provision applies where Work is to be performed in New Mexico or Wyoming, as applicable: to the extent this Section 7 is governed by New Mexico or Wyoming law, then the provisions herein shall be read not to include indemnification for the indemnified party's own negligence. 7.1.4 If any defense, indemnity, or insurance provision contained in these T&Cs conflicts with, is prohibited by or violates public policy under any federal, state or other law determined to be applicable to a particular situation arising or involving these T&Cs, it is understood and agreed that the conf

- 7.2 CONTRACTOR's Indemnification. CONTRACTOR shall be liable for, and hereby agrees to RELEASE, DEFEND, PROTECT, INDEMNIFY AND HOLD COMPANY GROUP HARMLESS from and against any and all Claims for personal or bodily injury to, sickness, disease or death of any member of CONTRACTOR GROUP, and any and all Claims for damage to or loss of any property of CONTRACTOR GROUP
- 7.3 COMPANY's Indemnification. COMPANY shall be liable for, and hereby agrees to RELEASE, DEFEND, PROTECT, INDEMNIFY AND HOLD CONTRACTOR GROUP HARMLESS from and against any and all Claims for personal or bodily injury to, sickness, disease or death of any member of COMPANY GROUP, and any and all Claims for damage to or loss of any property of COMPANY GROUP.
 7.4 Pollution and Contamination; Catastrophic Damages or Losses. Notwithstanding each party's obligations pursuant to Sections 7.2 and 7.3 hereof, it is understood and agreed between the parties that the following additional terms shall apply: 7.4.1 (a) CONTRACTOR shall be liable for, and hereby agrees to RELEASE, DEFEND, PROTECT, INDEMNIFY AND HOLD COMPANY GROUP HARMLESS from and against any and all Claims arising from pollution or contamination, which originates above the surface of the land or water, and which shall directly result from or be caused by CONTRACTOR GROUP's equipment, vehicles, or other tools and instruments while in CONTRACTOR GROUP's sole care, custody or control, and shall assume all responsibility for control and removal of same; and (b) COMPANY shall be liable for, and hereby agrees to RELEASE, DEFEND, PROTECT, INDEMNIFY AND HOLD CONTRACTOR GROUP HARMLESS from and against any and all Claims arising from any and all pollution or contamination other than that described under Section 7.4.1 (a) above, and removal of same. 7.4.2 COMPANY shall be liable for, and hereby agrees to RELEASE, DEFEND, PROTECT, INDEMNIFY AND HOLD CONTRACTOR GROUP HARMLESS from and against any and all Claims arising from any and all catastrophic damages or losses, including but not limited to those on account of injury, destruction of, loss or impairment (i) of any formation, strata, or reservoir beneath the surface of the earth; (ii) of any property rights in or to oil, gas, or other mineral substance or water, or the quiet enjoyment thereof, including subsurface trespass; (iii) to the well or the hole, including its casing; (iv) from radioactive sources; and (v) fr
- 7.5 Incidental or Consequential Damages. Notwithstanding any provisions to the contrary in these T&Cs, neither party shall be liable to the other party for, and parties shall RELEASE, PROTECT, DEFEND, INDEMNIFY AND HOLD EACH OTHER HARMLESS from and against any special, punitive, indirect, incidental or consequential damages or losses suffered by the other party and its Group resulting from or arising, directly or indirectly, out of or in connection with the Work, including, without limitation, loss and/or deferral of production, loss of product, loss of use, loss of bargain, contract expectations, or opportunity to contract with others, loss of revenue, profit, or anticipated profit, loss of business, business interruption, or downtime, whether direct or indirect, and whether or not such loss was foreseeable at the time of placing of an Order.
- 8. INSURANCE. 8.1 CONTRACTOR and COMPANY agree, at their sole cost and expense, to procure and continuously maintain in full force and effect throughout the term of this Agreement the following insurance coverage which may be met by a combination of primary and excess/umbrella insurance: A. Statutory Workers' Compensation Insurance and Employer's Liability in the amount of \$1,000,000 per occurrence and in the aggregate; B. Commercial General Liability insurance providing for third party property damage and personal injury, including broad form contractual liability for any agreement and broad form property damage in the amount of \$1,000,000 per occurrence and \$2,000,000 in the aggregate; C. Owned and Non-Owned Automobile Liability Insurance for bodily injury and property damage combined single limit in the amount of \$1,000,000 per occurrence and in the aggregate; D. Excess/Umbrella Liability Insurance providing coverage in excess of the foregoing insurances in the amount of \$5,000,000 per occurrence and in the aggregate, excluding statutory insurance coverage. 8.2 Each party agrees that, to the extent it assumes liability herein, it shall endorse the above coverages to name the indemnified parties as additional insureds (except for Workers' Compensation), shall waive its right of subrogation against the indemnified parties and their insurers, and agrees that its insurance shall be primary to that carried by the indemnified parties and non-contributory as per negligence for third party Claims, and shall not contribute in case of any Claim of exhaustion of horizontal limits. 8.3 Each party shall furnish an insurance certificate to the other to evidence the insurance required herein, and such certificates shall contain an endorsement stating that the insurer will endeavor to provide a thirty (30) days prior written notice of alteration or material change to such coverage. All deductible amounts, premiums, franchise amounts, or other charges due with respect to each party's required insurance should be the sole obligation of the insured party. 9. CONFIDENTIALITY. Each party contemplates that the other party may be provided and exposed to confidential and proprietary information ("Confidential Information"), which includes information relating to specifications of its tools, designs, inventions, component parts, parts list, software, firmware, hardware, processes, computer interfaces, operational parameters, and terms and pricing of Work. All Confidential Information shall remain the property of the party disclosing the same and no license is granted to the receiving party by virtue of the provision of such information. Confidential Information shall (i) be used by the recipient solely for the purpose of the provision of the Work and (ii) kept confidential and not disclosed to any person, except authorized representatives of the receiving Party, without written permission of the disclosing party. The receiving party shall take all reasonable steps to require its authorized representatives to keep such information confidential during and after the Work. Confidential Information shall not include information which: (i) at the time of placement of the Order is in the public domain or subsequently comes into the public domain through no fault of the receiving party and not in breach of these T&Cs; (ii) was already known to the receiving party on the date of disclosure, provided that such prior knowledge can be substantiated and proved by documentation; or (iii) properly and lawfully available to the receiving party from sources independent of the disclosing party.
- 10. INTELLECTUAL PROPERTY. While performing the Work, CONTRACTOR may utilize CONTRACTOR's intellectual property (including, without limitation, copyrights, registered marks, trademarks, service marks, patents, know-how, trade secrets, inventions, discoveries, techniques. techniques. technical information, technologies, designs, software, computer programs, formulae, calculations, computations, expertise, ideas, concepts, improvements, sketches, drawings, models, methods, practices, and/or processes, whether patentable or not) and/or develop, conceive, create, acquire, obtain, collect, generate, or make such additional intellectual property, which is and shall be CONTRACTOR's exclusive property. Except if expressly and specifically agreed in writing in a separate development agreement executed by the parties, and in exchange for appropriate payment, CONTRACTOR shall not develop any intellectual property for ownership by COMPANY in association with Work performed under a specific Order. Notwithstanding the foregoing, COMPANY GROUP shall own any intellectual property solely developed by COMPANY or COMPANY GROUP, respectively.
- 11. FORCE MAJEURE. 11.1 "Force Majeure" means (to the extent and only to the extent that any of the following are not reasonably within the control of the party claiming a Force Majeure and by the exercise of due diligence such party could not have mitigated, avoided, or overcome such condition) acts of God, fire, floods, lightning, blizzards, tornadoes, earthquakes, ice storms, named tropical storms and hurricanes, pandemics, terrorism, insurrection, revolution, war, strikes, lockouts, federal or state laws, rules and regulations of any governmental or public authorities having or asserting jurisdiction over the premises of either or both parties, inability to procure material due to industry wide shortages or soaring commodity costs, equipment, or necessary labor despite reasonable efforts, or similar causes. 11.2 If a party is rendered unable, wholly or in part, by a Force Majeure event to perform, that party will give written notice detailing such Force Majeure event to the other party as soon as reasonably possible. If a Force Majeure event continues without interruption for ten (10) days, either Party may cancel the applicable Order by giving prompt, written cancellation notice to the other party. Nothing in this Section 14.2 shall excuse COMPANY from its payment obligations of any invoices due and owing for Work performed under a specific Order.
- 12. <u>LIMITATION OF LIABILITY</u>. Notwithstanding anything to the contrary in these T&Cs, CONTRACTOR's liability arising from or in connection with its performance of the Work shall be limited to the value of the consideration paid to CONTRACTOR under the applicable Order.
- 13. GOVERNING LAW; VENUE. 13.1 For Work performed on a worksite within the United States, these T&Cs shall be exclusively governed by the laws of the State of Texas, excluding any conflict of laws principle that would refer to the laws of another jurisdiction. Venue shall lie exclusively in the state or federal courts of Harris County, Texas, and the parties consent to personal



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jurisdiction therein. 13.2 For Work performed on a worksite within Canada, these T&Cs shall be exclusively governed by the laws of Province of Alberta, excluding any conflict of laws principle that would refer to the laws of another jurisdiction.

14. MISCELLANEOUS. 14.1 Notices. Notices shall be sent by registered post, or delivered in person, to the address for notices communicated by the other party. Said notices shall be deemed received (i) upon delivery if hand delivered, (ii) upon delivery if sent by registered post, and (iii) upon recipient's confirmation of receipt if faxed. 14.2 Waiver. No benefit or right accruing to either party under these T&Cs shall be deemed to be waived unless the waiver is in writing, expressly refers to these T&Cs, and is signed by a duly authorized representative of both parties. A waiver in any one or more instances shall not constitute a continuing waiver, unless specifically so stated in the written waiver. 14.3 Severability. In the event one or more of the provisions contained in these T&Cs shall be held, for any reason, to be invalid, void, illegal, contrary to law and/or unenforceable in any respect, these T&Cs shall be deemed to be amended to partially or completely modify such provision or portion thereof to the extent necessary to make it enforceable. If necessary, these T&Cs shall be deemed to be amended to delete the unenforceable provision or portion thereof, in which event such invalidity, illegality or unenforceability shall not affect the remaining provisions hereof, and these T&Cs shall remain unaffected and shall be construed as if such invalid, void, illegal or unenforceable provision never had been contained herein. 14.4 Independent Representation. COMPANY AND CONTRACTOR ACKNOWLEDGE THAT THEY HAVE CONSULTED AN ATTORNEY CONCERNING THESE T&Cs OR HAVE ELECTED NOT TO DO SO, BUT REPRESENT THAT THEY FULLY UNDERSTAND THEIR RIGHTS AND OBLIGATIONS HEREUNDER

Company:	
Signature:	
Name:	
Title:	
Date:	



Coterra Energy Inc. CEMENT PROPOSAL #81475

Long String Proposal

Royal Oak 25 Fed Com #501H 30-025-52844 S:25 T:18S R:33E Lea NM

February 06, 2025

AMERICAN CEMENTING

Long String Proposal

CEMENT PROPOSAL

Attention: Kyle Adamek | (660) 247-2024 | kyle@deepenergyllc.com Coterra Energy Inc. 202 S. Cheyenne Ave Suite 1000 | Tulsa, OK 74103 February 06, 2025

Dear Kyle Adamek,

Thank you for the opportunity to submit pricing for cementing services on the attached wellbore. American Cementing's priority is to provide premium customer service while operating in a safe, efficient manner. If you have any questions regarding the proposal or services offered, please contact American Cementing at any time.

Sincerely,

Will Bautista
Sales | (432) 254-0261 | will.bautista@americancementing.com

Prepared By
Meseret Belayneh
Field Engineer III | (801) 513-8231 | meseret.belayneh@americancementing.com

Field Office 6165 W Murphy St, Odessa, TX 79763

Phone: (432) 208-6452

Disclaimer

- 1. Proposal is valid for 30 days
- 2. Proposal is for pricing purposes only; actual job procedure to be confirmed prior to job
- 3. American Cementing recommends proper hole conditioning prior to initiating cementing; please discuss procedures with your American Cementing representative
- 4. Applicable sales tax will be added to the final invoice
- 5. American Cementing's general terms and conditions are hereby incorporated into this Proposal

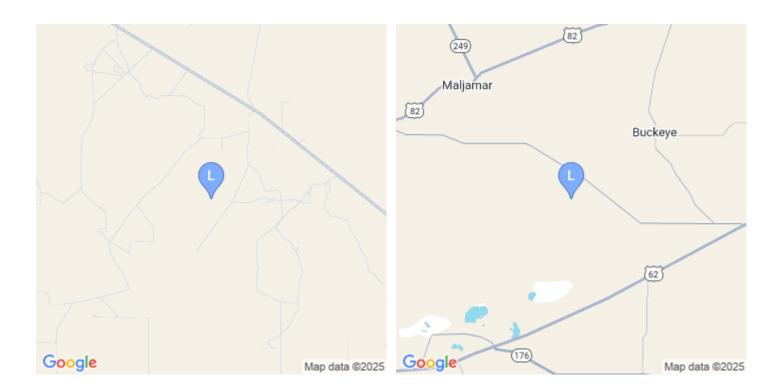


Well Information

Well Name: Royal Oak 25 Fed Com #501H

Well API: **30-025-52844** Latitude: **32.725047** Longitude: **-103.620900**

Section: 25 Township: 18S Range: 33E County: Lea, NM







Job: Long String (Long String) - Well Information

Drilling Fluid Density: 9.20 lb/gal

Drilling Fluid: **OBM**

Total Measured Depth: **19880 ft**Total Vertical Depth: **9600 ft**

BHCT: **174** °F BHST: **174** °F

Temperature Gradient: 0.98 °F/100ft

Surface Temp: 80 °F

Geometry

#	Туре	Function	OD (in)	ID (in)	Weight	Grade	Thread	Тор	Bottom	Excess
					(lb/ft)					(%)
1	Casing	Outer	9.625	8.835	40.00		n/a	0	5593	0.0
2	OpenHole	Outer		8.750			n/a	5593	9198	50.0
3	OpenHole	Outer		8.750			n/a	9198	19880	20.0
1	Casing	Inner	5.500	4.778	20.00		n/a	0	19880	0.0

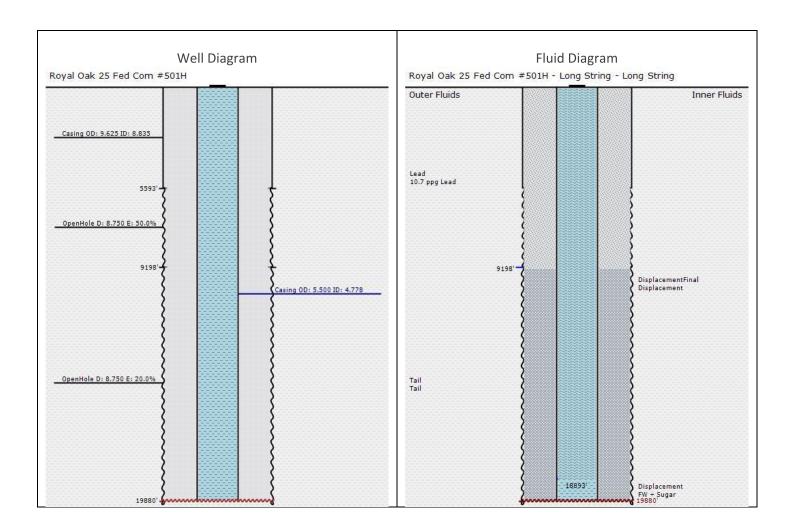
Capacities

Excess added to Capacity Factor

Туре	TopDepth Length (ft)		OD (in)	ID (in)	Capacity (bbl/ft)	Capacity (ft ^{3/ft)}	Fill (ft/bbl)	Fill (ft/ft ³⁾
DisplacementFinal	0	19795	4.778	0.000	0.0222	0.1245	45.09	8.03
ShoeJoint	19795	85	4.778	0.000	0.0222	0.1245	45.09	8.03
Casing to OpenHole	9198	10682	8.750	5.500	0.0540	0.3031	18.52	3.30
Casing to OpenHole	5593	3605	8.750	5.500	0.0675	0.3789	14.82	2.64
Casing to Casing	0	5593	8.835	5.500	0.0464	0.2607	21.53	3.84



Job: Long String (Long String) - Well & Fluid Diagrams







Job: Long String (Long String) - Material Information

Pump Order	Туре	Fluid	Fluid Top (ft)	Density (lb/gal)	Water Req. (gal/bbl)	Yield (ft ^{3/sk)}	Proposed Volume (sks)	Proposed Volume (bbl)
1	Spacer	Spacer + LCM	0.00	9.70	38.5	n/a		40.00
WEIGHTING /	ADDITIVE, BARIT		- 65.072 lb/bb					

IntegraSeal HOLD, ALOC-1212 - LostCirculation - 10.000 lb/bbl

BIOSUITE GQ2510 - Biocide - 0.010 gal/bbl

DYE, LIQUID, BLUE - Other - 0.050 gal/bbl

CORROSION INHIBITORS, HS-2 - Other - 0.050 gal/bbl

XCem-621 - Viscosifier - 10.000 lb/bbl

Pump Order	Туре	Fluid	Fluid Top (ft)	Density (lb/gal)	Water Req. (gal/sk)	Yield (ft ^{3/sk)}	Proposed Volume (sks)	Proposed Volume (bbl)
2	Lead	10.7 ppg Lead	0.00	10.70	24.5	3.92	721	503.21

CEMENT, CLASS C, HSR - Cement - 75.000 %

CEMENT, FLY ASH (OTX1) - Extender - 25.000 %

CEMENT EXTENDER, GYPSUM, A-10 - Accelerator - 5.000 %BWOB

Cement Additive, Sodium Metasilicate A-2 - Accelerator - 2.000 %BWOB

FLUID LOSS, AFL-533 - FluidLoss - 0.500 %BWOB

Viscosifier, AVIS-617 - Viscosifier - 0.300 %BWOB

BONDING AGENT, BA-95 - BondEnhancer - 15.000 lb/sk

FOAM PREVENTER, FP-28L - Defoamer - 0.005 gal/sk

RETARDER, R-21 - Retarder - 0.100 %BWOB

RETARDER, R-7C - Retarder - 0.500 %BWOB

DISPERSANT, XCem-403 - Dispersant - 0.100 %BWOB

Pump Order	Туре	Fluid	Fluid Top (ft)	Density (lb/gal)	Water Req. (gal/sk)	Yield (ft ^{3/sk)}	Proposed Volume (sks)	Proposed Volume (bbl)
3	Tail	Tail	9198.00	14.80	4.9	1.16	2808	578.64

IntegraCem XTL, AEXT-1012 - Extender - 5.000 %

CEMENT, CLASS H, HSR - Cement - 70.000 %

CEMENT, FLY ASH (OTX1) - Extender - 25.000 %

SALT, SODIUM CHLORIDE, A-5 - Accelerator - 3.000 %BWOW

ANTI SETTLING, ASA-301 - Viscosifier - 0.150 %BWOB

FLUID LOSS, FL-66 - FluidLoss - 0.700 %BWOB

FOAM PREVENTER, FP-28L - Defoamer - 0.005 gal/sk

RETARDER, R-3 - Retarder - 0.080 %BWOB

DISPERSANT, XCem-403 - Dispersant - 0.700 %BWOB

Pump	Туре	Fluid	Fluid Top	Density	Water Req.	Yield	Proposed	Proposed			
Order			(ft)	(lb/gal)	(gal/bbl)	(ft ^{3/sk)}	Volume (sks)	Volume (bbl)			
4	4 Displacement FW + Sugar 18893.00 8.36 41.8 n/a 20.00										
RETARDER, S	RETARDER, SUGAR, GRANULAR - Retarder - 2.500 lb/bbl										

Pump Order	Туре	Fluid	Fluid Top (ft)	Density (lb/gal)	Water Req. (gal/bbl)	Yield (ft ^{3/sk)}	Proposed Volume (sks)	Proposed Volume (bbl)
5	DisplacementFinal	Displacement	0.00	8.34	41.9	n/a		419.00

BIOSUITE GQ2510 - Biocide - 0.010 gal/bbl

CORROSION INHIBITORS, HS-2 - Other - 0.050 gal/bbl





Job: Long String (Long String) - Pump Schedule

Sequence	Туре	Fluid	Density (lb/gal)			Volume (sks)	Cum. Vol. (bbls)	Stage Time (min)	Cum. Time (min)
1	Spacer	Spacer + LCM	9.70	5.00	40.00		40.00	8.00	8.00
2	Lead	10.7 ppg Lead	10.70	5.00	503.21	721	543.21	100.64	108.64
3	Tail	Tail	14.80	5.00	578.64	2808	1121.85	115.73	224.37
4	Displacement	FW + Sugar	8.36	5.00	20.00		1141.85	4.00	228.37
5	DisplacementFinal	Displacement	8.34	5.00	419.00		1560.85	83.80	312.17



General Terms and Conditions

AMERICAN CEMENTING, LLC TERMS AND CONDITIONS

These Terms and Conditions (these "T&Cs") contain INDEMNIFICATION, LIMITATION OF LIABILITY AND RISK SHIFTING PROVISIONS. The provision of Work by American Cementing, LLC or its affiliated companies ("Contractor" or "American") to any person or entity placing an Order for such Work ("Company" or "Customer") is subject to these T&Cs. By requesting the Work, Company voluntarily elects to enter into and be bound by these T&Cs, and any Order for Work shall constitute acceptance of these T&Cs, unless Contractor and Company have entered into a Master Service Agreement or other agreement expressly accepted in writing by Contractor's authorized representative, in which case the terms and conditions of such agreements shall govern the provision of the Work and completely supersede these T&Cs in all respects.

- 1. <u>DEFINITIONS</u>. "Claims" means all claims, lawsuits, demands, causes of action, liabilities, damages (including punitive damages), judgments, awards, fines, penalties, losses, costs, expenses (including, without limitation, reasonable attorneys' fees, expert fees, and costs of litigation) of any kind or character, without limit, which arise out of or are related to the Work. "COMPANY GROUP" means (i) COMPANY, and any of its parent, subsidiary and affiliated or related entities; (ii) the working interest owners, co-owners, co-lesses, co-lessors, partners and joint venturers of (i); (iii) any person or entity with an economic interest or property rights in the well, premises or the property in relation to or upon which Work is performed; and (iv) the officers, directors, employees, shareholders, agents, representatives, contractors (except CONTRACTOR), subcontractors, consultants, and invitees of (i), (ii) and (iii) above. "CONTRACTOR GROUP" means (i) CONTRACTOR and any of its subsidiary and affiliated or related entities; and (ii) the officers, directors, employees, shareholders, agents, representatives, contractors, subcontractors, consultants, and invitees of all of the foregoing. "Order" means a written or verbal request for specific Work, including by way of a purchase order, work order, service order, work authorization, or similar instrument issued by COMPANY to CONTRACTOR, and which shall incorporate the pricing proposal submitted by CONTRACTOR for such Work. A request will be considered written if exchanges, whether by correspondence, letter, fax, or email include all material terms and conditions and they have been accepted or ratified by both COMPANY and CONTRACTOR; provided, however, if verbal, such request shall be confirmed in writing as soon as practicable, and the terms of the written Order shall control. "Work" means any cementing services and other related services provided by CONTRACTOR, along with all related personnel, equipment, machinery, tools, supplies, materials, vehicles, facilities,
- 2. <u>INDEPENDENT CONTRACTOR</u>. This Agreement does not create any agency, partnership, joint venture, or similar business relationship between parties. COMPANY will have the right generally to oversee and inspect the performance of the Work to ensure the reasonable satisfactory completion thereof; it being understood and agreed that CONTRACTOR shall have exclusive control over the operational details of the Work.
- 3. PRICING AND PAYMENT. 3.1 COMPANY will pay CONTRACTOR for the Work according to the prices and rates contained the applicable Order; provided, however, that if there are no such prices and rates, sten the prices and rates set forth in the pricing proposal submitted by CONTRACTOR for the Work shall apply. The pricing proposals submitted by CONTRACTOR are generally valid sixty (60) days from submission of such proposal, unless otherwise set forth in such pricing proposal. Notwithstanding the foregoing, before commencing the Work and until an agreement is reached between the parties regarding such prices and rates, CONTRACTOR has the right to revise and shall advise COMPANY of any changes in the pricing proposal, and COMPANY may either accept or reject such changes, and proceed with the Work or not. 3.2 COMPANY shall pay CONTRACTOR's invoices within thirty (30) days of receipt of invoice. In the event COMPANY disputes any amount, it shall do so in good faith and shall notify CONTRACTOR of such dispute within thirty (30) days of receipt of invoice; provided, however, that COMPANY shall pay any undisputed portion of the invoice within the time for payment noted above and shall endeavor to expeditiously resolve such disputes. Any undisputed invoices, remaining unpaid for sixty (60) days after receipt by COMPANY, shall accrue interest at the rate of 1.5% per month or the maximum interest rate allowed by applicable law, whichever is less, through the time of collection. 3.3 Prices quoted by CONTRACTOR do not include sales, VAT, use or similar taxes, and such taxes, where applicable, shall be added to the quoted prices and invoiced accordingly. Each party shall pay all taxes levied or assessed by any governmental authority in connection with or incident to its performance under an Order; provided, however, that CONTRACTOR shall pay any assessments or taxes upon wages of CONTRACTOR, social security, unemployment insurance, old age benefits, or any other employment taxes, contributions or withholdings.
- 4. ORDERS; STANDARD OF PERFORMANCE; WARRANTIES. 4.1 COMPANY may from time to time place an Order for Work, and CONTRACTOR may provide such Work to COMPANY, subject to these T&Cs. Orders shall become binding only after signed or acknowledged by an authorized representative of each party. 4.2 CONTRACTOR shall provide all labor, equipment, machinery, tools, supplies, materials, vehicles, facilities, consumables, goods, and any other items required for the execution and completion of the Work, as more fully described in the applicable Order. 4.3 CONTRACTOR shall perform the Work with due diligence and care, in a good and workmanlike manner, using skilled, competent, experienced, and, where applicable, licensed personnel in accordance with the specifications represented by CONTRACTOR and with generally accepted oilfield practices. 4.4 CONTRACTOR shall conduct its Work, in all material respects, in accordance with all applicable laws, rules, regulations, decrees, and/or official government orders of any governing body having jurisdiction over the Work. 4.5 CONTRACTOR's Work is designed to operate under conditions normally encountered in a wellbore. COMPANY shall notify CONTRACTOR in advance and make special arrangements for Work in which hazardous or unusual conditions exist. COMPANY has complete care, custody, and control of the well, the premises around the well, and the drilling and production equipment of the well (other than such equipment provided by CONTRACTOR hereunder), and Company shall furnish directions and requirements for Work performed hereunder. CONTRACTOR is relying on COMPANY to provide such directions and requirements without further investigation by CONTRACTOR. CONTRACTOR agrees to observe and abide by COMPANY's safety policies and procedures communicated to and acknowledged by CONTRACTOR. CONTRACTOR shall as promptly as possible under the circumstances report to COMPANY's representative all accidents or occurrences resulting in injuries, illness or death to person(s) or damage to property, arising out of or occurring during the Work. 4.6 CONTRACTOR's sole liability, and COMPANY's exclusive remedy, for any Claims for breach of warranty under this Section 4 are limited to, at CONTRACTOR's sole option, (i) if practical, the re-performance of the defective Work or portion thereof, at no additional cost to COMPANY; or (ii) a refund or credit to COMPANY of any amount paid to CONTRACTOR for such defective Work or portion thereof. In the event that CONTRACTOR materially fails to perform the Work or if CONTRACTOR provides defective Work for reasons solely within CONTRACTOR's control, COMPANY shall give notice to CONTRACTOR of such non-performance or defective performance immediately upon discovery and prior to CONTRACTOR's departure from the worksite, otherwise such warranty Claim is waived. 4.7 Due to the nature of the Work to be performed in unpredictable wellbore conditions, CONTRACTOR does not warrant the accuracy, correctness, or completeness of any interpretations, analysis, recommendations, or advice, nor that COMPANY's or any third party's reliance on such interpretations, analysis, recommendations, or advice will accomplish any particular results, and which in any event are opinions only. Accordingly, it is COMPANY's responsibility, and sole risk, to determine the completion, well treatment, production, or financial decision involving any risk. Any outcomes that are less than expected will not relieve COMPANY of its responsibility to pay for the Work in accordance with these T&Cs. 4.8 THE WARRANTIES PROVIDED IN THIS SECTION 4 ARE THE SOLE AND EXCLUSIVE WARRANTIES RELATING TO THE WORK AND ARE IN LIEU OF ANY AND ALL OTHER WARRANTIES WHETHER ORAL, WRITTEN, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WARRANTY OF MERCHANTABILITY AND WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. 5. ORDER CHANGES; PROJECT ADMINISTRATION. 5.1 COMPANY may ask for and CONTRACTOR may agree to variations in the Work, whether by way of addition, modification or omission, which variations shall be in writing and signed by authorized representatives of both parties. The value of any such variations shall be ascertained by reference to the prices and rates specified in the applicable Order for like or analogous Work; provided, however, that if there are no such prices and rates or if they are otherwise inapplicable, then the prices and rates set forth in the pricing proposal submitted by CONTRACTOR for such additional Work shall apply. 5.2 To acknowledge or document various events during the provision of the Work, a party may from time to time sign the other party's forms, such as Orders, delivery tickets, job tickets, invoices, or similar instruments used by the parties in the normal course of business. In the event of a conflict between these T&Cs and any such documents, these T&Cs shall control, unless specific reference is made that these T&Cs are modified and the intention to modify is explicitly stated in such documents. 5.3 It is understood and agreed between the parties that COMPANY's representative (appointed in accordance with Section 5.4 below) shall have the authority to approve any job tickets, delivery tickets, or similar forms attesting to the completion of the Work by CONTRACTOR ("Job Tickets"). A COMPANY representative's signature on such Tickets shall indicate acceptance of the Work. If the Job Tickets are not acknowledged within forty-eight (48) hours of receipt through no fault of CONTRACTOR, CONTRACTOR may submit invoices for payment as if such Tickets had been acknowledged. 5.4 COMPANY will appoint a representative who will be responsible for the supervision of the Work, and who shall have full authority to represent and make decisions on behalf of COMPANY with respect to the Work, or otherwise to resolve the day-to-day issues which may arise related to the Work. Likewise, CONTRACTOR shall designate a representative with similar responsibilities and authority to liaise with COMPANY's representative.
- 6. CONTRACTOR's EQUIPMENT. 6.1 Title to CONTRACTOR's equipment, including any lost, damaged, or confiscated equipment, shall remain in CONTRACTOR, and COMPANY shall have no right to assign, transfer, hypothecate, or remove such equipment from the place of its intended use without CONTRACTOR's prior written consent. 6.2 COMPANY shall be responsible for and agrees to compensate CONTRACTOR for all damages, losses, or any abnormal wear to CONTRACTOR GROUP's equipment: (i) while in COMPANY GROUP's care, custody or control, including while being transported by any member of COMPANY GROUP; (ii) as a result of operations conducted out of specifications at COMPANY GROUP's request, or in corrosive, abnormal temperatures or other



unusual conditions; (iii) due to fishing operations (if any); or (iv) if lost in the hole or damaged beyond repair while in the hole or used in the hole. COMPANY will replace such equipment or reimburse CONTRACTOR with the current replacement price of such equipment.

7. INDEMNITY.

7.1 Application of Indemnities. 7.1.1 In those matters in which a party is required by these T&Cs to RELEASE, DEFEND, PROTECT, INDEMNIFY, AND HOLD HARMLESS the other party and/or members of its respective Group, SUCH OBLIGATIONS SHALL, EXCEPT TO THE EXTENT EXPRESSLY PROVIDED OTHERWISE IN THESE T&CS, APPLY TO INDEMNITOR REGARDLESS OF THE CAUSE OR REASON, OR WHO MAY BE AT FAULT OR OTHERWISE RESPONSIBLE UNDER ANY CONTRACT, STATUTE, RULE, OR THEORY OF LAW, INCLUDING WITHOUT LIMITATION STRICT LIABILITY, TORT, BREACH OF DUTY (STATUTORY OR OTHERWISE), BREACH OF CONTRACT, BREACH OF REPRESENTATION OR WARRANTY, BREACH OF ANY SAFETY REQUIREMENT OR REGULATION, DUE TO ANY LATENT, PATENT, OR PRE-EXISTING DEFECTS OR CONDITIONS, IMPERFECTION OF MATERIAL, FAILURE OF EQUIPMENT, OR ANY LEGAL FAULT OR RESPONSIBILITY OF EITHER PARTY. INCLUDING THE SOLE, JOINT, AND/OR CONCURRENT NEGLIGENCE OR FAULT, WHETHER ACTIVE OR PASSIVE, OF THE INDEMNIFIED PARTY, OR OTHER PERSONS OR ENTITIES. 7.1.2 In the event these T&Cs are subject to the indemnity limitations in Chapter 127 of the Texas Civil Practice and Remedies Code (or any successor statute), and so long as such limitations are in force, each party covenants and agrees to support the mutual indemnity and release obligations contained herein by carrying insurance in an amount and of a type sufficient to cover their indemnity obligations. 7.1.3 Notwithstanding any provisions in these T&Cs to the contrary, the following provision applies where Work is to be performed in New Mexico or Wyoming, as applicable: to the extent this Section 7 is governed by New Mexico or Wyoming law, then the provisions herein shall be read not to include indemnification for the indemnified party's own negligence. 7.1.4 If any defense, indemnity, or insurance provision contained in these T&Cs conflicts with, is prohibited by or violates public policy under any federal, state or other law determined to be applicable to a particular situation arising or involving these T&Cs, it is understood and agreed that the conf

- 7.2 CONTRACTOR's Indemnification. CONTRACTOR shall be liable for, and hereby agrees to RELEASE, DEFEND, PROTECT, INDEMNIFY AND HOLD COMPANY GROUP HARMLESS from and against any and all Claims for personal or bodily injury to, sickness, disease or death of any member of CONTRACTOR GROUP, and any and all Claims for damage to or loss of any property of CONTRACTOR GROUP
- 7.3 COMPANY's Indemnification. COMPANY shall be liable for, and hereby agrees to RELEASE, DEFEND, PROTECT, INDEMNIFY AND HOLD CONTRACTOR GROUP HARMLESS from and against any and all Claims for personal or bodily injury to, sickness, disease or death of any member of COMPANY GROUP, and any and all Claims for damage to or loss of any property of COMPANY GROUP.
 7.4 Pollution and Contamination; Catastrophic Damages or Losses. Notwithstanding each party's obligations pursuant to Sections 7.2 and 7.3 hereof, it is understood and agreed between the parties that the following additional terms shall apply: 7.4.1 (a) CONTRACTOR shall be liable for, and hereby agrees to RELEASE, DEFEND, PROTECT, INDEMNIFY AND HOLD COMPANY GROUP HARMLESS from and against any and all Claims arising from pollution or contamination, which originates above the surface of the land or water, and which shall directly result from or be caused by CONTRACTOR GROUP's equipment, vehicles, or other tools and instruments while in CONTRACTOR GROUP's sole care, custody or control, and shall assume all responsibility for control and removal of same; and (b) COMPANY shall be liable for, and hereby agrees to RELEASE, DEFEND, PROTECT, INDEMNIFY AND HOLD CONTRACTOR GROUP HARMLESS from and against any and all Claims arising from any and all pollution or contamination other than that described under Section 7.4.1 (a) above, and removal of same. 7.4.2 COMPANY shall be liable for, and hereby agrees to RELEASE, DEFEND, PROTECT, INDEMNIFY AND HOLD CONTRACTOR GROUP HARMLESS from and against any and all Claims arising from any and all catastrophic damages or losses, including but not limited to those on account of injury, destruction of, loss or impairment (i) of any formation, strata, or reservoir beneath the surface of the earth; (ii) of any property rights in or to oil, gas, or other mineral substance or water, or the quiet enjoyment thereof, including subsurface trespass; (iii) to the well or the hole, including its casing; (iv) from radioactive sources; and (v) fr
- 7.5 Incidental or Consequential Damages. Notwithstanding any provisions to the contrary in these T&Cs, neither party shall be liable to the other party for, and parties shall RELEASE, PROTECT, DEFEND, INDEMNIFY AND HOLD EACH OTHER HARMLESS from and against any special, punitive, indirect, incidental or consequential damages or losses suffered by the other party and its Group resulting from or arising, directly or indirectly, out of or in connection with the Work, including, without limitation, loss and/or deferral of production, loss of product, loss of use, loss of bargain, contract expectations, or opportunity to contract with others, loss of revenue, profit, or anticipated profit, loss of business, business interruption, or downtime, whether direct or indirect, and whether or not such loss was foreseeable at the time of placing of an Order.
- 8. INSURANCE. 8.1 CONTRACTOR and COMPANY agree, at their sole cost and expense, to procure and continuously maintain in full force and effect throughout the term of this Agreement the following insurance coverage which may be met by a combination of primary and excess/umbrella insurance: A. Statutory Workers' Compensation Insurance and Employer's Liability in the amount of \$1,000,000 per occurrence and in the aggregate; B. Commercial General Liability insurance providing for third party property damage and personal injury, including broad form contractual liability for any agreement and broad form property damage in the amount of \$1,000,000 per occurrence and \$2,000,000 in the aggregate; C. Owned and Non-Owned Automobile Liability Insurance for bodily injury and property damage combined single limit in the amount of \$1,000,000 per occurrence and in the aggregate; D. Excess/Umbrella Liability Insurance providing coverage in excess of the foregoing insurances in the amount of \$5,000,000 per occurrence and in the aggregate, excluding statutory insurance coverage. 8.2 Each party agrees that, to the extent it assumes liability herein, it shall endorse the above coverages to name the indemnified parties as additional insureds (except for Workers' Compensation), shall waive its right of subrogation against the indemnified parties and their insurers, and agrees that its insurance shall be primary to that carried by the indemnified parties and non-contributory as per negligence for third party Claims, and shall not contribute in case of any Claim of exhaustion of horizontal limits. 8.3 Each party shall furnish an insurance certificate to the other to evidence the insurance required herein, and such certificates shall contain an endorsement stating that the insurer will endeavor to provide a thirty (30) days prior written notice of alteration or material change to such coverage. All deductible amounts, premiums, franchise amounts, or other charges due with respect to each party's required insurance should be the sole obligation of the insured party. 9. CONFIDENTIALITY. Each party contemplates that the other party may be provided and exposed to confidential and proprietary information ("Confidential Information"), which includes information relating to specifications of its tools, designs, inventions, component parts, parts list, software, firmware, hardware, processes, computer interfaces, operational parameters, and terms and pricing of Work. All Confidential Information shall remain the property of the party disclosing the same and no license is granted to the receiving party by virtue of the provision of such information. Confidential Information shall (i) be used by the recipient solely for the purpose of the provision of the Work and (ii) kept confidential and not disclosed to any person, except authorized representatives of the receiving Party, without written permission of the disclosing party. The receiving party shall take all reasonable steps to require its authorized representatives to keep such information confidential during and after the Work. Confidential Information shall not include information which: (i) at the time of placement of the Order is in the public domain or subsequently comes into the public domain through no fault of the receiving party and not in breach of these T&Cs; (ii) was already known to the receiving party on the date of disclosure, provided that such prior knowledge can be substantiated and proved by documentation; or (iii) properly and lawfully available to the receiving party from sources independent of the disclosing party.
- 10. INTELLECTUAL PROPERTY. While performing the Work, CONTRACTOR may utilize CONTRACTOR's intellectual property (including, without limitation, copyrights, registered marks, trademarks, service marks, patents, know-how, trade secrets, inventions, discoveries, techniques. techniques. technical information, technologies, designs, software, computer programs, formulae, calculations, computations, expertise, ideas, concepts, improvements, sketches, drawings, models, methods, practices, and/or processes, whether patentable or not) and/or develop, conceive, create, acquire, obtain, collect, generate, or make such additional intellectual property, which is and shall be CONTRACTOR's exclusive property. Except if expressly and specifically agreed in writing in a separate development agreement executed by the parties, and in exchange for appropriate payment, CONTRACTOR shall not develop any intellectual property for ownership by COMPANY in association with Work performed under a specific Order. Notwithstanding the foregoing, COMPANY GROUP shall own any intellectual property solely developed by COMPANY or COMPANY GROUP, respectively.
- 11. FORCE MAJEURE. 11.1 "Force Majeure" means (to the extent and only to the extent that any of the following are not reasonably within the control of the party claiming a Force Majeure and by the exercise of due diligence such party could not have mitigated, avoided, or overcome such condition) acts of God, fire, floods, lightning, blizzards, tornadoes, earthquakes, ice storms, named tropical storms and hurricanes, pandemics, terrorism, insurrection, revolution, war, strikes, lockouts, federal or state laws, rules and regulations of any governmental or public authorities having or asserting jurisdiction over the premises of either or both parties, inability to procure material due to industry wide shortages or soaring commodity costs, equipment, or necessary labor despite reasonable efforts, or similar causes. 11.2 If a party is rendered unable, wholly or in part, by a Force Majeure event to perform, that party will give written notice detailing such Force Majeure event to the other party as soon as reasonably possible. If a Force Majeure event continues without interruption for ten (10) days, either Party may cancel the applicable Order by giving prompt, written cancellation notice to the other party. Nothing in this Section 14.2 shall excuse COMPANY from its payment obligations of any invoices due and owing for Work performed under a specific Order.
- 12. <u>LIMITATION OF LIABILITY.</u> Notwithstanding anything to the contrary in these T&Cs, CONTRACTOR's liability arising from or in connection with its performance of the Work shall be limited to the value of the consideration paid to CONTRACTOR under the applicable Order.
- 13. GOVERNING LAW; VENUE. 13.1 For Work performed on a worksite within the United States, these T&Cs shall be exclusively governed by the laws of the State of Texas, excluding any conflict of laws principle that would refer to the laws of another jurisdiction. Venue shall lie exclusively in the state or federal courts of Harris County, Texas, and the parties consent to personal



jurisdiction therein. 13.2 For Work performed on a worksite within Canada, these T&Cs shall be exclusively governed by the laws of Province of Alberta, excluding any conflict of laws principle that would refer to the laws of another jurisdiction.

14. MISCELLANEOUS. 14.1 Notices. Notices shall be sent by registered post, or delivered in person, to the address for notices communicated by the other party. Said notices shall be deemed received (i) upon delivery if hand delivered, (ii) upon delivery if sent by registered post, and (iii) upon recipient's confirmation of receipt if faxed. 14.2 Waiver. No benefit or right accruing to either party under these T&Cs shall be deemed to be waived unless the waiver is in writing, expressly refers to these T&Cs, and is signed by a duly authorized representative of both parties. A waiver in any one or more instances shall not constitute a continuing waiver, unless specifically so stated in the written waiver. 14.3 Severability. In the event one or more of the provisions contained in these T&Cs shall be held, for any reason, to be invalid, void, illegal, contrary to law and/or unenforceable in any respect, these T&Cs shall be deemed to be amended to partially or completely modify such provision or portion thereof to the extent necessary to make it enforceable. If necessary, these T&Cs shall be deemed to be amended to delete the unenforceable provision or portion thereof, in which event such invalidity, illegality or unenforceability shall not affect the remaining provisions hereof, and these T&Cs shall remain unaffected and shall be construed as if such invalid, void, illegal or unenforceable provision have not provision or portion thereof. COMPANY AND CONTRACTOR ACKNOWLEDGE THAT THEY HAVE CONSULTED AN ATTORNEY CONCERNING THESE T&Cs OR HAVE ELECTED NOT TO DO SO, BUT REPRESENT THAT THEY FULLY UNDERSTAND THEIR RIGHTS AND OBLIGATIONS HEREUNDER

Company:	
Signature:	
Name:	
Title:	
Date:	

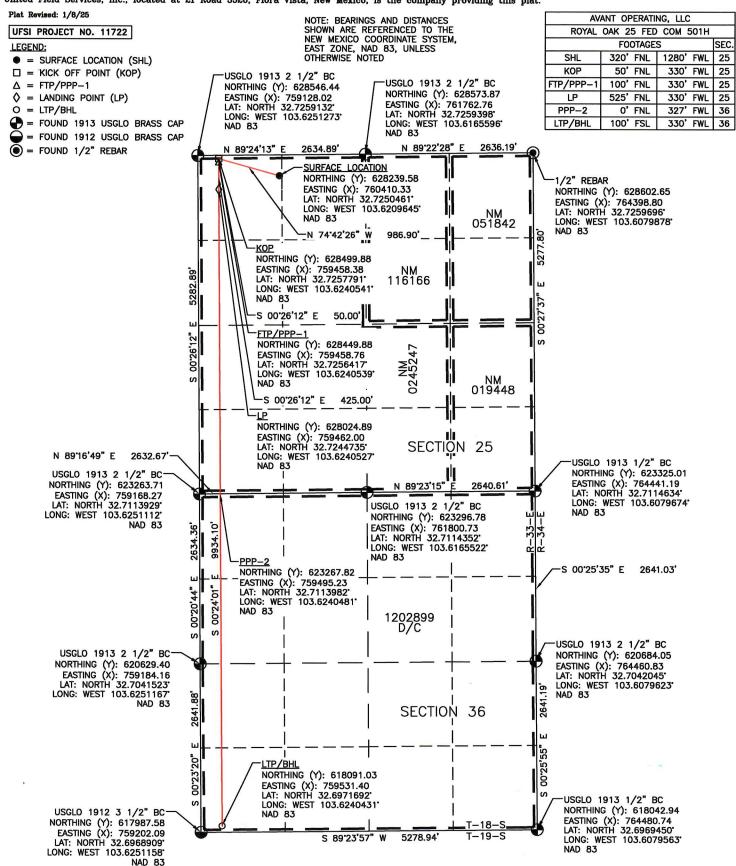
<u>C-102</u>	Energy,	Minerals		Mexico Resources Department N DIVISION		Revised July 9, 2024			
Submit Electronically Via OCD Permitting		OIL CO.	NOLIKVATIO	N DIVISION	Submittal	☐ Initial Submittal ☐ Amended Report			
					Туре:	As Drilled			
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OGRID No. 330396	Operator Na	me	AVANT OF	PERATING, LLC		Ground Level Elevation 3868.7			
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			Bottom Hol	e Location					
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Order Numbers. R-23452				Well setbacks are under Con	nmon Ownership:	Yes 💢 No			
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M 36 18 S 33 E	10	0 FSL	330 FWL	32.6971692° N	103.624043	I° W LEA			
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OPERATOR CERTIFICATION				SURVEYOR CERTIFI	CATIONS				
I hereby certify that the information cont my knowledge and belief, and, if the well	is vertical or d	lirectional well,	that this	I hereby certify that the well field notes of actual surveys					
organization either owns a working intere including the proposed bottom hole location	n or has a right	to drill this a	vell at this	that the same is true and co	rrect to the best of t	my belief. I further certify			
location pursuant to a contract with an o interest, or to a voluntary pooling agreem				that United Field Services, In New Mexico is the company p					
entered by the division.	1000000 NOS 001 NOS 0000			A VUI	TON				
If this well is a horizontal well, I further consent of at least one lessee or owner of	a working inter	rest or unlease	d mineral interest	O LIN MEX	6 9				
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Sarah Ferreyros Printed Name				- [AA] www					
sarah@avantnr.com				Signature and Seal of Pro	fessional Surveyor	. leda			
E-mail Address				Certificate Number I	1/2/25 Date of Field Survey	Date of Certification			

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

United Field Services, Inc., located at 21 Road 3520, Flora Vista, New Mexico, is the company providing this plat.



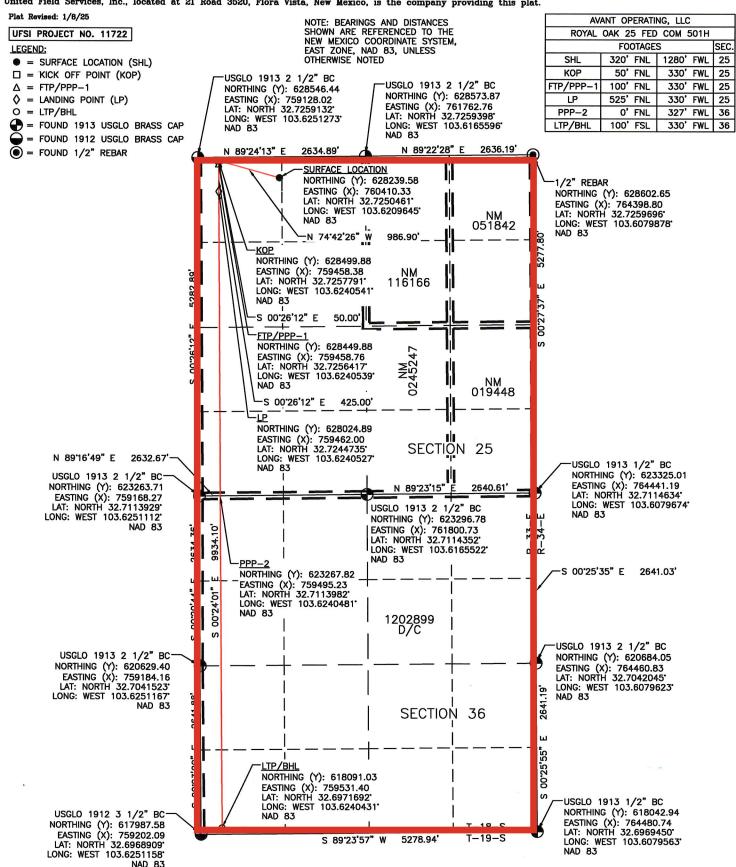
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		T		T T			Last Take			,			
UL M	Section 36	Township 18 S	Range 33 E	Lot		from N/S O FSL	Ft. from E/W	- 1	Latitude 32.6971692° N	103	Longitude	ا بیر ہ	County LEA
	30	10 3	33 L		10	UFSL	330 FWL		32.09/1092 N	103.	0240431	VV	LEA
Unitize	ed Area or	Area of	Uniform I	nterest		Spacing Un	nit Type 🛛 Hori	izon	atal 🗌 Vertical		Ground F	loor Ele [*] 49.7	vation:
		CERTI						SI	URVEYOR CERTIFI	CATIO	ONS		
my kno	wledge and	belief, and,	if the well	l is vertica	l or d	lirectional well,	* Therefore Democracy		hereby certify that the well eld notes of actual surveys			•	
						nineral interest t to drill this 1		the	at the same is true and co	rrect to	the best of m	y belief.	I further certify
							unleased mineral rder heretofore	100000	at United Field Services, In w Mexico is the company p	c., local roviding	ea at 21 Koad I this informat		n Flora Vista,
entered	interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.								at United Field Services, In	TON.			
	If this well is a horizontal well, I further certify that this organization has received to consent of at least one lessee or owner of a working interest or unleased mineral inte								O WIN MEX	6/6	2		
	in each tract (in the target pool or formation) in which any part of the well's comp interval will be located or obtained a compulsory pooling order from the division								14831				
					•	-	7/2025		77	/ /	O'N		
Signa	Signature Date 2/7/2025							P (14831) &					
	h Ferre	yros						MALAS (1)					
Printe	ed Name							-	Signature and Seal of Pro	fession	d Surveyor		
	@avan								14831	1 /	2/25	11	14/2025
E-ma	il Address							-	Contificate Number 7	1/	E4-14 C	_//	111007

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

United Field Services, Inc., located at 21 Road 3520, Flora Vista, New Mexico, is the company providing this plat.





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

Sundry Print Reports
02/12/2025

Well Name: ROYAL OAK 25 FED COM Well Location: T18S / R33E / SEC 25 /

NWNW / 32.7250468 / -103.6208995

County or Parish/State: LEA /

NM

Well Number: 501H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM0245247 Unit or CA Name: Unit or CA Number:

US Well Number: 3002552844 **Operator:** AVANT OPERATING LLC

Notice of Intent

Sundry ID: 2789514

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 05/10/2024 Time Sundry Submitted: 10:01

Date proposed operation will begin: 05/10/2024

Procedure Description: Avant Operating, LLC would like to update the dedicated acreage of this well. New dedicated acreage will be 1280 total acres, please see attached updated plat to reflect this change.

NOI Attachments

Procedure Description

Royal_Oak_25_Fed_Com_301H_C_102_Plat_20241127094958.pdf

Page 1 of 2

well Name: ROYAL OAK 25 FED COM Well Location: T18S / R33E / SEC 25 /

NWNW / 32.7250468 / -103.6208995

County or Parish/State: Page 53 of

NM

Zip:

Well Number: 501H Type of Well: OIL WELL **Allottee or Tribe Name:**

Lease Number: NMNM0245247

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002552844

Operator: AVANT OPERATING LLC

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Signed on: NOV 27, 2024 09:50 AM **Operator Electronic Signature: MEGHAN TWELE**

Name: AVANT OPERATING LLC Title: Contract Regulatory Analyst

Street Address: 1515 WYNKOOP ST SUITE 700

City: DENVER State: CO

Phone: (720) 339-6880

Email address: MTWELE@OUTLOOK.COM

Field

Representative Name:

Street Address:

City: State:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234 BLM POC Email Address: cwalls@blm.gov

Disposition: Accepted Disposition Date: 02/12/2025

Signature: Chris Walls

Page 2 of 2

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

BUR	EAU OF LAND MANAGEME	5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit of CA/Agreement, Name and/or No.				
Do not use this t	IOTICES AND REPORTS Of Form for proposals to drill of Form 3160-3 (APD) for					
SUBMIT IN	TRIPLICATE - Other instructions or					
1. Type of Well		8. Well Name and No.				
Oil Well Gas V 2. Name of Operator	Vell Other			9. API Well No.		
	I					
3a. Address	3b. Phone	e No. (includ	le area code)	10. Field and Pool or Explora	tory Ar	ea
4. Location of Well (Footage, Sec., T., K	R.,M., or Survey Description)			11. Country or Parish, State		
12. CHE	CK THE APPROPRIATE BOX(ES) T	O INDICAT	E NATURE O	F NOTICE, REPORT OR OTI	HER D	ATA
TYPE OF SUBMISSION			TYPE	OF ACTION		
Notice of Intent	Acidize	Deepen		Production (Start/Resume)		Water Shut-Off
	Alter Casing	Hydraulic F	racturing	Reclamation		Well Integrity
Subsequent Report	Casing Repair	New Constr	ruction	Recomplete		Other
	Change Plans	Plug and Al	oandon _	Temporarily Abandon		
Final Abandonment Notice	Convert to Injection	Plug Back	L	Water Disposal		
is ready for final inspection.)	true and correct. Name (Printed/Type					
14. I hereby certify that the foregoing is	true and correct. Name (Printed/Type	a) Title				
		11110				
Signature		Date				
	THE SPACE FOR F	EDERA	L OR STAT	TE OFICE USE		
Approved by						
			Title		Date	
Conditions of approval, if any, are attackertify that the applicant holds legal or ewhich would entitle the applicant to con	equitable title to those rights in the sub	,				
Title 18 U.S.C Section 1001 and Title 4	3 U.S.C Section 1212, make it a crime	for any pers	on knowingly	and willfully to make to any de	epartme	ent or agency of the United States

any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

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

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

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

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

(Form 3160-5, page 2)

Additional Information

Location of Well

 $0. \ SHL: NWNW / 320 \ FNL / 1300 \ FWL / TWSP: 18S / RANGE: 33E / SECTION: 25 / LAT: 32.7250468 / LONG: -103.6208995 (\ TVD: 0 \ feet, MD: 0 \ feet) \\ PPP: \ NWNW / 100 \ FNL / 330 \ FWL / TWSP: 18S / RANGE: 33E / SECTION: 25 / LAT: 32.7256417 / LONG: -103.6240539 (\ TVD: 9600 \ feet, MD: 9935 \ feet) \\ BHL: \ SWSW / 100 \ FSL / 330 \ FWL / TWSP: 18S / RANGE: 33E / SECTION: 36 / LAT: 32.6971692 / LONG: -103.6240431 (\ TVD: 9600 \ feet, MD: 19873 \ feet) \\ \ SWSW / 100 \ FSL / 330 \ FWL / TWSP: 18S / RANGE: 33E / SECTION: 36 / LAT: 32.6971692 / LONG: -103.6240431 (\ TVD: 9600 \ feet, MD: 19873 \ feet) \\ \ SWSW / 100 \ FSL / 330 \ FWL / TWSP: 18S / RANGE: 33E / SECTION: 36 / LAT: 32.6971692 / LONG: -103.6240431 (\ TVD: 9600 \ feet, MD: 19873 \ feet) \\ \ SWSW / 100 \ FSL / 330 \ FWL / TWSP: 18S / RANGE: 33E / SECTION: 36 / LAT: 32.6971692 / LONG: -103.6240431 (\ TVD: 9600 \ feet, MD: 19873 \ feet) \\ \ SWSW / 100 \ FSL / 330 \ FWL / TWSP: 18S / RANGE: 33E / SECTION: 36 / LAT: 32.6971692 / LONG: -103.6240431 (\ TVD: 9600 \ feet, MD: 19873 \ feet) \\ \ SWSW / 100 \ FSL / 330 \ FWL / TWSP: 18S / RANGE: 33E / SECTION: 36 / LAT: 32.6971692 / LONG: -103.6240431 (\ TVD: 9600 \ feet, MD: 19873 \ feet) \\ \ SWSW / 100 \ FSL / 330 \ FWL / TWSP: 18S / RANGE: 33E / SECTION: 36 / LAT: 32.6971692 / LONG: -103.6240431 (\ TVD: 9600 \ feet, MD: 19873 \ feet) \\ \ SWSW / 100 \ FSL / 330 \ FWL / TWSP: 18S / RANGE: 33E / SECTION: 36 / LAT: 32.6971692 / LONG: -103.6240431 (\ TVD: 9600 \ feet, MD: 19873 \ feet) \\ \ SWSW / 100 \ FSL / 330 \ FWL / TWSP: 18S / RANGE: 33E / SECTION: 25 / LAT: 32.7256417 / LONG: -103.6240431 (\ TVD: 9600 \ feet, MD: 19873 \ feet) \\ \ SWSW / 100 \ FSL / 330 \ FWL / TWSP: 18S / RANGE: 33E / SECTION: 25 / LAT: 32.7256417 / LONG: -103.6240431 (\ TVD: 9600 \ feet, MD: 19873 \ feet) \\ \ SWSW / 100 \ FSL / 330 \ FWL / TWSP: 18S / RANGE: 33E / SECTION: 25 / LAT: 32.7256417 / LONG: -103.6240431 (\ TVD: 9600 \ feet, MD: 19873 \ feet) \\ \ SWSW / 100 \ FSL / 330 \ FWL / TWSP: 18S / RANGE: 33E /$

<u>DISTRICT I</u> 1625 N. French Dr., Hobbs, N.M. 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 <u>DISTRICT II</u> 811 S. First St., Artesia, N.M. 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, N.M. 87505 Phone: (505) 476-3480 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department

> OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, N.M. 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	Pool Code 21650	*Pool Name E-K; Bone Spri	ng				
⁴ Property Code	⁶ Property	⁵ Property Name					
	ROYAL OAK 2	5 FED COM	50IH				
OGRID No.	⁸ Operato	r Name	• Elevation				
330396	AVANT OPERA	ATING, LLC	3866				

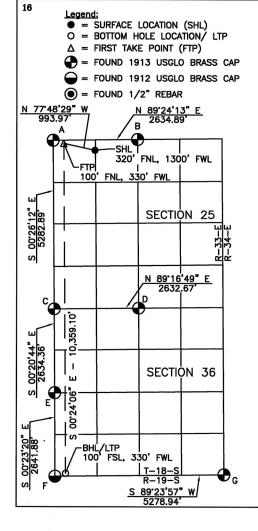
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	25	18 S	33 E		320	NORTH	1300	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
М	36	18 S	33 E		100	SOUTH	330	WEST	LEA
18 Dedicated Acres				18 Joint or Infill	¹⁴ Consolidation Code	15 Order No.			
1280 Acres Total.					R	-23452			

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



SCALE: 1"=3000"

SURFACE LOCATION
NAD 83 NME, NMSPC ZONE 3001
Y= 628239.97 N X= 760430.31 E LAT: 32.7250468 N LONG: 103.6208995 W

FIRST TAKE POINT NAD 83 NME, NMSPC ZONE 3001 100' FNL, 330' FWL SEC. 25, T18S, R33E Y= 628449.88 N X= 759458.76 E LAT: 32.7256417' N LONG: 103.6240539' W

LAST TAKE POINT/ BOTTOM HOLE LOCATION NAD 83 NME, NMSPC ZONE 3001 Y= 618091.03 N X= 759531.40 E LAT: 32.6971692° LONG: 103.6240431' W

CORNER COORDINATES TABLE
NAD 83 NME, NMSPC ZONE 3001
- Y= 628546.44 N, X= 759128.02 E
- Y= 628573.87 N, X= 761762.76 E
- Y= 623296.78 N, X= 761800.73 E
- Y= 620629.40 N, X= 759184.16 E
- Y= 617987.58 N, X= 759202.09 E
- Y= 618042.94 N, X= 764480.74 E

CORNER COORDINATES TABLE NAD 83 NME, NMSPC ZONE 3001

- LAT.=32.7259132' N, LONG.=103.6251273'
- LAT.=32.7259398' N, LONG.=103.6165596'
- LAT.=32.7113929' N, LONG.=103.6251112'
- LAT.=32.7114352' N, LONG.=103.6165522'
- LAT.=32.7041523' N, LONG.=103.6251167' CD LAT.=32.6968909* N, LONG.=103.6251158* LAT.=32.6969450* N, LONG.=103.6079563*

17 OPERATOR CERTIFICATION

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

4/23/2024 Signature

Sarah Ferreyros

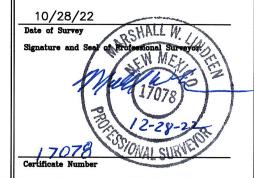
Printed Name

sarah@avantnr.com

E-mail Address

18 SURVEYOR CERTIFICATION

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



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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 431488

CONDITIONS

Operator:	OGRID:
Avant Operating, LLC	330396
1515 Wynkoop Street	Action Number:
Denver, CO 80202	431488
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By		Condition Date
pkautz	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	2/20/2025
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing.	2/20/2025