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

District II

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

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

District IV

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

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

Form C-101 August 1, 2011

Permit 334151

APPLICATION FOR PERMIT TO DRILL	RE-ENTER DEEPE	N PHILIGRACK	OR ADD A ZONE
	, IXL"LIX I LIX, DLLF L	1, FLUGDACK	ON ADD A ZONE

7 1 1 2 3 1 1 3 1 1 1 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1									
1. Operator Name and Address		2. OGRID Number							
CIMAREX ENERGY CO.		215099							
600 N. Marienfeld Street		3. API Number							
Midland, TX 79701		30-025-51098							
4. Property Code	5. Property Name	6. Well No.							
333771	CORIANDER 1 12 STATE COM	005H							

7 Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
Α	1	23S	32E	1	271	N	611	E	Lea

8. Proposed Bottom Hole Location

	8. Proposed Bottom Hole Eccation									
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	
Р	12	235	32F	Р	100	S	990	F	Lea	

9. Pool Information

٧	NC-025 G-09 S223332A;UPR WOLFCAMP	98177

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3750
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	22431	Wolfcamp		10/1/2024
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☑ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

	The state of the s										
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC					
Surf	14.75	10.75	40.5	1306	643	0					
Int1	9.875	7.625	29.7	12440	1180	0					
Prod	6.75	5.5	23	11740	0	0					
Prod	6.75	5	18	22432	1349	12240					

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

	ZZ: 1 Toposca Blowout 1 Tevention 1 Togram									
Г	Туре	Working Pressure	Test Pressure	Manufacturer						
	Double Ram	5000	5000	Cameron						
	Double Ram	10000	10000	Cameron						

knowledge and b	y that the information given above is true and complete to elief. have complied with 19.15.14.9 (A) NMAC ⊠ and/or 19.1	•		OIL CONSERVATION	ON DIVISION	
Printed Name:	Electronically filed by Brittany Gordon		Approved By:	Paul F Kautz		
Title:	Regulatory Analyst			Geologist		
Email Address: Brittany.Gordon@coterra.com			Approved Date:	2/15/2023	Expiration Date: 2/15/2025	
Date:	2/10/2023	Phone:	Conditions of Approval Attached			

Received by OCD: 2/15/2023 11:32:39 AM

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

UL or lot no. Section Township Range Lot Idn

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

AMENDED REPORT

County

East/West line

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-025-51098		² Pool Code 98177	³ Pool Name WC-025-G-09 S223332A; UPR Wo	olfcamp
4 Property Code 333771			operty Name R 1-12 STATE COM	⁶ Well Number 5H
⁷ OGRID No. 215099			perator Name EX ENERGY CO.	⁹ Elevation 3749.5'

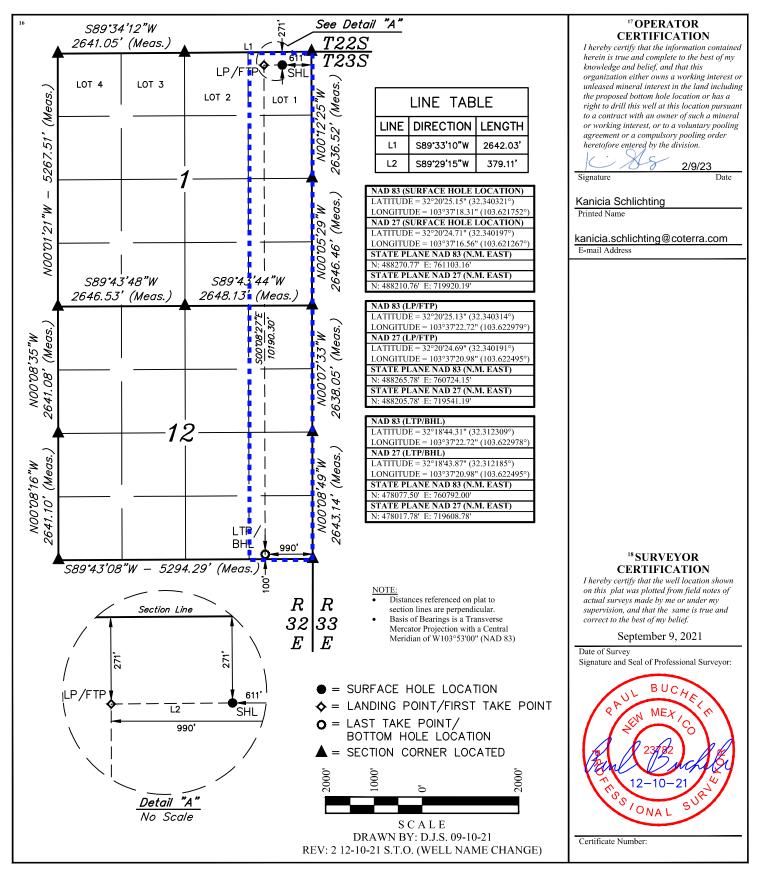
¹⁰ Surface Location

1	1	23S	32E		271	NORTH	611	EAST	LEA		
"Bottom Hole Location If Different From Surface											

Feet from the North/South line Feet from the

UL or lot no. P	Sect 1	tion 2	Township 23S	Range 32E	Lot Idn	Fe	et from the 100	North/South line SOUTH	Feet from the 990	East/West line EAST	County LEA
12 Dedicated Act	·es	13 Jo	oint or Infill	14 Conso	olidation Code		15 Order No.				
319.95											

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.



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

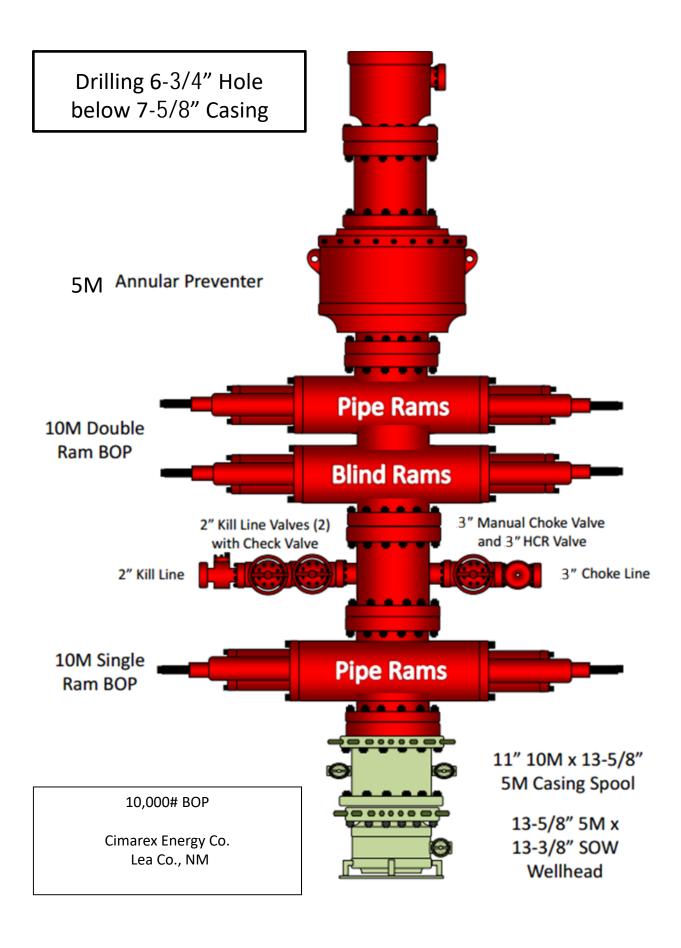
Form APD Conditions

Permit 334151

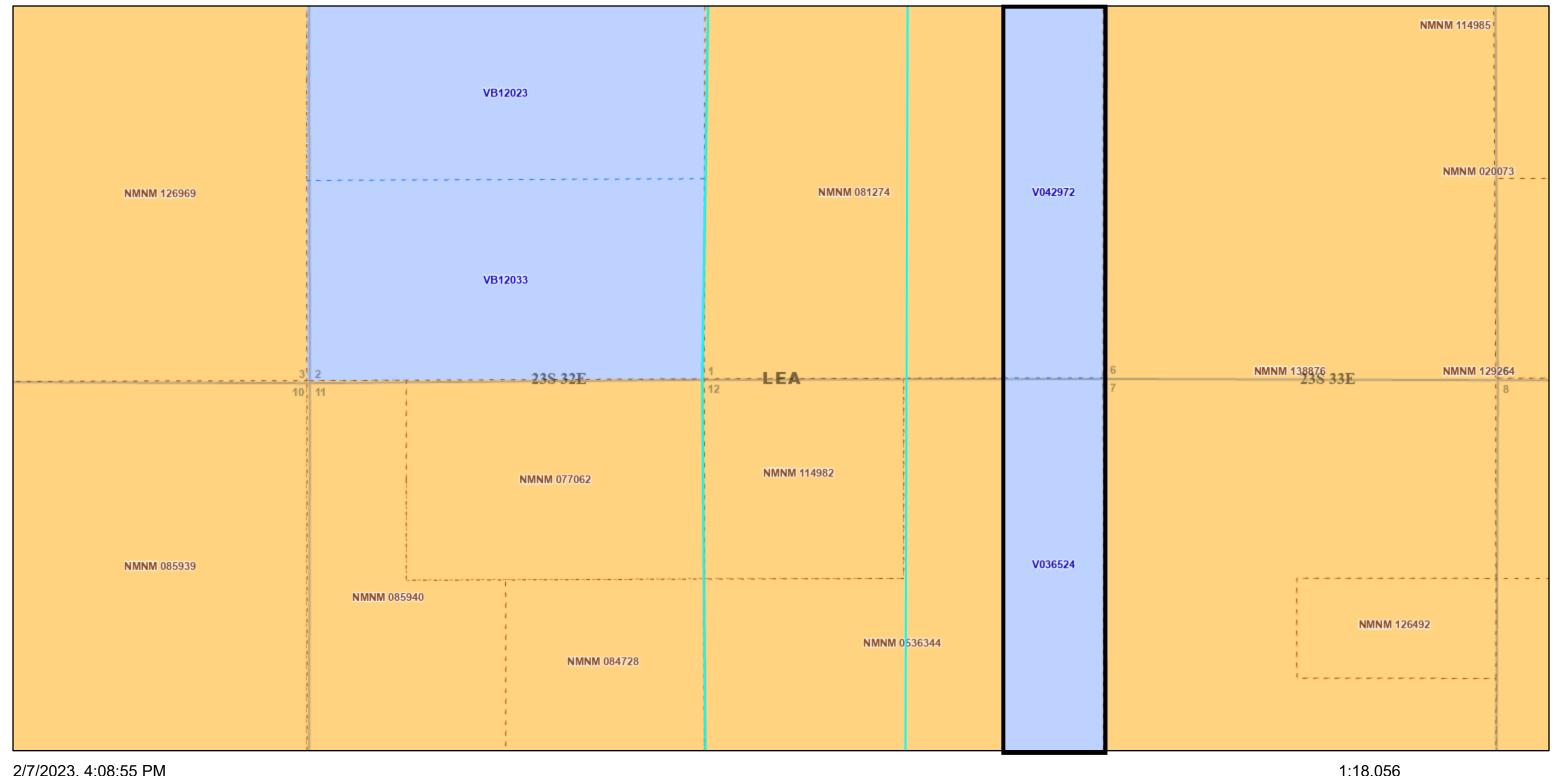
PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
CIMAREX ENERGY CO. [215099]	30-025-51098
600 N. Marienfeld Street	Well:
Midland, TX 79701	CORIANDER 1 12 STATE COM #005H

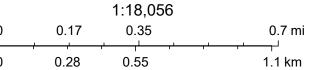
OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud



Coriander 1-12 State Com Lease Map







Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

1. Geological Formations

TVD of target 12,430

Pilot Hole TD N/A

MD at TD 22,432

Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1256	Useable Water	
Top of Salt	1790	N/A	
Base of Salt	4970	N/A	
Lamar	4995	N/A	
Bell Canyon	5017	N/A	
Cherry Canyon	6130	N/A	
Brushy Canyon	7201	Hydrocarbons	
Bone Spring Lime	8825	Hydrocarbons	
Avalon	9360	Hydrocarbons	
1st Bone Spring	9989	Hydrocarbons	
2nd Bone Spring	10630	Hydrocarbons	
3rd Bone Spring	11780	Hydrocarbons	
Wolfcamp	12330	Hydrocarbons	

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To		Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
14 3/4	0	1306	1306	10-3/4"	40.50	J-55	BT&C	2.79	5.53	11.89
9 7/8	0	12440	12261	7-5/8"	29.70	L-80	LT&C	2.47	1.20	1.55
6 3/4	0	11740	11740	5-1/2"	23.00	L-80	LT&C	1.52	1.35	2.19
6 3/4	11740	22432	12430	5"	18.00	P-110	BT&C	1.73	1.76	46.70
					BLM	Minimum S	Safety Factor	1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.

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

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

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

3. Cementing Program

Casing		Wt. lb/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description		
Surface	507	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite		
	136	14.80	1.34	1.34 6.32		Tail: Class C + LCM		
Intermediate	982	10.30	3.64	22.18		Lead: Tuned Light + LCM		
198 14.80 1.36 6.57 9.5 Tail: Class C + Retar		Tail: Class C + Retarder						
Production 1349 14.20 1.30 5.86 14:30 Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Disper		Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS						
		•						

Casing String	тос	% Excess
Surface	0	45
Intermediate	0	49
Production	12240	25

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

4. Pressure Control Equipment

A variance is requested for the use of a diverter on the surface casing. See attached for schematic.

BOP installed and tested before drilling which hole?	Size	Min Required WP	Туре		Tested To
9 7/8	13 5/8	5M	Annular	Х	
			Blind Ram		
			Pipe Ram	Х	5M
			Double Ram	Х	
			Other		
6 3/4	13 5/8	10M	Annular	Х	50% of working pressure
			Blind Ram		
			Pipe Ram	Х	10M
			Double Ram	Х	
			Other		

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

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

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

5. Mud Program

Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0' to 1306'	FW Spud Mud	7.83 - 8.33	30-32	N/C
1306' to 12440'	Brine Diesel Emulsion	8.50 - 9.00	30-35	N/C
12440' to 22432'	ОВМ	11.50 - 12.00	50-70	N/C

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

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

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

6. Logging and Testing Procedures

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

Additional Logs Planned	Interval
ruantional Logo rianica	

7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	7756 psi
Abnormal Temperature	No

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

X H2S is present

X H2S plan is attached

8. Other Facets of Operation

9. Wellhead

A multi-bowl wellhead system will be utilized.

After running the 10-3/4" surface casing, a 13 5/8" BOP/BOPE system with a minimum working pressure of 10000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 10000 psi test. Annular will be tested to working pressure, or a maximum test pressure of 5000 psi. The pressure test will be repeated at least every 30days, as per Onshore Order No. 2.

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

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

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

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 10000 psi.

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

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

10.Other Variances

Cimarex requests to perform offline cementing. OLC procedure as follows: 1. Land casing on solid body mandrel hanger. Engage packoff and lock ring 2. Install BPV. 3. Skid rig. 4. Check for pressure and remove BPV. 5. Circulate down casing, taking returns through casing valves. 6. Pump lead and tail cement. 7. Displace cement and bump the plug. 8. Ensure floats are holding pressure. 9. RD cement crew. 10. Install BPV and TA cap.

Cimarex requests permission to skid the rig to the next well on the pad to begin operations instead of waiting 8 hours for surface cement to harden on this 5H well. Surface cement will be pumped and we will ensure floats hold, do a green cement test and then skid to the next well on pad. We will not perform any operations on this 5H well until at least 8 hours and when both tail and lead slurry reach 500 psi. The mandrel hanger is made up on the last joint of 10 3/4" casing and then lowered down with and landing joint. It is then lowered down until the mandrel contacts the landing ring which is pre-welded to the conductor pipe. At this point the 10 3/4"casing is entirely supported by the conductor pipe via the landing ring/mandrel and is independent from the rig. This allows us to walk the rig away from the 5H well and begin work on the next well while the cement is hardening. There is no way for the casing to be moved or knocked off center since it is hanging from the landing ring.

I. Operator: Cimarex Energy Company

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Date: __1/31/2023_

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description <u>Effective May 25, 2021</u>

OGRID: 215099

☐ Amendme	nt due to □ 19.15.2	7.9.D(6)(a) NMA	AC □ 19.15.27.9.D	0(6)(b) NMAC [☐ Other						
				f wells proposed	l to be d	rilled or proposed					
e API ULSTR		Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	P	Anticipated roduced Water BBL/D					
	1, Sec 1 T23S, R32E	271 FNL/611 F	FEL 2300	4600		4600					
API	Spud Date	TD Reached Date	Completion	Initial		First Production Date					
	9/9/2023	10/27/2023	1/1/2024			3/1/2024					
VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture. VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC. VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.											
	e following single well part Name: e: Provide the letted from a API API API API Practices:	e following information for each single well pad or connected to API ULSTR 1, Sec 1 T23S, R32E int Name: _Coriander CTB e: Provide the following inform letted from a single well pad or each	e following information for each new or recompsingle well pad or connected to a central delivery API ULSTR Footages 1, Sec 1 T23S, R32E 271 FNL/611 H int Name: _Coriander CTB e: Provide the following information for each neleted from a single well pad or connected to a celleted from a single well pad or connected to a celleted from a complete description of how Open ces: \(\mathbb{A}\) Attach a complete description of the act of 19.15.27.8 NMAC. Practices: \(\mathbb{A}\) Attach a complete description of	e following information for each new or recompleted well or set of single well pad or connected to a central delivery point. API ULSTR Footages Anticipated Oil BBL/D 1, Sec 1 T23S, R32E 271 FNL/611 FEL 2300 int Name: _Coriander CTB	e following information for each new or recompleted well or set of wells proposed single well pad or connected to a central delivery point. API ULSTR Footages Anticipated Oil BBL/D Gas MCF/D 1, Sec 1 T23S, R32E 271 FNL/611 FeL 2300 4600 int Name: _Coriander CTB [See 19.15.27.9(Interest)] e: Provide the following information for each new or recompleted well or set of welleted from a single well pad or connected to a central delivery point. API Spud Date TD Reached Completion Commencement Date Back 9/9/2023 10/27/2023 1/1/2024 3/1/20 ent: Attach a complete description of how Operator will size separation equipment of 19.15.27.8 NMAC. Practices: Attach a complete description of Operator's best management practices: Attach a complete description of Operator's best management practices:	e following information for each new or recompleted well or set of wells proposed to be disingle well pad or connected to a central delivery point. API ULSTR Footages Anticipated Gas MCF/D P 1, Sec 1 T23S, R32E 271 FNL/611 FEL 2300 4600 int Name: _Coriander CTB [Sec 19.15.27.9(D)(1) N. e: Provide the following information for each new or recompleted well or set of wells propleted from a single well pad or connected to a central delivery point. API Spud Date TD Reached Completion Initial Flow Back Date 10/27/2023 10/27/2023 1/1/2024 3/1/2024 2011: Attach a complete description of how Operator will size separation equipment to operator: Attach a complete description of the actions Operator will take to comply with the figure of the complete description of Operator's best management practices to the proposed of the single well pad or connected to a central delivery point.					

Section 2 – Enhanced Plan

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section. 2 Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area. IX. Anticipated Natural Gas Production: Well API Anticipated Average Natural Gas Rate MCF/D Gas for the First Year MCF Natural Gas Rate MCF/D Gas for the First Year MCF X. Natural Gas Gathering System (NGGS): Operator System ULSTR of Tie-in Anticipated Gathering Start Date of System Segment Tie-in Start Date of System Segment Tie-in of System Segment Tie-in Start Date of System				E APRIL 1, 2022	
IX. Anticipated Natural Gas Production: Well API Anticipated Average Natural Gas Rate MCF/D Gas for the First Year MCF Natural Gas Rate MCF/D Gas for the First Year MCF X. Natural Gas Gathering System (NGGS): ULSTR of Tie-in Anticipated Gathering System Segment Tie-in Start Date of System Segment Tie-in of System Segment Tie-in Odd the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected. XII. Line Capacity. The natural gas gathering system will will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production. XIII. Line Pressure. Operator does does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).				with its statewide natural ga	as capture requirement for the applicable
Well API Anticipated Average Natural Gas Rate MCF/D Gas for the First Year MCF X. Natural Gas Gathering System (NGGS): Operator System ULSTR of Tie-in Anticipated Gathering Start Date of System Segment Tie-in XI. Map. Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected. XII. Line Capacity. The natural gas gathering system will will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production. XIII. Line Pressure. Operator does does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).				tion because Operator is in o	compliance with its statewide natural gas
Natural Gas Rate MCF/D Gas for the First Year MCF Anticipated Gathering System (NGGS): Operator System ULSTR of Tie-in Anticipated Gathering Available Maximum Daily Capacity of System Segment Tie-in	IX. Anticipated Na	atural Gas Producti	on:		
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production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected. XII. Line Capacity. The natural gas gathering system will will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production. XIII. Line Pressure. Operator does does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).	Operator	System	ULSTR of Tie-in		
production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected. XII. Line Capacity. The natural gas gathering system will will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production. XIII. Line Pressure. Operator does does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).					
	production operation the segment or port XII. Line Capacity production volume XIII. Line Pressur natural gas gatherin	ns to the existing of join of the natural gas gas. The natural gas gas from the well prior to e. Operator □ does g system(s) describe	planned interconnect of the gathering system(s) to we thering system will to the date of first product does not anticipate the dabove will continue to	he natural gas gathering systewhich the well(s) will be considered will not have capacity to getion. It its existing well(s) connect meet anticipated increases in	em(s), and the maximum daily capacity of nected. gather 100% of the anticipated natural gas ted to the same segment, or portion, of the
XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.	Section 2 as provide	ed in Paragraph (2) o	f Subsection D of 19.15.	27.9 NMAC, and attaches a f	

Section 3 - Certifications Effective May 25, 2021

	Effective May 25, 2021								
Operator certifies that, a	after reasonable inquiry and based on the available information at the time of submittal:								
Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, asking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or									
hundred percent of the a into account the current	able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. box, Operator will select one of the following:								
Well Shut-In. ☐ Opera D of 19.15.27.9 NMAC	tor will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection; or								
	lan. □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential es for the natural gas until a natural gas gathering system is available, including:								
(a)	power generation on lease;								
(b)	power generation for grid;								
(c)	compression on lease;								
(d)	liquids removal on lease;								
(e)	reinjection for underground storage;								
(f)	reinjection for temporary storage;								
(g)	reinjection for enhanced oil recovery;								
(h)	fuel cell production; and								
(i)	other alternative beneficial uses approved by the division.								

Section 4 - Notices

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

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

Signature: Sarah Jordan
Printed Name: Sarah Jordan
Title: Regulatory Analyst
E-mail Address: sarah.jordan@coterra.com
Date: 1/31/2023
Phone: 432/620-1909
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

From State of New Mexico, Natural Gas Management Plan

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

XEC Standard Response

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

Cimarex

VII. Operational Practices

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

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

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

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

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

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

• Workovers:

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

• Stock tank servicing:

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

• Pressure vessel/compressor servicing and associated blowdowns:

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

• Flare/combustor maintenance:

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

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

Hydrogen Sulfide Drilling Operations Plan Coridander 1-12 State Com 4H & 5H Cimarex Energy Co. Lea Co., NM

All Company and Contract personnel admitted on location must be trained by a qualified H2S safety instructor to the following:

- A. Characteristics of H₂S
- B. Physical effects and hazards
- C. Principal and operation of H2S detectors, warning system and briefing areas.
- D. Evacuation procedure, routes and first aid.
- E. Proper use of safety equipment & life support systems
- F. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30 minute pressure demand air packs.

H₂S Detection and Alarm Systems:

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

3 Windsock and/or wind streamers:

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

4 Condition Flags and Signs

- A. Warning sign on access road to location.
- B. Flags to be displayed on sign at entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates danger (H₂S present in dangerous concentration). Only H2S trained and certified personnel admitted to location.

5 Well control equipment:

A. See exhibit "E-1"

6 <u>Communication:</u>

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

7 Drillstem Testing:

No DSTs r cores are planned at this time.

- 8 Drilling contractor supervisor will be required to be familiar with the effects H₂S has on tubular goods and other mechanical equipment.
- 9 If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary.

H₂S Contingency Plan Coridander 1-12 State Com 4H & 5H Cimarex Energy Co. Lea Co., NM

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must:

- « Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- « Evacuate any public places encompassed by the 100 ppm ROE.
- « Be equipped with H₂S monitors and air packs in order to control the release.
- « Use the "buddy system" to ensure no injuries occur during the 432-620-1975
- « Take precautions to avoid personal injury during this operation.
- « Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- « Have received training in the:
 - Detection of H₂S, and
 - Measures for protection against the gas,
 - · Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO_2). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas.

Characteristics of H₂S and SO₂

Please see attached International Chemical Safety Cards.

Contacting Authorities

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

H_2S Contingency Plan Emergency Contacts

Coridander 1-12 State Com 4H & 5H

Cimarex Energy Co. Lea Co., NM

Cimarex Energy Co. of Colora	do	800-969-4789		
Co. Office and After-Hours M				
Key Personnel				
Name	Title	Office		Mobile
Larry Seigrist	Drilling Manager	432-620-1934		580-243-8485
Charlie Pritchard	Drilling Superintendent	432-620-1975		432-238-7084
Roy Shirley	Construction Superintendent			432-634-2136
<u>Artesia</u>				
Ambulance		911		
State Police		575-746-2703		
City Police		575-746-2703		
Sheriff's Office		575-746-9888		
Fire Department		575-746-2701		
Local Emergency Planning (Committee	575-746-2122		
New Mexico Oil Conservati	on Division	575-748-1283		
<u>Carlsbad</u>				
Ambulance		911		
State Police		575-885-3137	-	
City Police		575-885-2111		
Sheriff's Office		575-887-7551		
Fire Department		575-887-3798		
Local Emergency Planning	Committee	575-887-6544		
US Bureau of Land Manage		575-887-6544		
Santa Fe				
	esponse Commission (Santa Fe)	505-476-9600		
	esponse Commission (Santa Fe) 24 Hrs	505-827-9126		
New Mexico State Emerger		505-476-9635		
National				
National Emergency Respo	nse Center (Washington, D.C.)	800-424-8802		
<u>Medical</u>				
Flight for Life - 4000 24th S	t.; Lubbock, TX	806-743-9911		
Aerocare - R3, Box 49F; Luk	bock, TX	806-747-8923		
Med Flight Air Amb - 2301	Yale Blvd S.E., #D3; Albuquerque, NM	505-842-4433		
SB Air Med Service - 2505 (Clark Carr Loop S.E.; Albuquerque, NM	505-842-4949		
<u>Other</u>				
Boots & Coots IWC		800-256-9688	or	281-931-8884
Cudd Pressure Control		432-699-0139	or	432-563-3356
Halliburton		575-746-2757		

Intent	t	As Dril	ed										
API#													
Ope	rator Nar	ne:				Property	Name:	•					Well Number
w.l.c	off Data.	(405)											
UL UL	Off Point	Township	Range	Lot	Feet	From	N/S	Feet		From	F/\\/	County	
		TOWNSHIP	Nange	LOT			14/3	1661		110111	L/ VV		
Latitu	ıde				Longitu	ıde						NAD	
_	ake Poin		Danas	1	F		NI/C	F		F	F /\4/	Carrata	
UL	Section	Township	Range	Lot	Feet	From	N/S	Feet		From	E/VV	County	
Latitu	ıde			Longitu	ngitude NAD								
_	ake Poin												
UL	Section	Township	Range	Lot	Feet	From N/S	Feet		From E,	/W	Count	У	
Latitu	ide				Longitu	ıde					NAD		
							_		_				
Is this	well the	defining v	ell for th	e Hori:	zontal Sp	pacing Unit	?						
		611 112			7								
is this	well an i	nfill well?											
	l is yes pl ng Unit.	ease provi	de API if	availak	ole, Opei	rator Name	and v	vell n	umber	for D	efinir	ng well fo	r Horizontal
API#													
Ope	rator Nar	ne:				Property Name:						Well Number	
													K7 06/20/2019

KZ 06/29/2018

Schlumberger

Cimarex Coriander 1-12 State Com 5H Rev1 kFc 16Jan23 Proposal Geodetic Report



(Def Plan)

Report Date: Client: Field:

January 17, 2023 - 09:39 AM Cimarex NM Lea County (NAD 83)

Cimarex Coriander 1-12 Federal Com Lot 1 Pad / 5H Structure / Slot:

Coriander 1-12 State Com 5H Borehole: Coriander 1-12 State Com 5H Unknown / Unknown UWI / API#:

Cimarex Coriander 1-12 State Com 5H Rev1 kFc 16Jan23 November 22, 2022 Survey Name:

Survey Date: Tort / AHD / DDI / ERD Ratio:

99,403 °/ 10774.602 ft / 6.286 / 0.867 NAD83 New Mexico State Plane, Eastern Zone, US Feet N 32° 20' 25.15499", W 103° 37' 18.30553" Coordinate Reference System:

Location Lat / Long: Location Grid N/E Y/X: N 488270.770 ftUS, E 761103.160 ftUS 0.3807°

CRS Grid Convergence Angle: Grid Scale Factor: Version / Patch:

0.9999644 2.10.834.0

Survey / DLS Computation: Vertical Section Azimuth: Vertical Section Origin: TVD Reference Datum:

TVD Reference Elevation: Seabed / Ground Elevation: Magnetic Declination:

6.319° Total Gravity Field Strength: Gravity Model: 998.4400mgn (9.80665 Based) GARM

Total Magnetic Field Strength: Magnetic Dip Angle: Declination Date: Magnetic Declination Model: North Reference: Grid Convergence Used: Total Corr Mag North->Grid North: Local Coord Referenced To:

47621.437 nT 59.947° January 16, 2023 HDGM 2022 Grid North 0.3807° 5.9378 ° Well Head

Minimum Curvature / Lubinski 179.620 ° (Grid North)

0.000 ft, 0.000 ft

Unit 411. RKB = 22ft

3771.500 ft above MSL

3749.500 ft above MSL

Comments	MD (ft)	Incl (°)	Azim Grid	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S °)	Longitude (E/W°)
SHL [217' FNL,	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	488270.77	761103.16	N 32.340321	W 103.621752
611' FEL]	100.00	0.00	293.57	100.00	0.00	0.00	0.00	0.00	488270.77	761103.16	N 32.340321	W 103.621752
	200.00	0.00	293.57	200.00	0.00	0.00	0.00	0.00	488270.77	761103.16	N 32.340321	W 103.621752 W 103.621752
	300.00	0.00	293.57	300.00	0.00	0.00	0.00	0.00	488270.77	761103.16	N 32.340321	W 103.621752
	400.00	0.00	293.57	400.00	0.00	0.00	0.00	0.00	488270.77	761103.16	N 32.340321	W 103.621752
	500.00	0.00	293.57	500.00	0.00	0.00	0.00	0.00	488270.77	761103.16	N 32.340321	W 103.621752
	600.00 700.00	0.00	293.57 293.57	600.00 700.00	0.00	0.00	0.00	0.00	488270.77 488270.77	761103.16 761103.16	N 32.340321 N 32.340321	W 103.621752 W 103.621752
	800.00	0.00	293.57	800.00	0.00	0.00	0.00	0.00	488270.77	761103.16	N 32.340321 N 32.340321	W 103.621752 W 103.621752
	900.00	0.00	293.57	900.00	0.00	0.00	0.00	0.00	488270.77	761103.16	N 32.340321	W 103.621752
	1000.00	0.00	293.57	1000.00	0.00	0.00	0.00	0.00	488270.77	761103.16	N 32.340321	W 103.621752
	1100.00	0.00	293.57	1100.00	0.00	0.00	0.00	0.00	488270.77	761103.16	N 32.340321	W 103.621752
Rustler	1200.00 1256.00	0.00 0.00	293.57 293.57	1200.00 1256.00	0.00 0.00	0.00 <i>0.00</i>	0.00 <i>0.00</i>	0.00 0.00	488270.77 488270.77	761103.16 761103.16	N 32.340321 N 32.340321	W 103.621752 W 103.621752
Rustier	1300.00	0.00	293.57	1300.00	0.00	0.00	0.00	0.00	488270.77	761103.16	N 32.340321	W 103.621752
	1400.00	0.00	293.57	1400.00	0.00	0.00	0.00	0.00	488270.77	761103.16	N 32.340321	W 103.621752
	1500.00	0.00	293.57	1500.00	0.00	0.00	0.00	0.00	488270.77	761103.16	N 32.340321	W 103.621752
	1600.00	0.00	293.57	1600.00	0.00	0.00	0.00	0.00	488270.77	761103.16	N 32.340321	W 103.621752
Nudge, Build 2°/100ft	1700.00	0.00	293.57	1700.00	0.00	0.00	0.00	0.00	488270.77	761103.16	N 32.340321	W 103.621752
Top of Salt	1790.01	1.80	293.57	1790.00	-0.57	0.57	-1.30	2.00	488271.34	761101.86	N 32.340322	W 103.621756
	1800.00	2.00	293.57	1799.98	-0.71	0.70	-1.60	2.00	488271.47	761101.56	N 32.340323 N 32.340329	W 103.621757 W 103.621772
Hold	1900.00 1950.00	4.00 5.00	293.57 293.57	1899.84 1949.68	-2.83 -4.43	2.79 4.36	-6.40 -9.99	2.00 2.00	488273.56 488275.13	761096.76 761093.17	N 32.340329 N 32.340333	W 103.621772 W 103.621784
Holu	2000.00	5.00	293.57	1999.49	-6.20	6.10	-13.99	0.00	488276.87	761089.17	N 32.340338	W 103.621797
	2100.00	5.00	293.57	2099.11	-9.73	9.59	-21.97	0.00	488280.36	761081.19	N 32.340348	W 103.621822
	2200.00	5.00	293.57	2198.73	-13.27	13.07	-29.96	0.00	488283.84	761073.20	N 32.340357	W 103.621848
	2300.00	5.00	293.57	2298.35	-16.81	16.56	-37.95	0.00	488287.33	761065.21	N 32.340367	W 103.621874
	2400.00 2500.00	5.00 5.00	293.57 293.57	2397.97 2497.59	-20.35 -23.89	20.05 23.53	-45.94 -53.93	0.00	488290.81 488294.30	761057.22 761049.24	N 32.340377 N 32.340386	W 103.621900 W 103.621926
	2600.00	5.00	293.57 293.57	2497.59 2597.21	-23.89 -27.43	23.53 27.02	-53.93 -61.92	0.00	488294.30 488297.79	761049.24 761041.25	N 32.340386 N 32.340396	W 103.621926 W 103.621951
	2700.00	5.00	293.57	2696.83	-30.97	30.50	-69.90	0.00	488301.27	761033.26	N 32.340406	W 103.621977
	2800.00	5.00	293.57	2796.45	-34.50	33.99	-77.89	0.00	488304.76	761025.27	N 32.340416	W 103.622003
	2900.00	5.00	293.57	2896.07	-38.04	37.47	-85.88	0.00	488308.24	761017.28	N 32.340425	W 103.622029
	3000.00	5.00	293.57	2995.69	-41.58	40.96	-93.87	0.00	488311.73	761009.30	N 32.340435	W 103.622055
	3100.00	5.00	293.57	3095.31	-45.12	44.44	-101.86	0.00	488315.21	761001.31	N 32.340445	W 103.622080
	3200.00 3300.00	5.00 5.00	293.57 293.57	3194.93 3294.55	-48.66 -52.20	47.93 51.42	-109.84 -117.83	0.00	488318.70 488322.18	760993.32 760985.33	N 32.340455 N 32.340464	W 103.622106 W 103.622132
	3400.00	5.00	293.57	3394.17	-52.20 -55.74	51.42	-117.83	0.00	488325.67	760977.34	N 32.340474	W 103.622132 W 103.622158
	3500.00	5.00	293.57	3493.78	-59.27	58.39	-133.81	0.00	488329.16	760969.36	N 32.340484	W 103.622183
	3600.00	5.00	293.57	3593.40	-62.81	61.87	-141.80	0.00	488332.64	760961.37	N 32.340493	W 103.622209
	3700.00	5.00	293.57	3693.02	-66.35	65.36	-149.79	0.00	488336.13	760953.38	N 32.340503	W 103.622235
	3800.00	5.00	293.57	3792.64	-69.89	68.84	-157.77	0.00	488339.61	760945.39	N 32.340513	W 103.622261
	3900.00 4000.00	5.00 5.00	293.57 293.57	3892.26 3991.88	-73.43 -76.97	72.33 75.82	-165.76 -173.75	0.00	488343.10 488346.58	760937.40 760929.42	N 32.340523 N 32.340532	W 103.622287 W 103.622312
	4100.00	5.00	293.57	4091.50	-80.51	79.30	-181.74	0.00	488350.07	760921.43	N 32.340542	W 103.622338
	4200.00	5.00	293.57	4191.12	-84.04	82.79	-189.73	0.00	488353.55	760913.44	N 32.340552	W 103.622364
	4300.00	5.00	293.57	4290.74	-87.58	86.27	-197.72	0.00	488357.04	760905.45	N 32.340562	W 103.622390
	4400.00	5.00	293.57	4390.36	-91.12	89.76	-205.70	0.00	488360.53	760897.46	N 32.340571	W 103.622416
	4500.00 4600.00	5.00 5.00	293.57 293.57	4489.98 4589.60	-94.66 -98.20	93.24 96.73	-213.69 -221.68	0.00	488364.01 488367.50	760889.48 760881.49	N 32.340581 N 32.340591	W 103.622441 W 103.622467
	4700.00	5.00	293.57	4689.22	-101.74	100.22	-229.67	0.00	488370.98	760873.50	N 32.340600	W 103.622467 W 103.622493
	4800.00	5.00	293.57	4788.84	-105.28	103.70	-237.66	0.00	488374.47	760865.51	N 32.340610	W 103.622519
	4900.00	5.00	293.57	4888.46	-108.81	107.19	-245.64	0.00	488377.95	760857.52	N 32.340620	W 103.622545
Base of Salt	4981.85	5.00	293.57	4970.00	-111.71	110.04	-252.18	0.00	488380.81	760850.99	N 32.340628	W 103.622566
	5000.00	5.00	293.57	4988.08	-112.35	110.67	-253.63	0.00	488381.44	760849.54	N 32.340630	W 103.622570
Lamar	5006.95 5029.03	5.00 5.00	293.57 293.57	4995.00 5017.00	-112.60 -113.38	110.91 111.68	-254.19 -255.95	0.00 0.00	488381.68 488382.45	760848.98 760847.22	N 32.340630 N 32.340632	W 103.622572 W 103.622578
Bell Canyon	5100.00	5.00	293.57	5087.70	-115.89	114.16	-261.62	0.00	488384.92	760841.55	N 32.340639	W 103.622596
	5200.00	5.00	293.57	5187.32	-119.43	117.64	-269.61	0.00	488388.41	760833.56	N 32.340649	W 103.622622
	5300.00	5.00	293.57	5286.93	-122.97	121.13	-277.60	0.00	488391.89	760825.57	N 32.340659	W 103.622648
	5400.00	5.00	293.57	5386.55	-126.51	124.62	-285.59	0.00	488395.38	760817.59	N 32.340669	W 103.622673
	5500.00	5.00	293.57	5486.17	-130.04	128.10	-293.57	0.00	488398.87	760809.60	N 32.340678	W 103.622699
	5600.00 5700.00	5.00 5.00	293.57 293.57	5585.79 5685.41	-133.58 -137.12	131.59 135.07	-301.56 -309.55	0.00	488402.35 488405.84	760801.61 760793.62	N 32.340688 N 32.340698	W 103.622725 W 103.622751
	5800.00	5.00	293.57	5785.03	-140.66	138.56	-309.55 -317.54	0.00	488409.32	760793.62	N 32.340698 N 32.340707	W 103.622777
	5900.00	5.00	293.57	5884.65	-144.20	142.04	-325.53	0.00	488412.81	760777.65	N 32.340717	W 103.622802
	6000.00	5.00	293.57	5984.27	-147.74	145.53	-333.51	0.00	488416.29	760769.66	N 32.340727	W 103.622828
	6100.00	5.00	293.57	6083.89	-151.28	149.01	-341.50	0.00	488419.78	760761.67	N 32.340737	W 103.622854
Cherry Canyon	6146.29	5.00	293.57	6130.00	-152.91	150.63	-345.20	0.00	488421.39	760757.97	N 32.340741	W 103.622866
	6200.00	5.00	293.57	6183.51	-154.81	152.50	-349.49	0.00	488423.26	760753.68	N 32.340746	W 103.622880
	6300.00 6400.00	5.00 5.00	293.57 293.57	6283.13 6382.75	-158.35 -161.89	155.99 159.47	-357.48 -365.47	0.00	488426.75 488430.24	760745.69 760737.71	N 32.340756 N 32.340766	W 103.622906 W 103.622931
Drop 2°/100ft	6459.34	5.00	293.57	6441.87	-163.99	161.54	-365.47 -370.21	0.00	488432.30	760732.97	N 32.340766 N 32.340772	W 103.622931 W 103.622947
op _ / .oon	6500.00	4.19	293.57	6482.39	-165.31	162.84	-373.19	2.00	488433.61	760729.98	N 32.340775	W 103.622956
	6600.00	2.19	293.57	6582.23	-167.57	165.07	-378.29	2.00	488435.83	760724.89	N 32.340781	W 103.622973
	6700.00	0.19	293.57	6682.21	-168.41	165.89	-380.19	2.00	488436.66	760722.99	N 32.340784	W 103.622979

Comments	MD (ft)	Incl (°)	Azim Grid	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S °)	Longitude (E/W°)
Hold	6709.34	0.00	293.57	6691.55	-168.42	165.90	-380.20	2.00	488436.66	760722.97	N 32.340784	W 103.622979
	6800.00	0.00	293.57	6782.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
	6900.00	0.00	293.57	6882.21	-168.42 -168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
	7000.00 7100.00	0.00	293.57 293.57	6982.21 7082.21	-168.42	165.90 165.90	-380.20 -380.20	0.00	488436.66 488436.66	760722.97 760722.97	N 32.340784 N 32.340784	W 103.622979 W 103.622979
	7200.00	0.00	293.57	7182.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
Brushy Canyon	7218.79	0.00	293.57	7201.00	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
	7300.00 7400.00	0.00	293.57 293.57	7282.21 7382.21	-168.42 -168.42	165.90 165.90	-380.20 -380.20	0.00	488436.66 488436.66	760722.97 760722.97	N 32.340784 N 32.340784	W 103.622979 W 103.622979
	7500.00	0.00	293.57	7482.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
	7600.00	0.00	293.57	7582.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
	7700.00	0.00	293.57	7682.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
	7800.00 7900.00	0.00	293.57 293.57	7782.21 7882.21	-168.42 -168.42	165.90 165.90	-380.20 -380.20	0.00	488436.66 488436.66	760722.97 760722.97	N 32.340784 N 32.340784	W 103.622979 W 103.622979
	8000.00	0.00	293.57	7982.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
	8100.00	0.00	293.57	8082.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
	8200.00	0.00	293.57	8182.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
	8300.00 8400.00	0.00 0.00	293.57 293.57	8282.21 8382.21	-168.42 -168.42	165.90 165.90	-380.20 -380.20	0.00	488436.66 488436.66	760722.97 760722.97	N 32.340784 N 32.340784	W 103.622979 W 103.622979
	8500.00	0.00	293.57	8482.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
	8600.00	0.00	293.57	8582.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
	8700.00 8800.00	0.00	293.57 293.57	8682.21 8782.21	-168.42 -168.42	165.90 165.90	-380.20 -380.20	0.00 0.00	488436.66 488436.66	760722.97 760722.97	N 32.340784 N 32.340784	W 103.622979 W 103.622979
Bone Spring												
Lime	8842.79	0.00	293.57	8825.00	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
	8900.00	0.00	293.57	8882.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
Leonard	<i>8957.79</i> 9000.00	0.00 0.00	293.57 293.57	8940.00 8982.21	-168.42 -168.42	165.90 165.90	-380.20 -380.20	0.00 0.00	488436.66 488436.66	760722.97 760722.97	N 32.340784 N 32.340784	W 103.622979 W 103.622979
	9100.00	0.00	293.57	9082.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
	9200.00	0.00	293.57	9182.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
A	9300.00	0.00	293.57	9282.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
Avalon	9377.79 9400.00	0.00 0.00	293.57 293.57	9360.00 9382.21	-168.42 -168.42	165.90 165.90	-380.20 -380.20	0.00 0.00	488436.66 488436.66	760722.97 760722.97	N 32.340784 N 32.340784	W 103.622979 W 103.622979
	9500.00	0.00	293.57	9482.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784 N 32.340784	W 103.622979 W 103.622979
	9600.00	0.00	293.57	9582.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
	9700.00	0.00	293.57	9682.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
	9800.00 9900.00	0.00	293.57 293.57	9782.21 9882.21	-168.42 -168.42	165.90 165.90	-380.20 -380.20	0.00	488436.66 488436.66	760722.97 760722.97	N 32.340784 N 32.340784	W 103.622979 W 103.622979
	10000.00	0.00	293.57	9982.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
1st BS SS	10006.79	0.00	293.57	9989.00	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
	10100.00	0.00	293.57	10082.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
	10200.00 10300.00	0.00	293.57 293.57	10182.21 10282.21	-168.42 -168.42	165.90 165.90	-380.20 -380.20	0.00	488436.66 488436.66	760722.97 760722.97	N 32.340784 N 32.340784	W 103.622979 W 103.622979
	10400.00	0.00	293.57	10382.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
	10500.00	0.00	293.57	10482.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
0. 100.00	10600.00	0.00	293.57	10582.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
2nd BS SS	10647.79 10700.00	0.00 0.00	293.57 293.57	10630.00 10682.21	-168.42 -168.42	165.90 165.90	-380.20 -380.20	0.00 0.00	488436.66 488436.66	760722.97 760722.97	N 32.340784 N 32.340784	W 103.622979 W 103.622979
	10800.00	0.00	293.57	10782.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
	10900.00	0.00	293.57	10882.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
	11000.00 11100.00	0.00	293.57 293.57	10982.21 11082.21	-168.42 -168.42	165.90 165.90	-380.20 -380.20	0.00 0.00	488436.66 488436.66	760722.97 760722.97	N 32.340784 N 32.340784	W 103.622979 W 103.622979
	11200.00	0.00	293.57	11182.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
	11300.00	0.00	293.57	11282.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
	11400.00	0.00	293.57	11382.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
	11500.00 11600.00	0.00	293.57 293.57	11482.21 11582.21	-168.42 -168.42	165.90 165.90	-380.20 -380.20	0.00	488436.66 488436.66	760722.97 760722.97	N 32.340784 N 32.340784	W 103.622979 W 103.622979
	11700.00	0.00	293.57	11682.21	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
KOP, Build	11740.34	0.00	293.57	11722.55	-168.42	165.90	-380.20	0.00	488436.66	760722.97	N 32.340784	W 103.622979
10°/100ft	11797.89	5.75	179.62	11780.00	-165.53	163.01	-380.18	10.00	488433.78	760722.99	N 32.340776	W 103.622979
3rd BS SS	11800.00	5.75 5.97	179.62	11782.10	-165.32	162.80	-380.18	10.00	488433.56	760722.99	N 32.340776 N 32.340775	W 103.622979 W 103.622979
	11900.00	15.97	179.62	11880.15	-146.32	143.80	-380.05	10.00	488414.56	760723.12	N 32.340723	W 103.622979
	12000.00	25.97	179.62	11973.41	-110.58	108.07	-379.81	10.00	488378.83	760723.36	N 32.340625	W 103.622979
	12100.00 12200.00	35.97 45.97	179.62 179.62	12059.05 12134.46	-59.19 6.28	56.68 -8.80	-379.47 -379.04	10.00 10.00	488327.45 488261.97	760723.70 760724.14	N 32.340484 N 32.340304	W 103.622979 W 103.622979
Wolfcamp	12270.12	52.98	179.62	12180.00	59.55	-62.06	-378.68	10.00	488208.71	760724.49	N 32.340157	W 103.622979
	12300.00	55.97	179.62	12197.36	83.86	-86.37	-378.52	10.00	488184.40	760724.66	N 32.340090	W 103.622979
	12400.00	65.97	179.62	12245.83	171.18	-173.69	-377.94	10.00	488097.08	760725.24	N 32.339850	W 103.622979
Build & Turn	12440.34	70.00	179.62	12260.95	208.58	-211.09	-377.69	10.00	488059.69	760725.49	N 32.339748	W 103.622979
5°/100ft	12500.00	72.98	179.62	12279.89	265.14	-267.65	-377.31	5.00	488003.13	760725.86	N 32.339592	W 103.622979
	12600.00	77.98	179.62	12304.95	361.92	-364.42	-376.66	5.00	487906.36	760726.51	N 32.339326	W 103.622979
	12700.00	82.98	179.62	12321.48	460.51	-463.01	-376.01	5.00	487807.77	760727.17	N 32.339055	W 103.622979
Hold	12800.00 12828.41	87.98 89.40	179.62 179.62	12329.35 12330.00	560.17 588.57	-562.67 -591.07	-375.34 -375.15	5.00 5.00	487708.12 487679.72	760727.83 760728.02	N 32.338781 N 32.338703	W 103.622979 W 103.622979
	12900.00	89.40	179.62	12330.74	660.16	-662.65	-374.68	0.00	487608.14	760728.50	N 32.338506	W 103.622979
	13000.00	89.40	179.62	12331.79	760.15	-762.65	-374.01	0.00	487508.15	760729.16	N 32.338231	W 103.622979
	13100.00	89.40	179.62	12332.83	860.14	-862.64	-373.34	0.00	487408.16	760729.83	N 32.337957 N 32.337682	W 103.622979
	13200.00 13300.00	89.40 89.40	179.62 179.62	12333.87 12334.91	960.14 1060.13	-962.63 -1062.62	-372.68 -372.01	0.00 0.00	487308.17 487208.19	760730.50 760731.16	N 32.337682 N 32.337407	W 103.622979 W 103.622979
	13400.00	89.40	179.62	12335.95	1160.13	-1162.62	-371.35	0.00	487108.20	760731.83	N 32.337132	W 103.622979
	13500.00	89.40	179.62	12336.99	1260.12	-1262.61	-370.68	0.00	487008.21	760732.49	N 32.336857	W 103.622979
	13600.00 13700.00	89.40 89.40	179.62 179.62	12338.03 12339.08	1360.12 1460.11	-1362.60 -1462.59	-370.01 -369.35	0.00	486908.22 486808.23	760733.16 760733.83	N 32.336582 N 32.336308	W 103.622979 W 103.622979
	13800.00	89.40 89.40	179.62	12339.08	1560.11	-1462.59 -1562.59	-369.35 -368.68	0.00	486808.23 486708.24	760733.83	N 32.336308 N 32.336033	W 103.622979 W 103.622979
	13900.00	89.40	179.62	12341.16	1660.10	-1662.58	-368.01	0.00	486608.25	760735.16	N 32.335758	W 103.622979
	14000.00	89.40	179.62	12342.20	1760.10	-1762.57	-367.35	0.00	486508.27	760735.83	N 32.335483	W 103.622979
	14100.00 14200.00	89.40 89.40	179.62 179.62	12343.24 12344.28	1860.09 1960.08	-1862.56 -1962.56	-366.68 -366.02	0.00	486408.28 486308.29	760736.49 760737.16	N 32.335208 N 32.334933	W 103.622979 W 103.622979
	14300.00	89.40 89.40	179.62	12344.28	2060.08	-2062.55	-365.35	0.00	486208.30	760737.16	N 32.334658	W 103.622979 W 103.622979
	14400.00	89.40	179.62	12346.36	2160.07	-2162.54	-364.68	0.00	486108.31	760738.49	N 32.334384	W 103.622979
	14500.00	89.40	179.62	12347.41	2260.07	-2262.53	-364.02	0.00	486008.32	760739.16	N 32.334109	W 103.622979
	14600.00 14700.00	89.40 89.40	179.62 179.62	12348.45 12349.49	2360.06 2460.06	-2362.53 -2462.52	-363.35 -362.68	0.00 0.00	485908.33 485808.35	760739.82 760740.49	N 32.333834 N 32.333559	W 103.622979 W 103.622979
	14800.00	89.40	179.62	12350.53	2560.05	-2562.51	-362.02	0.00	485708.36	760740.49	N 32.333384	W 103.622979
	14900.00	89.40	179.62	12351.57	2660.05	-2662.50	-361.35	0.00	485608.37	760741.82	N 32.333009	W 103.622979
	15000.00	89.40	179.62	12352.61	2760.04	-2762.49	-360.69	0.00	485508.38	760742.49	N 32.332735	W 103.622979
	15100.00 15200.00	89.40 89.40	179.62 179.62	12353.65 12354.69	2860.04 2960.03	-2862.49 -2962.48	-360.02 -359.35	0.00	485408.39 485308.40	760743.15 760743.82	N 32.332460 N 32.332185	W 103.622979 W 103.622979
	15300.00	89.40 89.40	179.62	12354.69	3060.03	-3062.47	-358.69	0.00	485208.41	760744.49	N 32.332165 N 32.331910	W 103.622979 W 103.622979
	15400.00	89.40	179.62	12356.78	3160.02	-3162.46	-358.02	0.00	485108.42	760745.15	N 32.331635	W 103.622979
	15500.00	89.40	179.62	12357.82	3260.01	-3262.46	-357.35	0.00	485008.44	760745.82	N 32.331360	W 103.622979
	15600.00 15700.00	89.40	179.62	12358.86	3360.01	-3362.45	-356.69	0.00	484908.45	760746.49	N 32.331086	W 103.622979
	157.00.00	89.40	179.62	12359.90	3460.00	-3462.44	-356.02	0.00	484808.46	760747.15	N 32.330811	W 103.622979
		89.40	179.62	12360.94	3560.00	-3562.43	-355.36	0.00	484708.47	760747.82	N 32,330536	W 103,622979
	15800.00 15900.00	89.40 89.40	179.62 179.62	12360.94 12361.98	3560.00 3659.99	-3562.43 -3662.43	-355.36 -354.69	0.00 0.00	484708.47 484608.48	760747.82 760748.48	N 32.330536 N 32.330261	W 103.622979 W 103.622979
	15800.00											

Comments	MD	Incl	Azim Grid	TVD	VSEC	NS	EW	DLS (°/100ft)	Northing	Easting (ftUS)	Latitude	Longitude (E/W °)
	(ft) 16200.00	89.40	(°) 179.62	(ft) 12365.11	(ft) 3959.98	-3962.40	-352.69	0.00	(ftUS) 484308.52	760750.48	(N/S °) N 32.329436	W 103.622978
	16300.00	89.40	179.62	12366.15	4059.97	-4062.40	-352.02	0.00	484208.53	760751.15	N 32.329162	W 103.622978
	16400.00	89.40	179.62	12367.19	4159.97	-4162.39	-351.36	0.00	484108.54	760751.82	N 32.328887	W 103.622978
	16500.00	89.40	179.62	12368.23	4259.96	-4262.38	-350.69	0.00	484008.55	760752.48	N 32.328612	W 103.622978
	16600.00	89.40	179.62	12369.27	4359.95	-4362.37	-350.03	0.00	483908.56	760753.15	N 32.328337	W 103.622978
	16700.00	89.40	179.62	12370.31	4459.95	-4462.36	-349.36	0.00	483808.57	760753.81	N 32.328062	W 103.622978
	16800.00	89.40	179.62	12371.36	4559.94	-4562.36	-348.69	0.00	483708.58	760754.48	N 32.327787	W 103.622978
	16900.00 17000.00	89.40 89.40	179.62 179.62	12372.40 12373.44	4659.94 4759.93	-4662.35 -4762.34	-348.03 -347.36	0.00	483608.60 483508.61	760755.15 760755.81	N 32.327513 N 32.327238	W 103.622978 W 103.622978
	17100.00	89.40	179.62	12374.48	4859.93	-4862.33	-346.69	0.00	483408.62	760756.48	N 32.326963	W 103.622978 W 103.622978
	17200.00	89.40	179.62	12375.52	4959.92	-4962.33	-346.03	0.00	483308.63	760757.14	N 32.326688	W 103.622978
Section 1-12 Line Cross	17250.78	89.40	179.62	12376.05	5010.70	-5013.10	-345.69	0.00	483257.86	760757.48	N 32.326548	W 103.622978
Line Oross	17300.00	89.40	179.62	12376.56	5059.92	-5062.32	-345.36	0.00	483208.64	760757.81	N 32.326413	W 103.622978
	17400.00	89.40	179.62	12377.60	5159.91	-5162.31	-344.70	0.00	483108.65	760758.48	N 32.326138	W 103.622978
	17500.00	89.40	179.62	12378.65	5259.91	-5262.30	-344.03	0.00	483008.66	760759.14	N 32.325863	W 103.622978
	17600.00	89.40	179.62	12379.69	5359.90	-5362.30	-343.36	0.00	482908.68	760759.81	N 32.325589	W 103.622978
	17700.00	89.40	179.62	12380.73	5459.90	-5462.29	-342.70	0.00	482808.69	760760.48	N 32.325314	W 103.622978
	17800.00	89.40	179.62	12381.77	5559.89	-5562.28	-342.03	0.00	482708.70	760761.14	N 32.325039	W 103.622978
	17900.00 18000.00	89.40 89.40	179.62 179.62	12382.81 12383.85	5659.88 5759.88	-5662.27 -5762.27	-341.36 -340.70	0.00	482608.71 482508.72	760761.81 760762.47	N 32.324764 N 32.324489	W 103.622978 W 103.622978
	18100.00	89.40 89.40	179.62	12384.89	5859.87	-5762.27 -5862.26	-340.70	0.00	482408.73	760762.47	N 32.324469 N 32.324214	W 103.622978 W 103.622978
	18200.00	89.40	179.62	12385.93	5959.87	-5962.25	-339.37	0.00	482308.74	760763.14	N 32.323940	W 103.622978
	18300.00	89.40	179.62	12386.98	6059.86	-6062.24	-338.70	0.00	482208.76	760764.47	N 32.323665	W 103.622978
	18400.00	89.40	179.62	12388.02	6159.86	-6162.23	-338.03	0.00	482108.77	760765.14	N 32.323390	W 103.622978
	18500.00	89.40	179.62	12389.06	6259.85	-6262.23	-337.37	0.00	482008.78	760765.81	N 32.323115	W 103.622978
	18600.00	89.40	179.62	12390.10	6359.85	-6362.22	-336.70	0.00	481908.79	760766.47	N 32.322840	W 103.622978
	18700.00	89.40	179.62	12391.14	6459.84	-6462.21	-336.03	0.00	481808.80	760767.14	N 32.322565	W 103.622978
	18800.00	89.40	179.62	12392.18	6559.84	-6562.20	-335.37	0.00	481708.81	760767.80	N 32.322290	W 103.622978
	18900.00	89.40	179.62	12393.22	6659.83	-6662.20	-334.70	0.00	481608.82	760768.47	N 32.322016	W 103.622978
	19000.00 19100.00	89.40 89.40	179.62 179.62	12394.26 12395.31	6759.82 6859.82	-6762.19 -6862.18	-334.04 -333.37	0.00	481508.84 481408.85	760769.14 760769.80	N 32.321741 N 32.321466	W 103.622978 W 103.622978
	19200.00	89.40 89.40	179.62	12395.31	6959.81	-6962.17	-333.37	0.00	481308.86	760769.80	N 32.321400 N 32.321191	W 103.622978 W 103.622978
	19300.00	89.40	179.62	12397.39	7059.81	-7062.17	-332.70	0.00	481208.87	760770.47	N 32.320916	W 103.622978 W 103.622978
	19400.00	89.40	179.62	12398.43	7159.80	-7162.16	-331.37	0.00	481108.88	760771.80	N 32.320641	W 103.622978
	19500.00	89.40	179.62	12399.47	7259.80	-7262.15	-330.70	0.00	481008.89	760772.47	N 32.320367	W 103.622978
	19600.00	89.40	179.62	12400.51	7359.79	-7362.14	-330.04	0.00	480908.90	760773.13	N 32.320092	W 103.622978
	19700.00	89.40	179.62	12401.55	7459.79	-7462.14	-329.37	0.00	480808.92	760773.80	N 32.319817	W 103.622978
	19800.00	89.40	179.62	12402.60	7559.78	-7562.13	-328.71	0.00	480708.93	760774.47	N 32.319542	W 103.622978
	19900.00	89.40	179.62	12403.64	7659.78	-7662.12	-328.04	0.00	480608.94	760775.13	N 32.319267	W 103.622978
	20000.00	89.40	179.62	12404.68	7759.77	-7762.11	-327.37	0.00	480508.95	760775.80	N 32.318992	W 103.622978
	20100.00 20200.00	89.40 89.40	179.62 179.62	12405.72 12406.76	7859.77 7959.76	-7862.10 -7962.10	-326.71 -326.04	0.00 0.00	480408.96 480308.97	760776.47 760777.13	N 32.318717 N 32.318443	W 103.622978 W 103.622978
	20300.00	89.40	179.62	12407.80	8059.75	-8062.09	-325.37	0.00	480208.98	760777.13	N 32.318168	W 103.622978 W 103.622978
	20400.00	89.40	179.62	12408.84	8159.75	-8162.08	-324.71	0.00	480109.00	760778.46	N 32.317893	W 103.622978
	20500.00	89.40	179.62	12409.88	8259.74	-8262.07	-324.04	0.00	480009.01	760779.13	N 32.317618	W 103.622978
	20600.00	89.40	179.62	12410.93	8359.74	-8362.07	-323.38	0.00	479909.02	760779.80	N 32.317343	W 103.622978
	20700.00	89.40	179.62	12411.97	8459.73	-8462.06	-322.71	0.00	479809.03	760780.46	N 32.317068	W 103.622978
	20800.00	89.40	179.62	12413.01	8559.73	-8562.05	-322.04	0.00	479709.04	760781.13	N 32.316794	W 103.622978
	20900.00	89.40	179.62	12414.05	8659.72	-8662.04	-321.38	0.00	479609.05	760781.80	N 32.316519	W 103.622978
	21000.00	89.40 89.40	179.62 179.62	12415.09	8759.72 8859.71	-8762.04 -8862.03	-320.71 -320.04	0.00	479509.06 479409.07	760782.46 760783.13	N 32.316244 N 32.315969	W 103.622978
	21100.00 21200.00	89.40 89.40	179.62 179.62	12416.13 12417.17	8859.71 8959.71	-8862.03 -8962.02	-320.04 -319.38	0.00	479409.07 479309.09	760783.13 760783.79	N 32.315969 N 32.315694	W 103.622978 W 103.622978
	21300.00	89.40 89.40	179.62	12417.17	9059.70	-8962.02 -9062.01	-318.71	0.00	479309.09	760784.46	N 32.315419	W 103.622978 W 103.622978
	21400.00	89.40	179.62	12419.26	9159.69	-9162.01	-318.05	0.00	479109.11	760785.13	N 32.315144	W 103.622978 W 103.622978
	21500.00	89.40	179.62	12420.30	9259.69	-9262.00	-317.38	0.00	479009.12	760785.79	N 32.314870	W 103.622978
	21600.00	89.40	179.62	12421.34	9359.68	-9361.99	-316.71	0.00	478909.13	760786.46	N 32.314595	W 103.622978
	21700.00	89.40	179.62	12422.38	9459.68	-9461.98	-316.05	0.00	478809.14	760787.13	N 32.314320	W 103.622978
	21800.00	89.40	179.62	12423.42	9559.67	-9561.97	-315.38	0.00	478709.15	760787.79	N 32.314045	W 103.622978
	21900.00	89.40	179.62	12424.46	9659.67	-9661.97	-314.71	0.00	478609.17	760788.46	N 32.313770	W 103.622978
	22000.00	89.40	179.62	12425.50	9759.66	-9761.96	-314.05	0.00	478509.18	760789.12	N 32.313495	W 103.622978
	22100.00	89.40	179.62	12426.55	9859.66	-9861.95	-313.38	0.00	478409.19	760789.79	N 32.313221	W 103.622978
	22200.00 22300.00	89.40 89.40	179.62 179.62	12427.59 12428.63	9959.65 10059.65	-9961.94 -10061.94	-312.72 -312.05	0.00	478309.20 478209.21	760790.46 760791.12	N 32.312946 N 32.312671	W 103.622978 W 103.622978
	22400.00	89.40 89.40	179.62	12429.67	10159.64	-10061.94	-312.05	0.00	478209.21	760791.12	N 32.312371	W 103.622978
Coriander 1-12	22400.00	00.40	175.02	12723.01	10103.04	10101.55	011.00	0.00	170100.22	100/31./9	02.012000	100.022370
State Com 5H -	22424 72	00.40	470.00	40420.00	40404.07	40402.05	244.47	0.00	470077 50	700700.00	NI 20 242222	W 400 000070
BHL [100' FSL, 990' FEL]	22431.73	89.40	179.62	12430.00	10191.37	-10193.65	-311.17	0.00	478077.50	760792.00	N 32.312309	W 103.622978

Survey Type:

Def Plan

Survey Error Model: Survey Program: ISCWSA Rev 3 *** 3-D 95.000% Confidence 2.7955 sigma

 Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size Cas (in)	Hole Size Casing Diameter (in) (in)		Hole Size Casing Diameter		Survey Tool Type	Borehole / Survey
	1	0.000	22.000	1/100.000	30.000	30.000		A001Mb_MWD-Depth Only	Coriander 1-12 State Com 5H / Cimarex Coriander 1-12 State		
	1	22.000	11700.000	1/100.000	30.000 30.000			A001Mb_MWD	Coriander 1-12 State Com 5H / Cimarex Coriander 1-12 State		
	1	11700.000	22431.727	1/100.000	30.000 30.000			A008Mb_MWD+IFR1+MS	Coriander 1-12 State Com 5H / Cimarex Coriander 1-12 State		