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

Phone:(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., Azteo, 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

APPLICATION FOR PERMIT TO DRILL	. RE-ENTER. DEEPEN. PLUGBACK. OR ADD A ZONE

		APPLICA	TION FOR PERM	IIT TO DRILL, RE-	ENTER, DEEPE	N, PLUGBACI	K, OR ADD A ZO	ONE	
Operator Nam CIM	e and Address AREX ENERGY (00.					2. OGI	RID Number 215099	
	N MARIENFELD LAND , TX 79701						3. API	Number 30-025-43737	,
4. Property Code 3175			5. Property Name CORIANDE	R AOC 1-12 STATE			6. Wel	I No. 002H	
	518		5.9	7. Surf	ace Location	200		102	
UL - Lot A	Section 1	Township 238	Range 32E	Lot Idn	Feet From 330	N/S Line N	Feet From 710	E/W Line	County Lea
				8. Proposed B	ottom Hole Locatio	on		100	*
UL - Lot P	Section 12	Township 23	Range 3S 32	Lot Idn E P	Feet From 330	N/S Line S	Feet From 660	E/W Line	County
				9. Poo	I Information				
DIAMONDTAI	L;BONE SPRING	}		1-7-8-1-7-1	and the plant of the			17644	

	Additional Well Information						
11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3751			
16. Multiple N	17. Proposed Depth 18800	18. Formation 1st Bone Spring Sand	19. Contractor	20. Spud Date 7/1/2017			
Depth to Ground water	25	Distance from nearest fresh water well	<u> </u>	Distance to nearest surface water			

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

21. Proposed Casing and Cement Program

	Ent reposed during and demonst regian								
Тур	e Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC			
Sui	rf 17.5	13.375	48	1250	768	0			
Int	1 12.25	9.625	40	4790	1223	0			
Pro	d 8.75	5.5	17	18780	2310	4770			

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
Double Ram	2000	2000	Cameron
Double Ram	3000	3000	Cameron

knowledge and b	I have complied with 19.15.14.9 (A)			OIL CONSERVATIO	N DIVISION
Printed Name:	Electronically filed by Genea A Ho	olloway	Approved By:	Paul Kautz	
Title:	Prod Admin Supervisor		Title:	Geologist	100
Email Address:	gholloway@cimarex.com		Approved Date:	4/7/2017	Expiration Date: 4/7/2019
Date:	4/6/2017	Phone: 918-295-1658	Conditions of Appr	oval Attached	

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1000 Rio Brazos Road, Aztec, NM 87410
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District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

Form C-10 Revised August 1, 20 Submit one copy to appropria District Office

☐ AMENDED REPOR

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number			2 Pool Code	,		3 Pool Nar	ne	
		:	17644		\mathbf{D}_{i}	iamondtail; B	one Spring	
de			CORIA	SProperty Name ANDER AOC 1-12 STATE				6 Well Number 2H
NO.			CIMA					⁹ Elevation 3751
				¹⁰ Surface	Location			
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
1	23S	32E		330	NORTH	710	EAST	LEA
		н 1	Bottom F	Iole Location	If Different Fro	m Surface		
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	Соилту
12	23S	32E		330	SOUTH	660	EAST	LEA
13 Joint	or Infill 14	Consolidation	Code 15	Order No.		_		•
	30-025- de NO. Section 1 12	Section Township 1 23S Section Township 12 23S	30-025- de NO. Section Township Range 1 23S 32E	30-025- 17644	17644 SProperty N CORIANDER AOC	17644 Discription No. CIMAREX SProperty Name CORIANDER AOC 1-12 STATE	17644 Diamondtail; B 30-025-	17644 Diamondtail; Bone Spring SProperty Name CORIANDER AOC 1-12 STATE

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

	N 89'19'30"	E 2641.11'	N 89'19'55"	E 264	11.72	A	
S 00'15'50" W 5267.62"	LOT 4	LOT 3	330 Lor 2		710	GEODETIC DATA NAD 83 GRID — NM EAST SURFACE LOCATION N: 488209.7 — E: 761004.1 LAT: 32.34015465° N LONG: 103.82207365° W LAT: 32'20'24.5568" N LONG: 103'37'19.4652° W BOTTOM HOLE N: 478310.5 — E: 761120.3 LAT: 32.31294315° N LONG: 103.32'18'46.5954" N LONG: 103'37'18.8762" W GEODETIC DATA NAD 27 GRID — NM EAST SURFACE LOCATION N: 488149.7 — E: 719821.1	Increby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns o working interest or unleased mineral interest in the land including the proposed bottom hale 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 order peretofore emered by the dystion. Additional Printed Name acrawford@cimarex.com E-mail Address
N 00'23'01" W 2641.14"						LAT: 32.34003145' N LONG: 103.62158951' W LAT: 32'20'24.1132" N LONG: 103'37'17.7222" W BOTTOM_HOLE N: 478250.8 - E: 719937.1 LAT: 32.31281981' N LONG: 103.62142705' W LAT: 32'18'46.1513" N LONG: 103'37'17.1374" W	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 3-22-2017 Date of Survey
N 00'22'58" W 2640.97"			w 5294.20'	в.н. ₍ 330°	660	SURFACE HOLE LOCATION SURFACE HOLE LOCATION	Signature and Seal of Productional Survival 19680 Certificate Number

RRC-Job No.: LS1703166

Form APD Comments

Permit 234351

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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

PERMIT COMMENTS

CIMAREX ENERGY CO. [215099]	API Number: 30-025-43737
600 N MARIENFELD STREET MIDLAND , TX 79701	Well: CORIANDER AOC 1-12 STATE #002H

Created By Comment Comment Date District I
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Permit 234351

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
CIMAREX ENERGY CO. [215099]	30-025-43737
600 N MARIENFELD STREET	Well:
MIDLAND, TX 79701	CORIANDER AOC 1-12 STATE #002H

OCD Reviewer	Condition
pkautz	Will require 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	Pit construction and closure must satisfy all requirements of your approved plan.
pkautz	If using a pit for drilling and completion operations, must have an approved pit from prior to spudding the well.
pkautz	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface 2) PRODUCTION CASING - Cement must tie back into intermediate casing
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
pkautz	Only Fresh Water and Air are Valid Drilling Fluids for Surface Casing
pkautz	Operator shall notify appropriate District office when setting conductor pipe.
pkautz	1)- The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 20 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
pkautz	It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD.
pkautz	If an APD expires and if site construction has occurred, site remediation is required.
pkautz	Must notify OCD Hobbs Office if lost circulation is encountered at 575-370-3186
pkautz	Must notify OCD Hobbs Office of any water flows in the Castile Formation at 575-370-3186. Report depth and flow rate
pkautz	Stage Tool 1) Must notify OCD Hobbs Office prior to running Stage Tool at 575-370-3186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.
pkautz	Submit Gas Capture Plan form prior to spud