

Charles Beauvais Environmental Engineer 15 W London Rd Loving, NM 88256 Telephone: 575/988-2043 Charles.R.Beauvais@ConocoPhillips.com

October 8th, 2021

Mr. Bradford Billings New Mexico Energy, Minerals & Natural Resources Department Oil Conservation Division 5200 Oakland Ave NE Albuquerque, NM 87113

Re: Chosa Draw 27 Federal Com #004 nKMW1108239438 Heritage Concho Agreed Compliance Order-Releases

Dear Mr. Billings:

Please find attached documentation for an open remediation site, Chosa Draw 27 Federal Com #004 (Incident ID nKMW1108239438). This reported incident is included in the Agreed Compliance Order-Releases (ACO-R) between the New Mexico Oil Conservation Division (NMOCD) and Concho Resources (COG) dated November 20, 2018. ConocoPhillips Company (COP) acquired COG in January 2021.

According to NMOCD records, this site was misidentified as owned by COG. The Chosa Draw #004 Federal Com #004 well (API No. 30-015-37181), which was plugged in 2011, was always owned by Cimarex Energy Company of Colorado. This site is not under COP control, and therefore it is not possible to conduct inspections nor remediation activities at the site. Therefore, COP respectfully requests that NMOCD disassociates this release from COG (and now COP), and remove it from the November 20, 2018 ACO-R.

Please contact me if you require any additional information or if you have any questions or comments.

Sincerely,

Charles R. Beauvais 19

Charles Beauvais

Enclosures – Attachment A

ATTACHMENT A

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		OCD-ARTE	ESIA			
	. 1	111 17 2009				
Form 3160-3 (April 2004)	•	nn 17700â			PPROVED 1004-0137	
				Expires Ma	rch 31, 2007	
UNITED DEPARTMENT C	STATES	R /Im	_	5. Lease Serial No.		
BUREAU OF LAN			2	NM-92160 6. If Indian, Allotee or	Tribe Name	
APPLICATION FOR PERM	IT TO DRILL OR I	REENTER				
1a. Type of Work: X DRILL	REENTER	a a construction of the second		7. If Unit or CA Agreer	nent, Name and No.	
· ,					015-3718	
1b. Type of Well: X Oil Well Gas Well Other	Zone	 Lease Name and We Chosa Draw 27 Fe 				
2. Name of Operator		ingle Zone Multiple		9. API Well No.		
Cimarex Energy Co. of Colorado				30-015-	·	
3a. Address	3b. Phone No.	(include area code)		10. Field and Pool, or E	1 5	
5215 N. O'Connor Bvd., Ste. 1500; Irving, TX 75039 4. Location of Well (Report location clearly and in accorded	972-401-3			Cottonwood Drav 11. Sec., T. R. M. or Blk. a	v; Delaware, North	
4. Location of well (<i>Report tocation clearly and in accorda</i> At Surface 330 FSL & 1750 FEL	nice with any state re	.quii cincino. j			and bury of Filed	
	· · · · · · · · · · · ·	Deleurus T		27-25S-26E		
At proposed prod. Zone 2310 FSL & 1900 FEL 14. Distance in miles and direction from nearest town or po		l Delaware Test		12. County or Parish	13. State	
				Eddy	NM	
15 Distance from proposed* location to nearest	16. No of acr	es in lease	17. Spac	cing Unit dedicated to this we	211	
property or lease line, ft.						
(Also to nearest drig, unit line if 330		1320		W2SE 80 ac	res	
18 Distance from proposed location* to nearest well, drilling, completed,	19. Proposed	-	20. BLN	I/BIA Bond No. on File		
applied for, on this lease, ft.		<u>tical</u> 3800' D 4914' TVD 3007'			-	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		nate date work will start*	L •	NM-257 23. Estimated duration	J	
3320' GR	24	04.15.09 Attachments		20-25	aays	
The following, completed in accordance with the requirement			e attached	to this form:		
 Well plat certified by a registered surveyor 				ions unless covered by an exis	sting bond on file (see	
 A Drilling Plan A Surface Use Plan (if the location is on National Forest) 	System Lands, the	Item 20 above 5. Operator Cert	/			
SUPO shall be filed with the appropriate Forest Service C			e specific i	nformation and/or plans as m	ay be required by the	
25. Signature	Name	(Printed/Typed)		ta na madala Alta Sta n	Date	
Zerofanis	Zen	o Farris			02.25.09	
Title						
Manager Operations Administration Approved By (Signature)		(Printed/Typed)			Date	
/s/ Don Peterson	D	/6/ 0	ion Pe	terson	JUL 1 0 2009	
THOR FIELD MANIAGES	Office	_				
FIELD MANAGER	lds legal or equitable tit	CARLSBAD le to those rights in the subj			L	
conduct operations thereon. Conditions of approval, if any, are attached.	- •	_ •		OVAL FOR TW		
Title 18 U.S.S. Section 1001 and Title 43 U.S.C. Section 1212, make			make to any	y department or agency of the Un	W YEARS	
States any false, fictitious, or fraudulent statements or representation * (Instructions on page 2)	s as to any matter within					
E ATTACHED FUR		A	PPR	OVAL SUBJEC		
ONDITIONS OF APPROVAL		(GENE	RAL REQUIRE	MENIS	
				SPECIAL STIPU	JLATIONS	
CARLSBAD CONTROLLED WATER BASIT				CHED		

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DISTRICT I 5325 N. French Dr., Hobbs, NM 88240 DISTRICT II

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1301 W. Grand Avenue, Artosia, NM 88210 DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV 1220 S. St. Francis Dr., Santa Fr., NM 87505 State of New Mexico Energy, Minerals and Natural Resources Department Form C-102 Revised October 12, 2005

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

C AMENDED REPORT

API	Number	<i>(</i> 2 \	Pool Code			Pool Name /				
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Property	Code					rty Nan	ne —	Well Ni 4		
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OGRID N					Opera	tor Nan	no	······································	Eleva	
16268	83		CIM	AREX E	NERGY	CO.	OF COLORADO)	332	0'
		I			Surfac	· · · · · · · · · · · · · · · · · · ·				
UL or lot No.	Section	Township	Range	Lot Idn	Feet fro	m the	North/South line	Feet from the	East/West line	County
0	27	25 S	26 E		33	0	SOUTH	1750	EAST	EDDY
L	[1	Bottom	Hole Loc	eation I	f Diffe	erent From Sur	face		
UL or lot No.	Section	Township	Range	Lot Idn	Feet fro	m the	North/South line	Feet from the	East/West line	County
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Dedicated Acre	Joint o	r Infill Co	nsolidation (Code Or	der No.			L	<u> </u>	
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NU ALL	INABLE V						UNTIL ALL INTER APPROVED BY			AILU
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•						1		land includin	g the proposed bottom pant to a contract with neral or working interv	hole
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II				<u> </u>		- <u>+</u> ·		- the division.		
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	i					i		Signature	01- 1	Date
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<u>BHL</u> 330	FSL & 850	FEL	_					SURVE	OR CERTIFICA	TION
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Application to Drill **Chosa Draw 27 Federal No. 4** Cimarex Energy Co. of Colorado Unit O, Section 27 T25S-R26E, Eddy County, NM

In response to questions asked under Section II B of Bulletin NTL-6, the following information is provided for your consideration:

1. <u>Loca</u>	ation:	SHL	330 FSL	& 1750 FE	L					
		BHL	2310 FS	L & 1900 F	EL					
2. <u>Elev</u>	ation at	ove se	ea level:	3320'	GR					
3. Geologic name of surface formation:						Quaternery Alluvium Deposits				
4. <u>Drill</u>	<u>ing tool</u>	s and a	associated	lequipme	<u>nt:</u>	-	drilling rig using fluid as a circulating			
						medium for solids ren	noval.			
5. <u>Pro</u> p	posed di	rilling o	depth:	Vertical	3800	Lateral MD	4914' TVD 3007'			
		ops of	geologica	I markers:						
Тор	Salt			1063'		Cherry Canyon M3	2972'			
Base	e Salt			1658'		M3 TVD Target	3012'			
Bell	Canyon			1858'		Cherry Canyon L	3137'			
Ram	nsey Ss			1905'		Cherry Canyon K	3199'			
Che	rry Cany	/on		2834'		Cherry Canyon H	3515'			
7. <u>Pos</u>	<u>sible mi</u>	neral b	pearing fo	rmations:						
Bell	Canyon	I		Oil		17				
Ran	nsey Ss			Oil		oids Sand ?				
Che	rry Can	yon		Oil						

8. Proposed drilling Plan

After drilling and setting surface casing, drill to vertical TD 3800' and log. Set 5%" casing to 2760' and cross over to 2%" 2000 psi IJ fiberglass tubing underneath and cement in place. Drill out of the bottom of the 5%" with a 4%" bit and through cement and fiberglass tubing to KOP @ 2821' and kick off to drill the lateral. The fiberglass tubing effectively circulates cement to surface and plugs back the open hole.

Kick off 4¾" hole @ 2821.' Drill to TD 4914.' Run 2¾" PEAK liner from RSB packer @ 2660' to TD @ 4914.' Fracture treat through iso-ports using iso-packers.

Application to Drill Chosa Draw 27 Federal No. 4 Cimarex Energy Co. of Colorado Unit O, Section 27 T25S-R26E, Eddy County, NM

9. Mud Circulating System:

	an san in	Depti	h的意思。	Mud Wt	Visc	Fluid Loss	Type Mud
ļ	0'		440'	8.4 - 8.6	30-32	NC	FW spud mud. Add FW to control weight &
		to		0.4 - 0.0	30-32	NC	viscosity and paper to prevent seepage.
	440	·	2760'	9.9 - 10.0	28-29	NC	Saturated Brine. Sweep as needed to clean
	440	to	2760	9.9 - 10.0	20-29	NC	hole.
	2,821'	to	4,914'	9.5 - 9.8	28-30	NC	Cut brine. Sweep as needed to clean hole.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs. 7-16

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10. Casing Prop	<u>tram:</u>			20					
1946 1948 1949 1949 1949 646 194 1947 1949 1949	CHOIe Size	AZAMANARANA P.A. SAAN ANY	Depth	· 22、22、24、24、24、24、24、24、24、24、24、24、24、2	Casing	OD	Weight	Collar 🏷	Grade
Surface	12¼"	0'	to	<u>440'</u>	New	85⁄8"	24#	STC	J-55
Production	7%"	0'	to	2760'	New	51⁄2"	17#	J-55	LTC
Fiberglass tbg	7½"	2760'	to	3800'	New	21⁄8"	2.18#	Fiberglass	IJ
Lateral	4¾"	2660'	to	4914'	New	27s"	6.5#	EUE	L-80



11. Cementing Program:

at comenting rids	
Surface Casing	Lead: 150 sx 10:2 RFC (Class A) + 4 pps D24 + 0.125 pps D130, 14.20 ppg, 1.62 cuft/sx, 7.5 gps.
	Tail: 150 sx Class C + 2% S1 + 0.125 pps D130, 14.80 ppg, 1.34 cuft/sx, 6.29 gps.
	TOC Surface
Production casing	Lead: 550 sx 50:50 Poz:Class H + 5% D44 (bwow) + 6% D20 + 0.2% D46 + 0.125 pps D130, 11.90
and Fiberglass	ppg, 2.38 cuft/sx, 13.68 gps.
tubing	Tail: 400 sx TXI Lightweight + 1.33% D44 (bwow) + 0.1% D167 + 0.1% D65 + 0.1% D13, 13.00 ppg,
	1.40 cuft/sx, 7.24 gps.
	TOC Surface
Lateral	PEAK completion assembly will be used, so no cement is required.

Fresh water zones will be protected by setting 8%" casing at 440' and cementing to surface. Hydrocarbon zones will be protected by setting 5½" casing at 2760' and 2%" fiberglass tubing at 3800' and cementing to surface.

Collapse Factor **Burst Factor** Tension Factor 1.125 1.125 1.6

Application to Drill Chosa Draw 27 Federal No. 4 Cimarex Energy Co. of Colorado Unit O, Section 27 T25S-R26E, Eddy County, NM

12. Pressure control Equipment:

Exhibit "E". A 12¹/₄" 5000 PSI working pressure B.O.P. consisting of one set of blind rams and one set of pipe rams and a 5000 # annular type preventer. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. Rotating head below 440.' A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

BOP unit will be hydraulically operated. BOP will be nippled up and operated at least once a day while drilling and the blind rams will be operated when out of hole during trips. No abnormal pressure or temperature is expected while drilling. From the base of the surface pipe through the running of production casing, the well will be equipped with a 5000 psi BOP system.

We are requesting a variance for testing the $8\frac{1}{2}$ " surface casing from Onshore Order No. 2, which states that all casing strings below the conductor shall be pressure tested to 0.22 psi per foot or 1500 psi, whichever is greater, but not to exceed 70% of the manufacturer's stated maximum internal yield. We are requesting to test the $8\frac{1}{2}$ " casing to $\frac{1000 \text{ psi using rig pumps.}}{1000 \text{ psi using rig pumps.}}$ The BOP will be tested to 3000 psi by an independent service company.

13. Testing, Logging and Coring Program:

- A. Mud logging program: No mud logging program.
- B. Electric logging program: CNL / LDT / CAL / GR, DLL / CAL / GR
- C. No DSTs or cores are planned at this time.
- 14. Potential Hazards:

No abnormal pressures or temperatures are expected. In accordance with Onshore Order 6, Cimarex has encountered H_2S in a one-time encounter in an Intra-salt Pocket and while drilling and completing wells in the Delaware Mountain Group. In this regard, attached is an H_2S Drilling Operations Plan. The ROEs encountered do not meet the BLM's minimum requirements for the submission of a "Public Protection Plan" for the drilling and completion of this well. Adequate flare lines will be installed off the mud / gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

Estimated BHP 2300 psi Estimated BHT 110°

15. Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved.

Drilling expected to take 10-15 days

If production casing is run an additional 30 days will be required to complete and construct surface facilities.

16. Other Facets of Operations:

After running casing, cased hole gamma ray neutron collar logs will be run from total depth over possible pay intervals.

<u>Delaware</u> pay will be perforated and stimulated.

The proposed well will be tested and potentialed as an oil well.



DRILLING PROGNOSIS Cimarex Energy Company

2/25/2009

Well: Location: Chosa Draw 27 Federal No. 4 Unit O, Section 27 T25S-R26E, Eddy County, NM

Field:Cottonwood Draw; Delaware, NorthObjective:Cherry Canyon

Hole Size	Form	nation Tops	Other	Logs	Bit IADC	Cen	nent	Mud Weight
12 1/4"	8-5/8", 24#,	J55, LTC @ ± 44	40'		IADC Type 111	Lead Slurry: 150 sx 10:2 RFC (Class A) + 4 pps D24 + 0.125 pps D130, 14.20 ppg, 1.62 cuft/sx, 7.5 gps.	Tail Slurry: 150 sx Class C + 2% S1 + 0.125 pps D130, 14.80 ppg, 1.34 cuft/sx, 6.29 gps.	
7-7/8"	1	', 17#, J55, LT&(Fiberglass tbg	-			Wash/Spacer. 20 bbls of fresh water. Lead Sturry: 550 sx 50:50 Poz:Class H + 5% D44 (bww) + 6% D20 + 0.2% D46 + 0.125 pps D130, 11.30 ppg, 2.38 cutftsx, 13.68 gps.	Tail Sturry: 400 sx TXI Lightweight + 1.33% D44 (bwow) + 0.1% D167 + 0.1% D65 + 0.1% D13, 13.00 ppg, 1.40 cuft/sx, 7.24 gps.	9.8-10 Saturated Brine
	•.	@ 2821' surve at 30/100						
			Drill out o 4 3/4"	f casing and d		ass tbg with 4 3/ D and run peak li		(ick off to drill
3800' ▼	ن میں ا <u>است</u> میں میں میں میں میں							

NOTES: Drill to 3800'. Run 2650' 5 1/2" casing with 2 7/8" fiberglass tubing below to 3800'. Pump cement job to cement fiberglass and casing inplace. With 4 3/4" bit, drill out float collar and drill up fiberglass tubing to KOP. Kickoff and drill lateral to TD. Will run openhole paker liner system.

Cimarex Energy Co.

Eddy County (NM83E) Sec 27-T25S-R26E Chosa Draw 27 Fed #4 Wellbore #1

Plan: 02-20-09

Standard Planning Report

20 February, 2009

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Planning Report

From: Map Easting: 559,691.10ft Longitude: 104° 16' 26.63 Position Uncertainty: 0.0 ft Slot Radius: "Grid Convergence: 0.03 Weil Chosa Draw 27.Fed #4 Augusta Slot Radius: Slot Radius: Slot Radius: 398,102.40 ft Latitude: 32° 5' 40.00	Company: Ci Project: Ec Site: Se Well: Ci Wellbore: W	marex Ener Idy County (22.27-T25S- 105a Draw 2 ellbore #1	NM83E) R26E	Db		Local (Co-or TVD Referen MD Referen North Refer Survey Calc	nce: ce: ence:		WELL @ 0.0	Draw 27 Fed #4 ft (Original Well ft (Original Well rvature	Elëv) Elev)
Geo Datum: Map Zone: North American Datum 1983 New Mexico Eastern Zone Site J Sec 27:T255-R26E Site J Sec 27:T255-R26E Site J Sec 27:T255-R26E Site Position: Map Easting: 559,691.10ft Longitude: 32* 5* 40.0 From: Map Easting: 559,691.10ft Longitude: 104* 16* 26.63 Position Uncertainty: 0.0 ft Slot Radius: "Grid Convergence: 0.33 Well Choss Draw 27.Fed #4 Constitution: 104* 16* 40.01 Latitude: 32* 5* 40.0 Position Uncertainty 0.0 ft Easting: 558,541.30 ft Longitude: 104* 16* 40.01 Position Uncertainty 0.0 ft Wellhead Elevation: ft Ground Level: 0.1 Wellbore: Wellbore #1 Magnetics Model Name: Sample/Date Declination Dip Angle Field Strengthi Magnetics Desition Phase: PLAN Tie On Depth: 0.0 <	Project [,]	Eddy Cou	ntý (NM83E)							میں	
Site Position: Map Northing: 398,100.70 ft Latitude: 32° 5′ 40.0 Position Uncertainty: 0.0 ft Slot Radius: "Grid Convergence: 0.03 Welt [Chosa Draw 27, Fed #4]	Geo Datum:	North Amer	ican Datum 1			System Da	tum:		Mean Sea Le	evel	
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+E/-W 0.0 ft Easting: 558,541.30 ft Longitude: 104° 16' 40.00 Position Uncertainty 0.0 ft Wellbead Elevation: ft Ground Level: 0.0 Wellbore Wellbore #1	Well	Chosa Dra	aw 27 Fed #4						<u>.</u>	· · · · · · · · · · · · · · · · · · ·	
Wellbore Wellbore #1 Magnetics Model Name Sample Date Declination Dip Angle Field Strengthi (*) IGRF200510 2009/02/20 8.16 60.01 48,742 Design [02-20-09 2009/02/20 8.16 60.01 48,742 Design [02-20-09 2009/02/20 8.16 60.01 48,742 Audit Notes: Phase: PLAN Tie On Depth: 0.0 Vertical Section: Depth From (TVD) +N/-S' +E/-W Direction (ft) (ft) (ft) (ft) (ft) (ft) (ft) 0.0 0.0 0.0 0.0 356.25 (ft) Target Plan Sections Doglèg: Build: Turn Tro Tro Tro Measured Vertical Doglèg: Build: Turn Tro Target 0.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Well Position		0.0 fi	t Eas	ting:			Dft I	ongitude:	₩,4,₩,4,₩44,4,0*******	32° 5' 40.023 104° 16' 40.001 V
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Planning Report

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Bell Canyon 1,905.0 Ramsey Ss	0.00	0.00	1,905.0	0.0	0.0	0.0	0.00	0.00	0.00
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COMPASS 2003.16 Build 42

Quantum

Planning Report

Database: EDM 2003.16 Company: Cimarex Enel Project: Eddy County Site: Sec 27.725S Well: Chosa Draw Wellbore: Wellbore #1 Design: 02-20-09	(NM83E) -R26E	56	TVD Referen MD Reference North Refere	e: WELL @ 0.0ft (Original Well Elev)
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1,063.0	1,063.0	Top Salt		0.00
1,905.0	1,905.0	Ramsey Ss		0.00
	3,800.0	TD (Pilot Hole)		0.00
1,858.0	1,858.0	Bell Canyon		0.00
	3,515.0	Cherry Canyon H		0.00
	3,199.0	Cherry Canyon K		0.00
Plan Annotations				
a series a s	Vertical Depth (ft)	Local Coordii +N/-S (ft):	+É/-W	Çomment.
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Eddy County, NM





Hydrogen Sulfide Drilling Operations Plan Chosa Draw 27 Federal No. 4 Cimarex Energy Co. of Colorado Unit O, Section 27 T25S-R26E, Eddy County, NM

H₂S equipment will be rigged up at Surface. The plan should be implemented before drilling out from the surface.

1. Due to a one-time encounter on a previous well, an Intra-salt Pocket was charged with H₂S and a burnable amount of hydrocarbons.

First Potential Problem Zone:		
Initial suspected problem zone	Salt Zone @ 1,333'	
Potential Open Flow Capacity	1 mcf	•
Expected H ₂ S Concentration	11,000 ppm	
100' ROE	6'	
500' ROE	3'	

Cimarex will have 24-hour H₂S Safety Supervisors on location while drilling the first 2,000' on this well.

2. Second Potential Problem Zone:

Initial suspected problem zone	Delaware Mountain Group @ 1,800'
Potential Open Flow Capacity	100 mcf
Expected H ₂ S Concentration	1,000 ppm
100' ROE	24'
500' ROE	11'

- 3. 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. Proper use of safety equipment and life support systems.
 - D. Principle and operation of H₂S detectors, warning system and briefing areas.
 - E. Evacuation procedure, routes and first aid.
 - F. Proper use of 30 minute pressure demand air pack.
- 4. <u>H₂S Detection and Alarm Systems:</u>
 - A. H₂S detectors and audio alarm system to be located at bell nipple, end of flow line (mud pit) and on derrick floor or doghouse.
- 5. Windsock and/or wind streamers:
 - A. Windsock at mudpit area should be high enough to be visible.
 - B. Windsock at briefing area should be high enough to be visible.
- 6. 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 emergency personnel admitted to location.

Hydrogen Sulfide Drilling Operations Plan Chosa Draw 27 Federal No. 4 Cimarex Energy Co. of Colorado Unit O, Section 27 T25S-R26E, Eddy County, NM

7. <u>Well control equipment:</u>

A. See exhibit "E"

8. Communication:

- 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.
- 9. Drillstem Testing:

No DSTs or cores are planned at this time.

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

H₂S Contingency Plan Chosa Draw 27 Federal No. 4 Cimarex Energy Co. of Colorado Unit O, Section 27 T25S-R26E, Eddy County, NM

Emergency Procedures

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

- \star Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- ★ Evacuate any public places encompassed by the 100 ppm ROE.
- \star 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 response.
- ★ 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 (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas.

Characteristics of H₂S and SO₂

Common	Chemical	Specific	Threshold		Lethal
Name	Formula	Gravity	Limit	Hazardous Limit	Concentration
Hydrogen Sulfide	H₂S	1.189 Air=1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air=1	2 ppm	N/A	1000 ppm

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).

Page	22	01	f 46
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Cimarex Energy Co. of Colorado		800-969-4789		
Co. Office and After-Hours Mer	าน			
Key Personnel				
Name	Title	Office		Mobile
Doug Park	Drilling Manager	972-443-6463		972-333-1407
Dee Smith	Drilling Super	972-443-6491		972-882-1010
Jim Evans	Drilling Super	972-443-6451		972-465-6564
Roy Shirley	Field Super			432-634-2136
•	•			
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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 Co	ommittee	575-746-2122		
New Mexico Oil Conservatio		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 C	· · · · · · · · · · · · · · · · · · ·	575-887-6544		
US Bureau of Land Manager	nent	575-887-6544		
Santa Fe		••••• • • • • • • • • • • • • • • • •		
	ponse Commission (Santa Fe)	505-476-9600		
	ponse Commission (Santa Fe) 24 Hrs	505-827-9126		
New Mexico State Emergen	cy Uperations Center	505-476-9635		
l National				
National Emorgancy Person	co Contor (Washington, D.C.)	800-424-8802		
National Energency Respon	se Center (Washington, D.C.)	0UU-424-88U2		
Medical				
Flight for Life - 4000 24th St	.: Lubbock. TX	806-743-9911		
Aerocare - R3, Box 49F; Lub		806-747-8923		
	ale Blvd S.E., #D3; Albuquerque, NM	505-842-4433		
	lark Carr Loop S.E.; Albuquerque, NM	505-842-4949		
	· · · · · · · · · · · · · · · · · · ·			
Other				
Boots & Coots IWC		800-256-9688	or	281-931-8884
Cudd Pressure Control		432-699-0139	or	432-563-3356
Halliburton		575-746-2757		
B.J. Services		575-746-3569		

Surface Use Plan Chosa Draw 27 Federal No. 4 Cimarex Energy Co. of Colorado Unit O, Section 27 T25S-R26E, Eddy County, NM

- Existing Roads: Area maps, Exhibit "B" is a reproduction of Eddy Co. General Highway Map. Exhibit "C" is a reproduction of a USGS Topographic Map, showing existing roads and proposed roads. All existing roads will be maintained in a condition equal to or better than current conditions. Any new roads will be constructed to BLM specifications.
 - A. Exhibit "A" shows the proposed well site as staked.
 - B. From the junction of Black River Village and John D Forehand, go South on John D Forehand for 10.1 miles to Prickly Pear. On Prickly Pear, go Northwest 0.9 miles to lease road. Go westerly on lease road for 0.9 miles to proposed lease road.
- 2. <u>Planned Access Roads:</u> 1138' of proposed newly constructed access road and 4596' upgraded access road to Prickpear. A federal ROW will be obtained.
- 3. Location of Existing Wells in a One-Mile Radius Exhibit A
 - A. Water wells None known
 - B. Disposal wells None known
 - C. Drilling wells None known
 - D. Producing wells As shown on Exhibit "A"
 - E. Abandoned wells As shown on Exhibit "A"
- 4. If on completion this well is a producer, Cimarex Energy Co. of Colorado will furnish maps and/or plats showing on site facilities or off site facilities if needed. This will be accompanied by a Sundry Notice.
- 5. Location and Type of Water Supply:

Water will be purchased locally from a commercial source and trucked over the access roads or piped in flexible lines laid on top of the ground.

6. Source of Construction Material:

If possible, construction will be obtained from the excavation of drill site. If additional material is needed, it will be purchased from a local source and transported over the access route as shown on Exhibit "C".

7. Methods of Handling Waste Material:

- A. Drill cuttings will be seperated by a series of solids removal equipment and stored in steel containment pits and then hauled to a state-approved disposal facility.
- B. All trash, junk and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed all contents will be removed and disposed of in an approved sanitary land fill.
- C. Salts remaining after completion of well will be picked up by supplier including broken sacks.
- D. Sewage from living quarters will drain into holding tanks and be cleaned out periodically. A Porta-John will be provided for the rig crews. This equipment will be properly maintained during the drilling operations and removed upon completion of the well.
- E. Drilling fluids will be contained in steel pits in a closed circulating system. Fluids will be cleaned and reused. Water produced during testing will be contained in the steel pits and disposed of at a state approved disposal facility. Any oil or condensate produced will be stored in test tanks until sold and hauled from the site.

Surface Use Plan Chosa Draw 27 Federal No. 4 Cimarex Energy Co. of Colorado Unit O, Section 27 T25S-R26E, Eddy County, NM

8. Ancillary Facilities:

A. No camps or airstrips to be constructed.

9. Well Site Layout:

- A. Exhibit "D" shows location and rig layout.
- C. Mud pits in the closed circulating system will be steel pits and the cuttings will be stored in steel containment pits.
- D. Cuttings will be stored in steel pits until they are hauled to a state-approved disposal facility.
- E. If the well is a producer, those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.

10. Plans for Restoration of Surface:

Rehabilitation of the location will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or a dry hole.

Drainage systems, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may need to be modified in certain circumstances to prevent inundation of the location's pad and surface facilities. After the area has been shaped and contoured, topsoil from the spoil pile will be placed over the disturbed area to the extent possible. Revegetation procedures will comply with BLM standards.

If the well is a dry hole, the pad and road area will be recountoured to match the existing terrain. Topsoil will be spread to the extent possible. Revegetation will comply with BLM standards.

Should the well be a producer, the previously noted procedures will apply to those areas which are not required for production facilities.

11 Other Information

- A. Topography consists of a sloping plane with loose tan sands. Vegetation is mainly yucca, mesquite and shin oak.
- B. The wellsite is on surface owned by Department of the Interior, Bureau of Land Management. The land is used mainly for farming, cattle ranching, recreational use, and oil and gas production.
- C. An Archaeological survey will be conducted on the location and proposed roads, and this report will be filed with the Bureau of Land Management in the Carlsbad BLM office.
- D. There are no know dwellings within 1½ miles of this location.

Operator Certification Statement Chosa Draw 27 Federal No. 4 Cimarex Energy Co. of Colorado Unit O, Section 27 T25S-R26E, Eddy County, NM

Operator's Representative Cimarex Energy Co. of Colorado 5215 N. O'Connor blvd ste 1500 Irving, TX 75039 Office Phone: (972) 443-6489 Zeno Farris

CERTIFICATION: I hereby certify that the statements and plans made in this APD are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Cimarex Energy Co. of Colorado and/or its contractors/subcontractors and is in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provision of U.S.C. 1001 for the filing of a false statement.

NAME:	Zeno Famis
-	Zeno Farris
DATE:	February 25, 2009

TITLE: Manager Operations Administration

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PECOS DISTRICT CONDITIONS OF APPROVAL

Page 30 of 46

OPERATOR'S NAME:	Cimaray Energy Co. of Calarada
,	Cimarex Energy Co of Colorado NM92160
	4 Chosa Draw 27 Fed
	330' FSL & 1750' FEL
	2310' FSL & 1900' FEL
	Section 27, T. 25 S., R 26 E., NMPM
	Eddy County, New Mexico
COUNT1.	Eddy County, New Mexico
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) apply to this APD. If any deviations to these standards exist or on with the deviation or requirement will be checked below.
special COAs are required, the seen	with the deviation of requirement will be checked below.
General Provisions	
Permit Expiration	
Archaeology, Paleontology, a	nd Historical Sites
Noxious Weeds	
Special Requirements	
Cave/Karst	
Construction	
Notification	
Topsoil	
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Federal Mineral Material P	its
Well Pads	
Roads	
Road Section Diagram	
🕅 Drilling	
Critical cave/karst – poss	ible contingency casing
Onshore Order 6 – H2S r	
Production (Post Drilling)	
Well Structures & Facilities	S
Pipelines	
Electric Lines	
Closed Loop System/Interim	Reclamation
🗌 Final Abandonment/Reclama	

Page 1 of 16

GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

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

SPECIAL REQUIREMENT(S)

Cave/Karst Surface Mitigation

The following stipulations will be applied to minimize impacts during construction, drilling and production.

Construction:

In the advent that any underground voids are opened up during construction activities, construction activities will be halted and the BLM will be notified immediately.

No Blasting:

No blasting will be utilized for pad construction. The pad will be constructed and leveled by adding the necessary fill and caliche.

Pad Berming:

The pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the pad. All sides of the pad will be bermed.

Tank Battery Liners and Berms:

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain $1\frac{1}{2}$ times the content of the largest tank.

Leak Detection System:

A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating values and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present. Leak detection plan will be submitted to BLM for approval.

Automatic Shut-off Systems:

Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Cave/Karst Subsurface Mitigation

The following stipulations will be applied to protect cave/karst and ground water concerns:

Rotary Drilling with Fresh Water:

Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

Directional Drilling:

Kick off for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. SEE ALSO: Drilling COAs for this well.

Page 3 of 16

Fluorescent Dyes:

Nontoxic Fluorescent dyes will be added to the drilling fluid when the hole is spudded and will be circulated to the bottom of the karst layers. BLM must witness the dye being injected.

Florescene Dye (Acid Yellow 73):

Thirty-two (32) ounces dry powder Florescene (Acid Yellow 73) dye will be added to the drilling fluid before the well is spudded AND to the pre-flush fluids of the surface interval of casing.

These dyes will track the fluids if lost circulation occurs.

Arrangements will be made to have BLM witness the dye being injected prior to spudding the hole and before the pre-flush of the surface casing. Contact the BLM drilling on call phone at (575) 361-2822 to make arrangements.

Lost Circulation:

ALL lost circulation zones from the surface to the base of the cave occurrence zone will be logged and reported in the drilling report.

Regardless of the type of drilling machinery used, if a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cavebearing zone, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

Upon well abandonment in high cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

Annual pressure monitoring will be performed by the operator on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

Page 4 of 16

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5972 at least 3 working days prior to commencing construction of the access road and/or well pad.

Page 34 of 46

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

B. TOPSOIL

The operator shall stockpile the topsoil of the well pad. The topsoil to be stripped is approximately 6 inches in depth. The topsoil shall not be used to backfill the reserve pit and will be used for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Although this is a closed loop system and no reserve pit will be utilized, due to the orientation of the road, the v-door will be on the West side of the location.

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

If the operator elects to surface the access road and/or well pad, mineral materials extracted during construction of the reserve pit may be used for surfacing the well pad and access road and other facilities on the lease.

Payment shall be made to the BLM prior to removal of any additional federal mineral materials from any site other than the reserve pit. Call the Carlsbad Field Office at (575) 234-5972.

WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

Page 5 of 16

E. -

F.

ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thirty (30) feet.

Surfacing

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

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:



Page 6 of 16

Drainage

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

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



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

Formula for Spacing Interval of Lead-off Ditches

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

400 foot road with 4% road slope: 400' + 100' = 200' lead-off ditch interval

. 4%

Culvert Installations

Down Slope Side

Appropriately sized culvert(s) shall be installed at the deep waterway channel flow crossing.

Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations.

A gate shall be constructed and fastened securely to H-braces.

Page 7 of 16

Fence Requirement

Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Public Access

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

Page 8 of 16

Figure 1 – Cross Sections and Plans For Typical Road Sections



Page 9 of 16

VII. DRILLING

DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

A Hydrogen Sulfide (H2S) Drilling Plan should be activated 500 feet prior to drilling into the **Delaware** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please report measured amounts and formations to the BLM.

2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.

B. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

CRITICAL CAVE/KARST – CONTINGENCY CASING WILL BE REQUIRED IF LOST CIRCULATION OCCURS WHILE DRILLING THE SURFACE HOLE. THE SURFACE HOLE WILL HAVE TO BE REAMED AND A LARGER CASING INSTALLED. IF LOST CIRCULATION OCCURS WHILE DRILLING THE 7-7/8" HOLE, THE CEMENT PROGRAM FOR THE 5-1/2" CASING WILL NEED TO BE MODIFIED AND <u>THE BLM IS TO BE CONTACTED PRIOR TO RUNNING THE CASING.</u> A MINIMUM OF TWO CASING STRINGS CEMENTED TO SURFACE IS REQUIRED IN HIGH CAVE/KARST AREAS. THE CEMENT MUST BE IN A SOLID SHEATH THEREFORE, ONE INCH OPERATIONS WILL NOT BE PERMITTED. A DV TOOL WILL BE REQUIRED.

Possible lost circulation in the Delaware.

- 1. The 8-5/8 inch surface casing shall be set at **approximately 375** feet and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial action will be done prior to drilling out that string.

The minimum required fill of cement behind the 5-1/2 inch production casing is:

- Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst concerns.
- 3. The minimum required fill of cement behind the 2-7/8 inch production-liner is:
 - Cement not required using Peak System completion assembly. Completion assembly to be set a minimum of 100' inside 5-1/2" casing.

If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

age 41 of 46

PRESSURE CONTROL

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- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi. **Operator installing 5M system and testing as 3M.**
- 3. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. The tests shall be done by an independent service company.
 - b. The results of the test shall be reported to the appropriate BLM office.
 - c. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - d. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.
 - e. Effective November 1, 2008, no variances will be granted on reduced pressure tests on the surface casing and BOP/BOPE. Onshore Order 2 requirements will be in effect.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

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Page 12 of 16 -

VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

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

Containment Structures

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color Shale Green, Munsell Soil Color Chart # 5Y 4/2

Page 13 of 16

Page 42 of 46

A.

IX. INTERIM RECLAMATION & RESEEDING PROCEDURE

INTERIM RECLAMATION

If the well is a producer, interim reclamation shall be conducted on the well site in accordance with the orders of the Authorized Officer. The operator shall submit a Sundry Notices and Reports on Wells (Notice of Intent), Form 3160-5, prior to conducting interim reclamation.

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

Operators should work with BLM surface management specialists to devise the best strategies to reduce the size of the location. Any reductions should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

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

B. RESEEDING PROCEDURE

Once the well has been drilled, all completion procedures have been accomplished, and all trash removed, reseed the location and all surrounding disturbed areas as follows:

Page 14 of 16

Seed Mixture 4, for Gypsum Sites

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

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

lb/acre

1.0 5.0

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

Species.

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Alkali Sac	caton (Sporob	olus airo	ides)	· -		ί.
DWS Fou	r-wing saltbu	ısh (Atrip	lex ca	anescens)		

DWS: DeWinged Seed

*Pounds of pure live seed:

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

Page 15 of 16

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X. FINAL ABANDONMENT & REHABILITATION REQUIREMENTS

Upon abandonment of the well and/or when the access road is no longer in service the Authorized Officer shall issue instructions and/or orders for surface reclamation and restoration of all disturbed areas.

On private surface/federal mineral estate land the reclamation procedures on the road and well pad shall be accomplished in accordance with the private surface land owner agreement.

Page 16 of 16

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

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

District III

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

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

CONDITIONS

Dperator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	56000
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
bhall	Accepted for record.	3/21/2023

CONDITIONS

Page 46 of 46

Action 56000