FORM APPROVED

MAY - 5 2008 OCD-ARTESIA

Form 3160-3 (April 2004) 6

580

(April 2004)			(OCD-A	1/ 1 TW31/	m.		1004-0137 rch 31, 2007		
	UNITED S	STATES				5. Lease Serial No.			
	DEPARTMENT OF	THE INTER	RIOR			NM-94076			
	BUREAU OF LAND	MANAGEN	MENT			6. If Indian, Allotee or	Tribe Nam	e	
	APPLICATION FOR PERMIT	TO DRILL O	R REENTER						
1a. Type of Work:	K DRILL R	EENTER				7. If Unit or CA Agreer	nent, Nam	e and No) .
1b. Type of Well X	Oil Well Gas Well Other	Г	X Single Zone	Multiple	e Zone	8. Lease Name and We			
Name of Operator			<u> </u>	<u> </u>		Pintail 23 Federal 9. API Well No.	NO. 3		
Cimarex Energy	Co. of Colorado //	268	27			30-015- 36.3	25		
3a. Address	Co. of Colorado 7 &	, , , , , , , , , , , , , , , , , , , 	No. (ınclude ar	ea code)		10. Field and Pool, or E		,	
PO Box 140907		972-40	1_3111	,			; Delawa		1.5
Irving, TX 75014 4. Location of Well (F	Report location clearly and in accordance	1		*)		11. Sec., T. R. M. or Blk. a	and Survey o	or Area	<u></u>
At Surface	2310' FNL & 1980' FWL	•	•	,		,			
At proposed prod. Z		Horizo	ntal Delawar	e Test		23-25S-26E			
14. Distance in miles	and direction from nearest town or post					12 County or Parish	1	3 State	;
17 miles South o	of Carlsbad					Eddy.		NM	
15 Distance from prope	osed*	16. No of	acres in lease		17. Spac	ing Unit dedicated to this we	11	·	
location to nearest	0								
property or lease lin (Also to nearest drig						•			
any)	330'		360			E2NW 80			
18 Distance from propo to nearest well, drill		19. Propos	sed Depth		20 BLM	I/BIA Bond No on File			
applied for, on this		-	ilot Hole 340	0'					
	N/A	MD 489	98' TVI	3100'		NM-257:	5		
21. Elevations (Show	whether DF, KDB, RT, GL, etc.)	22. Appro	oximate date wo	rk will start	*	23 Estimated duration			
	3,291' GR		04.15.08			20-25	days		
		24	4. Attachmen	ts					
The following, complet	ed in accordance with the requirements	of Onshore Oil	and Gas Order	No 1, shall l	e attached	to this form:			
 A Drilling Plan A Surface Use Plan 	oy a registered surveyor (If the location is on National Forest System with the appropriate Forest Service Officered	,	5. O 6. S	em 20 above perator Cert	e). ification e specific in	ons unless covered by an exis		,	
25. Signature		. Nar	me (Printed/Typ	ped)			Date		
6	- and & any	2	Zeno Farris				1	03	.11.08
Title						,	•		
Manager Operat	ions Administration						_		
Approved By (Signatur	7s/ James Stovall	Nar	me (Printed/Typ	ped)			PAPR	3 0	2008
Title		Off	fice C	ARLSBAD	FIELD	FFICE			
If earthen pi	ts are used in	egal or equitable				ch would entitle the applicant to	l		
association v	with the drilling of this	1		_		FOR TWO YEAR	RS		
well, an OC	D pit permit must be	rime for any pe	erson knowingly o			department or agency of the Un			
obtained pri	ior to pit construction.		erson knowingiy a ithin its jurisdiction		ликс ю апу	department of agency of the Un	neu .		

Carlsbad Controlled Water Basin

SEE ATTACHED FOR CONDITIONS OF APPROVAL

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT IP 1301 W. Grand Avenue, Artesia, NM 88210

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fe. NM 67505

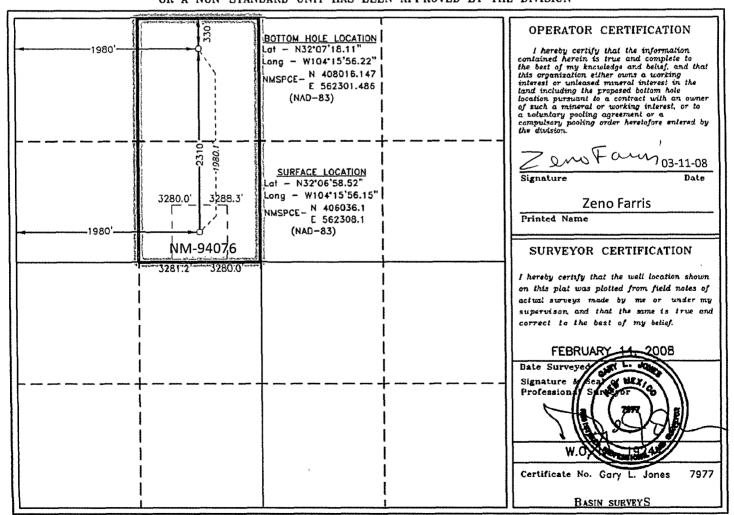
1220 South St. Francis Dr. Santa Fe, New Mexico 87505 DISTRICT IV

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API	Number		57	Cool Code		lulphat	Pool Name	elaware, SL	ے
Property	Code		<u></u>		Property Nam	ie /	·	Well No	ımber
340	12			PIN	TAIL "23" FE	EDERAL		3	
OGRID N	٥.				Operator Nam	ie		Elevation	
16268	33	CIMA			NERGY CO. OF COLORADO 3291'				
Surface Location									
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	23	25 S	26 E		2310	NORTH	1980	WEST	EDDY
		<u> </u>	Bottom	Hole Loc	cation If Diffe	rent From Sur	face		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
С	23	25 S	26 E		330	NORTH	1980	WEST	EDDY
Dedicated Acre	s Joint o	r Infill Co	onsolidation (Code Or	der No.				
80									

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



SECTION 23, TOWNSHIP 25 SOUTH, RANGE 26 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO. 3280.0 600 150' NORTH OFF SET 3295.3 CIMAREX ENERGY CO. OF COLORADO PINTAIL "23" FEDERAL #3 150' EAST OFF SET ELEV. - 3291' 150' WEST OFF SET 🗆 0 3287.8 Lat.-N 32'06'58.52" Long-W 104'15'56.15" (NAD-83) 150' SOUTH OFF SET 3284.6 3281.27 600 3280.01 200 200 400 FEET SCALE: 1" = 200' Directions to Location: CIMAREX ENERGY CO. OF COLORADO FROM JUNCTION OF BLACK RIVER VILLAGE AND OLD CAVERN HWY, GO SOUTH 7.1 MILES TO LEASE ROAD, ON LEASE ROAD TURN WEST FOR 0.9 MILES TO OLD PAD, ON LEASE ROAD GO SOUTHWEST 1.4 MILES TO PINTAIL "23" FEDERAL #3 / WELL PAD TOPO THE PINTAIL "23" FEDERAL #3 LOCATED 2310' LEASE ROAD, ON LEASE ROAD GO SOUTHEAST 0.1 MILES TO PROPOSED LEASE ROAD. FROM THE NORTH LINE AND 1980' FROM THE WEST LINE OF SECTION 23, TOWNSHIP 25 SOUTH, RANGE 26 EAST, BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO W.O. Number: 19244 Drawn By: J. SMALL N.M.P.M., EDDY COUNTY, NEW MEXICO. Sheets Sheet Date: 02-18-2008 Disk: JMS 19244W Survey Date: 02-14-2008

Application to Drill Cimarex Energy Co. of Colorado Pintail 23 Federal No. 3

Unit F, Section 23 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 Location:

SHL 2310' FNL & 1980' FWL

BHL 330' FNL & 1980' FWL

2 Elevation above sea level:

3,291 GR

3 Geologic name of surface formation:

Quaternery Alluvium Deposits

4 Drilling tools and associated equipment:

Conventional rotary drilling rig using fluid as a

circulating medium for solids removal.

5 Proposed drilling depth:

MD 4898'

TVD 3100'

6 Estimated tops of geological markers:

Base Salt

1,640'

Bell Canyon

1,830'

Cherry Canyon

2,8051

7 Possible mineral bearing formation:

Cherry Canyon

Oil

8 Proposed Mud Circulating System:

	Depth		Mud Wt Visc		Fluid Loss	Type Mud
0'	to	315'	8.5	28	NC	FW -
315'	to	3,100'	9.8 - 10.2	40-45	NC	Brine
3,100'	to	MD 4898' TVD 3000'	9.0 - 9.2	30-32	NC	Cut Brine

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.

Application to Drill Cimarex Energy Co. of Colorado Pintail 23 Federal No. 3

Unit F, Section 23 T25S-R26E, Eddy County, NM

9 Casing & Cementing Program:

String	Hole Size	1	Dept	th	Casin	ng OD	Weight	Thread	Collar	Grade
Surface	11"	0	to	315'	New	85/8"	23#	8-R	STC	J-55
Intermediate	7%"	0	to	3,100'	New	5½"	17#	8-R	LTC	L-80
Open Hole	4¾"	3,100'	to	MD 4898'	open	hole				
Lateral				TVD 3000'						
					or					
Lateral Liner Contingency	4¾"	3,100'	to	MD 4898' TVD 3000'	New	21/8"	6.5#	8-R	EUE	J-55
					or					
Peak Completion Assembly Contingency	4¾"	3,100'	to	MD 4898' TVD 3000'	New	2%"	6.5#	8-R	EUE	1-55

10 Cementing:

Surface

500 sx Class C + 2% CaCl₂ (wt 14.8, yld 1.34)

TOC Surface

Intermediate

Lead: 600 sx Class C Light + ¼# Flocele + 1# Gilsonite + 6% Gel + 12% Salt (wt 12.4, yld 2.37)

Tail: 400 sx Class C Neat + 2% CaCl₂ (wt 14.8, yld 1.34)

TOC Surface

Lateral Liner

If hole stability problems exist, set 2%" 6.5# J-55 slotted liner. TOL 3100' and BOL MD 4898' & TVD

Contingency

3000.1 No cement.

Peak Completion

If open hole completion is tight, run 2½" J-55 slotted liner. TOL 3100' and BOL MD 4898' & TVD 3000.'

Assembly

No cement. Frac as needed.

Contingency

Fresh water zones will be protected by setting 8%" casing at 315' and cementing to surface. Hydrocarbon zones will be protected by setting 5%" casing at 3340' and cementing to surface.

Collapse Factor	Burst Factor	Tension Factor
1.125	1.125	1.6

Application to Drill Cimarex Energy Co. of Colorado Pintail 23 Federal No. 3

Unit F, Section 23 T25S-R26E, Eddy County, NM

11 Pressure control Equipment:

Exhibit "E". A 11" 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 315'. 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 8½" 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 8½" casing to 1000 psi using cig pumps. The BOP will be tested to 3000 psi by an independent service company.

12 Testing, Logging and Coring Program:

- A. Mud logging 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.

13 Potential Hazards:

No abnormal pressures or temperatures are expected. The area has a potiential H2S hazard. An H2S drilling plan is attached. 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°

14 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.

15 Other Facets of Operations:

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

Delaware pay will be perforated and stimulated.

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

Cimarex Energy Co.

HALLIBURTON

Sperry Drilling Services

500

Project: Eddy County, NM Site: Pintail 23 Well: #3

Wellbore: Wellbore #1 Plan: Plan #1 (#3/Wellbore #1)

Rig: TBD



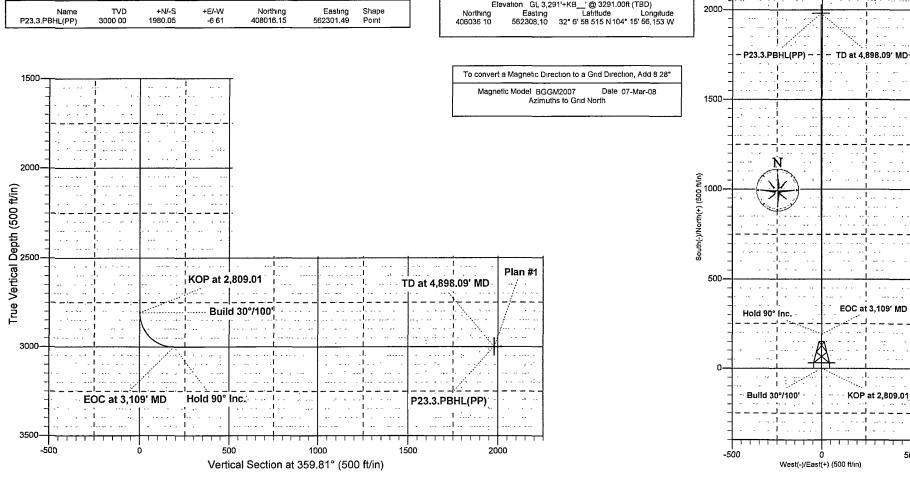
SECTION DETAILS									
Inc	Azı	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Annotation	
0.00	0 00	0 00	0 00	0.00	0.00	0.00	0 00		
0.00	0 00	2809 01	0 00	0.00	0.00	0.00	0 00	KOP at 2,809,01	
0 00	359.81	3000.00	190 98	-0.64	30,00	359 81	190,99	Hold 90° Inc.	
0.00	359 81	3000 00	1980 05	-6.61	0.00	0.00	1980.06	TD at 4,898 09' MD	
	0.00 0.00 00 0	0,00 0 00 0,00 0 00 0 00 359,81	0.00 0 00 0 00 0.00 0 00 2809 01 0 00 359.81 3000.00	0.00 0 00 0 00 0 00 0.00 0 00 2809 01 0 00 0 00 359.81 3000.00 190 98	0.00 0 00 0 00 0 00 0.00 0.00 0 00 2809 01 0 00 0.00 0 00 359.81 3000.00 190 98 -0.64	0.00 0 00 0 00 0 00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2809 01 0.00 0.00 0.00 0.00 0.00 0.00 359,81 3000,00 190 98 -0.64 30.00 359 81	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)									
Name	TVD	+N/-S	+E/-W	Northing	Easting 562301.49	Shape			
P23.3.PBHL(PP)	3000 00	1980.05	-6 61	408016,15		Point			

Surface Location: US State Plane 1983

New Mexico Eastern Zone Elevation GL 3,291'+KB__' @ 3291.00ft (TBD)

Easting Latittude Long 562308,10 32° 6′ 58 515 N 104° 15′ 56,153 W



Cimarex Energy Co.

Eddy County, NM Pintail 23 #3

Wellbore #1

Plan: Plan #1

Sperry Drilling ServicesProposal Report

10 March, 2008

Well Coordinates: $406,036.10 \text{ N}, 562,308.10 \text{ E} (32^{\circ}\ 06'\ 58.52"\ \text{N}, 104^{\circ}\ 15'\ 56.15"\ \text{W})$

Ground Level: 3,291.00 ft

Local Coordinate Origin:

Viewing Datum:

TVDs to System:

North Reference:

Unit System:

Centered on Well #3

GL 3,291'+KB_' @ 3291.00ft (TBD)

R 3291.00ft (TBD)

API - U.S. Survey Feet

Version: 2003.16 Build: 42B

HALLIBURTON

Plan Report for #3 - Plan #1

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
(.7	()	()	17	(14)	(1.4)	()	() ()	(, , , , , , ,	(,	()
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,809.01	0.00	0.00	2,809.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP at 2,	809.01 - Build	30°/100' 🧢 🗇	1 - 1 e - 15 - 1861	ي دينوني ۾ آگيرا	· ATT	the second the second	in the		402. 3	
2,900.00	27.30	359.81	2,896.60	21.27	-0.07	21.27	30.00	30.00	0.00	359.81
3,000.00	57.30	359.81	2,969.72	87.80	-0.29	87.80	30.00	30.00	0.00	0.00
3,100.00	87.30	359.81	2,999.79	181.97	-0.61	181.98	30.00	30.00	0.00	0.00
3,109.01	90.00	359.81	3,000.00	190.98	-0.64	190.98	30.00	30.00	0.00	0.00
	nc EOC at 3		NATE:			A. 11.24.		· · · · · · · · · · · · · · · · · · ·	* * * * *	·
3,200.00	90.00	359.81	3,000.00	281.97	-0.94	281.97	0.00	0.00	0.00	0.00
3,300.00	90.00	359.81	3,000.00	381.97	-1.28	381.97	0.00	0.00	0.00	0.00
3,400.00	90.00	359.81	3,000.00	481.97	-1.61	481.97	0.00	0.00	0.00	0.00
3,500.00	90.00	359.81	3,000.00	581.97	-1.94	581.97	0.00	0.00	0.00	0.00
3,600.00	90.00	359.81	3,000.00	681.97	-2.28	681.97	0.00	0.00	0.00	0.00
3,700.00	90.00	359.81	3,000.00	781.97	-2.61	781.97	0.00	0.00	0.00	0.00
3,800.00	90.00	359.81	3,000.00	881.97	-2.95	881.97	0.00	0.00	0.00	0.00
3,900.00	90.00	359.81	3,000.00	981.97	-3.28	981.97	0.00	0.00	0.00	0.00
4,000.00	90.00	359.81	3,000.00	1,081.97	-3.61	1,081.97	0.00	0.00	0.00	0.00
4,100.00		359.81	3,000.00	1,181.97	-3.95	1,181.97	0.00	0.00	0.00	0.00
4,200.00		359.81	3,000.00	1,281.96	-4.28	1,281.97	0.00	0.00	0.00	0.00
4,300.00		359.81	3,000.00	1,381.96	-4.62	1,381.97	0.00	0.00	0.00	0.00
4,400.00		359.81	3,000.00	1,481.96	-4.95	1,481.97	0.00	0.00	0.00	0.00
4,500.00		359.81	3,000.00	1,581.96	-5.28	1,581.97	0.00	0.00	0.00	0.00
4,600.00		359.81	3,000.00	1,681.96	-5.62	1,681.97	0.00	0.00	0.00	0.00
4,700.00		359.81	3,000.00	1,781.96	-5.95	1,781.97	0.00	0.00	0.00	0.00
4,800.00		359.81	3,000.00	1,881.96	-6.29	1,881.97	0.00	0.00	0.00	0.00
4,898.09	90.00	359.81	3,000.00	1,980.05	-6.61	1,980.06	0.00	0.00	0.00	0.00

Plan Report for #3 - Plan #1

Plan Annotations

Measured	Vertical	Local Coor			
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
2,809.01	2,809.01	0.00	0.00	KOP at 2,809.01	
2,809.01	2,809.01	0.00	0.00	Build 30°/100'	
3,109.01	3,000.00	190.98	-0.64	Hold 90° Inc.	
3,109.01	3,000.00	190.98	-0.64	EOC at 3,109' MD	
4,898.09	3,000.00	1.980.05	-6.61	TD at 4.898.09' MD	

Vertical Section Information

Angle			Origin	Orig	Start	
Туре	Target	Azimuth (°)	Type	+N/_S (ft)	+E/-W (ft)	TVD (ft)
Target	P23.3.PBHL(PP)	359.81	Slot	0.00	0.00	0.00

Survey tool program

From	То		Survey/Plan	Survey Tool
(ft)	(ft)			
0.00	4,898.09	Plan #1		MWD

Targets associated with this wellbore

	TVD	+N/-S	+E/-W	
Target Name	(ft)	(ft)	(ft)	Shape
P23.3.PBHL(PP)	3,000.00	1,980.05	-6.61	Point

North Reference Sheet for Pintail 23 - #3 - Wellbore #1

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to GL 3,291'+KB__' @ 3291.00ft (TBD). Northing and Easting are relative to #3

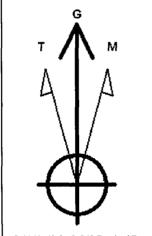
Coordinate System is US State Plane 1983, New Mexico Eastern Zone using datum North American Datum 1983, ellipsoid GRS 1980

Projection method is Transverse Mercator (Gauss-Kruger)
Central Meridian is -104.33°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:0° 0' 0.000 N°
False Easting: 541,337.50ft, False Northing: 0.00ft, Scale Reduction: 0.99990959

Grid Coordinates of Well: 406,036.10 ft N, 562,308.10 ft E Geographical Coordinates of Well: 32° 06' 58.52" N, 104° 15' 56.15" W Grid Convergence at Surface is: 0.04°

Based upon Minimum Curvature type calculations, at a Measured Depth of 4,898.09ft the Bottom Hole Displacement is 1,980.06ft in the Direction of 359.81° (Grid).

Magnetic Convergence at surface is: -8.28° (7 March 2008, , BGGM2007)



Magnetic Model.
Date: 07-Mar-08
Declination 8.32°
Inclination/Dip 60.05°
Field Strength: 48819

Grid North is 0.04° East of True North (Grid Convergence) agnetic North is 8.32° East of True North (Magnetic Declination) agnetic North is 8.28° East of Grid North (Magnetic Convergence)

To convert a True Direction to a Grid Direction, Subtract 0.04° convert a Magnetic Direction to a True Direction, Add 8.32° E ast To convert a Magnetic Direction to a Grid Direction, Add 8.28°

Pintail 23 Fed #3 Lateral Plan #1

Cimarex Energy Co. #3 - Plan #1

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Eddy County, NM Pintail 23 Your Ref:

Measured	Sub-Sea	Vertical	Local Coo	rdinates
UTM Coordinates Depth Incl. Azim. Northings Eastings	Vertical Depth	Dogleg Depth Rate	Northings	Eastings
Northings Eastings (ft) (ft) (ft)	Section (ft) (ft)	(ft) (°/100ft)	(ft)	(ft)
0.00 0.000 0.000 406036.100 N 562308.100 E	-3291.00	0.00	0.00 N	0.00 E
30.00 0.000 0.000 406036.100 N 562308.100 E	-3261.00	30.00 0.00	0.00 N	0.00 E
60.00 0.000 0.000 406036.100 N 562308.100 E	-3231.00	60.00 0.00	0.00 N	0.00 E
90.00 0.000 0.000 406036.100 N 562308.100 E		90.00 0.00	0.00 N	0.00 E
120.00 0.000 0.000 406036.100 N 562308.100 E	0.00	120.00	0.00 N	0.00 E
150.00 0.000 0.000 406036.100 N 562308.100 E	0.00	$\begin{array}{c} 150.00 \\ 0.00 \end{array}$	0.00 N	0.00 E
180.00 0.000 0.000 406036.100 N 562308.100 E	0.00	180.00 0.00	0.00 N	0.00 E
210.00 0.000 0.000 406036.100 N 562308.100 E	0.00	210.00 0.00	0.00 N	0.00 E
240.00 0.000 0.000 406036.100 N 562308.100 E 270.00 0.000 0.000	0.00	240.00 0.00 270.00	0.00 N 0.00 N	0.00 E 0.00 E
406036.100 N 562308.100 E 300.00 0.000	0.00	0.00 300.00	0.00 N	0.00 E
406036.100 N 562308.100 E 330.00 0.000 0.000	0.00	0.00 330.00	0.00 N	0.00 E
406036.100 N 562308.100 E 360.00 0.000 0.000	0.00	0.00 360.00	0.00 N	0.00 E
406036.100 N 562308.100 E 390.00 0.000 0.000	0.00	0.00 390.00	0.00 N	0.00 E
406036.100 N 562308.100 E 420.00 0.000 0.000	-2871.00	0.00 420.00	0.00 N	0.00 E
406036.100 N 562308.100 E 450.00 0.000 0.000	-2841.00	0.00 450.00	0.00 N	0.00 E
406036.100 N 562308.100 E 480.00 0.000 0.000 406036.100 N 562308.100 E	-2811.00	0.00 480.00	0.00 N	0.00 E
406036.100 N 562308.100 E 510.00 0.000 0.000 406036.100 N 562308.100 E	-2781.00	0.00 510.00 0.00	0.00 N	0.00 E
540.00 0.000 0.000 406036.100 N 562308.100 E	-2751.00	540.00 0.00	0.00 N	0.00 E
570.00 0.000 0.000 406036.100 N 562308.100 E	-2721.00 0.00	570.00 0.00	0.00 N	0.00 E
600.00 0.000 0.000 406036.100 N 562308.100 E	-2691.00 0.00	600.00 0.00	0.00 N	0.00 E
630.00 0.000 0.000 406036.100 N 562308.100 E	0.00	630.00 0.00	0.00 N	0.00 E
660.00 0.000 0.000 406036.100 N 562308.100 E	0.00	660.00	0.00 N	0.00 E
690.00 0.000 0.000		690.00 Page 1	0.00 N	0.00 E

Pir	ntail 23 Fed	#3 Lateral	Plan #1	
406036.100 N 562308.100 E	0.00	0.00		
720.00 0.000 0.000	-2571.00	720.00	0.00 N	0.00 E
406036.100 N 562308.100 E 750.00 0.000 0.000	0.00 -2541.00	0.00 750.00	0.00 N	0.00 E
406036.100 N 562308.100 E	0.00	0.00	0100 N	0.00 5
780.00 0.000 0.000	-2511.00	780.00	0.00 N	0.00 E
406036.100 N 562308.100 E 810.00 0.000 0.000	0.00 -2481.00	0.00 810.00	0.00 N	0.00 E
406036.100 N 562308.100 E	0.00	0.00	0.00 N	0.00 E
840.00 0.000 0.000	-2451.00	840.00	0.00 N	0.00 E
406036.100 N 562308.100 E	0.00	0.00	0.00 N	0 00 5
870.00 0.000 0.000 406036.100 N 562308.100 E	-2421.00 0.00	870.00 0.00	0.00 N	0.00 E
900.00 0.000 0.000	-2391.00	900.00	0.00 N	0.00 E
406036.100 N 562308.100 E	0.00	0.00	0.00	0 00 -
930.00 0.000 0.000 406036.100 N 562308.100 E	-2361.00 0.00	930.00 0.00	0.00 N	0.00 E
960.00 0.000 0.000	-2331.00	960.00	0.00 N	0.00 E
406036.100 N 562308.100 E	0.00	0.00		
990.00 0.000 0.000	-2301.00	990.00	0.00 N	0.00 E
406036.100 N 562308.100 E 1020.00 0.000 0.000	0.00 -2271.00	$0.00 \\ 1020.00$	0.00 N	0.00 E
406036.100 N 562308.100 E	0.00	0.00	0.00 N	0.00 L
1050.00 0.000 0.000	-2241.00	1050.00	0.00 N	0.00 E
406036.100 N 562308.100 E 1080.00 0.000 0.000	0.00 -2211.00	$0.00 \\ 1080.00$	0.00 N	0.00 =
1080.00 0.000 0.000 406036.100 N 562308.100 E	0.00	0.00	0.00 N	0.00 E
1110.00 0.000 0.000	-2181.00	1110.00	0.00 N	0.00 E
406036.100 N 562308.100 E	0.00	0.00		
1140.00 0.000 0.000	-2151.00	1140.00	0.00 N	0.00 E
406036.100 N 562308.100 E 1170.00 0.000 0.000	0.00 -2121.00	0.00 1170.00	0.00 N	0.00 E
406036.100 N 562308.100 E	0.00	0.00		
1200.00 0.000 0.000	-2091.00	1200.00	0.00 N	0.00 E
406036.100 N 562308.100 E 1230.00 0.000 0.000	0.00 -2061.00	0.00 1230.00	0.00 N	0.00 E
406036.100 N 562308.100 E	0.00	0.00	0.00 N	0.00 E
1260.00 0.000 0.000	-2031.00	1260.00	0.00 N	0.00 E
406036.100 N 562308.100 E	0.00	0.00	0.00 N	0.00 =
1290.00 0.000 0.000 406036.100 N 562308.100 E	-2001.00 0.00	$1290.00 \\ 0.00$	0.00 N	0.00 E
1320.00 0.000 0.000	-1971.00	1320.00	0.00 N	0.00 E
406036.100 N 562308.100 E	0.00	0.00		
1350.00 0.000 0.000	-1941.00 0.00	1350.00	0.00 N	0.00 E
406036.100 N 562308.100 E 1380.00 0.000 0.000	-1911.00	$0.00 \\ 1380.00$	0.00 N	0.00 E
406036.100 N 562308.100 E	0.00	0.00		
1410.00 0.000 0.000	-1881.00	1410.00	0.00 N	0.00 E
406036.100 N 562308.100 E 1440.00 0.000 0.000	0.00 -1851.00	0.00 1440.00	0.00 N	0.00 E
406036.100 N 562308.100 E	0.00	0.00	0.00 N	0.00 L
1470.00 0.000 0.000	-1821.00	1470.00	0.00 N	0.00 E
406036.100 N 562308.100 E 1500.00 0.000 0.000	0.00 -1791.00	$0.00 \\ 1500.00$	0.00 N	0.00 E
406036.100 N 562308.100 E	0.00	0.00	0.00 N	0.00 E
1530.00 0.000 0.000	-1761.00	1530.00	0.00 N	0.00 E
406036.100 N 562308.100 E	0.00	0.00	0.00	0.00 =
1560.00 0.000 0.000 406036.100 N 562308.100 E	-1731.00 0.00	1560.00 0.00	0.00 N	0.00 E
1590.00 0.000 0.000	-1701.00	1590.00	0.00 N	0.00 E
406036.100 N 562308.100 E	0.00	0.00		
1620.00 0.000 0.000	-1671.00	1620.00	0.00 N	0.00 E
406036.100 N 562308.100 E	0.00	0.00		

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	Pinta	ail 23 Fed	#3 Lateral	Plan #1			
1650.00 0.00	0.000	-1641.00	1650.00	0.00	N	0.00	Ε
406036.100 N 50 1680.00 0.00	62308.100 E 00 0.000	0.00 -1611.00	$0.00 \\ 1680.00$	0.00	M	0.00	_
	62308.100 E	0.00	0.00	0.00	IN	0.00	ᆮ
1710.00 0.00	0.000	-1581.00	1710.00	0.00	N	0.00	E
406036.100 N 50 1740.00 0.00	62308.100 E 00 0.000	0.00 -1551.00	0.00 1740.00	0.00	NI .	0.00	_
	62308.100 E	0.00	0.00	0.00	IV	0.00	
1770.00 0.00		-1521.00	1770.00	0.00	N	0.00	Ε
406036.100 N 50 1800.00 0.00	62308.100 E 00 0.000	0.00 -1491.00	$0.00 \\ 1800.00$	0.00	N	0.00	F
	62308.100 E	0.00	0.00				
1830.00 0.00		-1461.00	1830.00	0.00	N	0.00	Ε
406036.100 N 50 1860.00 0.00	62308.100 E 00 0.000	0.00 -1431.00	0.00 1860.00	0.00	N	0.00	F
406036.100 N 50	62308.100 E	0.00	0.00				
1890.00 0.00 406036.100 N 50	00 0.000 62308.100 E	-1401.00	1890.00	0.00	N	0.00	Ε
1920.00 0.00		0.00 -1371.00	0.00 1920.00	0.00	N	0.00	F
406036.100 N 50	62308.100 E	0.00	0.00				
1950.00 0.00 406036.100 N 50	00 0.000 62308.100 E	-1341.00 0.00	$1950.00 \\ 0.00$	0.00	N	0.00	Ε
1980.00 0.00		-1311.00	1980.00	0.00	N	0.00	Е
	62308.100 E	0.00	0.00				
2010.00 0.00 406036.100 N 50	00 0.000 62308.100 E	-1281.00 0.00	2010.00 0.00	0.00	N	0.00	E
2040.00 0.00	0.000	-1251.00	2040.00	0.00	N	0.00	Ε
406036.100 N 50 2070.00 0.00	62308.100 E 00 0.000	0.00 -1221.00	0.00	0.00	N	0.00	_
	62308.100 E	0.00	2070.00 0.00	0.00	IN	0.00	E
2100.00 0.00	0.000	-1191.00	2100.00	0.00	N	0.00	Ε
406036.100 N 50 2130.00 0.00	62308.100 E 00 0.000	0.00 -1161.00	0.00 2130.00	0.00	N	0.00	F
	62308.100 E	0.00	0.00				
2160.00 0.00 406036.100 N 50	00 0.000 62308.100 E	-1131.00 0.00	2160.00	0.00	N	0.00	Е
2190.00 0.00		-1101.00	0.00 2190.00	0.00	N	0.00	E
	62308.100 E	0.00	0.00				
2220.00 0.00 406036.100 N 50	00 0.000 62308.100 E	-1071.00 0.00	2220.00 0.00	0.00	N	0.00	Ε
2250.00 0.00	0.000	-1041.00	2250.00	0.00	N	0.00	E
	62308.100 E	0.00	0.00	0.00	N I	0 00	_
2280.00 0.00 406036.100 N 50	00 0.000 62308.100 E	-1011.00 0.00	2280.00 0.00	0.00	N	0.00	E
2310.00 0.00	0.000	-981.00	2310.00	0.00	N	0.00	E
406036.100 N 50 2340.00 0.00	62308.100 E 00 0.000	0.00 -951.00	0.00 2340.00	0.00	N	0.00	_
406036.100 N 5	62308.100 E	0.00	0.00				
2370.00 0.00 406036.100 N 50	00 0.000 62308.100 E	-921.00 0.00	2370.00	0.00	N	0.00	Ε
2400.00 0.00		-891.00	0.00 2400.00	0.00	N	0.00	E
406036.100 N 50	62308.100 E	0.00	0.00				
2430.00 0.00 406036.100 N 50	00 0.000 62308.100 E	-861.00 0.00	2430.00 0.00	0.00	N	0.00	Е
2460.00 0.00	0.000	-831.00	2460.00	0.00	N	0.00	Ε
406036.100 N 50 2490.00 0.00	62308.100 E 00 0.000	0.00 -801.00	0.00 2490.00	0.00	N	0 00	_
	62308.100 E	0.00	0.00	0.00	IN	0.00	_
2520.00 0.00	0.000	-771.00	2520.00	0.00	N	0.00	Ε
406036.100 N 50 2550.00 0.00	62308.100 E 00 0.000	0.00 -741.00	0.00 2550.00	0.00	N	0.00	F
406036.100 N 50	62308.100 E	0.00	0.00				
2580.00 0.00	0.000	-711.00	2580.00	0.00	N	0.00	Ε
		ŀ	Page 3				

Pint	ail 23 Fed	#3 Lateral	Plan #1	
406036.100 N 562308.100 E	0.00	0.00		
2610.00 0.000 0.000	-681.00	2610.00	0.00 N	0.00 E
406036.100 N 562308.100 E 2640.00 0.000 0.000	0.00 -651.00	0.00 2640.00	0.00 N	0.00 E
406036.100 N 562308.100 E	0.00	0.00	0.00 N	0.00 E
2670.00 0.000 0.000	-621.00	2670.00	0.00 N	0.00 E
406036.100 N 562308.100 E	0.00	0.00		
2700.00 0.000 0.000 406036.100 N 562308.100 E	-591.00	2700.00	0.00 N	0.00 E
2730.00 0.000 0.000	0.00 -561.00	0.00 2730.00	0.00 N	0.00 E
406036.100 N 562308.100 E	0.00	0.00	0.00	0100 2
2760.00 0.000 0.000	-531.00	2760.00	0.00 N	0.00 E
406036.100 N 562308.100 E 2790.00 0.000 0.000	0.00 -501.00	0.00 2790.00	0.00 N	0.00 E
406036.100 N 562308.100 E	0.00	0.00	0.00 N	0.00 E
2820.00 3.296 359.809	-471.01	2819.99	0.32 N	0.00 W
406036.416 N 562308.099 E	0.32	10.99		
2850.00 12.296 359.809 406040.481 N 562308.085 E	-441.31 4.38	2849.69 30.00	4.38 N	0.01 W
2880.00 21.296 359.809	-412.62	2878.38	13.04 N	0.04 W
406049.141 N 562308.056 E	13.04	30.00		
2910.00 30.296 359.809	-385.64	2905.36	26.08 N	0.09 W
406062.182 N 562308.013 E 2940.00 39.296 359.809	26.08 -361.03	30.00 2929.97	43.18 N	0 14 W
406079.284 N 562307.956 E	43.18	30.00	43.10 1	0.14 W
2970.00 48.296 359.809	-339.40	2951.60	63.93 N	0.21 W
406100.025 N 562307.886 E	63.93	30.00		
3000.00 57.296 359.809 406123.895 N 562307.807 E	-321.28 87.80	2969.72 30.00	87.80 N	0.29 W
3030.00 66.296 359.809	-307.11	2983.89	114.21 N	0.38 W
406150.306 N 562307.719 E	114.21	30.00		. 0130 "
3060.00 75.296 359.809	-297.25	2993.75	142.51 N	0.48 W
406178.607 N 562307.624 E 3090.00 84.296 359.809	142.51 -291.95	30.00 2999.05	172.00 N	0.57 W
406208.102 N 562307.525 E	172.00	30.00	1/2.00 N	0.37 W
3120.00 90.000 359.809	-291.00	3000.00	201.97 N	0.67 W
406238.071 N 562307.425 E	201.97	19.01	224 07	
3150.00 90.000 359.809 406268.071 N 562307.325 E	-291.00 231.97	3000.00 0.00	231.97 N	0.77 W
3180.00 90.000 359.809	-291.00	3000.00	261.97 N	0.88 W
406298.070 N 562307.225 E	261.97	0.00		
3210.00 90.000 359.809	-291.00	3000.00	291.97 N	0.98 W
406328.070 N 562307.125 E 3240.00 90.000 359.809	291.97 -291.00	0.00 3000.00	321.97 N	1.08 W
406358.070 N 562307.025 E	321.97	0.00	521.57	1100 11
3270.00 90.000 359.809	-291.00	3000.00	351.97 N	1.18 W
406388.070 N 562306.924 E 3300.00 90.000 359.809	351.97 -291.00	0.00 3000.00	381.97 N	1.28 W
406418.070 N 562306.824 E	381.97	0.00	301.37 N	1.20 W
3330.00 90.000 359.809	-291.00	3000.00	411.97 N	1.38 W
406448.070 N 562306.724 E	411.97	0.00	441 07 1	1 40 1
3360.00 90.000 359.809 406478.069 N 562306.624 E	-291.00 441.97	3000.00 0.00	441.97 N	1.48 W
3390.00 90.000 359.809	-291.00	3000.00	471.97 N	1.58 W
406508.069 N 562306.523 E	471.97	0.00		
3420.00 90.000 359.809	-291.00	3000.00	501.97 N	1.68 W
406538.069 N 562306.423 E 3450.00 90.000 359.809	501.97 -291.00	0.00 3000.00	531.97 N	1.78 W
406568.069 N 562306.323 E	531.97	0.00	J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	. ±./U ₩
3480.00 90.000 359.809	-291.00	3000.00	561.97 N	1.88 W
406598.069 N 562306.223 E	561.97 -291.00	0.00	E01 07 N	1 100 11
3510.00 90.000 359.809 406628.069 N 562306.123 E	-291.00 591.97	3000.00 0.00	591.97 N	1.98 W
.000201000 (4		0.00		

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3540.00 90.000 359.809 -291.00 3000.00 621.97 N 2.08 W 406688.068 N 562306.022 E 621.97 0.00 3000.00 651.97 N 2.18 W 406688.068 N 562305.27 E 651.97 0.00 3000.00 681.97 N 2.18 W 406688.068 N 562305.27 E 651.97 0.00 3000.00 681.97 N 2.28 W 40630.00 N 90.000 359.809 -291.00 3000.00 711.97 N 2.38 W 406748.068 N 562305.772 E 711.97 0.00 3000.00 711.97 N 2.38 W 406748.068 N 562305.722 E 711.97 0.00 3000.00 711.97 N 2.38 W 406748.068 N 562305.722 E 711.97 0.00 3000.00 741.97 N 2.48 W 406748.068 N 562305.622 E 741.97 0.00 3000.00 741.97 N 2.48 W 406788.068 N 562305.622 E 741.97 0.00 3000.00 771.97 N 2.58 W 406880.06 N 562305.521 E 771.97 0.00 3000.00 801.97 N 2.68 W 406880.06 N 562305.421 E 801.97 0.00 3000.00 801.97 N 2.68 W 406880.60 N 562305.421 E 801.97 0.00 3000.00 801.97 N 2.68 W 406880.60 N 562305.421 E 801.97 0.00 3000.00 801.97 N 2.88 W 406880.60 N 562305.421 E 801.97 0.00 3000.00 801.97 N 2.88 W 406880.60 N 562305.221 E 861.97 N 2.00 3000.00 801.97 N 2.88 W 406880.60 N 562305.221 E 861.97 0.00 3000.00 801.97 N 2.88 W 406880.60 N 562305.221 E 861.97 0.00 3000.00 801.97 N 2.98 W 406988.067 N 562305.221 E 861.97 0.00 3000.00 801.97 N 3.08 W 406988.067 N 562305.221 E 861.97 0.00 3000.00 801.97 N 3.08 W 406988.067 N 562305.221 E 861.97 0.00 3000.00 90.00 359.809 -291.00 3000.00 90.00 359.809 3000.00 801.97 N 3.08 W 406988.067 N 562305.221 E 861.97 0.00 3000.00 90.00 359.809 3000.00 90.00	Pint	ail 23 Fed	#3 Lateral	Plan #1	
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Page 5

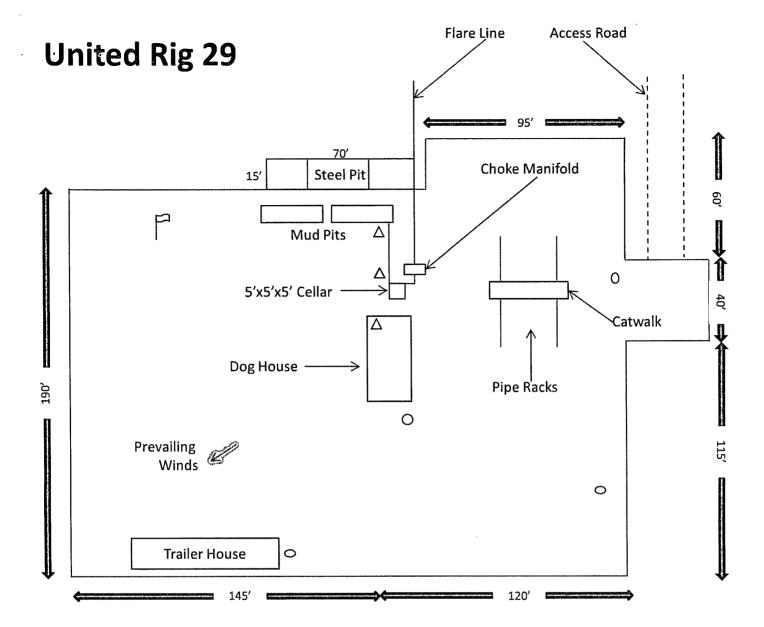
Pir	ntail 23 Fed	#3 Lateral	Plan #1	
407588.063 N 562302.916 E	1551.97	0.00		
4500.00 90.000 359.809	-291.00	3000.00	1581.96 N	5.28 W
407618.063 N 562302.816 E	1581.97	0.00		
4530.00 90.000 359.809	-291.00	3000.00	1611.96 N	5.38 W
407648.063 N 562302.716 E	1611.97	0.00		
4560.00 90.000 359.809	-291.00	3000.00	1641.96 N	5.48 W
407678.063 N 562302.615 E	1641.97	0.00		
4590.00 90.000 359.809	-291.00	3000.00	1671.96 N	5.58 W
407708.063 N 562302.515 E	1671.97	0.00		
4620.00 90.000 359.809	-291.00	3000.00	1701.96 N	5.69 W
407738.062 N 562302.415 E	1701.97	0.00		
4650.00 90.000 359.809	-291.00	3000.00	1731.96 N	5.79 W
407768.062 N 562302.315 E	1731.97	0.00		
4680.00 90.000 359.809	-291.00	3000.00	1761.96 N	5.89 W
407798.062 N 562302.214 E	1761.97	0.00		
4710.00 90.000 359.809	-291.00	3000.00	1791.96 N	5.99 W
407828.062 N 562302.114 E	1791.97	0.00		
4740.00 90.000 359.809	-291.00	3000.00	1821.96 N	6.09 W
407858.062 N 562302.014 E	1821.97	0.00		
4770.00 90.000 359.809	-291.00	3000.00	1851.96 N	6.19 W
407888.062 N 562301.914 E	1851.97	0.00		
4800.00 90.000 359.809	-291.00	3000.00	1881.96 N	6.29 W
407918.061 N 562301.814 E	1881.97	0.00		
4830.00 90.000 359.809	-291.00	3000.00	1911.96 N	6.39 W
407948.061 N 562301.713 E	1911.97	0.00		
4860.00 90.000 359.809	-291.00	3000.00	1941.96 N	6.49 W
407978.061 N 562301.613 E	1941.97	0.00		
4890.00 90.000 359.809	-291.00	3000.00	1971.96 N	6.59 W
408008.061 N 562301.513 E	1971.97	0.00		
4898.09 90.000 359.809	-291.00	3000.00	1980.05 N	6.61 W
408016.147 N 562301.486 E	1980.06	0.00		

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North. Vertical depths are relative to GL $3,291'+KB_'$. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet. Vertical Section is from Slot and calculated along an Azimuth of 359.809° (Grid).

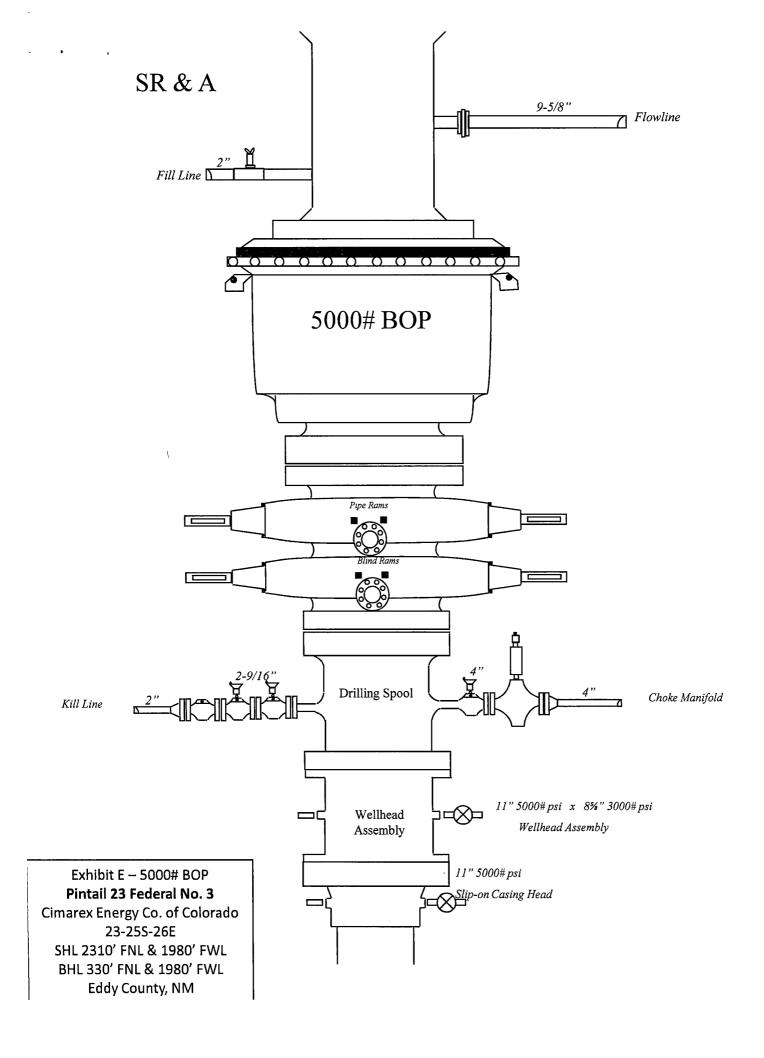
Coordinate System is North American Datum 1983 US State Plane 1983, New Mexico Eastern Zone. Grid Convergence at Surface is 0.036° .

Based upon Minimum Curvature type calculations, at a Measured Depth of 4898.09ft., the Bottom Hole Displacement is 1980.06ft., in the Direction of 359.809° (Grid).



- Wind Direction Indicators (wind sock or streamers)
- △ H2S Monitors (alarms at bell nipple and shale shaker)
- O Briefing Areas
- O Remote BOP Closing Unit

Exhibit D – Rig Diagram
Pintail 23 Federal No. 3
Cimarex Energy Co. of Colorado
23-25S-26E
SHL 2310' FNL & 1980' FWL
BHL 330' FNL & 1980' FWL
Eddy County, NM



ORILLING OPERATIONS CHOKE MANIFOLD 5M SERVICE

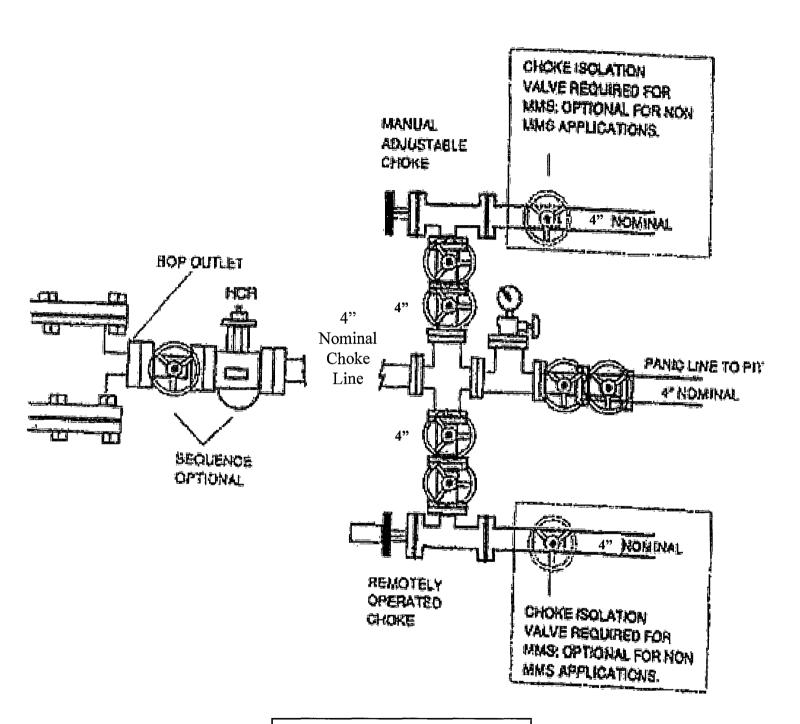


Exhibit E-1 – Choke Manifold Diagram
Pintail 23 Federal No. 3
Cimarex Energy Co. of Colorado
23-25S-26E
SHL 2310' FNL & 1980' FWL
BHL 330' FNL & 1980' FWL
Eddy County, NM

Hydrogen Sulfide Drilling Operations Plan Cimarex Energy Co. of Colorado Pintail 23 Federal No. 3

Unit F, Section 23 T25S-R26E, Eddy County, NM

- 1 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.

2 H2S Detection and Alarm Systems:

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.

3 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.

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 emergency personnel admitted to location.

5 Well control equipment:

A. See exhibit "E"

6 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.

7 <u>Drillstem Testing:</u>

No DSTs or 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 seperator will be brought into service along with H2S scavengers if necessary.

H₂S Contingency Plan Cimarex Energy Co. of Colorado Pavo Mesa 30 Federal Com No. 2 Unit I, Section 20 T16S-R29E, Eddy County, 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 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.
- - ♦ Detection of H₂S, and state of MS =
 - 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

Common	Chemical	Specific	Threshold	Hazardous	Lethal
Name	Formula	Gravity	Limit	Limit	Concentration
Hydrogen Sulfide	H ₂ S	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).

H_2S Contingency Plan Emergency Contacts

Cimarex Energy Co. of Colorado

Pavo Mesa 30 Federal Com No. 2 Unit I, Section 20 T16S-R29E, Eddy County, NM

Cimarex Energy Co. of Colorad	do	800-969-4789	
Co Office and After-Hours Me	enu		
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
Dorsey Rogers	Field Super	* * * * * * * * * * * * * * * * * * *	505-200-6105
Roy Shirley	Field Super	THE RESERVE THE PROPERTY OF THE PARTY OF THE	432-634-2136
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Artesia Las antigos Devisión de la companya de la c		
Ambulance (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	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 OII Conservation 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 Management	575-887-6544	
	505-476-9600	
Santa Fe New Mexico Emergency Response Commission (Santa Fe) New Mexico Emergency Response Commission (Santa Fe) 24 Hrs	505-476-9600 505-827-9126	·
New Mexico Emergency Response Commission (Santa Fe)		
New Mexico Emergency Response Commission (Santa Fe) New Mexico Emergency Response Commission (Santa Fe) 24 Hrs New Mexico State Emergency Operations Center National	505-827-9126 505-476-9635	
New Mexico Emergency Response Commission (Santa Fe) New Mexico Emergency Response Commission (Santa Fe) 24 Hrs New Mexico State Emergency Operations Center	505-827-9126	
New Mexico Emergency Response Commission (Santa Fe) New Mexico Emergency Response Commission (Santa Fe) 24 Hrs New Mexico State Emergency Operations Center National National Emergency Response Center (Washington, D.C.) Medical	505-827-9126 505-476-9635	•
New Mexico Emergency Response Commission (Santa Fe) New Mexico Emergency Response Commission (Santa Fe) 24 Hrs New Mexico State Emergency Operations Center National National Emergency Response Center (Washington, D.C.) Medical	505-827-9126 505-476-9635	
New Mexico Emergency Response Commission (Santa Fe) New Mexico Emergency Response Commission (Santa Fe) 24 Hrs New Mexico State Emergency Operations Center National	505-827-9126 505-476-9635 800-424-8802	
New Mexico Emergency Response Commission (Santa Fe) New Mexico Emergency Response Commission (Santa Fe) 24 Hrs New Mexico State Emergency Operations Center National National Emergency Response Center (Washington, D.C.) Medical Flight for Life - 4000 24th St.; Lubbock, TX	505-827-9126 505-476-9635 800-424-8802	
New Mexico Emergency Response Commission (Santa Fe) New Mexico Emergency Response Commission (Santa Fe) 24 Hrs New Mexico State Emergency Operations Center National National Emergency Response Center (Washington, D.C.) Medical Flight for Life - 4000 24th St.; Lubbock, TX Aerocare - R3, Box 49F; Lubbock, TX	505-827-9126 505-476-9635 800-424-8802 806-743-9911 806-747-8923	
New Mexico Emergency Response Commission (Santa Fe) New Mexico Emergency Response Commission (Santa Fe) 24 Hrs New Mexico State Emergency Operations Center National National Emergency Response Center (Washington, D.C.) Medical Flight for Life - 4000 24th St.; Lubbock, TX Aerocare - R3, Box 49F; Lubbock, TX Med Flight Air Amb - 2301 Yale Blvd S.E., #D3; Albuquerque, NM SB Air Med Service - 2505 Clark Carr Loop S.E.; Albuquerque, NM	505-827-9126 505-476-9635 800-424-8802 806-743-9911 806-747-8923 505-842-4433	
New Mexico Emergency Response Commission (Santa Fe) New Mexico Emergency Response Commission (Santa Fe) 24 Hrs New Mexico State Emergency Operations Center National National Emergency Response Center (Washington, D.C.) Medical Flight for Life - 4000 24th St.; Lubbock, TX Aerocare - R3, Box 49F; Lubbock, TX Med Flight Air Amb - 2301 Yale Blvd S.E., #D3; Albuquerque, NM SB Air Med Service - 2505 Clark Carr Loop S.E.; Albuquerque, NM Other	505-827-9126 505-476-9635 800-424-8802 806-743-9911 806-747-8923 505-842-4433	ir 281-931-8884
New Mexico Emergency Response Commission (Santa Fe) New Mexico Emergency Response Commission (Santa Fe) 24 Hrs New Mexico State Emergency Operations Center National National Emergency Response Center (Washington, D.C.) Medical Flight for Life - 4000 24th St.; Lubbock, TX Aerocare - R3, Box 49F; Lubbock, TX Med Flight Air Amb - 2301 Yale Blvd S.E., #D3; Albuquerque, NM SB Air Med Service - 2505 Clark Carr Loop S.E.; Albuquerque, NM Other Boots & Coots IWC	505-827-9126 505-476-9635 800-424-8802 806-743-9911 806-747-8923 505-842-4433 505-842-4949	or 281-931-8884
New Mexico Emergency Response Commission (Santa Fe) New Mexico Emergency Response Commission (Santa Fe) 24 Hrs New Mexico State Emergency Operations Center National National Emergency Response Center (Washington, D.C.) Medical Flight for Life - 4000 24th St.; Lubbock, TX Aerocare - R3, Box 49F; Lubbock, TX Med Flight Air Amb - 2301 Yale Blvd S.E., #D3; Albuquerque, NM	505-827-9126 505-476-9635 800-424-8802 806-743-9911 806-747-8923 505-842-4433 505-842-4949	

Unit F, Section 23 T25S-R26E, Eddy County, NM

- 1 <u>Existing Roads:</u> 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 Old Cavern Hwy, go South 7.1 miles to lease road. On lease road, turn West for 0.9 miles to old pad. On lease road, go Southwest 1.4 miles to lease road. On lease road, go Southeast 0.1 miles to proposed lease road.
- 2 Planned Access Roads: 348' of on-lease access road is proposed.
- 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".

Unit F, Section 23 T25S-R26E, Eddy County, NM

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.

8 Ancillary Facilities:

A. No camps or airstrips to be constructed.

Unit F, Section 23 T25S-R26E, Eddy County, NM

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.

Unit F, Section 23 T25S-R26E, Eddy County, NM

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 1 1/2 miles of this location.

Operator Certification Statement Cimarex Energy Co. of Colorado Pintail 23 Federal No. 3

Unit F, Section 23 T25S-R26E, Eddy County, NM

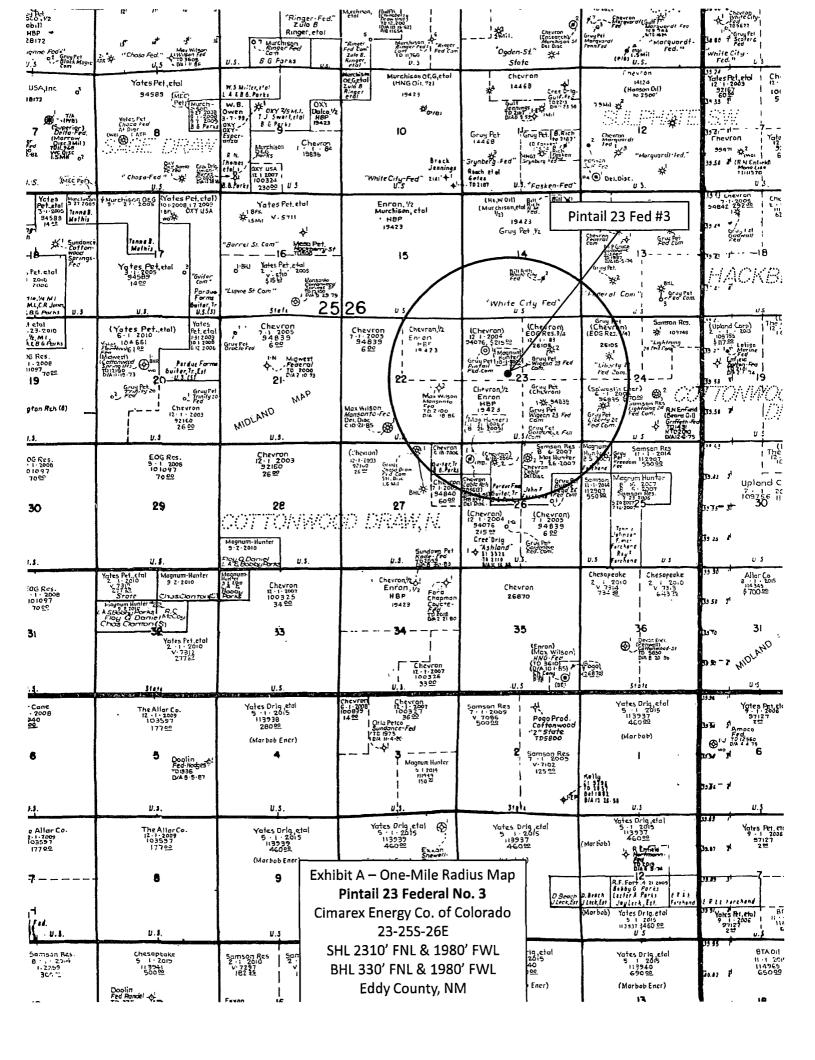
Operator's Representative Cimarex Energy Co. of Colorado P.O. Box 140907 Irving, TX 75014

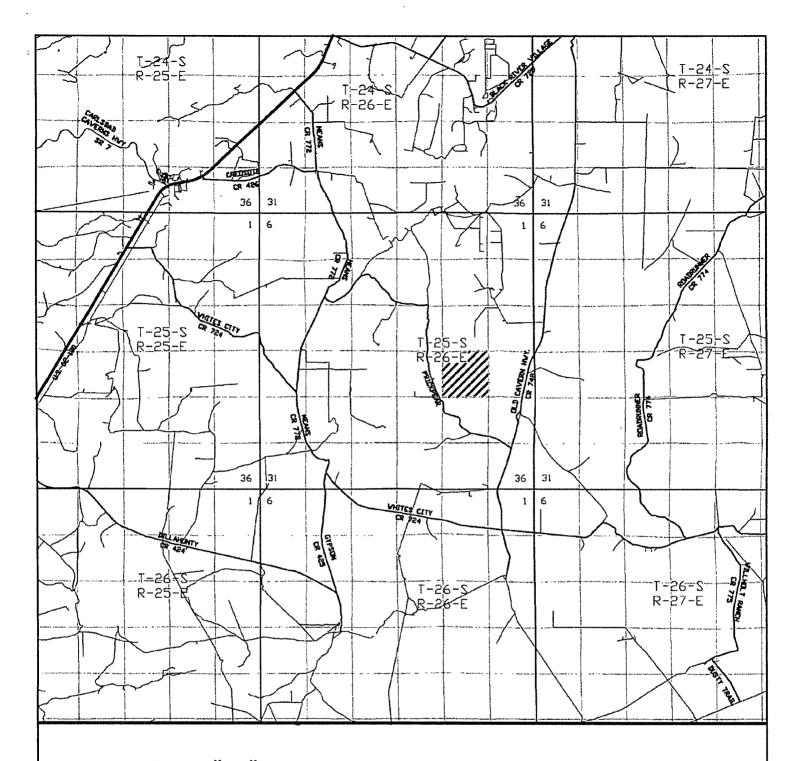
Office Phone: (972) 443-6489

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 Farry
	Zeno Farris
DATE:	March 11, 2008
TITLE:	Manager Operations Administration





PINTAIL "23" FEDERAL #3 Located 2310' FNL and 1980' FWL Section 23, Township 25 South, Range 26 East, N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 — Office (505) 392-3074 — Fax basinsurveys.com W.O. Number: JMS 19244TR

Survey Date: 02-14-2008

Scale: 1" = 2 MILES

Date: 02-18-2008

CIMAREX ENERGY CO. OF COLORADO



Cimarex Energy Co. of Colorado

5215 North O'Connor Blvd. ♦ Suite 1500 ♦ Irving, TX 75039 ♦ (972) 401-3111 ♦ Fax (972) 443-6486 Mailing Address: P.O. Box 140907 ♦ Irving, TX 75014-0907

A subsidiary of Cimarex Energy Co. • A NYSE Listed Company • "XEC"

March 12, 2008

Oil Conservation Division District II Office 1301 W. Grand Ave. Artesia, New Mexico 88210 Attn: Ms. Kimberly Wilson

Re: Statewide Rule 118

Hydrogen Sulfide Gas Contingency Plan Proposed Pintail 23 Federal No. 3 Well

Dear Ms. Wilson:

In accordance with NMAC 19.15.3.118 C. (1) governing the determination of the hydrogen sulfide concentration in gaseous mixtures in each of its operations, Cimarex Energy Co. of Colorado does not anticipate that there will be enough H2S from the surface to the Delaware formations to meet the OCD's minimum requirements for the submission of a contingency plan for the drilling and completion of the following test(s):

Pintail 23 Federal No. 3 23-25S-26E SHL 2310' FNL & 1980' FWL BHL 330' FNL & 1980' FWL Eddy County, NM

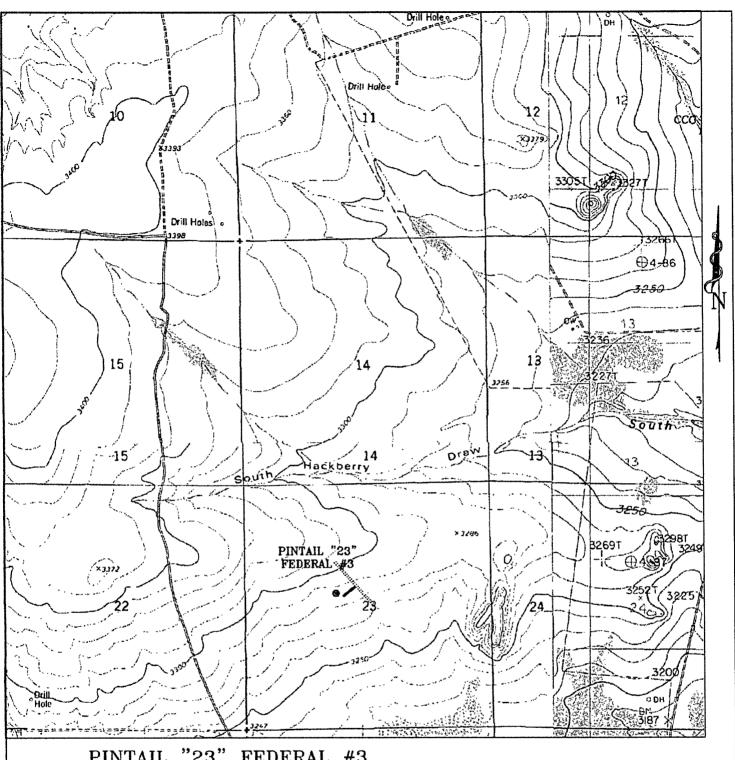
If anything further is needed regarding this issue, or if you have any questions, please feel free to contact the undersigned at 972-443-6489.

Yours truly,

Zeno Farris

Manager, Operations Administration

Zono Farry



PINTAIL "23" FEDERAL #3 Located 2310' FNL and 1980' FWL Section 23, Township 25 South, Range 26 East, N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico B8241 (505) 393-7316 - Office (505) 392-3074 - Fax basinsurveys.com W.O. Number: JMS 19244T

Survey Date: 02-14-2008

Scale: 1" = 2000'

Date: 02-18-2008

CIMAREX ENERGY CO. OF COLORADO

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
Cimarex Energy
NMNM94076
Pintail 23 Federal No 3
2310' FNL & 1980' FWL
Section 23, T. 25 S., R 26 E., NMPM
Eddy County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

essential to the

General Provisions
Permit Expiration
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements
☐ Construction
Notification
Topsoil
Reserve Pit
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
□ Drilling
Production (Post Drilling)
Well Structures & Facilities
Interim Reclamation
Final Abandonment/Reclamation

I. 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.

CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (505) 234-5972 at least 3 working days prior to commencing construction of the access road and/or well pad.

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

There is no measurable soil on this well pad to stockpile. No topsoil stockpile is required.

C. RESERVE PITS

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 (505) 234-5972.

E. 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.

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.

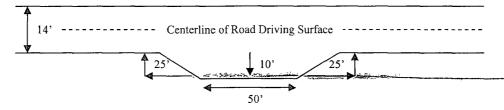
Ditching

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:

Standard Turnout - Plan View

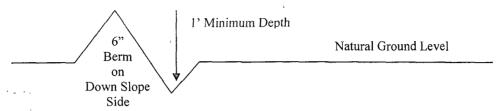


Drainage

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.

Cross Section of a Typical 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:
$$\frac{400'}{4\%}$$
 + 100' = 200' lead-off ditch interval

Culvert Installations

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.

Fence Requirement

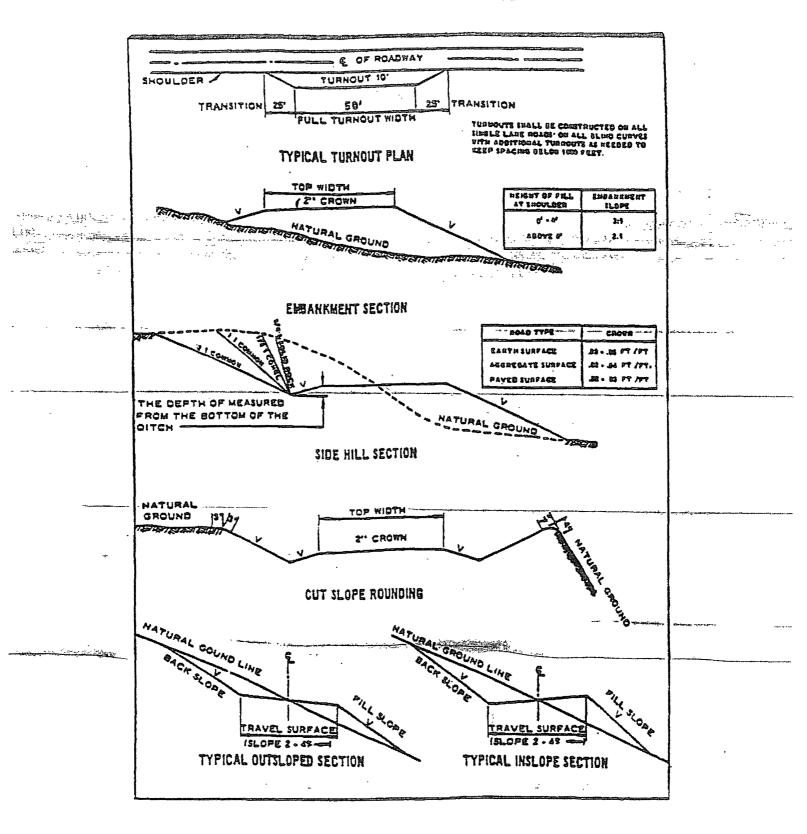
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

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.

Figure 1 - Cross Sections and Plans For Typical Road Sections



V. DRILLING

A. 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

* Call the Carlshad Field Office

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

- 1. A Hydrogen Sulfide (H2S) Drilling Plan should be activated 500 feet prior to drilling into the Delaware formation. Hydrogen Sulfide has been reported in this township measuring 1200-1500 ppm in STVs. 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 are 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.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f. Centralizers required on horizontal leg, minimum of one per joint.

Medium cave/karst.

Possible lost circulation in the Delaware.

1. The 8-5/8 inch surface casing shall be set at approximately 315 feet and cemented to the surface.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing.

- 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 a 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 will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement).
- e. 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.
- 2. The minimum required fill of cement behind the 5-1/2 inch intermediate casing is:
 - ☐ Cement to surface. If cement does not circulate see B.1.a-d above.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing.

- 3. The minimum required fill of cement behind the 2-7/8 inch production casing is:
 - Cement not required. Three possibilities open hole, liner, or Peak System.

 The liner or Peak System will not be cemented.
- 4. 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.

C. PRESSURE CONTROL

- 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.
- 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. Surface casing to be tested per Onshore Oil and Gas Order 2.III.B.1.h.

D. DRILL STEM TEST

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

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VI. 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:

100min 100min

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

VII. INTERIM RECLAMATION & RESERVE PIT CLOSURE

A. 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:

The 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.

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.

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

Species	<u>lb/acre</u>
Alkali Sacaton (Sporobolus airoides)	1.0
DWS⊆ Four-wing saltbush (Atriplex c	canescens) 5.0

□DWS: DeWinged Seed

Pounds of seed x percent purity x percent germination = pounds pure live seed (Insert Seed Mixture Here)

^{*}Pounds of pure live seed:

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.