

ATS-11-135

OCD-ARTESIA

Form 3160-3
(April 2004)

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

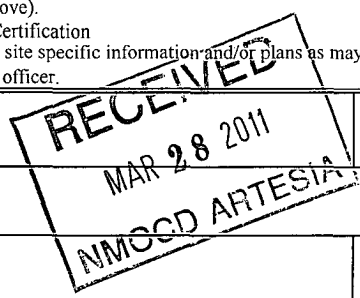
1a. Type of Work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NM-554766
1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator Cimarex Energy Co. of Colorado		7. If Unit or CA Agreement, Name and No.
3a. Address 600 N. Marienfeld St., Ste. 600; Midland, TX 79701		8. Lease Name and Well No. Ringer Federal No. 10 H (38567)
3b. Phone No. (include area code) 432-571-7800		9. API Well No. 30-015- 38658
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At Surface 580 FSL & 330 FWL (M) At proposed prod. Zone 330 FNL & 450 FWL Horizontal Bone Spring Test		10. Field and Pool, or Exploratory Bone Spring Wildcat (96403)
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk. and Survey or Area 4-25S-26E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line if any) 330		12. County or Parish Eddy
16. No of acres in lease 398.66		13. State NM
17. Spacing Unit dedicated to this well W2W2 160.1 acres		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. N/A		20. BLM/BIA Bond No. on File NM-2575
19. Proposed Depth Pilot Hole 8000 MD 11856, TVD 7586		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3330' GR		22. Approximate date work will start* 02.28.11
		23. Estimated duration 25-35 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan | 5. Operator Certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature <i>Zeno Farris</i>	Name (Printed/Typed) Zeno Farris	Date 12.21.10
Title Manager Operations Administration		
Approved By (Signature) <i>JS/ JEANETTE MARTINEZ</i>	Name (Printed/Typed)	Date MAR 24 2011
Title <i>SM</i> FIELD MANAGER	Office CARLSBAD FIELD OFFICE	



Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.S. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2)

APPROVAL FOR TWO YEARS

K2 04/04/11 Approval Subject to General Requirements & Special Stipulations Attached

**DYE TRACE REQUIRED
SEE C.O.A.**

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

Carlsbad Controlled Water Basin

Application to Drill
Ringer Federal No. 10
Cimarex Energy Co. of Colorado
Unit M, Section 4
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 580 FSL & 330 FWL
BHL 330 FNL & 450 FWL
2. Elevation above sea level: 3330' GR
3. Geologic name of surface formation: Quaternary 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: Pilot Hole 8000 MD 11856, TVD 7586

6. Estimated tops of geological markers:

Rustler	NA/Spotty	Bone Spring	5248
Top Salt	972	Bone Spring "A" Shale	5335
Base Salt	1509	Bone Spring "C" Shale	5673
Delaware	1731	1st Bone Spring Ss	6216
Cherry Canyon	2673	2nd Bone Spring Ss	6760
Brushy Canyon	3885	2nd BS Ss Lower	7446
Brushy Canyon Lower	4922	3rd Bone Spr Carb "C"	7647

7. Possible mineral bearing formations:

Bone Spring	Oil
Delaware	Oil

8. Proposed drilling Plan

Drill 8¾" hole to pilot hole TD @ 8000 and log. Set 250 sx Class H cement plug from 7240 to 8000 and dress off. Kick off lateral @ 7310 and drill to lateral TD 11856 MD, 7586 TVD). Run cemented 5½" production casing from 0-11856.

Application to Drill
 Ringer Federal No. 10
 Cimarex Energy Co. of Colorado
 Unit M, Section 4
 T25S-R26E, Eddy County, NM

9. Mud Circulating System:

Depth			Mud Wt	Visc	Fluid Loss	Type Mud
0'	to	450'	8.4 - 8.8	30-32	NC	FW spud mud. Add FW to control weight & viscosity and paper to prevent seepage.
450'	to	1,706'	9.8 - 10.0	28-29	NC	Saturated Brine. Sweep as needed to clean hole.
1,706'	to	11,856'	9.0 - 9.0	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.

10. Casing Program:

	Hole Size	Depth		Casing OD		Weight	Collar	Grade
Surface	17½"	0'	to 450'	New	13½"	48#	STC	H-40
Intermediate	12½"	0'	to 1706'	New	9½"	40#	LTC	J-55
Production	8½"	0'	to 11856'	New	5½"	17#	LTC	P-110

11. Cementing Program:

Surface	495SKS Halcem C + 4% Bentomite + 2% CaCl 13.5ppg 1.34yield 100% Exces TOC Surface
Intermediate	Lead: 440SKS EconoCem + 5% salt + 5 lbm gilsonite 14.6ppg 1.54yield 70% Excess Tail: 200SKS HalCem + 1% CaCl 14.8ppg 1.34 yield 25% Excess TOC Surface
Production	Lead: 690SKS EconoCem - H + 0.2 % HR-601 2.44 11.9ppg 2.44 yield 50% Excess Tail: 1250SKS Versacem - H + 0.5% Halad(R)-344 + 0.4% CFR-3 + 1 lbm/sk salt + 0.1% HR-601 14.5ppg 1.22 yield 25% Excess TOC Surface

Office of the State Engineer indicates depth to ground water in the area is 75'. Fresh water zones will be protected by setting 9½" casing at 450 and cementing to surface. Hydrocarbon zones will be protected by setting 9½" casing at 1706 and 5½" at 11856 and cementing to surface.

<u>Collapse Factor</u>	<u>Burst Factor</u>	<u>Tension Factor</u>
1.125	1.125	1.6

See
COA

Application to Drill
Ringer Federal No. 10
Cimarex Energy Co. of Colorado
Unit M, Section 4
T25S-R26E, Eddy County, NM

12. Pressure control Equipment:

Exhibit "E". A 13 $\frac{3}{8}$ " 5000 PSI working pressure BOP psi 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 as needed. 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 nipped 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.

BOPS will be tested by an independent service company to 250 psi low and 5000 psi high. Hydril will be tested to 250 psi low and 3000 psi high.

Cimarex Energy Co. of Colorado (operator) requests a variance if Cactus 101 (rig name) is used to drill this well to use a co-flex line between the BOP and choke manifold.

Manufacturer: Midwest Hose & Specialty

Serial Number: 63270 See attached htdrostatic test report

Length: 35' Size: 4-1/16" Ends (flanges/clamps)

WP rating: 10,000 psi Anchors required by manufacturer – Yes/No (No)

13. Testing, Logging and Coring Program: See COA

- 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 H₂S 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 H₂S 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 **3000 psi** Estimated BHT **115°**

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

Drilling expected to take 25-35 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.

Bone Spring pay will be perforated and stimulated.

The proposed well will be tested and potential as **an oil well.**



Cimarex Energy Co.

Eddy County (NM83E)

Sec 04-T25S-R26E

Ringer Fed #10

Wellbore #1

Plan: Plan #2

Standard Planning Report

21 December, 2010



Great White Directional Services Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Ringer Fed #10
Company:	Cimarex Energy Co.	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Project:	Eddy County (NM83E)	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Sec 04-T25S-R26E	North Reference:	Grid
Well:	Ringer Fed #10	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Project	Eddy County (NM83E)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sec 04-T25S-R26E			
Site Position:	From:	Map	Northings:	419,236.10 usft
			Easting:	553,217.80 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:
				32° 9' 9.190 N
				104° 17' 41.801 W
				0.02 °

Well	Ringer Fed #10			
Well Position	+N/-S	362.1 usft	Northings:	419,598.20 usft
	+E/-W	-3,249.9 usft	Easting:	549,967.90 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level:	0.0 usft
				32° 9' 12.783 N
				104° 18' 19.604 W

Wellbore	Wellbore #1			
Magnetics	Model Name	Sample Date	Declination	Dip Angle
			(°)	(°)
	IGRF200510	09/08/09	8.11	60.05
				Field Strength
				(nT)
				48,722

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	1.48

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
7,309.5	0.00	0.00	7,309.5	0.0	0.0	0.00	0.00	0.00	0.00	
7,760.2	90.14	1.48	7,596.0	287.1	7.4	20.00	20.00	0.00	1.48	
11,856.2	90.14	1.48	7,586.0	4,381.7	113.2	0.00	0.00	0.00	0.00	Ringer Fee #10 PBHL



Great White Directional Services

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Ringer Fed #10
Company:	Cimarex Energy Co.	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Project:	Eddy County (NM83E)	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Sec 04-T25S-R26E	North Reference:	Grid
Well:	Ringer Fed #10	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,309.5	0.00	0.00	7,309.5	0.0	0.0	0.0	0.00	0.00	0.00
KOP 20°/100 DLS @ 1.48° AZI									
7,325.0	3.10	1.48	7,325.0	0.4	0.0	0.4	20.00	20.00	0.00
7,350.0	8.10	1.48	7,349.9	2.9	0.1	2.9	20.00	20.00	0.00
7,375.0	13.10	1.48	7,374.4	7.5	0.2	7.5	20.00	20.00	0.00
7,400.0	18.10	1.48	7,398.5	14.2	0.4	14.2	20.00	20.00	0.00
7,425.0	23.10	1.48	7,421.9	23.0	0.6	23.0	20.00	20.00	0.00
7,450.0	28.10	1.48	7,444.4	33.8	0.9	33.8	20.00	20.00	0.00
7,451.8	28.46	1.48	7,446.0	34.6	0.9	34.6	20.00	20.00	0.00
2nd Bone Spring Ss Lower									
7,475.0	33.10	1.48	7,465.9	46.5	1.2	46.5	20.00	20.00	0.00
7,500.0	38.10	1.48	7,486.3	61.0	1.6	61.0	20.00	20.00	0.00
7,525.0	43.10	1.48	7,505.2	77.3	2.0	77.3	20.00	20.00	0.00
7,550.0	48.10	1.48	7,522.7	95.1	2.5	95.2	20.00	20.00	0.00
7,575.0	53.10	1.48	7,538.6	114.4	3.0	114.5	20.00	20.00	0.00
7,600.0	58.10	1.48	7,552.7	135.0	3.5	135.1	20.00	20.00	0.00
7,625.0	63.10	1.48	7,565.0	156.8	4.1	156.9	20.00	20.00	0.00
7,650.0	68.10	1.48	7,575.3	179.6	4.6	179.6	20.00	20.00	0.00
7,675.0	73.10	1.48	7,583.6	203.1	5.2	203.2	20.00	20.00	0.00
7,700.0	78.10	1.48	7,589.8	227.3	5.9	227.4	20.00	20.00	0.00
7,725.0	83.10	1.48	7,593.9	252.0	6.5	252.1	20.00	20.00	0.00
7,750.0	88.10	1.48	7,595.8	276.9	7.2	277.0	20.00	20.00	0.00
7,760.2	90.14	1.48	7,596.0	287.1	7.4	287.2	20.00	20.00	0.00
EOC - Hold to TD									
7,800.0	90.14	1.48	7,595.9	326.9	8.4	327.0	0.00	0.00	0.00
7,900.0	90.14	1.48	7,595.6	426.8	11.0	427.0	0.00	0.00	0.00
8,000.0	90.14	1.48	7,595.4	526.8	13.6	527.0	0.00	0.00	0.00
8,100.0	90.14	1.48	7,595.1	626.8	16.2	627.0	0.00	0.00	0.00
8,200.0	90.14	1.48	7,594.9	726.7	18.8	727.0	0.00	0.00	0.00
8,300.0	90.14	1.48	7,594.7	826.7	21.4	827.0	0.00	0.00	0.00
8,400.0	90.14	1.48	7,594.4	926.7	23.9	927.0	0.00	0.00	0.00
8,500.0	90.14	1.48	7,594.2	1,026.6	26.5	1,027.0	0.00	0.00	0.00
8,600.0	90.14	1.48	7,593.9	1,126.6	29.1	1,127.0	0.00	0.00	0.00
8,700.0	90.14	1.48	7,593.7	1,226.6	31.7	1,227.0	0.00	0.00	0.00
8,800.0	90.14	1.48	7,593.4	1,326.5	34.3	1,327.0	0.00	0.00	0.00
8,900.0	90.14	1.48	7,593.2	1,426.5	36.9	1,427.0	0.00	0.00	0.00
9,000.0	90.14	1.48	7,592.9	1,526.5	39.4	1,527.0	0.00	0.00	0.00
9,100.0	90.14	1.48	7,592.7	1,626.4	42.0	1,627.0	0.00	0.00	0.00
9,200.0	90.14	1.48	7,592.5	1,726.4	44.6	1,727.0	0.00	0.00	0.00
9,300.0	90.14	1.48	7,592.2	1,826.4	47.2	1,827.0	0.00	0.00	0.00
9,400.0	90.14	1.48	7,592.0	1,926.3	49.8	1,927.0	0.00	0.00	0.00
9,500.0	90.14	1.48	7,591.7	2,026.3	52.4	2,027.0	0.00	0.00	0.00
9,600.0	90.14	1.48	7,591.5	2,126.3	54.9	2,127.0	0.00	0.00	0.00
9,700.0	90.14	1.48	7,591.2	2,226.2	57.5	2,227.0	0.00	0.00	0.00
9,800.0	90.14	1.48	7,591.0	2,326.2	60.1	2,327.0	0.00	0.00	0.00
9,900.0	90.14	1.48	7,590.7	2,426.2	62.7	2,427.0	0.00	0.00	0.00
10,000.0	90.14	1.48	7,590.5	2,526.1	65.3	2,527.0	0.00	0.00	0.00
10,100.0	90.14	1.48	7,590.3	2,626.1	67.8	2,627.0	0.00	0.00	0.00
10,200.0	90.14	1.48	7,590.0	2,726.1	70.4	2,727.0	0.00	0.00	0.00
10,300.0	90.14	1.48	7,589.8	2,826.0	73.0	2,827.0	0.00	0.00	0.00
10,400.0	90.14	1.48	7,589.5	2,926.0	75.6	2,927.0	0.00	0.00	0.00
10,500.0	90.14	1.48	7,589.3	3,026.0	78.2	3,027.0	0.00	0.00	0.00
10,600.0	90.14	1.48	7,589.0	3,125.9	80.8	3,127.0	0.00	0.00	0.00



Great White Directional Services Planning Report

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Site:	Sec 04-T25S-R26E	North Reference:	Grid
Well:	Ringer Fed #10	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,700.0	90.14	1.48	7,588.8	3,225.9	83.3	3,227.0	0.00	0.00	0.00	
10,800.0	90.14	1.48	7,588.6	3,325.9	85.9	3,327.0	0.00	0.00	0.00	
10,900.0	90.14	1.48	7,588.3	3,425.8	88.5	3,427.0	0.00	0.00	0.00	
11,000.0	90.14	1.48	7,588.1	3,525.8	91.1	3,527.0	0.00	0.00	0.00	
11,100.0	90.14	1.48	7,587.8	3,625.8	93.7	3,627.0	0.00	0.00	0.00	
11,200.0	90.14	1.48	7,587.6	3,725.7	96.3	3,727.0	0.00	0.00	0.00	
11,300.0	90.14	1.48	7,587.3	3,825.7	98.8	3,827.0	0.00	0.00	0.00	
11,400.0	90.14	1.48	7,587.1	3,925.7	101.4	3,927.0	0.00	0.00	0.00	
11,500.0	90.14	1.48	7,586.8	4,025.6	104.0	4,027.0	0.00	0.00	0.00	
11,600.0	90.14	1.48	7,586.6	4,125.6	106.6	4,127.0	0.00	0.00	0.00	
11,700.0	90.14	1.48	7,586.4	4,225.6	109.2	4,227.0	0.00	0.00	0.00	
11,800.0	90.14	1.48	7,586.1	4,325.5	111.8	4,327.0	0.00	0.00	0.00	
11,856.2	90.14	1.48	7,586.0	4,381.7	113.2	4,383.2	0.00	0.00	0.00	
TD at 11856.2 - Ringer Fee #10 PBHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
Ringer Fee #10 PBHL	0.00	0.00	7,586.0	4,381.7	112.9	423,979.93	550,080.76	32° 9' 56.145 N	104° 18' 18.278 W	
- plan misses target center by 0.4usft at 11856.2usft MD (7586.0 TVD, 4381.7 N, 113.2 E)										
- Point										

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
6,216.0	6,216.0	1st Bone Spring Ss		0.00		
6,760.0	6,760.0	2nd Bone Spring Ss		0.00		
7,451.8	7,446.0	2nd Bone Spring Ss Lower		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
7,309.5	7,309.5	0.0	0.0	KOP 20°/100 DLS @ 1.48° AZI	
7,760.2	7,596.0	287.1	7.4	EOC - Hold to TD	
11,856.2	7,586.0	4,381.7	113.2	TD at 11856.2	



WELL DETAILS: Ringer Fed #10			
+N/S	+E/W	Ground Level:	0.0
0.0	0.0	North	419598.20
		East	549967.30
		SHL: 580' FSL / 330' FVLL	
		BHL: 330' FVLL / 450' FVLL	



Azimuths to Grid North
True North: -0.01°
Magnetic North: 8.10°
Magnetic Field
Strength: 48722.1nT
Dip Angle: 60.05°
Date: 09/08/2009
Model: IGRF200510

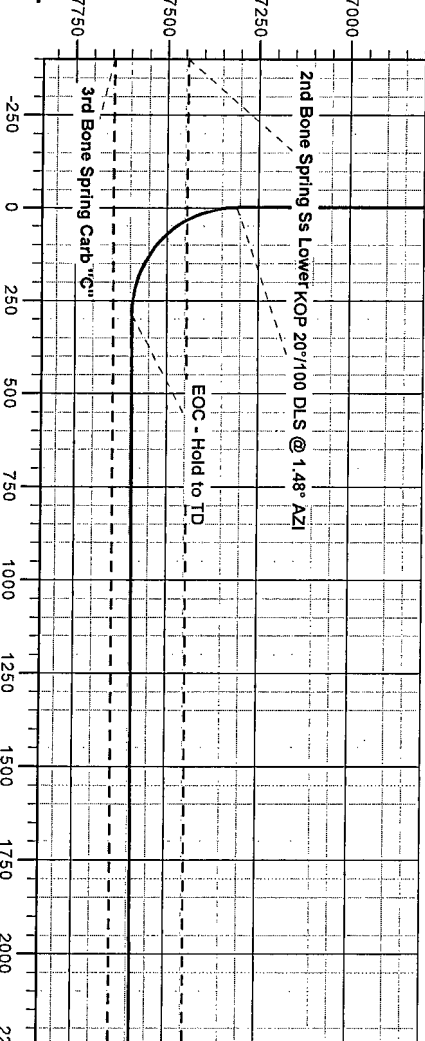
Cimarex Energy Co.
Project: Eddy County (NM83E)
Site: Sec 04, T25S, R25E
Well: Ringer Fed #10
Wellbore: Wellbore #1

WELLBORE TARGET DETAILS (LAT/LONG)			
Name	TVD	+N/S	+E/W
Ringer Fed #10 PBHL	7586.0	4381.7	112.9
		32° 9' 56.145 N	04° 18' 18.278 W

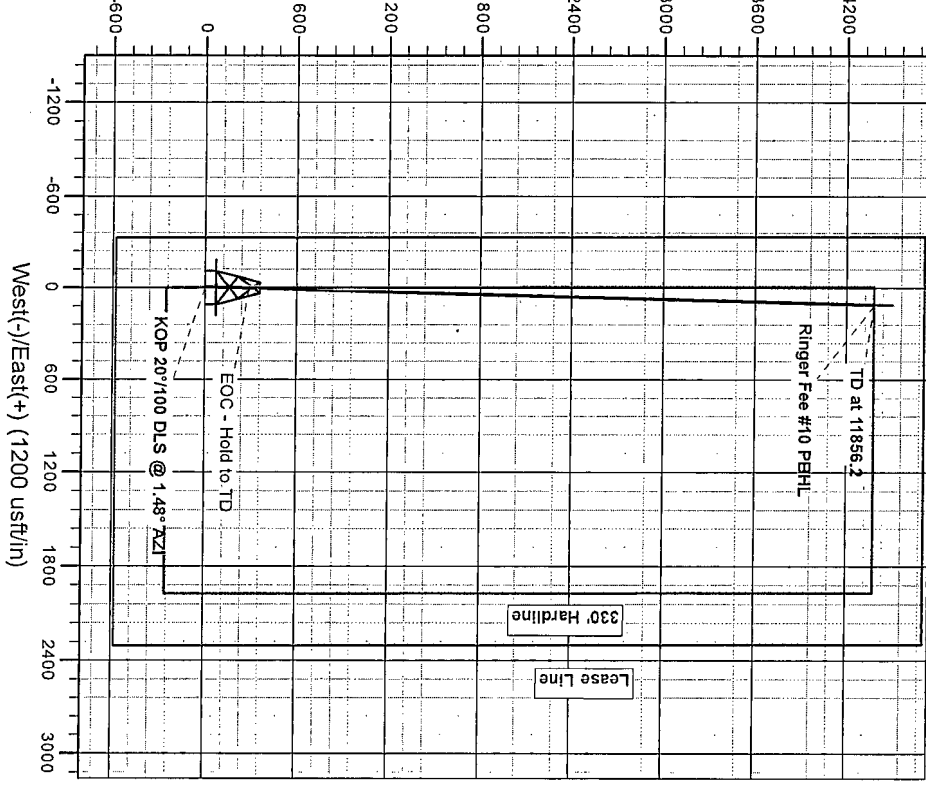
SECTION DETAILS			
TVD	MD	Inc	Azi
7309.5	7309.5	0.00	0.0
7586.0	7760.2	90.14	1.48
7586.0	11856.2	90.14	1.48
		1.48	4381.7
		113.2	4383.2
			TD at 11856.2

FORMATION TOP DETAILS			
TVDpath	MDpath	Formation	
6216.0	6216.0	1st Bone Spring Ss	
6760.0	6760.0	2nd Bone Spring Ss	
7446.0	7451.8	2nd Bone Spring Ss Lower	

True Vertical Depth (500 usft/in)



South(-)/North(+) (1200 usft/in)



Vertical Section at 1.48° (500 usft/in)

Created By: Aaron Pullin

Date: 8-42, December 21 2010

Plan: Plan #2 (Ringer Fed #10 Wellbore #1)

SR & A

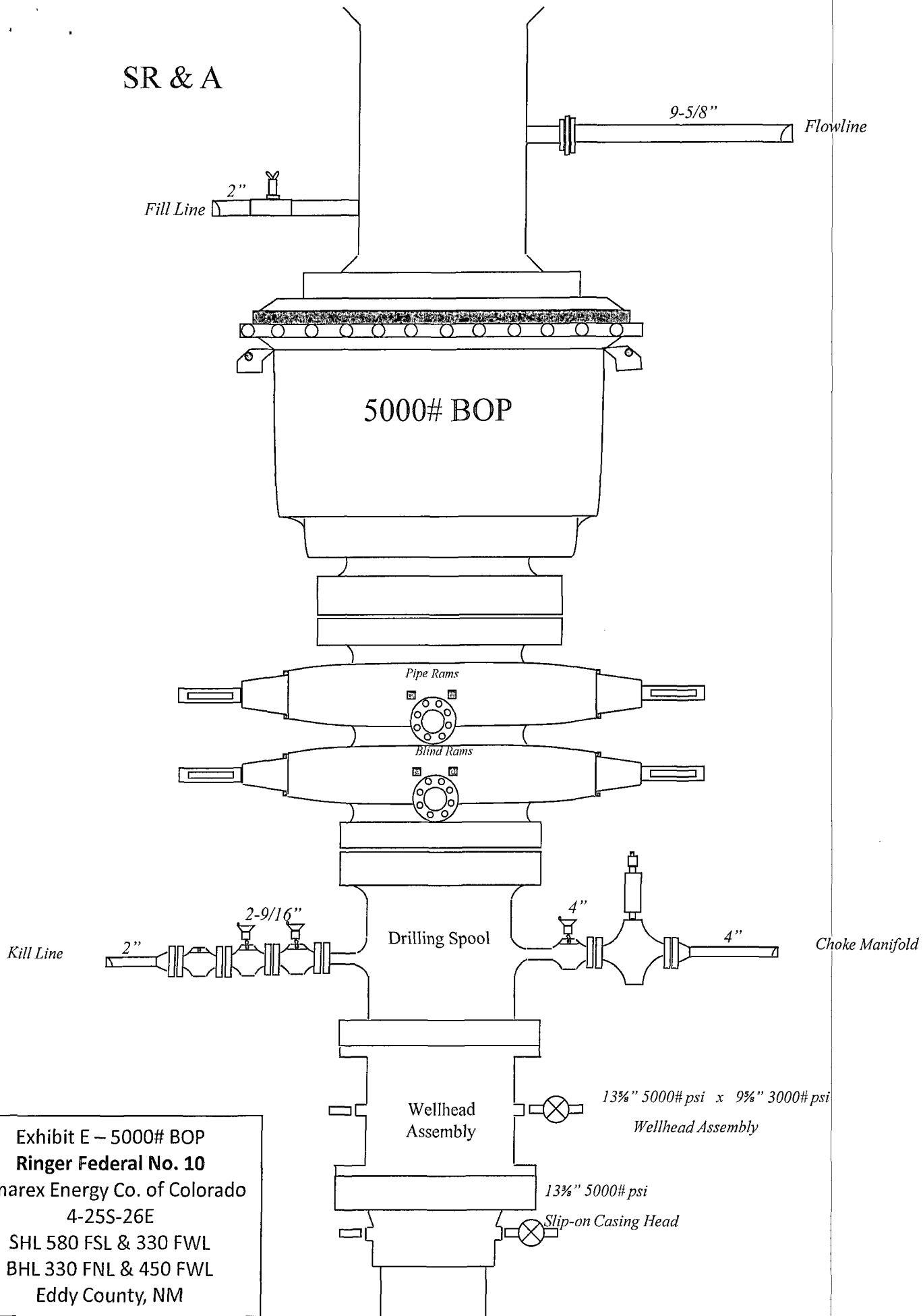
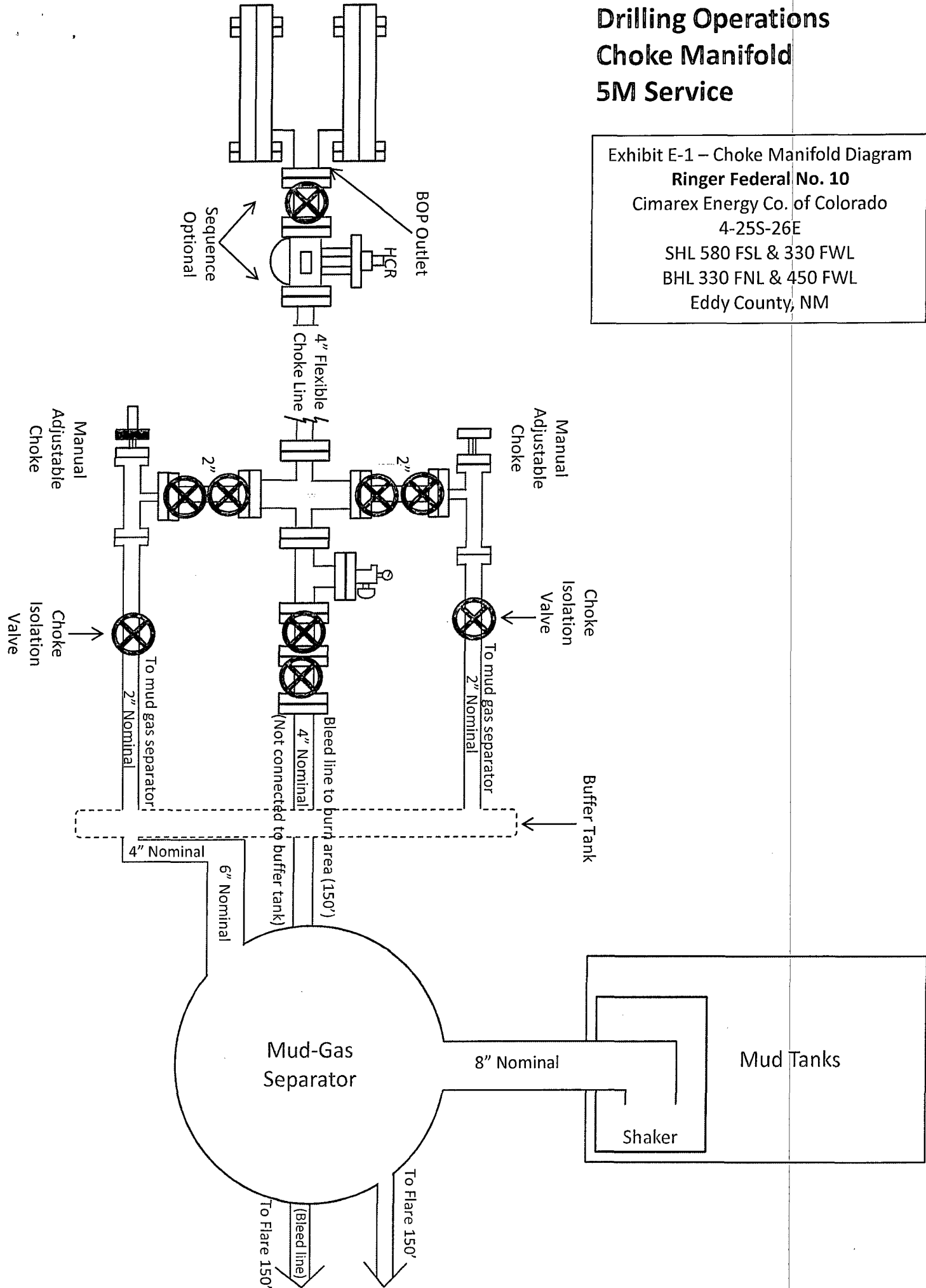


Exhibit E – 5000# BOP
Ringer Federal No. 10
 Cimarex Energy Co. of Colorado
 4-25S-26E
 SHL 580 FSL & 330 FWL
 BHL 330 FNL & 450 FWL
 Eddy County, NM

Drilling Operations
Choke Manifold
5M Service

Exhibit E-1 – Choke Manifold Diagram
Ringer Federal No. 10
Cimarex Energy Co. of Colorado
4-25S-26E
SHL 580 FSL & 330 FWL
BHL 330 FNL & 450 FWL
Eddy County, NM



DISTRICT I --- CHECKLIST FOR INTENTS TO DRILL

Operator CIMAREX ENERGY CO. of COLORADO OGRID # 162683
 38567 Well Name & # RINGER FEDERAL #10 H Surface Type (F) (S) (P)
 Location: UL M, Sect 4, Township 25 s, RNG 26 e,
D - 4 25 - 26 Sub-surface Type (F) (S) (P)

A. Date C101 rec'd / / C101 reviewed / /

B. 1. Check mark, Information is OK on Forms:

OGRID 1, BONDING FED, PROP CODE 1, WELL # , SIGNATURE

2. Inactive Well list as of: 4/4/11 # wells 1153 # Inactive wells 8

a. District Grant APD but see number of inactive wells:

No letter required X; Sent Letter to Operator , to Santa Fe

3. Additional Bonding as of: 4/4/11

a. District Denial because operator needs addition bonding:

No Letter required X; Sent Letter to Operator , To Santa Fe

b. District Denial because of Inactive well list and Financial Assurance:

No Letter required X; Sent Letter to Operator , To Santa Fe

C. C102 YES X NO , Signature

1. Pool WILDCAT-BOKE SPRING, Code 96403

a. Dedicated acreage 160, What Units DELM

b. SUR. Location Standard X: Non-Standard Location

c. Well shares acres: Yes , No X, # of wells plus this well #

2. 2nd. Operator in same acreage, Yes , No X

Agreement Letter , Disagreement letter

3. Intent to Directional Drill Yes X, No

a. Dedicated acreage 160, What Units DELM

b. Bottomhole Location Standard X, Non-Standard Bottomhole

4. Downhole Commingle: Yes , No X

a. Pool #2 , Code , Acres

Pool #3 , Code , Acres

Pool #4 , Code , Acres

5. POTASH Area Yes , No FED

D. Blowout Preventer Yes X No

E. H2S Yes , No , PART OF FEA API

F. C144 Pit Registration Yes , No X, need

G. Does APD require Santa Fe Approval:

1. Non-Standard Location: Yes , No X, NSL #

2. Non-Standard Proration: Yes , No X, NSP #

3. Simultaneous Dedication: Yes , No X, SD #

Number of wells Plus #

4. Injection order Yes , No X; PMX # or WFX #

5. SWD order Yes , NO X; SWD #

6. DHC from SF ; DHC-HOB ; Holding

7. OCD Approval Date 04/04/11

API #30-0 15-38658

8. Reviewers