ATS-11-137
EA-11-530

OCD-ARTESIA

Form 3160-3
(April 2004)

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

RECEIVED
MAY 25 2011
NMOCD ARTESIA

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-19836, NM-100324, Fee minerals (BHL)
	6. If Indian, Allotee or Tribe Name
	7. If Unit or CA Agreement, Name and No. Pending
1b Type of Well ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone	8. Lease Name and Well No. Parks Federal Com No. 2H <38690>
2 Name of Operator Cimarex Energy Co. of Colorado <162683>	9. API Well No. 30-015- 39186
3a Address 600 N. Marienfeld St., Ste. 600; Midland, TX 79701 — 3b Phone No (include area code) 432-571-7800	10 Field and Pool, or Exploratory Bone Spring Wildcat <96403>
4 Location of Well (Report location clearly and in accordance with any State requirements *) At Surface 990 FSL & 330 FEL; At proposed prod Zone 850 FSL & 330 FWL Horizontal Bone Spring Test	11. Sec, T. R. M or Blk. and Survey or Area 9-25S-26E
14 Distance in miles and direction from nearest town or post office*	12 County or Parish Eddy — 13. State NM

15 Distance from proposed* location to nearest property or lease line, ft (Also to nearest drig. unit line if any) 330	16 No of acres in lease NM-19836 - 359.86 acres; NM-100324 - 40 acres	17. Spacing Unit dedicated to this well S2S2 160 acres
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft N/A	19. Proposed Depth Pilot Hole 8200; MD 12251, TVD 7646	20 BLM/BIA Bond No. on File NM-2575
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3404' GR	22. Approximate date work will start* 06.01.11	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
2. A Drilling Plan
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)
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator Certification
6. Such other site specific information and/or plans as may be required by the authorized officer

25 Signature Zeno Farris	Name (Printed/Typed) Zeno Farris	Date 02.21.11
Title Manager Operations Administration		
Approved By (Signature) /s/ Don Peterson	Name (Printed/Typed)	Date MAY 19 2011
Title 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

APPROVAL FOR TWO YEARS

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)

KZ 07/06/11

Carlsbad Controlled Water Basin

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Approval Subject to General Requirements & Special Stipulations Attached

Application to Drill
Parks Federal Com No. 2
Cimarex Energy Co. of Colorado
Unit P, Section 9
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 990 FSL & 330 FEL
   BHL 850 FSL & 330 FWL

2. Elevation above sea level: 3404' 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: Pilot Hole 8200 MD 12251, TVD 7646

6. Estimated tops of geological markers:

Rustler	NA/Spotty
Top Salt	1019
Base Salt	1624
Delaware	1882
Cherry Canyon	2873
Brushy Canyon	4044
Bone Spring	5391

7. Possible mineral bearing formations:

Bone Spring	Oil
Delaware	Oil

8. Proposed drilling Plan

Drill 8¾" hole to pilot hole TD @ 8200 and log. Set 315 sks HalCem -H 0.5% CFR-3 0.1% HR-60116.5 ppg yield 1.06 0% Excess cement plug from 7388 to 8200 and dress off. Kick off lateral @ 7458 and drill to lateral TD 12251 MD, 7646 TVD). Run cemented 5½" production casing from 0-12251.

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	1,857'	9.8 - 10.0	28-29	NC	Saturated Brine. Sweep as needed to clean hole.
1,857'	to	12,251'	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	13⅜"	48#	STC	H-40
Intermediate	12¼"	0'	to	1857'	New	9⅝"	40#	LTC	J-55
Production	8¾"	0'	to	12251'	New	5½"	17#	LTC	P-110

11. Cementing Program:

Surface	Lead: 360SKS Halcem C + 4% Bentomite + 2% CaCl 13.5ppg 1.75yield 100% Excess Tail: 30SKS Halcem C + 2% CaCl 14.2ppg 1.34 yield 50% Excess **TOC Surface** **Centralizers per Onshore order 2.III.B.1.f**
Intermediate	Lead: 505SKS 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: 705SKS EconoCem - H + 0.2 % HR-601 2.44 11.9ppg 2.44 yield 50% Excess Tail: 1315SKS 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** **Centralizers every 3rd joint in lateral to provide adequate cement every 100' unless lateral doglegs require greater spacing between centralizers.**

See COA

13 3/8"

Office of the State Engineer indicates depth to ground water in the area is 40'. Fresh water zones will be protected by setting ~~9⅝~~" casing at 450 and cementing to surface. Hydrocarbon zones will be protected by setting 9⅝" casing at 1857 and 5½" at 12251 and cementing to surface.

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

12. Pressure control Equipment:
Exhibit "E". A 13⅝" 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. Mud gas seperator will be available while drilling in H2S areas.

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.

See COA

Cimarex Energy Co. of Colorado (operator) requests a variance if Cactus 110 (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: 78598 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)

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 H_2S in a one-time encounter in an Intra-salt Pocket and while drilling and completing wells in the Delaware Mountain Group. In this regard, attached is an H_2S Drilling Operations Plan. The ROEs encountered do not meet the BLM's minimum requirements for the submission of a "Public Protection Plan" for the drilling and completion of this well. Adequate flare lines will be installed off the mud / gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

Estimated BHP **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 potentialed as **an oil well.**

Cimarex Energy Co.

Eddy County (NM83E)
Sec 9 - T25S - R26E
Parks Federal Com #2

Wellbore #1

Plan: Plan #1

Standard Planning Report

27 January, 2011

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well Parks Federal Com #2
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 9 - T25S - R26E	**North Reference:**	Grid
Well:	Parks Federal Com #2	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

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 9 - T25S - R26E

Site Position:		**Northing:**	414,603.30 usft	**Latitude:**	32° 8' 23.337 N
From:	Map	**Easting:**	554,601.60 usft	**Longitude:**	104° 17' 25.725 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.02 °

Well Parks Federal Com #2

Well Position	**+N/-S**	0.0 usft	**Northing:**	414,603.30 usft	**Latitude:**	32° 8' 23.337 N
	+E/-W	0.0 usft	**Easting:**	554,601.60 usft	**Longitude:**	104° 17' 25.725 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	0.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	01/27/11	7.94	60.01	48,584

Design Plan #1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	269.56

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
7,458.0	0.00	0.00	7,458.0	0 0	0.0	0.00	0.00	0 00	0.00	
7,914.5	91.30	269.56	7,744.4	-2.2	-293.0	20.00	20.00	0.00	269.56	
12,251.2	91.30	269.56	7,646.0	-35.5	-4,628.4	0.00	0.00	0.00	0.00	Parks #2 PBHL

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well Parks Federal Com #2
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 9 - T25S - R26E	**North Reference:**	Grid
Well:	Parks Federal Com #2	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

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)
7,458.0	0.00	0.00	7,458.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP 20°/100 DLS @ 269.56° AZI									
7,475.0	3.40	269.56	7,475.0	0.0	-0.5	0.5	20.00	20.00	0.00
7,500.0	8.40	269.56	7,499.8	0.0	-3.1	3.1	20.00	20.00	0.00
7,525.0	13.40	269.56	7,524.4	-0.1	-7.8	7.8	20.00	20.00	0.00
7,550.0	18.40	269.56	7,548.4	-0.1	-14.6	14.6	20.00	20.00	0.00
7,575.0	23.40	269.56	7,571.8	-0.2	-23.6	23.6	20.00	20.00	0.00
7,600.0	28.40	269.56	7,594.3	-0.3	-34.5	34.5	20.00	20.00	0.00
7,625.0	33.40	269.56	7,615.7	-0.4	-47.3	47.3	20.00	20.00	0.00
7,650.0	38.40	269.56	7,635.9	-0.5	-62.0	62.0	20.00	20.00	0.00
7,675.0	43.40	269.56	7,654.8	-0.6	-78.3	78.3	20.00	20.00	0.00
7,700.0	48.40	269.56	7,672.2	-0.7	-96.3	96.3	20.00	20.00	0.00
7,725.0	53.40	269.56	7,688.0	-0.9	-115.7	115.7	20.00	20.00	0.00
7,750.0	58.40	269.56	7,702.0	-1.0	-136.4	136.4	20.00	20.00	0.00
7,775.0	63.40	269.56	7,714.2	-1.2	-158.2	158.2	20.00	20.00	0.00
7,800.0	68.40	269.56	7,724.4	-1.4	-181.0	181.0	20.00	20.00	0.00
7,825.0	73.40	269.56	7,732.5	-1.6	-204.6	204.6	20.00	20.00	0.00
7,850.0	78.40	269.56	7,738.6	-1.8	-228.9	228.9	20.00	20.00	0.00
7,875.0	83.40	269.56	7,742.6	-1.9	-253.5	253.6	20.00	20.00	0.00
7,900.0	88.40	269.56	7,744.4	-2.1	-278.5	278.5	20.00	20.00	0.00
7,914.5	91.30	269.56	7,744.4	-2.2	-293.0	293.0	20.00	20.00	0.00
EOC - Hold to TD									
8,000.0	91.30	269.56	7,742.5	-2.9	-378.4	378.5	0.00	0.00	0.00
8,100.0	91.30	269.56	7,740.2	-3.7	-478.4	478.4	0.00	0.00	0.00
8,200.0	91.30	269.56	7,737.9	-4.4	-578.4	578.4	0.00	0.00	0.00
8,300.0	91.30	269.56	7,735.7	-5.2	-678.4	678.4	0.00	0.00	0.00
8,400.0	91.30	269.56	7,733.4	-6.0	-778.3	778.4	0.00	0.00	0.00
8,500.0	91.30	269.56	7,731.1	-6.7	-878.3	878.3	0.00	0.00	0.00
8,600.0	91.30	269.56	7,728.9	-7.5	-978.3	978.3	0.00	0.00	0.00
8,700.0	91.30	269.56	7,726.6	-8.3	-1,078.2	1,078.3	0.00	0.00	0.00
8,800.0	91.30	269.56	7,724.3	-9.0	-1,178.2	1,178.3	0.00	0.00	0.00
8,900.0	91.30	269.56	7,722.0	-9.8	-1,278.2	1,278.2	0.00	0.00	0.00
9,000.0	91.30	269.56	7,719.8	-10.6	-1,378.2	1,378.2	0.00	0.00	0.00
9,100.0	91.30	269.56	7,717.5	-11.4	-1,478.1	1,478.2	0.00	0.00	0.00
9,200.0	91.30	269.56	7,715.2	-12.1	-1,578.1	1,578.1	0.00	0.00	0.00
9,300.0	91.30	269.56	7,713.0	-12.9	-1,678.1	1,678.1	0.00	0.00	0.00
9,400.0	91.30	269.56	7,710.7	-13.7	-1,778.0	1,778.1	0.00	0.00	0.00
9,500.0	91.30	269.56	7,708.4	-14.4	-1,878.0	1,878.1	0.00	0.00	0.00
9,600.0	91.30	269.56	7,706.2	-15.2	-1,978.0	1,978.0	0.00	0.00	0.00
9,700.0	91.30	269.56	7,703.9	-16.0	-2,078.0	2,078.0	0.00	0.00	0.00
9,800.0	91.30	269.56	7,701.6	-16.7	-2,177.9	2,178.0	0.00	0.00	0.00
9,900.0	91.30	269.56	7,699.4	-17.5	-2,277.9	2,278.0	0.00	0.00	0.00
10,000.0	91.30	269.56	7,697.1	-18.3	-2,377.9	2,377.9	0.00	0.00	0.00
10,100.0	91.30	269.56	7,694.8	-19.0	-2,477.8	2,477.9	0.00	0.00	0.00
10,200.0	91.30	269.56	7,692.6	-19.8	-2,577.8	2,577.9	0.00	0.00	0.00
10,300.0	91.30	269.56	7,690.3	-20.6	-2,677.8	2,677.9	0.00	0.00	0.00
10,400.0	91.30	269.56	7,688.0	-21.3	-2,777.8	2,777.8	0.00	0.00	0.00
10,500.0	91.30	269.56	7,685.7	-22.1	-2,877.7	2,877.8	0.00	0.00	0.00
10,600.0	91.30	269.56	7,683.5	-22.9	-2,977.7	2,977.8	0.00	0.00	0.00
10,700.0	91.30	269.56	7,681.2	-23.6	-3,077.7	3,077.8	0.00	0.00	0.00
10,800.0	91.30	269.56	7,678.9	-24.4	-3,177.6	3,177.7	0.00	0.00	0.00
10,900.0	91.30	269.56	7,676.7	-25.2	-3,277.6	3,277.7	0.00	0.00	0.00
11,000.0	91.30	269.56	7,674.4	-25.9	-3,377.6	3,377.7	0.00	0.00	0.00
11,100.0	91.30	269.56	7,672.1	-26.7	-3,477.6	3,477.7	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well Parks Federal Com #2
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 9 - T25S - R26E	**North Reference:**	Grid
Well:	Parks Federal Com #2	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

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)
11,200.0	91.30	269.56	7,669.9	-27.5	-3,577.5	3,577.6	0.00	0.00	0.00
11,300.0	91.30	269.56	7,667.6	-28.2	-3,677.5	3,677.6	0.00	0.00	0.00
11,400.0	91.30	269.56	7,665.3	-29.0	-3,777.5	3,777.6	0.00	0.00	0.00
11,500.0	91.30	269.56	7,663.1	-29.8	-3,877.4	3,877.6	0.00	0.00	0.00
11,600.0	91.30	269.56	7,660.8	-30.5	-3,977.4	3,977.5	0.00	0.00	0.00
11,700.0	91.30	269.56	7,658.5	-31.3	-4,077.4	4,077.5	0.00	0.00	0.00
11,800.0	91.30	269.56	7,656.3	-32.1	-4,177.4	4,177.5	0.00	0.00	0.00
11,900.0	91.30	269.56	7,654.0	-32.8	-4,277.3	4,277.5	0.00	0.00	0.00
12,000.0	91.30	269.56	7,651.7	-33.6	-4,377.3	4,377.4	0.00	0.00	0.00
12,100.0	91.30	269.56	7,649.4	-34.4	-4,477.3	4,477.4	0.00	0.00	0.00
12,200.0	91.30	269.56	7,647.2	-35.2	-4,577.2	4,577.4	0.00	0.00	0.00
12,251.2	91.30	269.56	7,646.0	-35.5	-4,628.4	4,628.5	0.00	0.00	0.00
TD at 12251.2									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Parks #2 PBHL	0.00	0.00	7,645.0	-35.4	-4,628.4	414,567.85	549,973.19	32° 8' 23.002 N	104° 18' 19.558 W
- plan misses target center by 1.0usft at 12251.2usft MD (7646.0 TVD, -35.5 N, -4628.4 E)									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
7,458.0	7,458.0	0.0	0.0	KOP 20°/100 DLS @ 269.56° AZI
7,914.5	7,744.4	-2.2	-293.0	EOC - Hold to TD
12,251.2	7,646.0	-35.5	-4,628.4	TD at 12251.2

CIMAREX

Project:	Eddy County (NM83E)
Site	Sec 9 - T25S - R26E
Well	Parks Federal Com #2
Wellbore	Wellbore #1
Design:	Plan #1
Version:	

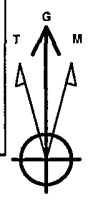
WELL DETAILS: Parks Federal Com #2

Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	414603.30	554601.60	32° 8' 23.337 N	104° 17' 25.725 W

SHL: 990' FSL / 330' FEL
BHL: 850' FSL / 330' FWL

GREAT WHITE DIRECTIONAL SERVICES, L.L.C.



Azimuths to Grid North
Total Correction: 7.92°
Magnetic Field
Strength: 48584.0snT
Dip Angle: 60.01°
Date: 01/27/2011
Model: IGRF200510

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSec	Departure	Annotation
7458.0	7458.0	0.00	0.00	0.0	0.0	0.0	0.0	KOP 20°/100 DLS @ 269.56° AZI
7744.4	7914.5	91.30	269.56	-2.2	-293.0	293.0	293.0	EOC - Hold to TD
7646.0	12251.2	91.30	269.56	-35.5	-4628.4	4628.5	4628.5	TD at 12251.2

PLAN DETAILS

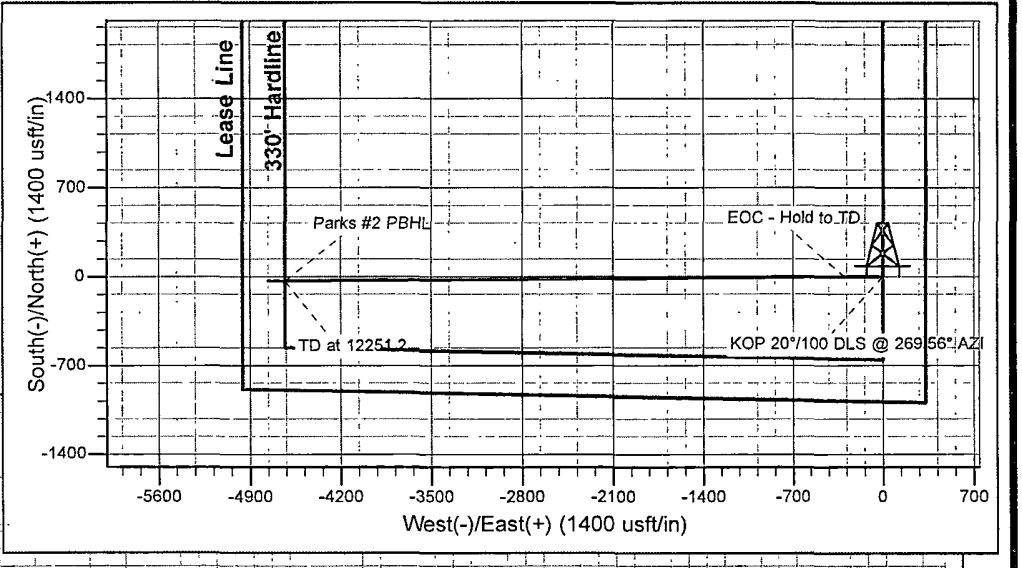
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
7458.0	0.00	0.00	7458.0	0.0	0.0	0.00	0.00	0.0	
7914.5	91.30	269.56	7744.4	-2.2	-293.0	20.00	269.56	293.0	
12251.2	91.30	269.56	7646.0	-35.5	-4628.4	0.00	0.00	4628.5	Parks #2 PBHL

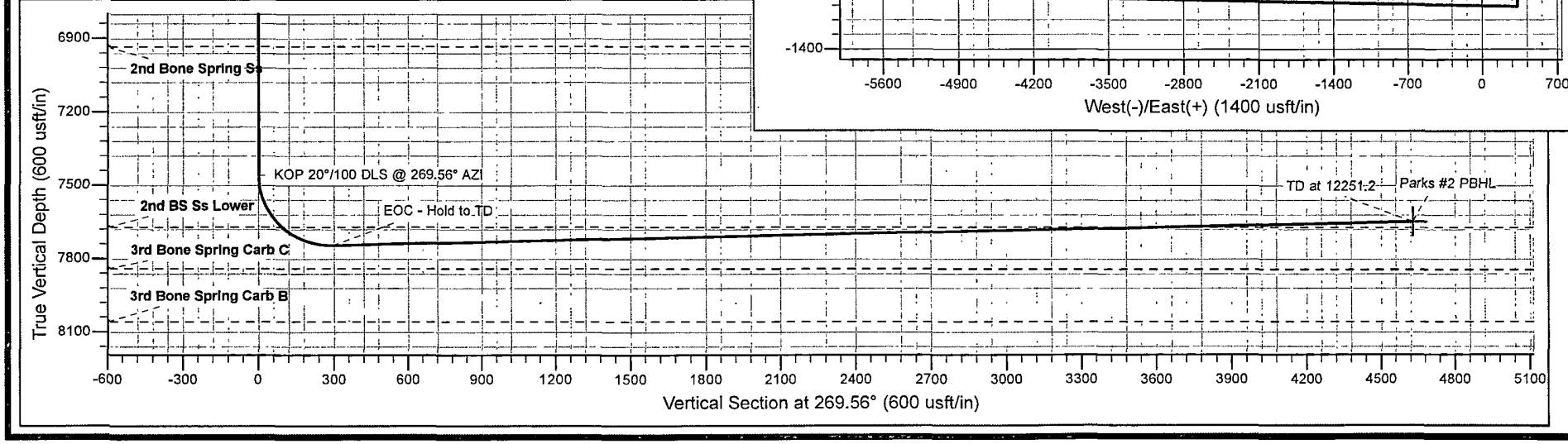
WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
Parks #2 PBHL	7645.0	-35.5	-4628.4	414567.85	549973.19

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1019.0	1019.0	Top Salt
1624.0	1624.0	Base Salt
1882.0	1882.0	Delaware
2873.0	2873.0	*Cherry Canyon*
4044.0	4044.0	Brushy Canyon
5073.0	5073.0	Brushy Canyon Lower
5391.0	5391.0	Bone Spring
5539.0	5539.0	Bone Spring A Shale
5838.0	5838.0	Bone Spring C Shale
6381.0	6381.0	1st Bone Spring Ss
6933.0	6933.0	2nd Bone Spring Ss
7670.0	7696.7	2nd BS Ss Lower





SR & A

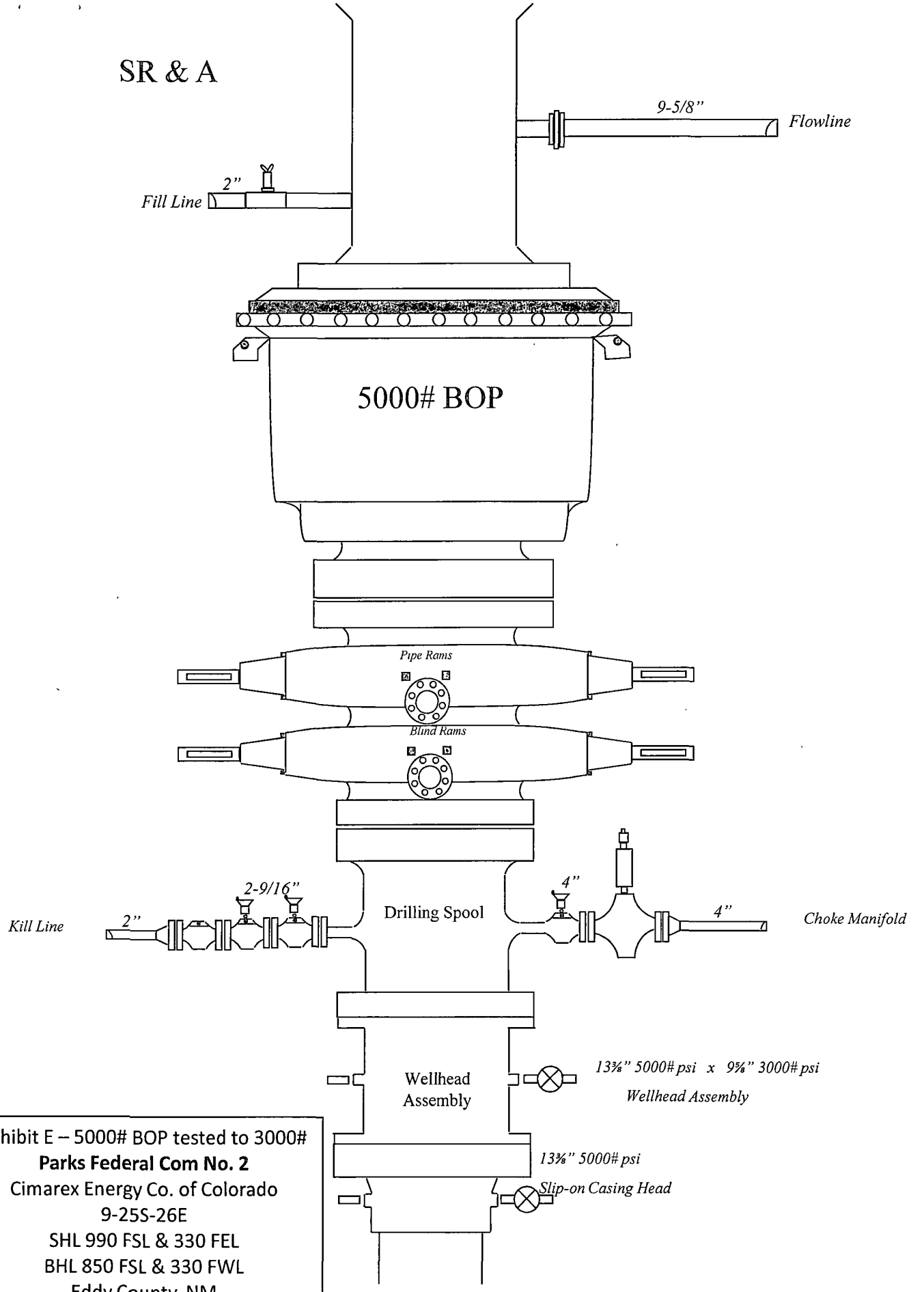
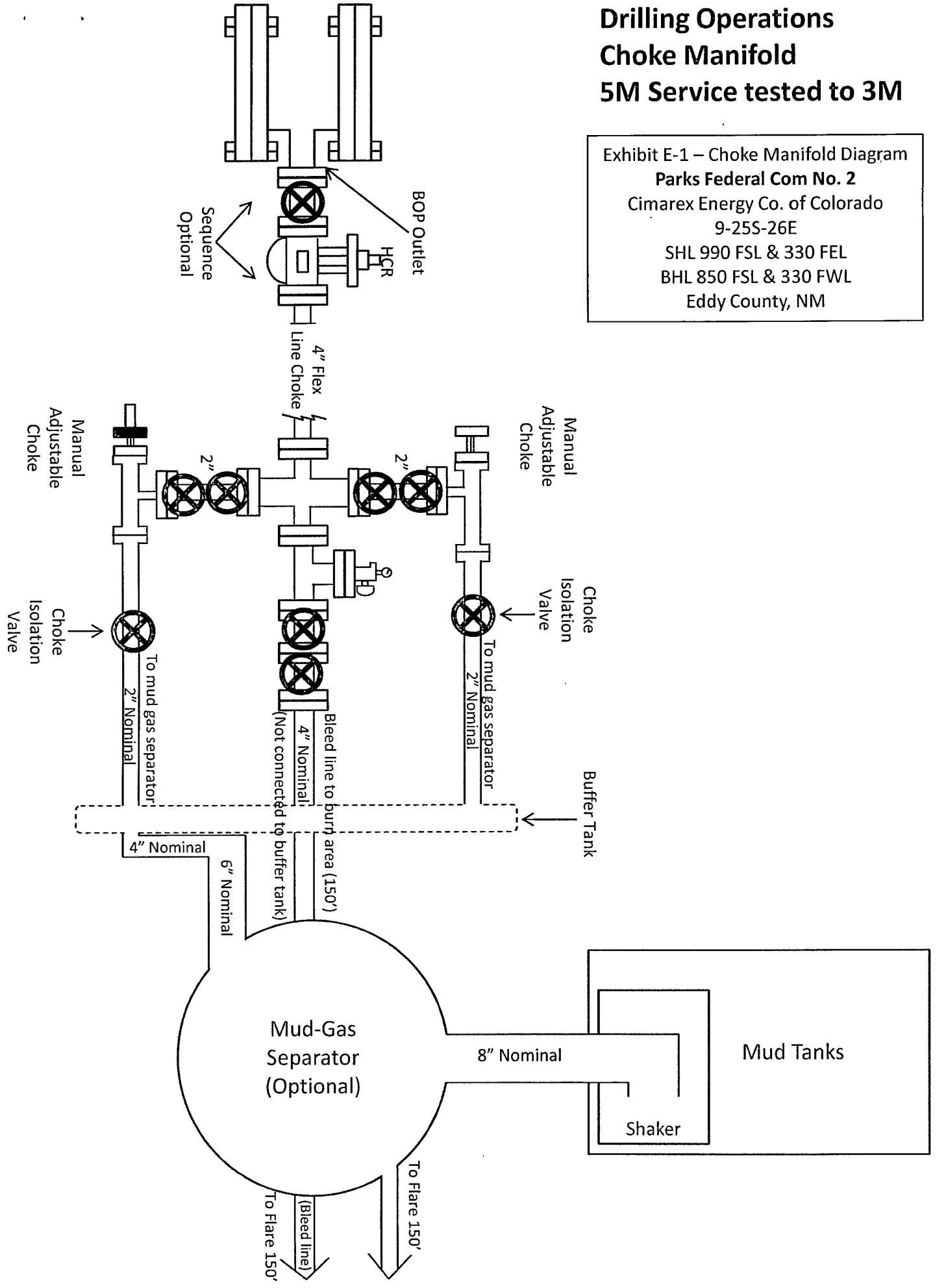


Exhibit E – 5000# BOP tested to 3000#
Parks Federal Com No. 2
Cimarex Energy Co. of Colorado
9-25S-26E
SHL 990 FSL & 330 FEL
BHL 850 FSL & 330 FWL
Eddy County, NM

Drilling Operations
Choke Manifold
5M Service tested to 3M

Exhibit E-1 – Choke Manifold Diagram
Parks Federal Com No. 2
Cimarex Energy Co. of Colorado
9-25S-26E
SHL 990 FSL & 330 FEL
BHL 850 FSL & 330 FWL
Eddy County, NM



Midwest Hose & Specialty, Inc.

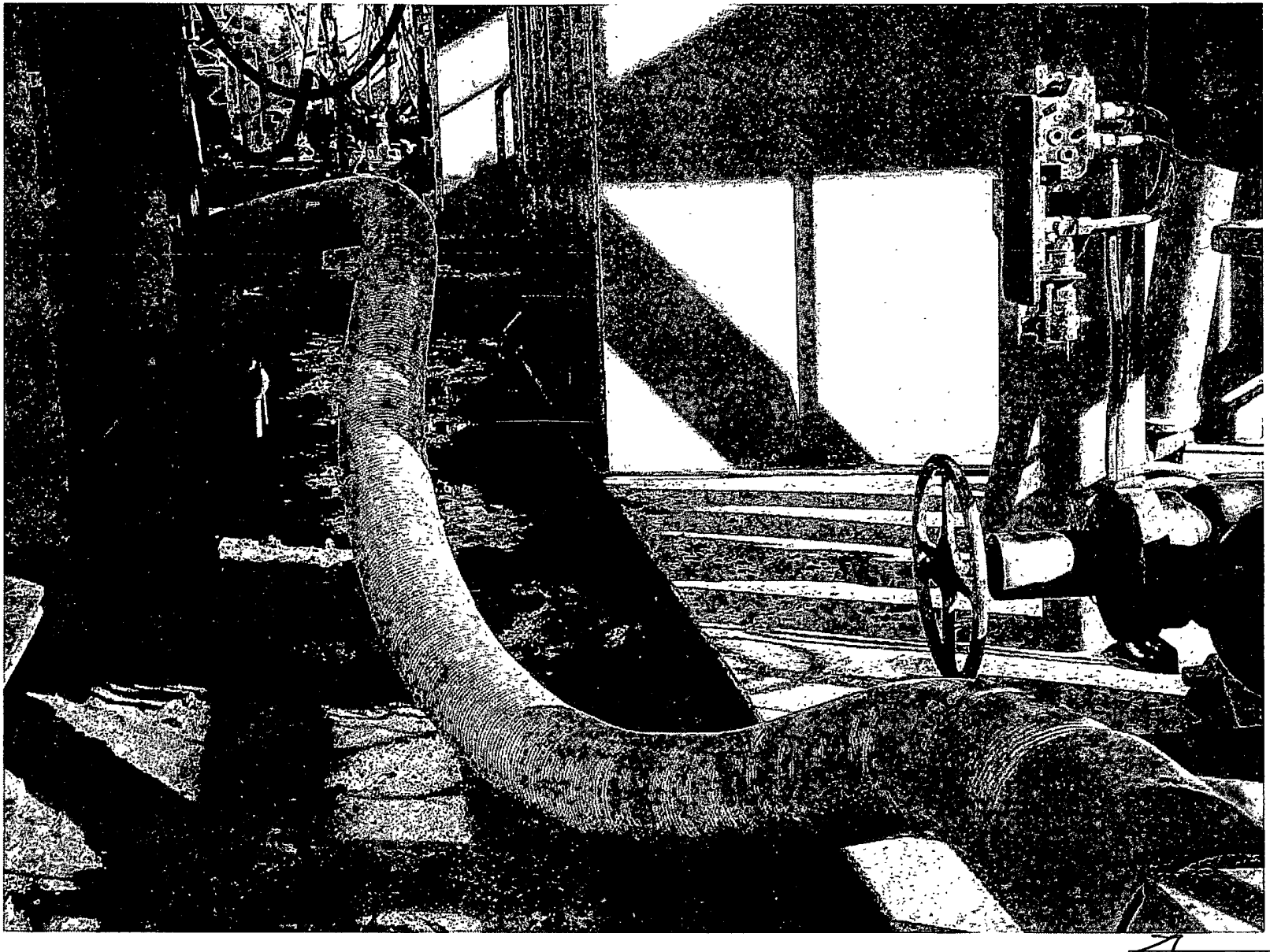
Specification Sheet
Choke & Kill Hose

The Midwest Hose & Specialty Choke & Kill hose is manufactured with only premium componets.The reinforcement cables, inner liner and cover are made of the highest quality material to handle the tough drilling applications of today's industry. The end connections are available with API flanges, API male threads, hubs, hammer unions or other special fittings upon request. Hose assembly is manufactured to API 7K. This assembly is wrapped with fire resistant vermculite coated fiberglass insulation, rated at 2000 degrees with stainless steel armor cover.

Working Pressure:	5,000 or 10,000 psi working pressure
Test Pressure:	10,000 or 15,000 psi test pressure
Reinforcement:	Multiple steel cables
Cover:	Stainless Steel Armor
Inner Tube:	Petroleum resistant, Abrasion resistant
End Fitting:	API flanges, API male threads, threaded or butt weld hammer unions, unibolt and other special connections
Maximum Length:	110 Feet
ID:	2-1/2", 3", 3-1/2", 4"
Operating Temperature:	-22 deg F to +180 deg F (-30 deg C to +82 deg C)

P.O. Box 96558 – 1421 S.E. 29th St. Oklahoma City, OK 73143 * (405) 670-6718 * Fax: (405) 670-6816

Cactus Rig 110
Serial # 78598



Tee must be targeted

Cactus Rig 110
Serial # 78598

MIDWEST

HOSE AND SPECIALTY INC.

INTERNAL HYDROSTATIC TEST REPORT

Customer:	P.O. Number:
CACTUS	Asset#M10751 Rig#110

HOSE SPECIFICATIONS

Type: CHOKE LINE	Length: 30'
I.D. 4" INCHES	O.D. 8" INCHES

WORKING PRESSURE	TEST PRESSURE	BURST PRESSURE
10,000 PSI	15,000 PSI	PSI

COUPLINGS

Type of End Fitting
4 1/16 10K FLANGE

Type of Coupling:	MANUFACTURED BY
SWEDGED	MIDWEST HOSE & SPECIALTY

PROCEDURE

Hose assembly pressure tested with water at ambient temperature.

TIME HELD AT TEST PRESSURE	ACTUAL BURST PRESSURE:
15 MIN.	0 PSI

COMMENTS:
S/N#78598 ASSET#M10751
Hose is covered with stainless steel armour cover and wraped with fire resistant vermiculite coated fiberglass insulation rated for 1500 degrees complete with lifting eyes

Date:	Tested By:	Approved:
1/26/2011	BOBBY FINK	MENDI JACKSON

DISTRICT I --- CHECKLIST FOR INTENTS TO DRILL

Operator CIMAREX ENERGY CO OF COLORADO OGRID # 162683

38690 Well Name & # PARKS FEDERAL COM #2 H Surface Type (F) (S) (P)

Location: UL P, Sect 9, Twnship 25 s, RNG 26 e, Sub-surface Type (F) (S) (P)

M 9 - 25S 26E

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

B. 1. Check mark, Information is OK on Forms:
OGRID X, BONDING FED, PROP CODE X, WELL # X, SIGNATURE ____
2. Inactive Well list as of : 7/6/11 # wells 1207, # Inactive wells 9
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: 7/6/11
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 X
1. Pool WILDCAT; BONE SPRING, Code 96403
a. Dedicated acreage 160, What Units MNOP
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 MNOP
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 X;

D. Blowout Preventer Yes X, No _____,

E. H2S Yes X No _____,

F. C144 Pit Registration Yes X, No _____, .

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 ____/____/____ API #30-015-39186
8. Reviewers_____