

13-1136

HOBBS OCD

Form 3160-3
(March 2012)

OCT 29 2013

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

5. Lease Serial No.
SHL: NM0553548; BHL: NM0553642

6. If Indian, Allottee or Tribe Name

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work

☒ DRILL☐ REENTER

1b. Type of Well

☒ Oil Well☐ Gas Well☐ Other☒ Single Zone☐ Multiple Zone

2. Name of Operator

Cimarex Energy Co.

3a. Address

600 N. Marienfield St. Ste. 600 Midland Tx 79071

3b. Phone No. (include area code)

432-571-7800

4. Location of Well (Report location clearly and in accordance with any State requirements. *)

At Surface 330 FNL & 1980 FWL

At proposed prod. Zone 330 FSL & 1980 FWL

14. Distance in miles and direction from nearest town or post office*

Jal NM is 26 miles southeast of location

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No. <40201>
Dos Equis 13 Federal Com #3H

9. API Well No.

30-025-41477

10. Field and Pool, or Exploratory

Triple X; Bone Spring West <96674>

11. Sec., T. R. M. or Blk. and Survey and Area

13, 24s, 32e

12. County or Parish

Lea

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
NM0553548=320 acres
NM0553642=400 acres

17. Spacing Unit dedicated to this well

160

18. Distance from proposed* location to nearest well, drilling, completed, applied for, on this lease, ft.

839' to the
Dos Equis 13
Fed Com #219. Proposed Depth
Pilot Hole TD: N/A
15,486 MD 11,085 TVD

20. BLM/BIA Bond No. on File

NM 2575; NMB 000835

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

3615 GR

22. Approximate date work will start*

11/30/13

23. Estimated duration

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

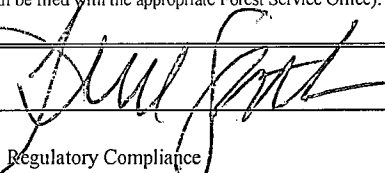
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

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



Name (Printed/Typed)

Terri Stathem

Date

8/14/13

Title

Regulatory Compliance

Approved By (Signature)

/s/ James Stovall

Name (Printed/Typed)

CARLSBAD FIELD OFFICE

Date

OCT 25 2013

Title

FIELD MANAGER

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 18 U.S.C. Section 1216, 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.

(Continued on page 2)

*(Instructions on page 2)

Carlsbad Controlled Water Basin

NOV 04 2013

Approval Subject to General Requirements
& Special Stipulations AttachedSEE ATTACHED FOR
CONDITIONS OF APPROVAL

Application to Drill
Dos Equis 13 Federal Com #3H
 Cimarex Energy Co.
 UL: C, Sec. 13, 24s, 32e
 Lea Co., NM

9. Cementing Program:

Casing Type	Type	Sacks	Yield	Weight	Cubic Feet	Cement Blend
Surface	Lead	784	1.75	13.50	1372	Class C + Bentonite + Calcium Chloride + LCM, 8.829 gps water
	Tail	160	1.34	14.80	214	Class C + LCM, 6.32 gps water
	TOC: 0		85% Excess			Centralizers per Onshore Order 2.III.B.1f
Intermediate	Lead	1122	1.88	12.90	2109	35:65 (poz/C) + Salt + Bentonite + LCM + retarder, 9.65 gps water
	Tail	291	1.34	14.80	389	Class C + retarder + LCM, 6.32 gps water
	TOC: 0		81% Excess			
Production	Lead	696	2.40	11.90	1670	35:65 (poz/H) + salt + Sodium Metasilicate + Bentonite + Fluid Loss + Dispersant + LCM + Retarder, 13.80 gps water
	Tail	1371	1.24	14.50	1699	50:50 (poz/H) + Bentonite + Salt + Fluid Loss + Dispersant + LCM + Retarder, 5.55 gps water
	TOC: 4780		25% Excess			No centralizers planned in the lateral section. 1 every jt from EOC to KOP. 1 every 4th joint from KOP to 500' inside previous casing.

Cement volumes will be adjusted depending on hole size

9a. Proposed Drilling Plan:

Pilot Hole TD: No Pilot KOP: 10,608' EOC: 11,357'

Set Surface and Intermediate casing strings. Drill production hole to KOP. Continue drilling lateral through the curve to TD. Run prod casing & cement.

10. Pressure Control Equipment:

Exhibit "E-1". A BOP consisting of two rams with blind rams and pipe rams, and one annular preventer. Below the surface casing, a 2M system will be used. Below the intermediate casing, a 3M system will be used. See attachments for BOP and choke manifold diagrams. An accumulator that meets the requirements in Onshore Order #2 for the pressure rating of the BOP stack. A Rotating head may be installed 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 and associated equipment will be installed, used, maintained, and tested in a manner necessary to assure well control and shall be in place and operational prior to drilling the surface casing shoe. The Annular Preventer shall be functioned at least weekly. The pipe and blind rams will be operated each trip. No abnormal pressure or temperature is expected while drilling.

BOPS will be tested by an independent service company. The ram preventers, choke manifold, and safety valves will be tested as follows: On the surface casing, pressure tests will be made to 250 psi low and 2000 psi high. On the intermediate casing, pressure tests will be made to 250 psi low and 3000 psi high.

The Annular Preventer will be tested to 250 psi low and 1000 psi high on the surface casing, and 250 low and 1500 high on the intermediate casing.

Cimarex Energy Co. of Colorado requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached (please see Exhibit F, F-1, F-2, F-3). The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used.

11. Proposed Mud Circulating System:

Depth	Mud Weight	Visc	Fluid Loss	Type Mud
0' to 1235' 1275'	8.30	28	NC	FW Spud Mud
1235' to 4980' 4950'	10.00	30-32	NC	Brine Water
4980' to 15486'	9.00	30-32	NC	FW/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.

The Mud Monitoring System is an electronic Pason System satisfying requirements of Onshore Order 1.

Application to Drill
Dos Equis 13 Federal Com #3H
Cimarex Energy Co.
UL: C, Sec. 13, 24s, 32e
Lea Co., NM

12. Testing, Logging and Coring Program:

- A. Mud logging program: 2 man unit from 4980 to TD
- B. Electric logging program: CNL / LDT / CAL / GR, DLL / GR -- Inter. Csg to TD
CNL / GR -- Surf to Inter. Csg
- C. No DSTs or cores are planned at this time
- D. CBL w/ CCL from as far as gravity will let it fall to TOC

13. Potential Hazards:

See COA
No abnormal pressures or temperatures are expected. In accordance with Onshore Order 6, Cimarex does not anticipate that there will be enough H₂S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of an "H₂S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H₂S Safety package on all wells, attached is an "H₂S Drilling Operations Plan." 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: 4989 psi

Estimated BHT: 168°

14. Construction and Drilling:

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

Drilling expected to take: 35 days.

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

15. Other Facets of Operations:

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

Bone Spring pay will be perforated and stimulated.

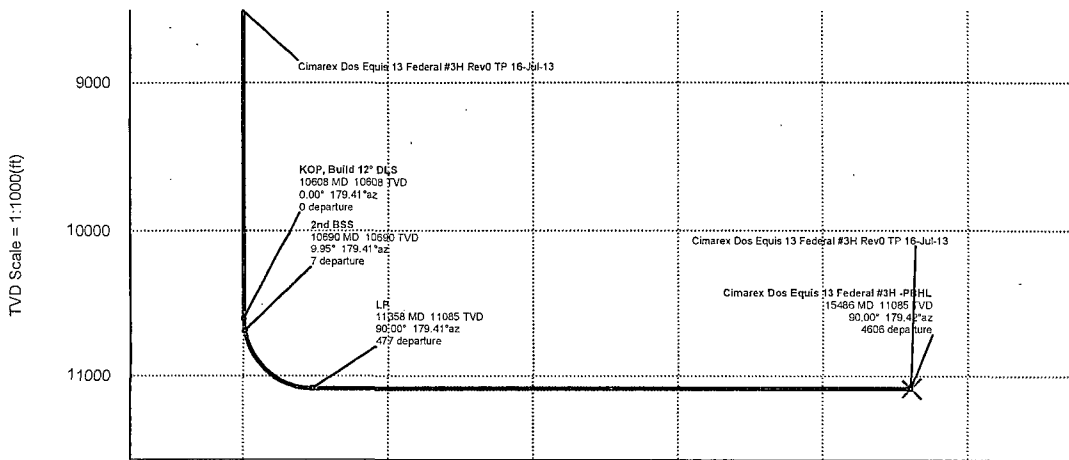
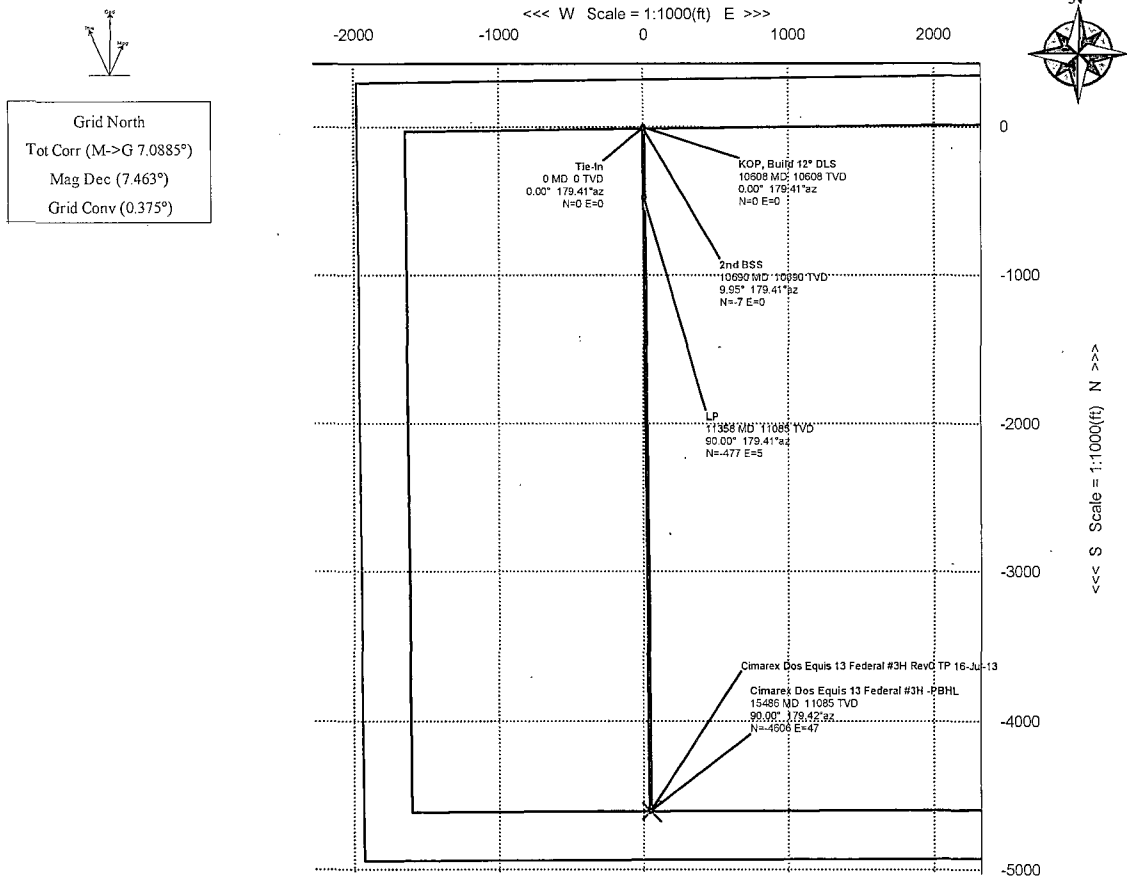
The proposed well will be tested and potential as **Oil**



Cimarex Energy

PATHFINDER
A Schlumberger Company

WELL	Dos Equis 13 Federal #3H	FIELD	NM Lea County (NAD 83)	STRUCTURE	Cimarex Dos Equis 13 Federal
Magnetic Parameters	Model: BGSIM 2012	Dir: 60.080°	Date: July 16, 2013	Surface Location	NAD83 New Mexico State Plane, Eastern Zone, US Feet
	Mag Dec: 7.463°	Mag Dec: 7.463°	PS: 43358.2m	Lat: N 32 13 26 47.4	Longitude: 106 08 10.128
				Lon: W 103 37 49 57.8	Easting: 786687.40 m
					Scale Factor: 0.9996320
					Miscellaneous
					Site: Dos Equis 13 Federal #3H
					TVD Ref: Ground Level (2615.8 above MSL)
					Plan: Cimarex Dos Equis 13 Federal #3H Rev0.03/18J013



Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
Tie-In	0.00	0.00	179.42	0.00	0.00	0.00	0.00	
9 5/8 Casing Point	4900.00	0.00	179.42	4900.00	0.00	0.00	0.00	0.00
KOP, Build 12° DLS	10607.50	0.00	179.42	10607.50	0.00	0.00	0.00	0.00
2nd BSS	10690.42	9.95	179.42	10690.00	7.18	-7.18	0.07	12.00
LP	11357.56	90.00	179.42	11085.00	477.50	-477.48	4.88	12.00
Cimarex Dos Equis 13 Federal #3H - PBHL	15485.97	90.00	179.42	11085.00	4605.92	-4605.68	47.00	0.00

Cimarex Dos Equis 13 Federal #3H Rev0 TP 16-Jul-13 Proposal Report

(Def Plan)

Report Date:	July 16, 2013 - 01:54 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Cimarex Energy	Vertical Section Azimuth:	179.415 ° (Grid North)
Field:	NM Lea County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Dos Equis 13 Federal #3H / Dos Equis 13 Federal #3H	TVD Reference Datum:	Ground Level
Well:	Dos Equis 13 Federal #3H	TVD Reference Elevation:	3615.000 ft above MSL
Borehole:	Original Borehole	Seabed / Ground Elevation:	3615.000 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	7.463 °
Survey Name:	Cimarex Dos Equis 13 Federal #3H Rev0 TP 16-Jul-13	Total Field Strength:	48368.235 nT
Survey Date:	July 16, 2013	Magnetic Dip Angle:	60.080 °
Tort / AHD / DDI / ERD Ratio:	90.001 ° / 4605.919 ft / 5.763 / 0.416	Declination Date:	July 16, 2013
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Declination Model:	BGGM 2012
Location Lat / Long:	N 32° 13' 26.57434", W 103° 37' 49.57832"	North Reference:	Grid North
Location Grid N/E Y/X:	N 445953.600 ftUS, E 758697.400 ftUS	Grid Convergence Used:	0.3748 °
CRS Grid Convergence Angle:	0.3748 °	Total Corr Mag North->Grid North:	7.0885 °
Grid Scale Factor:	0.9999632	Local Coord Referenced To:	Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)
Tie-In	0.00	0.00	179.42	0.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	N/A
	100.00	0.00	179.42	100.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	200.00	0.00	179.42	200.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	300.00	0.00	179.42	300.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	400.00	0.00	179.42	400.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	500.00	0.00	179.42	500.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	600.00	0.00	179.42	600.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	700.00	0.00	179.42	700.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	800.00	0.00	179.42	800.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	900.00	0.00	179.42	900.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	1000.00	0.00	179.42	1000.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	1100.00	0.00	179.42	1100.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	1200.00	0.00	179.42	1200.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	1300.00	0.00	179.42	1300.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	1400.00	0.00	179.42	1400.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	1500.00	0.00	179.42	1500.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	1600.00	0.00	179.42	1600.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	1700.00	0.00	179.42	1700.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	1800.00	0.00	179.42	1800.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	1900.00	0.00	179.42	1900.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	2000.00	0.00	179.42	2000.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	2100.00	0.00	179.42	2100.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	2200.00	0.00	179.42	2200.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	2300.00	0.00	179.42	2300.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	2400.00	0.00	179.42	2400.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	2500.00	0.00	179.42	2500.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	2600.00	0.00	179.42	2600.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	2700.00	0.00	179.42	2700.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	2800.00	0.00	179.42	2800.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	2900.00	0.00	179.42	2900.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	3000.00	0.00	179.42	3000.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00

Drilling Office 2.6.1166.0 ...Dos Equis 13 Federal #3H\Original Borehole\Cimarex Dos Equis 13 Federal #3H Rev0 TP 16-Jul-13 8/14/2013 1:38 PM Page 2 of 4

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)
	8600.00	0.00	179.42	8600.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	8700.00	0.00	179.42	8700.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	8800.00	0.00	179.42	8800.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	8900.00	0.00	179.42	8900.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	9000.00	0.00	179.42	9000.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	9100.00	0.00	179.42	9100.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	9200.00	0.00	179.42	9200.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	9300.00	0.00	179.42	9300.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	9400.00	0.00	179.42	9400.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	9500.00	0.00	179.42	9500.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	9600.00	0.00	179.42	9600.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	9700.00	0.00	179.42	9700.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	9800.00	0.00	179.42	9800.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	9900.00	0.00	179.42	9900.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	10000.00	0.00	179.42	10000.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	10100.00	0.00	179.42	10100.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	10200.00	0.00	179.42	10200.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	10300.00	0.00	179.42	10300.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	10400.00	0.00	179.42	10400.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	10500.00	0.00	179.42	10500.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
	10600.00	0.00	179.42	10600.00	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
KOP, Build 12° DLS	10607.50	0.00	179.42	10607.50	0.00	0.00	0.00	445953.60	758697.40	N 32 13 26.57	W 103 37 49.58	0.00	0.00	0.00
2nd BSS	10690.42	9.95	179.42	10690.00	7.18	-7.18	0.07	445946.42	758697.47	N 32 13 26.50	W 103 37 49.58	7.18	179.42	12.00
	10700.00	11.10	179.42	10699.42	8.93	-8.93	0.09	445944.67	758697.49	N 32 13 26.49	W 103 37 49.58	8.93	179.42	12.00
	10800.00	23.10	179.42	10794.83	38.28	-38.28	0.39	445915.32	758697.79	N 32 13 26.20	W 103 37 49.58	38.28	179.42	12.00
	10900.00	35.10	179.42	10882.05	86.82	-86.82	0.89	445866.79	758698.29	N 32 13 25.72	W 103 37 49.57	86.82	179.42	12.00
	11000.00	47.10	179.42	10957.27	152.43	-152.43	1.56	445801.18	758698.96	N 32 13 25.07	W 103 37 49.57	152.43	179.42	12.00
	11100.00	59.10	179.42	11017.21	232.25	-232.24	2.37	445721.37	758699.77	N 32 13 24.28	W 103 37 49.57	232.25	179.42	12.00
	11200.00	71.09	179.42	11059.24	322.79	-322.77	3.30	445630.84	758700.70	N 32 13 23.38	W 103 37 49.56	322.79	179.42	12.00
LP	11300.00	83.09	179.42	11081.54	420.08	-420.06	4.29	445533.55	758701.69	N 32 13 22.42	W 103 37 49.56	420.08	179.42	12.00
	11357.56	90.00	179.42	11085.00	477.50	-477.48	4.88	445476.14	758702.28	N 32 13 21.85	W 103 37 49.56	477.50	179.42	12.00
	11400.00	90.00	179.42	11085.00	519.94	-519.92	5.31	445433.70	758702.71	N 32 13 21.43	W 103 37 49.56	519.94	179.42	0.00
	11500.00	90.00	179.42	11085.00	619.94	-619.91	6.33	445333.71	758703.73	N 32 13 20.44	W 103 37 49.55	619.94	179.42	0.00
	11600.00	90.00	179.42	11085.00	719.94	-719.91	7.35	445233.72	758704.75	N 32 13 19.45	W 103 37 49.55	719.94	179.42	0.00
	11700.00	90.00	179.42	11085.00	819.94	-819.90	8.37	445133.73	758705.77	N 32 13 18.46	W 103 37 49.54	819.94	179.42	0.00
	11800.00	90.00	179.42	11085.00	919.94	-919.90	9.39	445033.74	758706.79	N 32 13 17.47	W 103 37 49.54	919.94	179.42	0.00
	11900.00	90.00	179.42	11085.00	1019.94	-1019.89	10.41	444933.75	758707.81	N 32 13 16.48	W 103 37 49.53	1019.94	179.42	0.00
	12000.00	90.00	179.42	11085.00	1119.94	-1119.89	11.43	444833.76	758708.83	N 32 13 15.49	W 103 37 49.53	1119.94	179.42	0.00
	12100.00	90.00	179.42	11085.00	1219.94	-1219.88	12.45	444733.77	758709.85	N 32 13 14.50	W 103 37 49.53	1219.94	179.42	0.00
	12200.00	90.00	179.42	11085.00	1319.94	-1319.88	13.47	444633.78	758710.87	N 32 13 13.51	W 103 37 49.52	1319.94	179.42	0.00
	12300.00	90.00	179.42	11085.00	1419.94	-1419.87	14.49	444533.78	758711.89	N 32 13 12.52	W 103 37 49.52	1419.94	179.42	0.00
	12400.00	90.00	179.42	11085.00	1519.94	-1519.87	15.51	444433.79	758712.91	N 32 13 11.53	W 103 37 49.51	1519.94	179.42	0.00
	12500.00	90.00	179.42	11085.00	1619.94	-1619.86	16.53	444333.80	758713.93	N 32 13 10.54	W 103 37 49.51	1619.94	179.42	0.00
	12600.00	90.00	179.42	11085.00	1719.94	-1719.86	17.55	444233.81	758714.95	N 32 13 9.56	W 103 37 49.50	1719.94	179.42	0.00
	12700.00	90.00	179.42	11085.00	1819.94	-1819.85	18.57	444133.82	758715.97	N 32 13 8.57	W 103 37 49.50	1819.94	179.42	0.00
	12800.00	90.00	179.42	11085.00	1919.94	-1919.84	19.59	444033.83	758716.99	N 32 13 7.58	W 103 37 49.50	1919.94	179.42	0.00
	12900.00	90.00	179.42	11085.00	2019.94	-2019.84	20.61	443933.84	758718.01	N 32 13 6.59	W 103 37 49.49	2019.94	179.42	0.00
	13000.00	90.00	179.42	11085.00	2119.94	-2119.83	21.63	443833.85	758719.03	N 32 13 5.60	W 103 37 49.49	2119.94	179.42	0.00
	13100.00	90.00	179.42	11085.00	2219.94	-2219.83	22.66	443733.86	758720.05	N 32 13 4.61	W 103 37 49.48	2219.94	179.42	0.00
	13200.00	90.00	179.42	11085.00	2319.94	-2319.82	23.68	443633.87	758721.07	N 32 13 3.62	W 103 37 49.48	2319.94	179.42	0.00
	13300.00	90.00	179.42	11085.00	2419.94	-2419.82	24.70	443533.88	758722.10	N 32 13 2.63	W 103 37 49.48	2419.94	179.42	0.00
	13400.00	90.00	179.42	11085.00	2519.94	-2519.81	25.72	443433.88	758723.12	N 32 13 1.64	W 103 37 49.47	2519.94	179.42	0.00
	13500.00	90.00	179.42	11085.00	2619.94	-2619.81	26.74	443333.89	758724.14	N 32 13 0.65	W 103 37 49.47	2619.94	179.42	0.00
	13600.00	90.00	179.42	11085.00	2719.94	-2719.80	27.76	443233.90	758725.16	N 32 12 59.66	W 103 37 49.46	2719.94	179.42	0.00

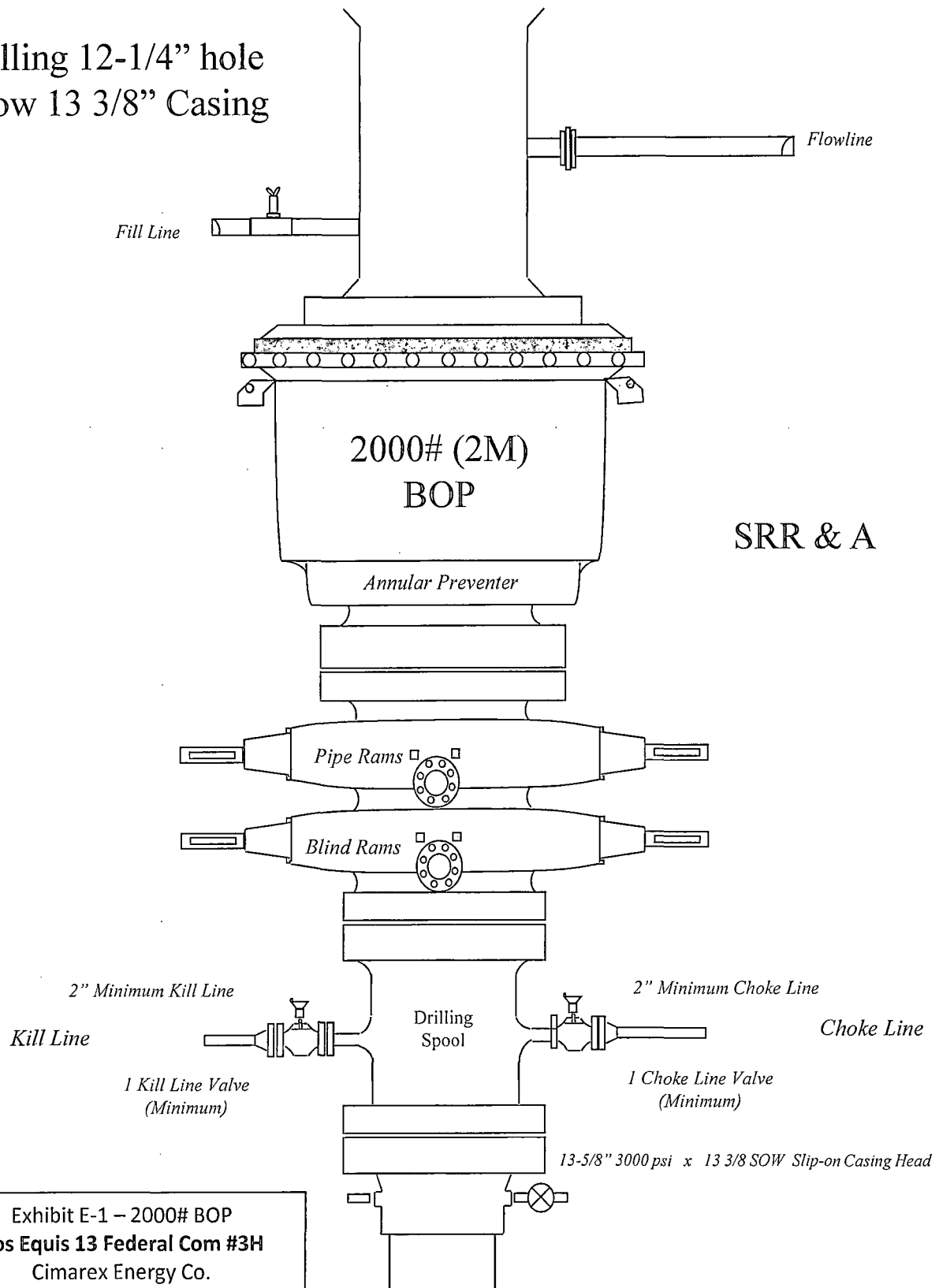
Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	Closure (ft)	Closure Azimuth (°)	DLS ("/100ft)
	13700.00	90.00	179.42	11085.00	2819.94	-2819.80	28.78	443133.91	758726.18	N 32 12 58.67	W 103 37 49.46	2819.94	179.42	0.00
	13800.00	90.00	179.42	11085.00	2919.94	-2919.79	29.80	443033.92	758727.20	N 32 12 57.68	W 103 37 49.45	2919.94	179.42	0.00
	13900.00	90.00	179.42	11085.00	3019.94	-3019.79	30.82	442933.93	758728.22	N 32 12 56.69	W 103 37 49.45	3019.94	179.42	0.00
	14000.00	90.00	179.42	11085.00	3119.94	-3119.78	31.84	442833.94	758729.24	N 32 12 55.70	W 103 37 49.45	3119.94	179.42	0.00
	14100.00	90.00	179.42	11085.00	3219.94	-3219.78	32.86	442733.95	758730.26	N 32 12 54.71	W 103 37 49.44	3219.94	179.42	0.00
	14200.00	90.00	179.42	11085.00	3319.94	-3319.77	33.88	442633.96	758731.28	N 32 12 53.72	W 103 37 49.44	3319.94	179.42	0.00
	14300.00	90.00	179.42	11085.00	3419.94	-3419.77	34.90	442533.97	758732.30	N 32 12 52.73	W 103 37 49.43	3419.94	179.42	0.00
	14400.00	90.00	179.42	11085.00	3519.94	-3519.76	35.92	442433.98	758733.32	N 32 12 51.74	W 103 37 49.43	3519.94	179.42	0.00
	14500.00	90.00	179.42	11085.00	3619.94	-3619.76	36.94	442333.98	758734.34	N 32 12 50.75	W 103 37 49.42	3619.94	179.42	0.00
	14600.00	90.00	179.42	11085.00	3719.94	-3719.75	37.96	442233.99	758735.36	N 32 12 49.77	W 103 37 49.42	3719.94	179.42	0.00
	14700.00	90.00	179.42	11085.00	3819.94	-3819.75	38.98	442134.00	758736.38	N 32 12 48.78	W 103 37 49.42	3819.94	179.42	0.00
	14800.00	90.00	179.42	11085.00	3919.94	-3919.74	40.00	442034.01	758737.40	N 32 12 47.79	W 103 37 49.41	3919.94	179.42	0.00
	14900.00	90.00	179.42	11085.00	4019.94	-4019.74	41.02	441934.02	758738.42	N 32 12 46.80	W 103 37 49.41	4019.94	179.42	0.00
	15000.00	90.00	179.42	11085.00	4119.94	-4119.73	42.04	441834.03	758739.44	N 32 12 45.81	W 103 37 49.40	4119.94	179.42	0.00
	15100.00	90.00	179.42	11085.00	4219.94	-4219.73	43.06	441734.04	758740.46	N 32 12 44.82	W 103 37 49.40	4219.94	179.42	0.00
	15200.00	90.00	179.42	11085.00	4319.94	-4319.72	44.08	441634.05	758741.48	N 32 12 43.83	W 103 37 49.39	4319.94	179.42	0.00
	15300.00	90.00	179.42	11085.00	4419.94	-4419.71	45.10	441534.06	758742.50	N 32 12 42.84	W 103 37 49.39	4419.94	179.42	0.00
	15400.00	90.00	179.42	11085.00	4519.94	-4519.71	46.12	441434.07	758743.52	N 32 12 41.85	W 103 37 49.39	4519.94	179.42	0.00
Cimarex Dos Equis 13 Federal #3H - PBHL	15485.97	90.00	179.42	11085.00	4605.92	-4605.68	47.00	441348.10	758744.40	N 32 12 41.00	W 103 37 49.38	4605.92	179.42	0.00

Survey Type: Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	10607.000	1/100.000	30.000	30.000	SLB_NSG+MSHOT	Original Borehole / Cimarex Dos Equis 13 Federal #3H Rev0 TP 16-
	10607.000	15485.974	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Dos Equis 13 Federal #3H Rev0 TP 16-

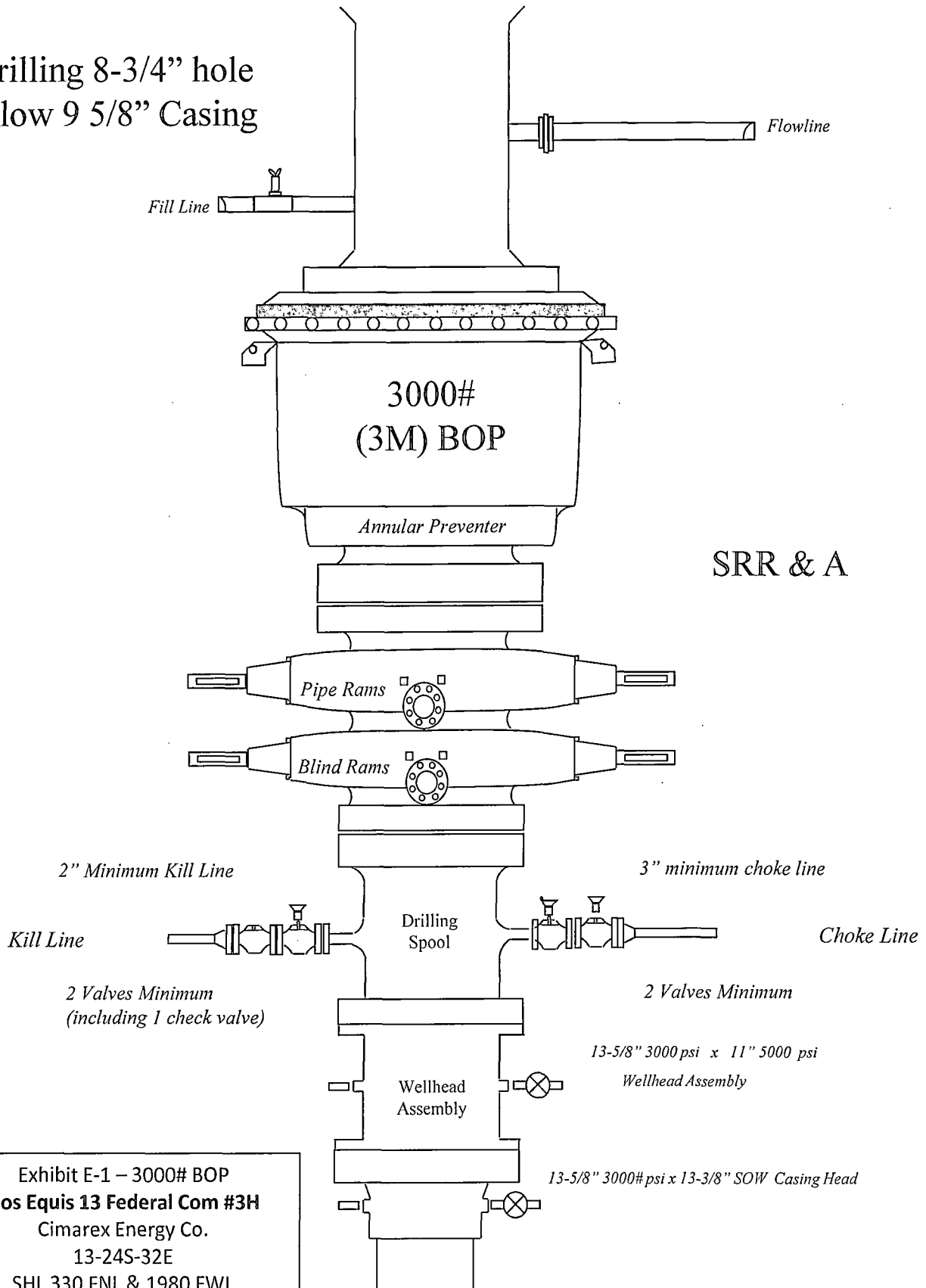
Drilling 12-1/4" hole
below 13 3/8" Casing



SRR & A

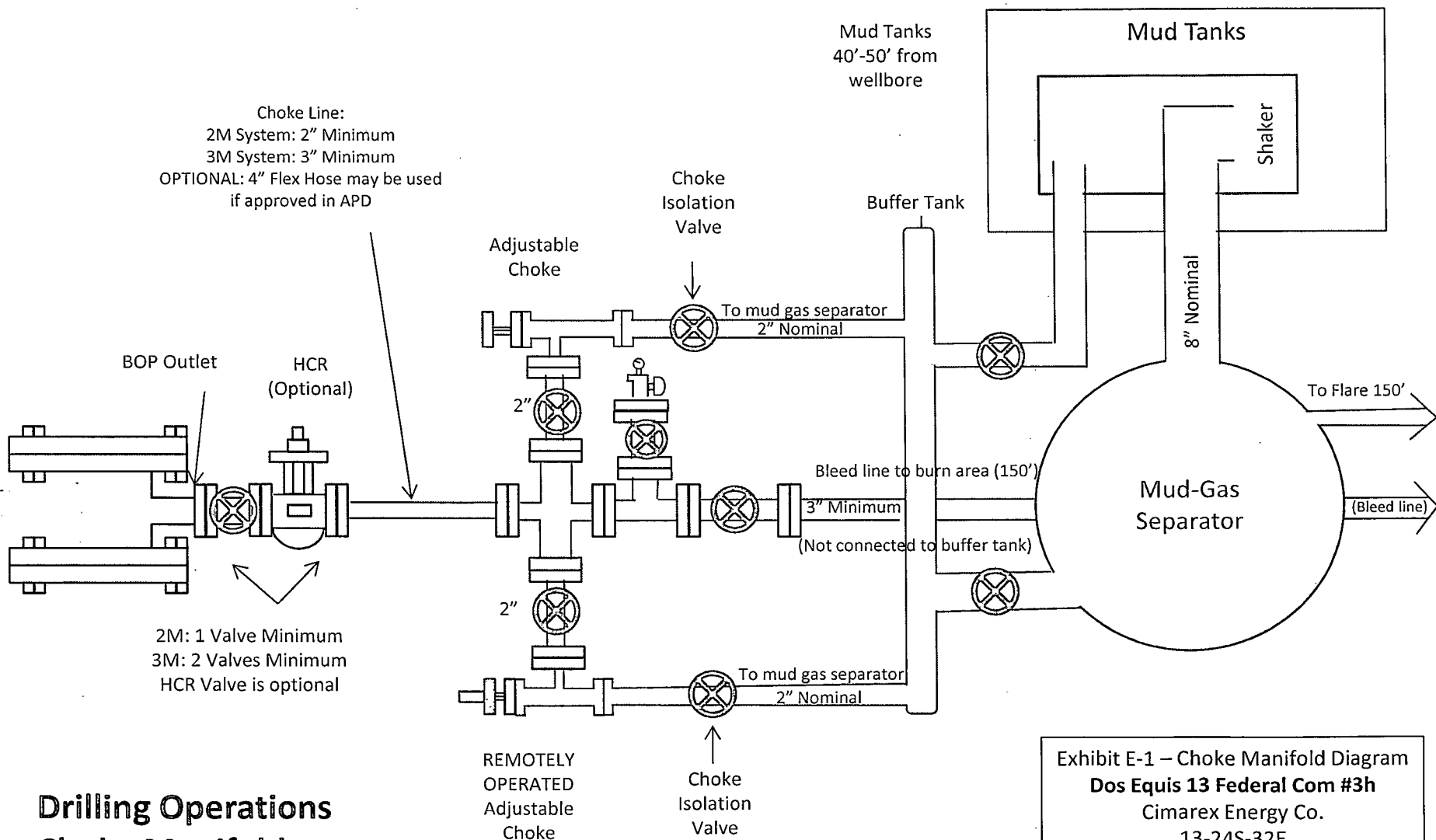
Exhibit E-1 – 2000# BOP
Dos Equis 13 Federal Com #3H
Cimarex Energy Co.
13-24S-32E
SHL 330 FNL & 1980 FWL
BHL 330 FSL & 1980 FWL
Lea County, NM

Drilling 8-3/4" hole
below 9 5/8" Casing



SRR & A

Exhibit E-1 – 3000# BOP
Dos Equis 13 Federal Com #3H
Cimarex Energy Co.
13-24S-32E
SHL 330 FNL & 1980 FWL
BHL 330 FSL & 1980 FWL
Lea County, NM



Drilling Operations Choke Manifold 2M/3M Service

Exhibit E-1 – Choke Manifold Diagram
Dos Equis 13 Federal Com #3h
 Cimarex Energy Co.
 13-24S-32E
 SHL 330 FNL & 1980 FWL
 BHL 330 FSL & 1980 FWL
 Lea County, NM

Exhibit F-1 - Co-Flex Hose Hydrostatic Test

Dos Equis 13 Federal Com #3H

Cimarex Energy Co.

13-24S-32E

SHL 330 FNL & 1980 FWL

BHL 330 FSL & 1980 FWL

Lea County, NM



Midwest Hose
& Specialty, Inc.

INTERNAL HYDROSTATIC TEST REPORT

Customer:

Oderco Inc

P.O. Number:

odyd-271

HOSE SPECIFICATIONS

Type: Stainless Steel Armor
Choke & Kill Hose

Hose Length: 45'ft.

I.D. 4 INCHES

O.D. 9 INCHES

WORKING PRESSURE

TEST PRESSURE

BURST PRESSURE

10,000 PSI

15,000 PSI

0 PSI

COUPLINGS

Stem Part No.

OKC

OKC

Ferrule No.

OKC

OKC

Type of Coupling:

Swage-It

PROCEDURE

Hose assembly pressure tested with water at ambient temperature.

TIME HELD AT TEST PRESSURE

ACTUAL BURST PRESSURE:

15 MIN.

0 PSI

Hose Assembly Serial Number:

79793

Hose Serial Number:

OKC

Comments:

Date:

3/8/2011

Tested:

A. Jarama

Approved:

K. Jarama



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

Customer: Houston

Pick Ticket #: 94260

March 3, 2011

Hose Specifications

Hose Type

C&K

LD

4"

Working Pressure

10000 PSI

Length

45'

O.D.

6.09"

Burst Pressure

Standards Safety Multiplier Applies

Verification

Type of Fittings

4 1/16 10K

Die Size

6.39"

Hose Serial #

5544

Coupling Method

Swage

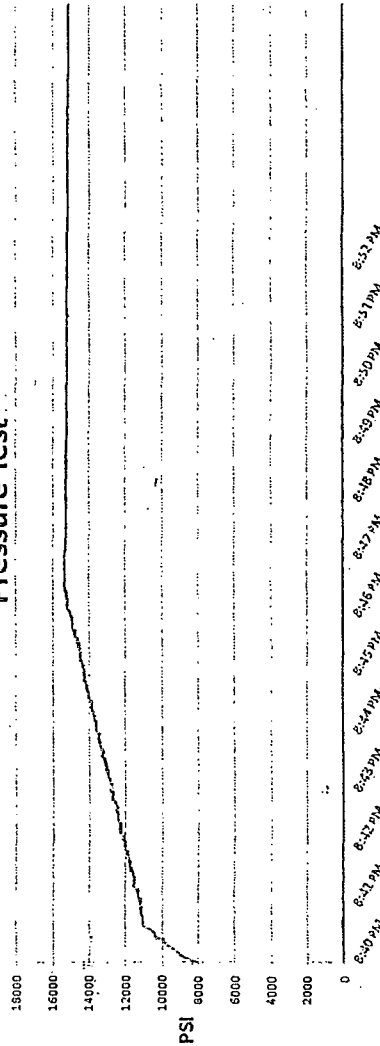
Final O.D.

6.25"

Hose Assembly Serial #

79793

Pressure Test



Test Pressure
15000 PSI

Time Held at Test Pressure
11 Minutes

Actual Burst Pressure

Peak Pressure
15485 PSI

Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: Zac McConnell

Approved By: Kim Thomas



Midwest Hose
& Specialty, Inc.

Exhibit F -3- Co-Flex Hose
Dos Equis 13 Federal Com #3H
Cimarex Energy Co.
13-24S-32E
SHL 330 FNL & 1980 FWL
BHL 330 FSL & 1980 FWL
Lea County, NM

Specification Sheet Choke & Kill Hose

The Midwest Hose & Specialty Choke & Kill hose is manufactured with only premium components. 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 vermiculite 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, unbolt 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)

Exhibit F-2 - Co-Flex Hose
Dos Equis 13 Federal Com #3H
Cimarex Energy Co.
13-245-32E
SHL 330 FNL & 1980 FWL
BHL 330 FSL & 1980 FWL
Lea County, NM

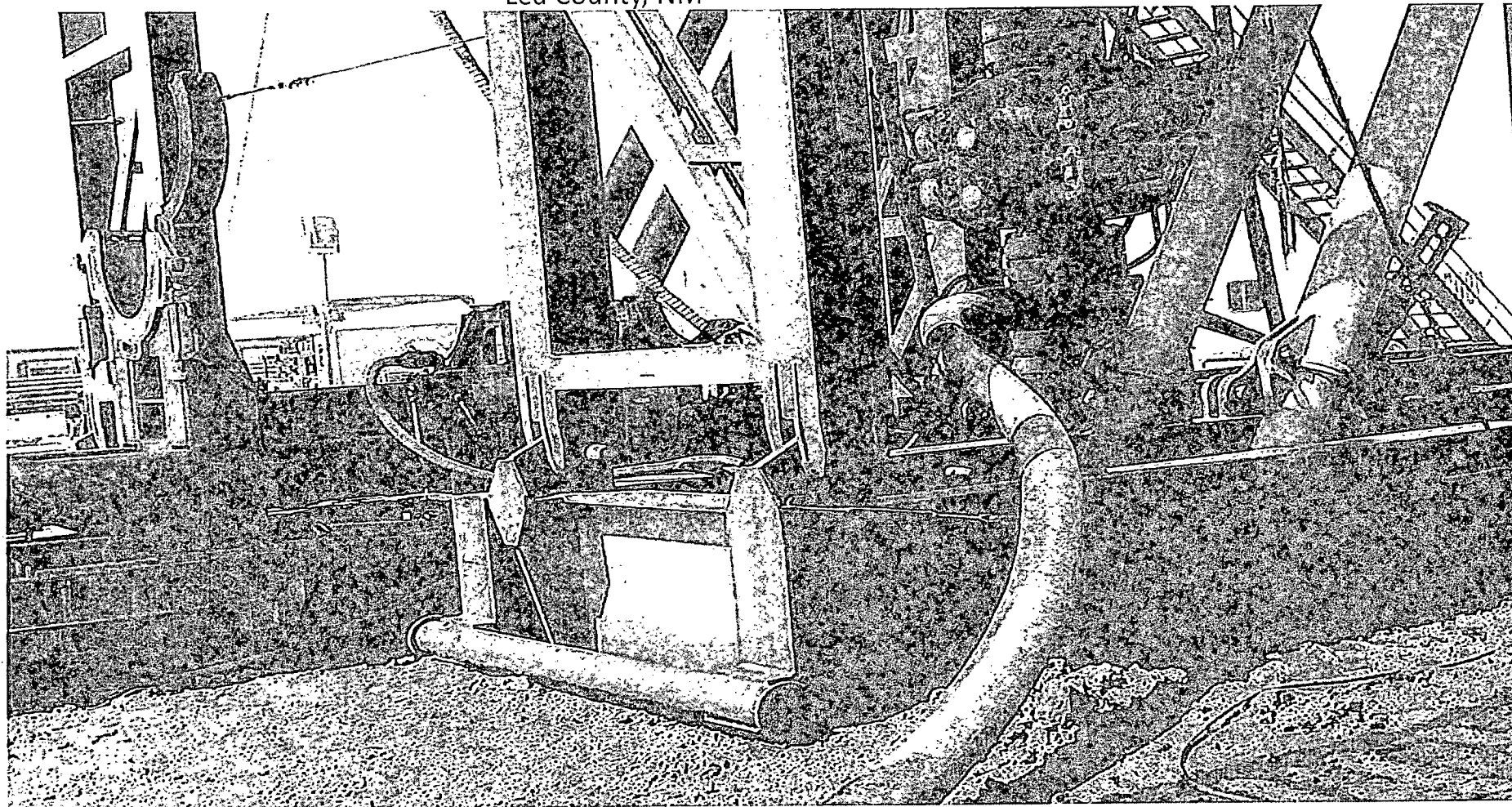


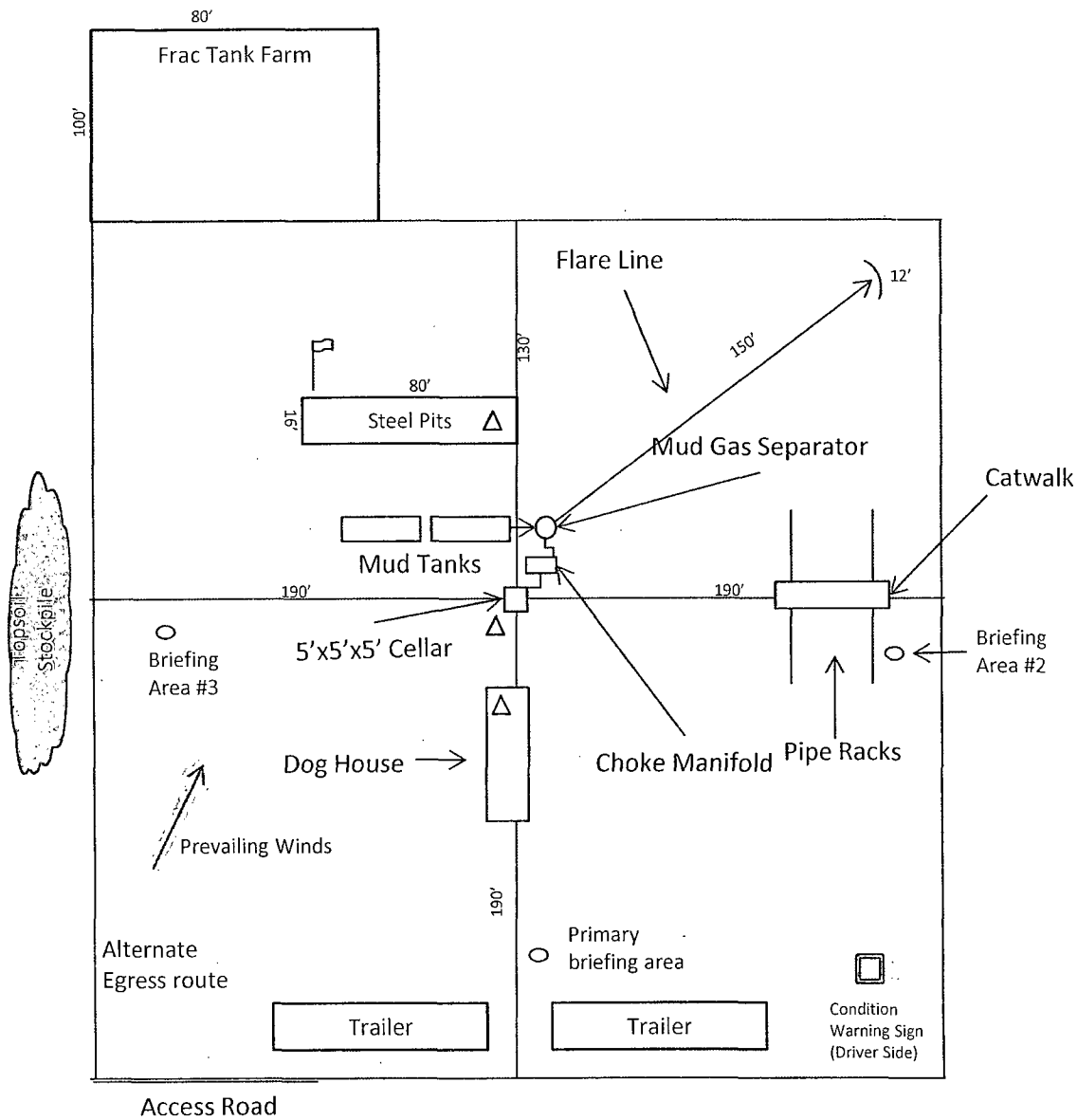
Midwest Hose
& Specialty, Inc.

Certificate of Conformity

Customer:		PO
DEM		ODYD-271
SPECIFICATIONS		
Sales Order	Dated:	
79793	3/8/2011	
We hereby certify that the material supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards Supplier: Midwest Hose & Specialty, Inc. 10640 Tanner Road Houston, Texas 77041		
Comments:		
Approved:		Date:
[Signature]		3/8/2011

Exhibit F – Co-Flex Hose
Dos Equis 13 Federal Com #3H
Cimarex Energy Co.
13-24S-32E
SHL 330 FNL & 1980 FWL
BHL 330 FSL & 1980 FWL
Lea County, NM





-  Wind Direction Indicators
(wind sock or streamers)
-  H2S Monitors
(alarms at bell nipple and shale shaker)
-  Briefing Areas



Exhibit D – Rig Diagram
Dos Equis 13 Federal Com #3H
 Cimarex Energy Co.
 13-245-32E
 SHL 330 FNL & 1980 FWL
 BHL 330 FSL & 1980 FWL
 Lea County, NM