

HOBBS OCD

OCT 23 2013

Form 3160-3
(March 2012)RECEIVED
OCD HobbsFORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014UNITED 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. SHL: NM0002889; BHL: NM0001917	
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.		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. <i>40192</i> Dos Equis 11 Federal Com 1	
3b. Phone No. (include area code) 432-571-7800		9. API Well No. 30-025- <i>41469</i>	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At Surface 330' FNL & 660' FEL At proposed prod. Zone 330' FSL & 660' FWL <i>Horizontal Bone Spring test</i>		10. Field and Pool, or Exploratory <i>Triste Draw</i> Wildcat Bone Spring <i>96603</i>	
11. Sec., T. R. M. or Blk. and Survey or Area 11, 24S, 32E		12. County or Parish Lea	
13. State NM		14. Distance in miles and direction from nearest town or post office* Approximately 30 mile NE of Eunice 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 NM0002889= 680 acres NM0001917=800 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. <i>330'</i> <i>990'</i>	19. Proposed Depth 11,400' Pilot Hole 15,500' MD 11,050' TVD	20. BLM/BIA Bond No. on File NM2575; NMB000835	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3607' GR	22. Approximate date work will start* 08.15.13	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 | 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>Hope Knauks</i>	Name (Printed/Typed) Hope Knauks	Date 04.23.13
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Regulatory Compliance	
Approved By (Signature) <i>/s/ James Stovall</i>	Name (Printed/Typed) CARLSBAD FIELD OFFICE
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.

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.

(Continued on page 2)

APPROVAL FOR TWO YEARS

Carlsbad Controlled Water Basin

Approval Subject to General Requirements
& Special Stipulations AttachedSEE ATTACHED FOR
CONDITIONS OF APPROVAL
OCT 31 2013*KC 10/30/13*

* (Instructions on page 2)

R.M.

Application to Drill
Dos Equis 11 Federal Com 1
 Cimarex Energy Co. of Colorado
 UL: D, Sec. 11, 24S, 32E
 Lea Co., 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 330' FNL & 660' FEL
 BHL 330' FSL & 660' FWL
- 2 Elevation above sea level: 3607' 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: 15,500' MD 11,050' TVD 11,400' Pilot Hole
- 6 Estimated tops of geological markers:

Formation	Est. Top	Bearing
Rustler	1150	NA
Top of Salt	1470	NA
Base last Salt	4650	NA
Delaware Sands	4950	Hydrocarbons
Basal Brushy Canyon	8625	Hydrocarbons
Bone Spring	8850	N/A
Avalon Shale	9300	Hydrocarbons
1st Bone Spring Ss	10050	Hydrocarbons
2nd Bone Spring Ss	10675	Hydrocarbons
3rd Bone Spring Carbonate	11300	N/A

- 7 Possible mineral bearing formation:
 Shown above

7A OSE Ground Water estimated depth: 275'

- 8 Casing Program:

Casing Depth From (ft)	Casing Setting Depth(ft) MD	Casing Setting Depth(ft) TVD	Open Hole Size (inches)	Casing Size (inches)	Casing Weight (lb/ft)	Casing Grade	Thread	Condition	SI Surface Pressure & BHP (psig)	Mud Weight (ppg)	Collapse SF (1.125)	Burst SF (1.125)	Cumulative Air Weight (lbs)	Tension SF (1.6)
<i>See COM 1250</i>														
0'	1175'	1175'	17 1/2	13 3/8	48	H-40	ST&C	New	529	8.4	1.44	3.3	56400	5.7
Intermediate														
0'	4900'	4900'	12 1/4	9 5/8	40	N-80	LT&C	New	2205	10	1.21	2.6	196000	3.8
Production														
0'	10573'	10573'	8 3/4	5 1/2	17	P-110	LT&C	New	2699	8.4	1.62	3.9	187850	2.4
10573'	15500'	11050'	8 3/4	5 1/2	17	P-110	BT&C	New	5130	8.4	1.55	2.1	8109	67.3

Casing Design Criteria and Casing Loading Assumptions:

Surface, Intermediate and Production Casing:

Tension: A 1.6 design factor without effects of buoyancy.

Collapse: A 1.125 design factor with full internal evacuation.

Burst: A 1.125 design with a surface pressure equal to the fracture gradient at setting depth less gas gradient to surface.

Drilling Plan
Dos Equis 11 Federal Com 1
Cimarex Energy Co. of Colorado
UL: D, Sec. 11, 24S, 32E
Lea Co., NM

9 Cementing Program:

Surface	Sacks	Yield (cuft/sx)	Weight (ppg)	Cubic Feet	Cement Blend
Lead	750	1.75	13.5	1306	Class C + Bentonite + Calcium Chloride + LCM
Tail	160	1.34	14.8	204	Class C + LCM

TOC: 0' 85% Excess Centralizers per Onshore Order 2.III.B.1f

Intermediate	Sacks	Yield (cuft/sx)	Weight (ppg)	Cubic Feet	Cement Blend
Lead	1110	1.88	12.9	2075	35:65 (poz/C) + Salt + Bentonite + LCM + retarder
Tail	300	1.34	14.8	392	Class C + retarder + LCM

TOC: 0' 80% Excess

Production	Sacks	Yield (cuft/sx)	Weight (ppg)	Cubic Feet	Cement Blend
Lead	976	2.4	11.9	2343	35:65 (poz/H) + salt + Sodium Metasilicate + Bentonite + Fluid Loss + Dispersant + LCM + Retarder
Tail	1401	1.24	14.5	1737	50:50 (poz/H) + Bentonite + Salt + Fluid Loss + Dispersant + LCM + Retarder

Cement volumes will be adjusted depending on hole size.

TOC: 2000' 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.

10 Pressure Control Equipment:

Exhibit "E-1". A 13 $\frac{3}{8}$ " 5000 PSI working pressure BOP, tested to 3000 psi on the surface casing and 5000 psi on the intermediate, 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 installed 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.

BOPS will be tested by an independent service company to 250 psi low and 3000 psi high on the surface casing and 250 psi low and 5000 psi high on the intermediate. Hydril will be tested to 250 psi low and 2500 psi high on the surface and intermediate casings.

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.

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11 Proposed Mud Circulating System:

Depth			Mud Wt	Visc	Fluid Loss	Type Mud
0'	to	1175'	8.4	28	NC	FW Spud Mud
1175'	to	4900'	10	30-32	NC	Brine water
4900'	to	15500'	8.4	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.

12 Proposed Drilling Plan

Pilot Hole TD: 11,400' KOP: 10,573' EOC: 11322'

Set OH mechanical whipstock w/ 770 ft of 2.875 tubing and pump 30 bbls of Mudpush @ 12 ppg, followed by 370 sks Type H cement, dispersant 0.080 gals/sk, retarder 0.045 gals/sk @ 17.5 ppg, 0.94 cuft/sk, & 0 % excess from pilot hole TD to KOP. KO lateral and drill through the curve to TD. Run production csg to TD & cement.

13 Testing, Logging and Coring Program:

- A. Mud logging program: 2 man unit from 4900 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

14 Potential Hazards:

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 **4973 psi** Estimated BHT **170°**

15 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.

16 Other Facets of Operations:

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

Bone Spring pay will be perforated and stimulated.

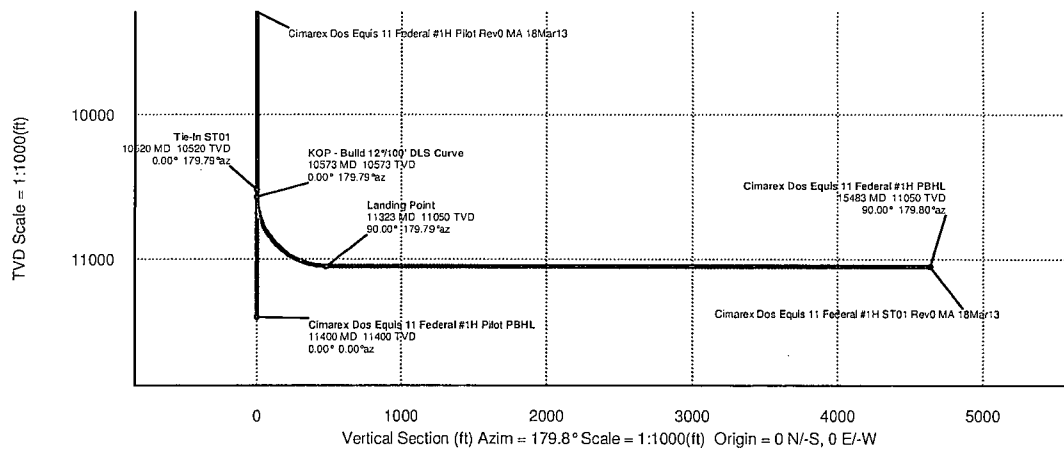
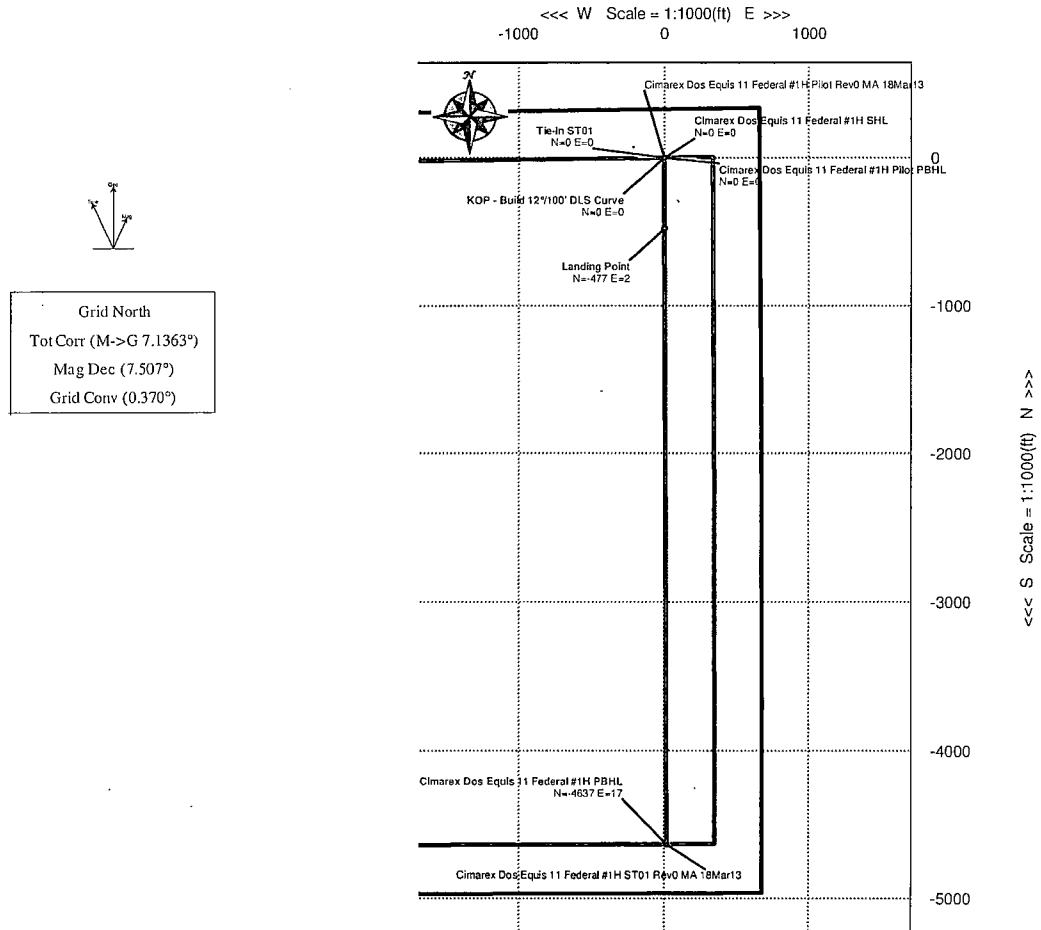
The proposed well will be tested and potential as **Oil**



Cimarex

PATHFINDER
A Schlumberger Company

WELL	FIELD	STRUCTURE
Dos Equis 11 Federal #1H	NM Lea County	Dos Equis 11 Federal #1H
Logistics Parameters		
Model: BGDH 2012	Dip: 63.123° Mag Dec: 7.507°	Date: March 18, 2013 F8: 48418.11T
Surface Location		
24263 New Mexico State Plane, Eastern Zone, LE Feet		
Lat: N 32 14 18.828	Longitude: 45 21 5 50 HUG	Grid Conv: 0.370°
Long: W 102 38 20 141	Easting: 755927.90 HUG	Scale Factor: 0.99996188
Miscellaneous		
Sheet: Dos Equis 11 Federal #1H	TVD Ref: Ground Level (35671 above 165.1)	Plan: ST01 Rev0 MA 18Mar13
Plan: ST01 Rev0 MA 18Mar13	Survey Date: March 18, 2013	



Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
Tie-In ST01	10520.00	0.00	179.80	10520.00	0.00	0.00	0.00	
KOP - Build 12°/100' DLS Curve	10572.50	0.00	179.80	10572.50	0.00	0.00	0.00	0.00
Landing Point	11322.56	90.00	179.80	11050.00	477.50	-477.50	1.71	12.00
Cimarex Dos Equis 11 Federal #1H PBHL	15482.57	90.00	179.80	11050.00	4637.52	-4637.49	16.50	0.00



Cimarex Dos Equis 11 Federal #1H ST01 Rev0 MA 18Mar13 Proposal Report



(Non-Def Plan)

Report Date:	March 19, 2013 - 09:54 AM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Cimarex	Vertical Section Azimuth:	179.796 ° (Grid North)
Field:	NM Lea County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Dos Equis 11 Federal #1H / Cimarex Dos Equis 11 Federal #1H	TVD Reference Datum:	Ground Level
Well:	Cimarex Dos Equis 11 Federal #1H	TVD Reference Elevation:	3607.000 ft above MSL
Borehole:	ST01 Borehole	Seabed / Ground Elevation:	3607.000 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	7.507 °
Survey Name:	Cimarex Dos Equis 11 Federal #1H ST01 Rev0 MA 18Mar13	Total Gravity Field Strength:	998.4690mgn (9.80665 Based)
Survey Date:	March 18, 2013	Total Magnetic Field Strength:	48418.145 nT
Tort / AHD / DDI / ERD Ratio:	90.003 ° / 4637.515 ft / 5.767 / 0.420	Magnetic Dip Angle:	60.103 °
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Declination Date:	March 18, 2013
Location Lat / Long:	N 32° 14' 18.82751", W 103° 38' 20.14119"	Magnetic Declination Model:	BGGM 2012
Location Grid N/E Y/X:	N 451216.900 ftUS, E 756037.900 ftUS	North Reference:	Grid North
CRS Grid Convergence Angle:	0.3704 °	Grid Convergence Used:	0.3704 °
Grid Scale Factor:	0.99996188	Total Corr Mag North->Grid North:	7.1363 °
		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)
Cimarex Dos Equis 11 Federal #1H SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	N/A
	100.00	0.00	179.80	100.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	200.00	0.00	179.80	200.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	300.00	0.00	179.80	300.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	400.00	0.00	179.80	400.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	500.00	0.00	179.80	500.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	600.00	0.00	179.80	600.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	700.00	0.00	179.80	700.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	800.00	0.00	179.80	800.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	900.00	0.00	179.80	900.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	1000.00	0.00	179.80	1000.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	1100.00	0.00	179.80	1100.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	1200.00	0.00	179.80	1200.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	1300.00	0.00	179.80	1300.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	1400.00	0.00	179.80	1400.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	1500.00	0.00	179.80	1500.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	1600.00	0.00	179.80	1600.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	1700.00	0.00	179.80	1700.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	1800.00	0.00	179.80	1800.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	1900.00	0.00	179.80	1900.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	2000.00	0.00	179.80	2000.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	2100.00	0.00	179.80	2100.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	2200.00	0.00	179.80	2200.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	2300.00	0.00	179.80	2300.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	2400.00	0.00	179.80	2400.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	2500.00	0.00	179.80	2500.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	2600.00	0.00	179.80	2600.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	2700.00	0.00	179.80	2700.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	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)
	8300.00	0.00	179.80	8300.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	8400.00	0.00	179.80	8400.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	8500.00	0.00	179.80	8500.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	8600.00	0.00	179.80	8600.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	8700.00	0.00	179.80	8700.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	8800.00	0.00	179.80	8800.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	8900.00	0.00	179.80	8900.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	9000.00	0.00	179.80	9000.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	9100.00	0.00	179.80	9100.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	9200.00	0.00	179.80	9200.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	9300.00	0.00	179.80	9300.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	9400.00	0.00	179.80	9400.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	9500.00	0.00	179.80	9500.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	9600.00	0.00	179.80	9600.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	9700.00	0.00	179.80	9700.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	9800.00	0.00	179.80	9800.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	9900.00	0.00	179.80	9900.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	10000.00	0.00	179.80	10000.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	10100.00	0.00	179.80	10100.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	10200.00	0.00	179.80	10200.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	10300.00	0.00	179.80	10300.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	10400.00	0.00	179.80	10400.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
Tie-In ST01 KOP - Build 12"/100' DLS Curve	10500.00	0.00	179.80	10500.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	10520.00	0.00	179.80	10520.00	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	10572.50	0.00	179.80	10572.50	0.00	0.00	0.00	451216.90	756037.90	N 32 14 18.83	W 103 38 20.14	0.00	0.00	0.00
	10600.00	3.30	179.80	10599.98	0.79	-0.79	0.00	451216.11	756037.90	N 32 14 18.82	W 103 38 20.14	0.79	179.80	12.00
	10700.00	15.30	179.80	10698.49	16.92	-16.92	0.06	451199.98	756037.96	N 32 14 18.66	W 103 38 20.14	16.92	179.80	12.00
	10800.00	27.30	179.80	10791.49	53.18	-53.18	0.19	451163.72	756038.09	N 32 14 18.30	W 103 38 20.14	53.18	179.80	12.00
	10900.00	39.30	179.80	10874.92	107.98	-107.98	0.39	451108.93	756038.29	N 32 14 17.76	W 103 38 20.14	107.98	179.80	12.00
	11000.00	51.30	179.80	10945.14	178.92	-178.92	0.64	451037.99	756038.54	N 32 14 17.06	W 103 38 20.15	178.92	179.80	12.00
	11100.00	63.30	179.80	10999.07	262.92	-262.91	0.94	450954.00	756038.84	N 32 14 16.23	W 103 38 20.15	262.92	179.80	12.00
	11200.00	75.29	179.80	11034.36	356.29	-356.28	1.27	450806.63	756039.17	N 32 14 15.30	W 103 38 20.15	356.29	179.80	12.00
Landing Point	11300.00	87.29	179.80	11049.47	454.95	-454.95	1.63	450761.97	756039.53	N 32 14 14.33	W 103 38 20.16	454.95	179.80	12.00
	11322.56	90.00	179.80	11050.00	477.50	-477.50	1.71	450739.42	756039.61	N 32 14 14.10	W 103 38 20.16	477.50	179.80	12.00
	11400.00	90.00	179.80	11050.00	554.94	-554.94	1.99	450661.98	756039.89	N 32 14 13.34	W 103 38 20.16	554.94	179.80	0.00
	11500.00	90.00	179.80	11050.00	654.94	-654.94	2.34	450561.99	756040.24	N 32 14 12.35	W 103 38 20.16	654.94	179.80	0.00
	11600.00	90.00	179.80	11050.00	754.94	-754.94	2.70	450461.99	756040.60	N 32 14 11.36	W 103 38 20.17	754.94	179.80	0.00
	11700.00	90.00	179.80	11050.00	854.94	-854.94	3.06	450362.00	756040.96	N 32 14 10.37	W 103 38 20.17	854.94	179.80	0.00
	11800.00	90.00	179.80	11050.00	954.94	-954.94	3.42	450262.00	756041.32	N 32 14 9.38	W 103 38 20.17	954.94	179.80	0.00
	11900.00	90.00	179.80	11050.00	1054.94	-1054.94	3.77	450162.00	756041.67	N 32 14 8.39	W 103 38 20.18	1054.94	179.80	0.00
	12000.00	90.00	179.80	11050.00	1154.94	-1154.94	4.13	450062.01	756042.03	N 32 14 7.40	W 103 38 20.18	1154.94	179.80	0.00
	12100.00	90.00	179.80	11050.00	1254.94	-1254.94	4.49	449962.01	756042.39	N 32 14 6.41	W 103 38 20.18	1254.94	179.80	0.00
	12200.00	90.00	179.80	11050.00	1354.94	-1354.94	4.84	449862.02	756042.74	N 32 14 5.42	W 103 38 20.19	1354.94	179.80	0.00
	12300.00	90.00	179.80	11050.00	1454.94	-1454.94	5.20	449762.02	756043.10	N 32 14 4.43	W 103 38 20.19	1454.94	179.80	0.00
	12400.00	90.00	179.80	11050.00	1554.94	-1554.93	5.56	449662.03	756043.46	N 32 14 3.44	W 103 38 20.19	1554.94	179.80	0.00
	12500.00	90.00	179.80	11050.00	1654.94	-1654.93	5.91	449562.03	756043.81	N 32 14 2.45	W 103 38 20.20	1654.94	179.80	0.00
	12600.00	90.00	179.80	11050.00	1754.94	-1754.93	6.27	449462.04	756044.17	N 32 14 1.46	W 103 38 20.20	1754.94	179.80	0.00
	12700.00	90.00	179.80	11050.00	1854.94	-1854.93	6.63	449362.04	756044.53	N 32 14 0.47	W 103 38 20.20	1854.94	179.80	0.00
	12800.00	90.00	179.80	11050.00	1954.94	-1954.93	6.98	449262.05	756044.88	N 32 13 59.48	W 103 38 20.21	1954.94	179.80	0.00
	12900.00	90.00	179.80	11050.00	2054.94	-2054.93	7.34	449162.05	756045.24	N 32 13 58.49	W 103 38 20.21	2054.94	179.80	0.00
	13000.00	90.00	179.80	11050.00	2154.94	-2154.93	7.70	449062.06	756045.59	N 32 13 57.50	W 103 38 20.21	2154.94	179.80	0.00
	13100.00	90.00	179.80	11050.00	2254.94	-2254.93	8.05	448962.06	756045.95	N 32 13 56.51	W 103 38 20.22	2254.94	179.80	0.00
	13200.00	90.00	179.80	11050.00	2354.94	-2354.93	8.41	448862.06	756046.31	N 32 13 55.53	W 103 38 20.22	2354.94	179.80	0.00
	13300.00	90.00	179.80	11050.00	2454.94	-2454.93	8.76	448762.07	756046.66	N 32 13 54.54	W 103 38 20.22	2454.94	179.80	0.00

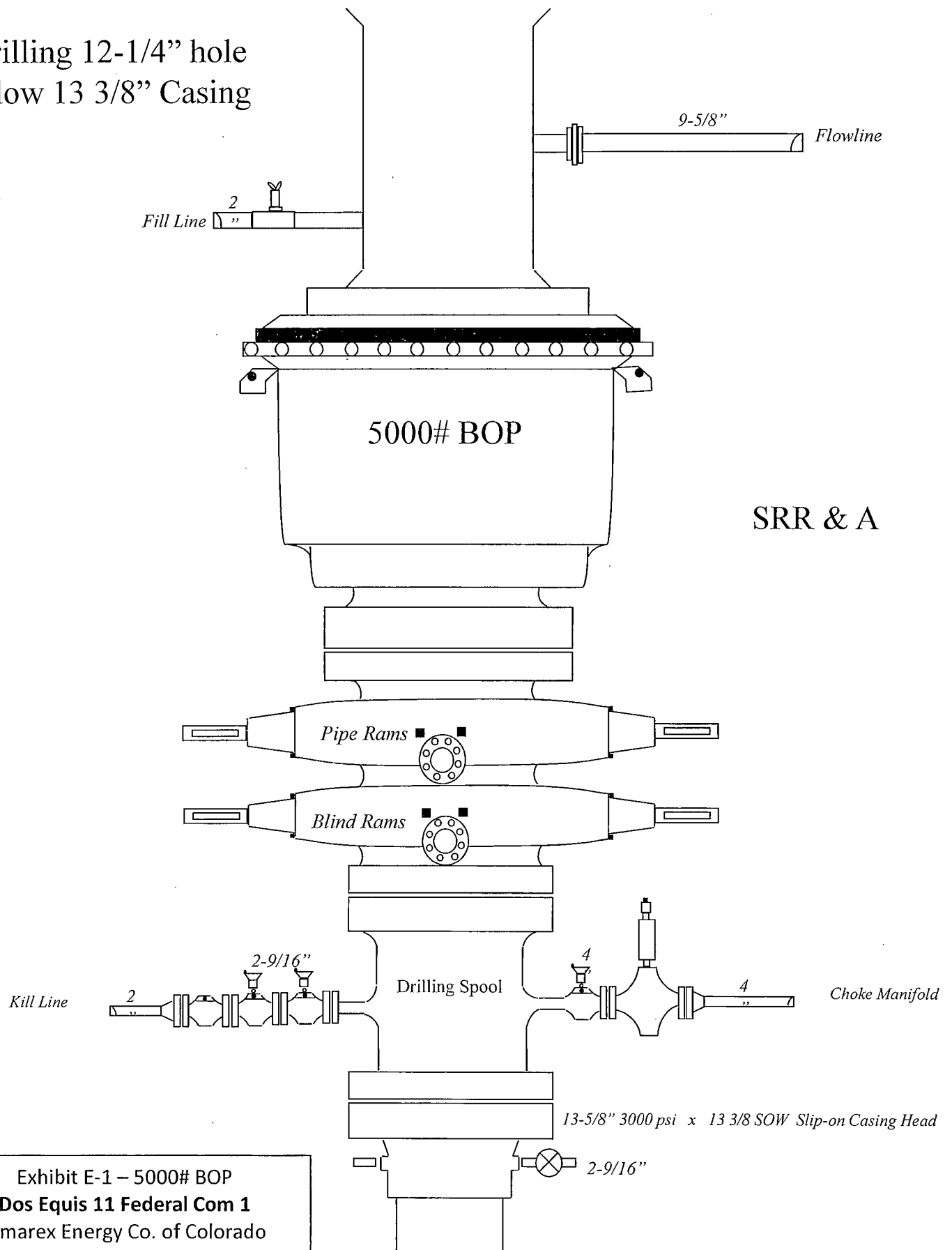
Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	Closure (ft)	Closure Azimuth (°)	DLS ("/100ft)
	13400.00	90.00	179.80	11050.00	2554.94	-2554.93	9.12	448662.07	756047.02	N 32 13 53.55	W 103 38 20.23	2554.94	179.80	0.00
	13500.00	90.00	179.80	11050.00	2654.94	-2654.93	9.47	448562.08	756047.37	N 32 13 52.56	W 103 38 20.23	2654.94	179.80	0.00
	13600.00	90.00	179.80	11050.00	2754.94	-2754.93	9.83	448462.08	756047.73	N 32 13 51.57	W 103 38 20.23	2754.94	179.80	0.00
	13700.00	90.00	179.80	11050.00	2854.94	-2854.93	10.18	448362.09	756048.08	N 32 13 50.58	W 103 38 20.24	2854.94	179.80	0.00
	13800.00	90.00	179.80	11050.00	2954.94	-2954.93	10.54	448262.09	756048.44	N 32 13 49.59	W 103 38 20.24	2954.94	179.80	0.00
	13900.00	90.00	179.80	11050.00	3054.94	-3054.93	10.90	448162.10	756048.79	N 32 13 48.60	W 103 38 20.24	3054.94	179.80	0.00
	14000.00	90.00	179.80	11050.00	3154.94	-3154.92	11.25	448062.10	756049.15	N 32 13 47.61	W 103 38 20.25	3154.94	179.80	0.00
	14100.00	90.00	179.80	11050.00	3254.94	-3254.92	11.60	447962.11	756049.50	N 32 13 46.62	W 103 38 20.25	3254.94	179.80	0.00
	14200.00	90.00	179.80	11050.00	3354.94	-3354.92	11.96	447862.11	756049.86	N 32 13 45.63	W 103 38 20.25	3354.94	179.80	0.00
	14300.00	90.00	179.80	11050.00	3454.94	-3454.92	12.31	447762.12	756050.21	N 32 13 44.64	W 103 38 20.26	3454.94	179.80	0.00
	14400.00	90.00	179.80	11050.00	3554.94	-3554.92	12.67	447662.12	756050.57	N 32 13 43.65	W 103 38 20.26	3554.94	179.80	0.00
	14500.00	90.00	179.80	11050.00	3654.94	-3654.92	13.02	447562.13	756050.92	N 32 13 42.66	W 103 38 20.26	3654.94	179.80	0.00
	14600.00	90.00	179.80	11050.00	3754.94	-3754.92	13.38	447462.13	756051.28	N 32 13 41.67	W 103 38 20.27	3754.94	179.80	0.00
	14700.00	90.00	179.80	11050.00	3854.94	-3854.92	13.73	447362.13	756051.63	N 32 13 40.68	W 103 38 20.27	3854.94	179.80	0.00
	14800.00	90.00	179.80	11050.00	3954.94	-3954.92	14.09	447262.14	756051.99	N 32 13 39.69	W 103 38 20.27	3954.94	179.80	0.00
	14900.00	90.00	179.80	11050.00	4054.94	-4054.92	14.44	447162.14	756052.34	N 32 13 38.70	W 103 38 20.28	4054.94	179.80	0.00
	15000.00	90.00	179.80	11050.00	4154.94	-4154.92	14.79	447062.15	756052.69	N 32 13 37.71	W 103 38 20.28	4154.94	179.80	0.00
	15100.00	90.00	179.80	11050.00	4254.94	-4254.92	15.15	446962.15	756053.05	N 32 13 36.72	W 103 38 20.29	4254.94	179.80	0.00
	15200.00	90.00	179.80	11050.00	4354.94	-4354.92	15.50	446862.16	756053.40	N 32 13 35.73	W 103 38 20.29	4354.94	179.80	0.00
	15300.00	90.00	179.80	11050.00	4454.94	-4454.92	15.86	446762.16	756053.75	N 32 13 34.75	W 103 38 20.29	4454.94	179.80	0.00
	15400.00	90.00	179.80	11050.00	4554.94	-4554.92	16.21	446662.17	756054.11	N 32 13 33.76	W 103 38 20.30	4554.94	179.80	0.00
Cimarex Dos Equis 11 Federal #1H PBHL	15482.57	90.00	179.80	11050.00	4637.52	-4637.49	16.50	446579.60	756054.40	N 32 13 32.94	W 103 38 20.30	4637.52	179.80	0.00

Survey Type: Non-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	10520.000	1/100.000	30.000	30.000	SLB_MWD-STD	Pilot Borehole / Cimarex Dos Equis 11 Federal #1H Pilot Rev0
	10520.000	15482.571	1/100.000	30.000	30.000	SLB_MWD-STD	ST01 Borehole / Cimarex Dos Equis 11 Federal #1H ST01 Rev0

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



SRR & A

Exhibit E-1 – 5000# BOP
Dos Equis 11 Federal Com 1
Cimarex Energy Co. of Colorado
11-24S-32E
SHL 330 FNL & 660 FEL
BHL 330 FSL & 660 FEL
Lea County, NM

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

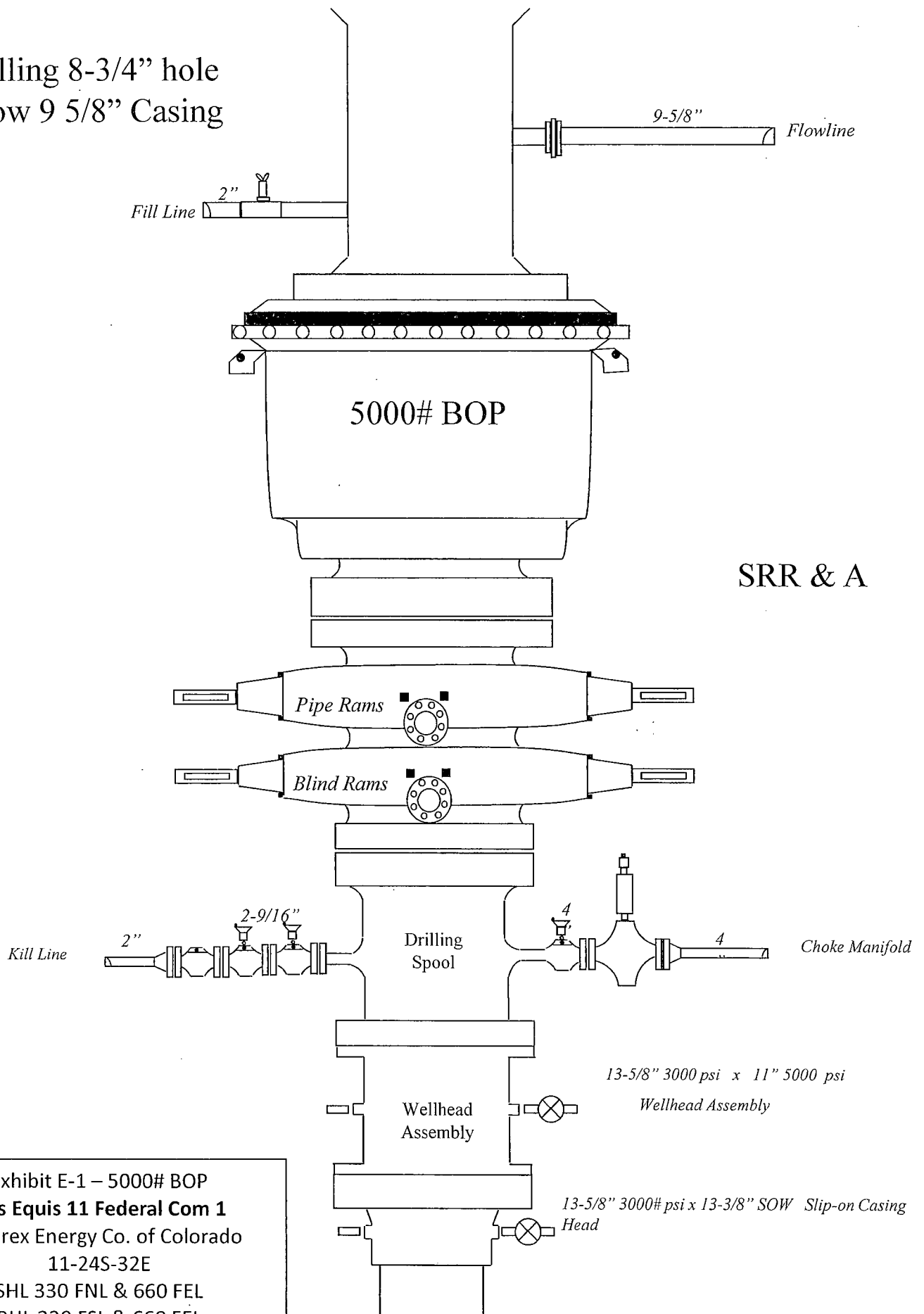


Exhibit E-1 – 5000# BOP
Dos Equis 11 Federal Com 1
Cimarex Energy Co. of Colorado
11-24S-32E
SHL 330 FNL & 660 FEL
BHL 330 FSL & 660 FEL
Lea County, NM

Drilling Operations

Choke Manifold

5M Service

Exhibit E-1 – Choke Manifold Diagram

Dos Equis 11 Federal Com 1

Cimarex Energy Co. of Colorado

11-24S-32E

SHL 330 FNL & 660 FEL

BHL 330 FSL & 660 FEL

Lea County, NM

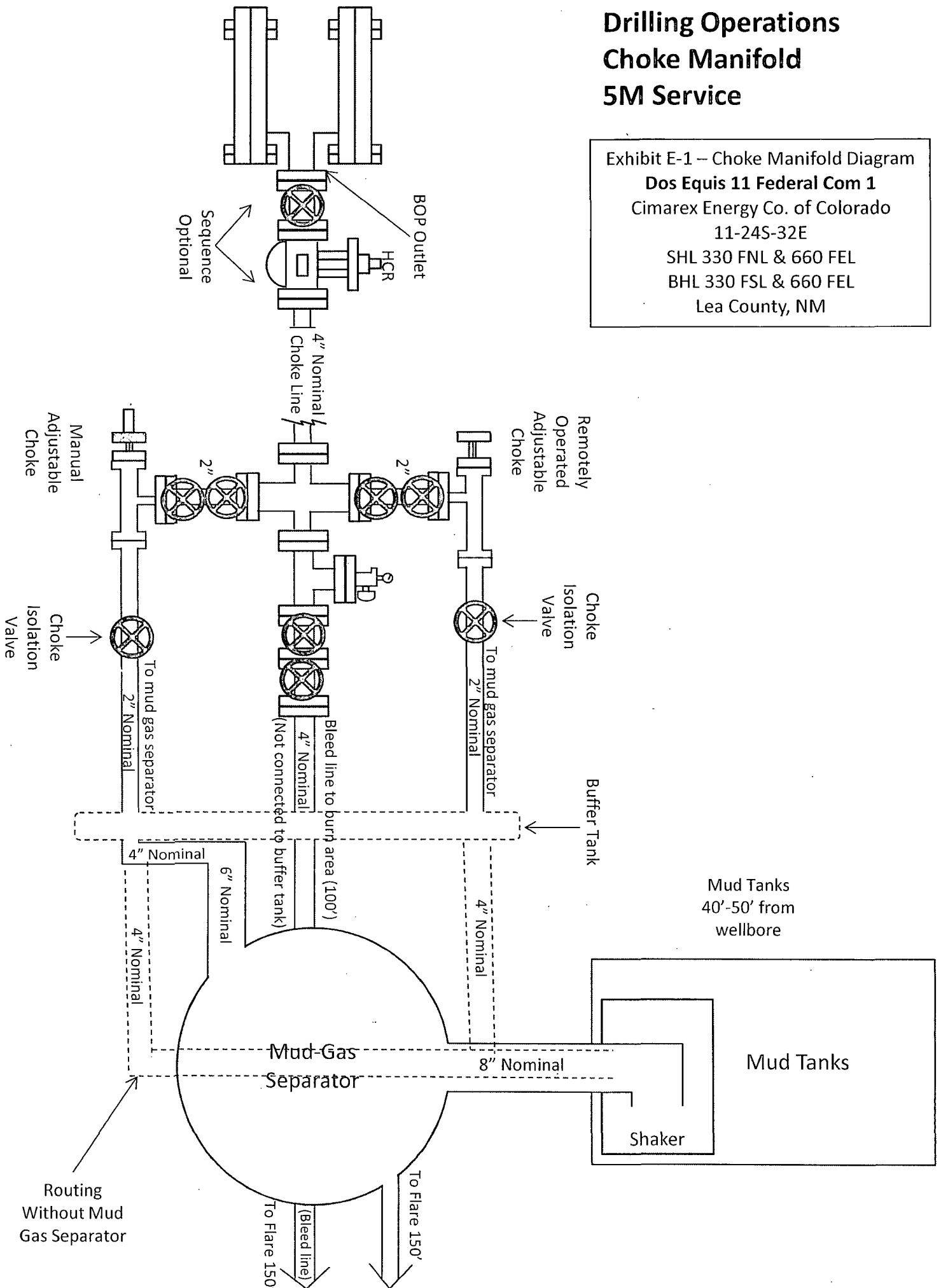


Exhibit F – Co-Flex Hose
Dos Equis 11 Federal Com 1
Cimarex Energy Co. of Colorado
11-24S-32E
SHL 330 FNL & 660 FEL
BHL 330 FSL & 660 FEL
Lea County, NM

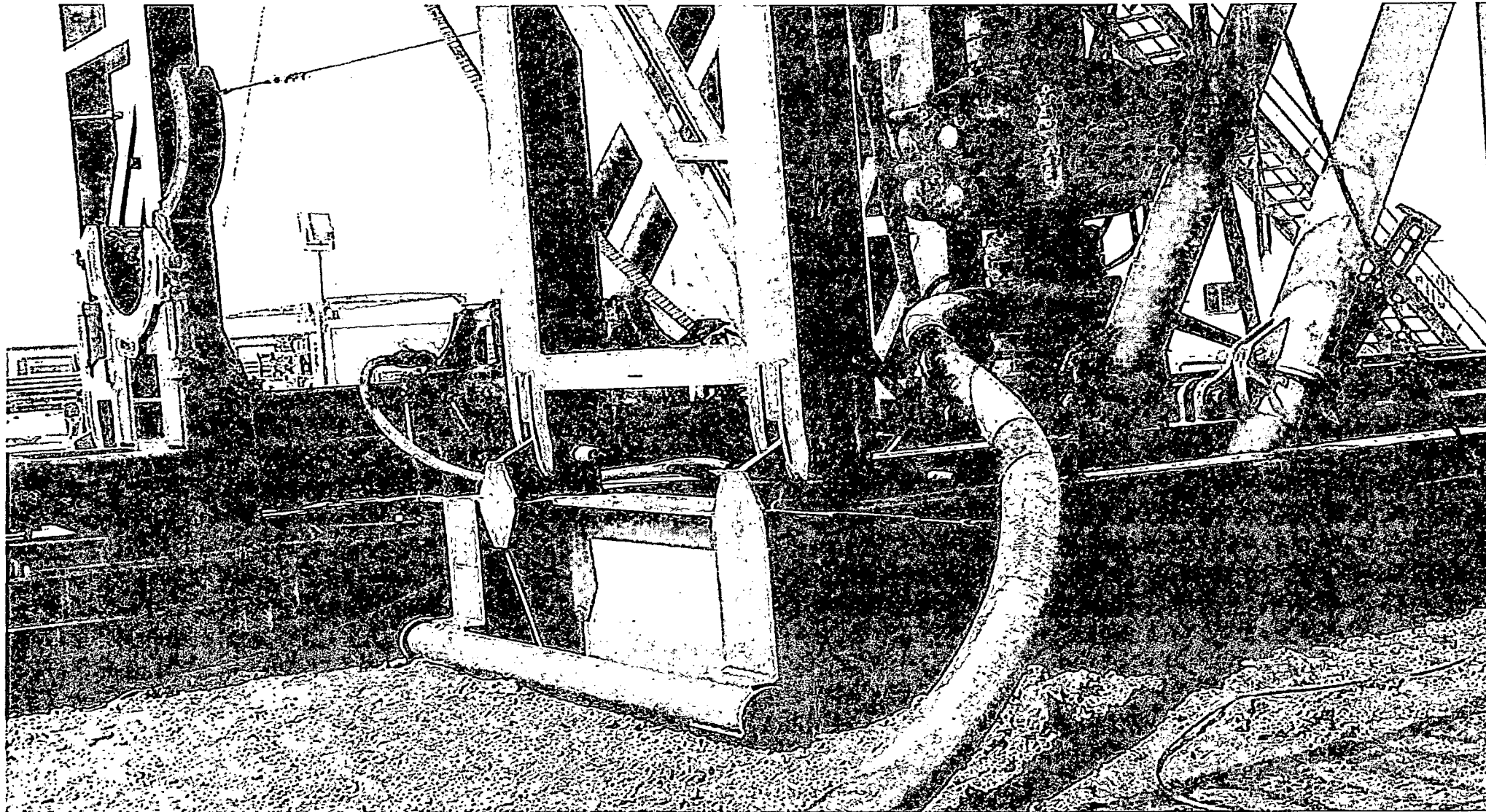


Exhibit F-1 – Co-Flex Hose Hydrostatic Test

Dos Equis 11 Federal Com 1
Cimarex Energy Co. of Colorado
11-24S-32E

SHL 330 FNL & 660 FEL
BHL 330 FSL & 660 FEL
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 10,000 PSI	TEST PRESSURE 15,000 PSI	BURST PRESSURE 0 PSI	
COUPLINGS			
Stem Part No. OKC OKC		Ferrule No. OKC OKC	
Type of Coupling: Swage-It			
PROCEDURE			
<i>Hose assembly pressure tested with water at ambient temperature.</i>			
TIME HELD AT TEST PRESSURE 15 MIN.		ACTUAL BURST PRESSURE: 0 PSI	
Hose Assembly Serial Number: 79793		Hose Serial Number: OKC	
Comments:			
Date: 3/8/2011	Tested: <i>A. James Smith</i>	Approved: <i>Kevin Hef</i>	

Exhibit F-1 – Co-Flex Hose Hydrostatic Test

Dos Equis 11 Federal Com 1

Cimarex Energy Co. of Colorado

11-24S-32E

SHL 330 FNL & 660 FEL

BHL 330 FSL & 660 FEL

Lea County, NM



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

March 3, 2011

Customer: Houston

Pick Ticket #: 94260

Hose Specifications

Hose Type

C&K

LD

4"

Length

45'

O.D.

6.09"

Verification

Time of Fitting

4/16/10K

Die Size

6.38"

Coupling Method

Swage

Final O.D.

6.23"

Working Pressure

10000 PSI

Burst Pressure

Standard Safety Multiplier Applies

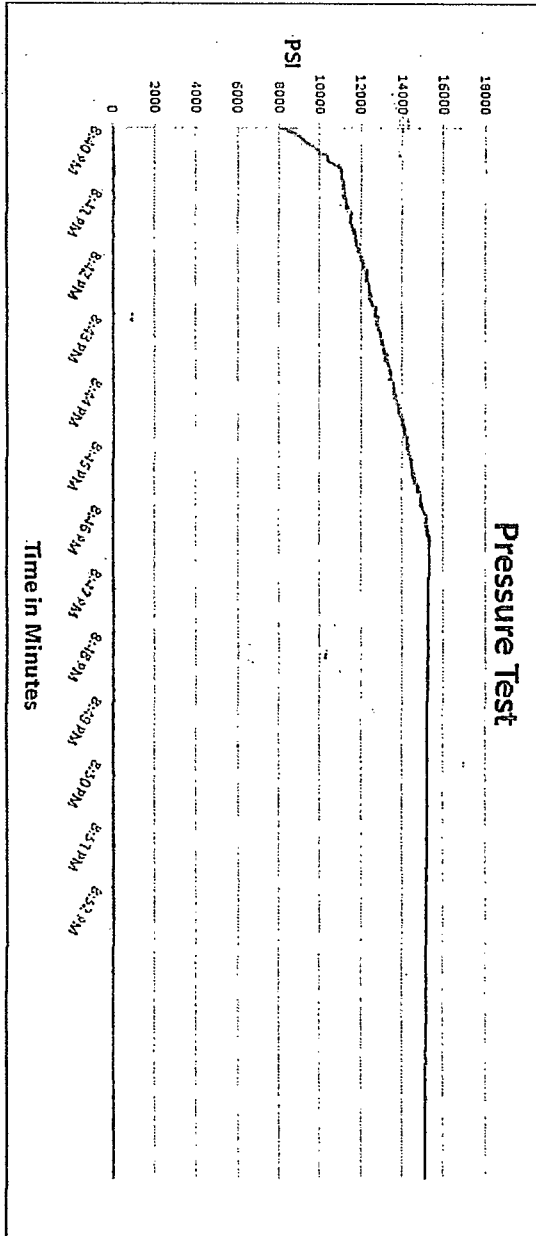
Hose Serial #

5544

Hose Assembly Serial #

79793

Pressure Test



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

Tested By: Zec McConnell

Approved By: Kim Thomas

[Signature]

[Signature]

Exhibit F-2 – Co-Flex Hose
Dos Equis 11 Federal Com 1
Cimarex Energy Co. of Colorado
11-24S-32E
SHL 330 FNL & 660 FEL
BHL 330 FSL & 660 FEL
Lea County, NM



Midwest Hose & Specialty, Inc.

Certificate of Conformity

Customer:

DEM

PO

ODYD-271

SPECIFICATIONS

Sales Order

79793

Dated:

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:

David Garcia

Date:

3/8/2011



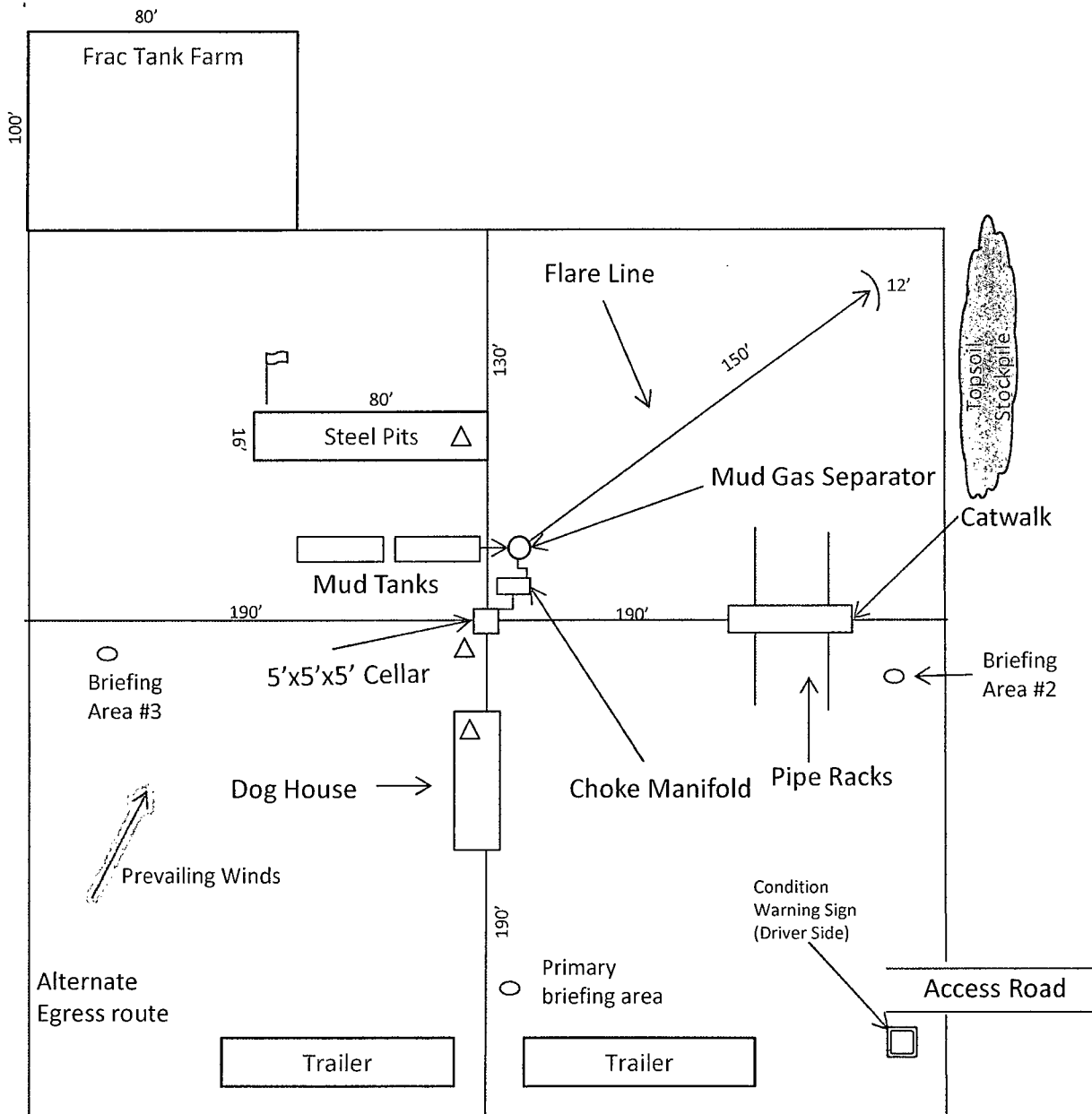
Midwest Hose
& Specialty, Inc.

Exhibit F -3- Co-Flex Hose
Dos Equis 11 Federal Com 1
Cimarex Energy Co. of Colorado
11-24S-32E
SHL 330 FNL & 660 FEL
BHL 330 FSL & 660 FEL
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)



Wind Direction Indicators
(wind sock or streamers)



• H2S Monitors
(alarms at bell nipple and shale shaker)



Briefing Areas

N



Exhibit D – Rig Diagram
Dos Equis 11 Federal Com 1
Cimarex Energy Co. of Colorado
11-24S-32E
SHL 330 FNL & 660 FEL
BHL 330 FSL & 660 FEL
Lea County, NM