

HOBBS OCD
SEP 19 2013

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 20145. Lease Serial No.
NMNM127895

6. If Indian, Allottee or Tribe Name

1a. Type of work: ☒ DRILL ☐ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator Cimarex Energy Co.

3a. Address 600 N. Marienfeld St Ste 600; Midland, Tx
797013b. Phone No. (include area code)
432571-7800

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

At surface 430' FNL & 1990' FEL

At proposed prod. zone 330' FSL & 1980' FEL

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

8. Lease Name and Well No.
Double X 25 Federal #11H

9. API Well No.

30025-

10. Field and Pool, or Exploratory
Triple X, Bone Sping, West11. Sec., T. R. M. or Blk. and Survey or Area
25-24S-32E14. Distance in miles and direction from nearest town or post office*
29 miles West of Jal NM12. County or Parish
Lea13. State
NM15. 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

640 acres

17. Spacing Unit dedicated to this well

160 acres

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

75'

19. Proposed Depth
MD: 14144; TVD: 9725'20. BLM/BIA Bond No. on file
NM2575; NMB00083521. Elevations (Show whether DF, KDB, RT, GL, etc.)
GR 3573'22. Approximate date work will start*
04/01/201323. Estimated duration
25-30 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must 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 must 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 BLM.

25. Signature

Name (Printed/Typed)
Terri StathemDate
11/12/2012

Title

Coordinator Regulatory Compliance

Approved by (Signature)

Name (Printed/Typed)

Date

Title

FIELD MANAGER

Office

CARLSBAD FIELD OFFICE

SEP 16 2013

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.C. 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)

Carlsbad Controlled Water Basin

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

SEP 23 2013

Drilling Plan
Double X 25 Federal No. 11H
 Cimarex Energy Co.
 Unit B, Section 25
 T24S-R32E, Lea 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 430 FNL & 1990 FEL
 BHL 330 FSL & 1980 FEL
- 2 **Elevation above sea level:** 3565' 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:** MD 14044' TVD 9725'
- 6 **Estimated tops of geological markers:**

Groud water per OSE	100'	Avalon	9275'	Hydrocarbons
Rustler	1080'			
Top of Salt	1400'			
Castile	3400'			
Base of Salt	4680'			
Bell Canyon	4990'	Hydrocarbons		
Cherry Canyon	7480'			
Brushy Canyon	8660'			
Basal Brushy Canyon	8660'	Hydrocarbons		
Bone Spring	8900'			
- 7 **Possible mineral bearing formations:**
 See above

8 **Proposed Mud Circulating System:**

Depth			Mud Wt	Visc	Fluid Loss	Type Mud
0'	to	1195'	8.4 - 8.6	28	NC	FW
1195'	to	4900'	10.0	30-32	NC	Brine
4900'	to	14044'	8.4-9.0	30-32	NC	FW and brine, 2% KCL in the lateral

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.

Proposed drilling Plan

Set surface and intermediate string. Drill 7 7/8" or 8 3/4" hole to KOP @ 9248' and log. Continue drilling lateral through the curve to TD @ 14044' MD, 9725' TVD. Run 5 1/2" casing and cement per program.

Drilling Plan
Double X 25 Federal No. 11H
Cimarex Energy Co.
Unit B, Section 25
T24S-R32E, Lea County, NM

9 Casing & Cementing Program:

String	Hole Size	Depth	Casing OD	Weight	Collar	Grade
Surface 1	17 1/2"	0' to 1195'	New 13 3/8"	48#	STC	H-40
Intermediate	12 1/4"	0' to 3400'	New 9 5/8"	36#	LTC	J-55
Intermediate	12 1/4"	3400' to 4900'	New 9 5/8"	40#	LTC	J-55
Production	7 7/8" or 8 3/4"	0' to 9248'	New 5 1/2"	17#	LTC	P-110
Production	7 7/8" or 8 3/4"	9248' to 14044'	New 5 1/2"	17#	BTC	P-110

10 Cementing:

Surface Lead: 702 C + Bentonite + Calcium Chloride + LCM – mw 13.5 ppg yield 1.75
Tail: 143 sx Class C + LCM – mw 14.8 ppg yield 1.34
85% Excess TOC Surf Centralizers per Onshorder 2.III.B.1.f

Intermediate Lead: 1122 sx 35:65 (poz/C) + Salt + Bentonite + LCM + retarder – mw 12.9 ppg yield 1.88
Tail: 286 sx + retarder + LCM – mw 14.8 ppg yield 1.32
81% Excess TOC Surface

Production Lead: 383 sx 35:65 (poz/H) + salt + Sodium Metasilicate + Bentonite + Fluid Loss + Dispersant + LCM + Retarder - MW 11.9 ppg yield 2.4
Tail: 945 sx 50:50 (poz/H) + Bentonite + Salt + Fluid Loss + Dispersant + LCM + Retarder – MW 14.5 ppg yield 1.24
Cement volumes will be adjusted according to hole size.
25% Excess TOC 4400' Centralizers every 3rd joint through the curve or legal location hardline to provide adequate cement coverage every 100' unless hole conditions require greater spacing between centralizers.

Collapse Factor Burst Factor Tension Factor
1.125 1.125 1.6

11 Pressure control Equipment:

Exhibit "E". A 13 3/8" 5000 PSI working pressure B.O.P. consisting of one set of 10K blind rams and two sets of 10K pipe rams and a 5000# annular type preventer. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. Rotating head below 4900.' 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 separator will be available if drilling in H2S areas.

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.

Before drilling out of the surface casing BOPs will be tested to 250 psi low and 3000 psi high by an independent service company. Hydril will be tested to 250 psi low and 1500 psi high. Before drilling out of the intermediate casing BOPs will be tested to 250 psi low and 5000 psi high. Hydril will be tested to 250 psi low and 2500 high.

Cimarex Energy Co. of Colorado requests a variance to use a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. 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.

Drilling Plan
Double X 25 Federal No. 11H
Cimarex Energy Co.
Unit B, Section 25
T24S-R32E, Lea County, NM

12 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 / CAL / GR Surface to TD
- C. No DSTs or cores are planned at this time.

13 Potential Hazards:

COX
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 4376 Estimated BHT 130°

- 14 Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved.
Drilling expected to take 30-35 days
If production casing is run an additional 30 days will be required to complete and construct surface facilities.

15 Other Facets of Operations:

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 Double X 25 Federal #11H Rev0 RJS 19-Sep-12 Proposal Report



(Non-Def Plan)

Report Date:	September 20, 2012 - 10:29 AM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Cimarex	Vertical Section Azimuth:	179.544 ° (Grid North)
Field:	NM Lea County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	TBD / Cimarex Double X 25 Federal #11H	TVD Reference Datum:	Ground Level
Well:	Cimarex Double X 25 Federal #11H	TVD Reference Elevation:	3565.000 ft above MSL
Borehole:	Original Borehole	Seabed / Ground Elevation:	3565.000 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	7.554 °
Survey Name:	Cimarex Double X 25 Federal #11H Rev0 RJS 19-Sep-12	Total Gravity Field Strength:	999.1469 mgn (9.8 based)
Survey Date:	September 19, 2012	Total Magnetic Field Strength:	48455.698 nT
Tort / AHD / DDI / ERD Ratio:	90.000 ° / 4523.616 ft / 5.769 / 0.465	Magnetic Dip Angle:	60.080 °
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Declination Date:	September 19, 2012
Location Lat / Long:	N 32° 11' 41.10808", W 103° 37' 34.45747"	Magnetic Declination Model:	BGGM 2012
Location Grid N/E Y/X:	N 435304.400 ftUS, E 760066.400 ftUS	North Reference:	Grid North
CRS Grid Convergence Angle:	0.3768 °	Grid Convergence Used:	0.3768 °
Grid Scale Factor:	0.99996389	Total Corr Mag North->Grid North:	7.1773 °

Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL Double X 25 Federal #11H	0.00	0.00	179.54	0.00	-3565.00	0.00	0.00	0.00	N/A	N/A	N/A	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46
KOP - Build @ 12°/100' DLS	9247.50	0.00	179.54	9247.50	5682.50	0.00	0.00	0.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46
Landing Point	9997.56	90.00	179.54	9725.00	6160.00	477.50	-477.48	3.80	12.00	12.00	0.00	434826.93	760070.20	N 32 11 36.38	W 103 37 34.45
Cimarex Double X 25 Federal #11H PBHL	14043.67	90.00	179.54	9725.00	6160.00	4523.62	-4523.47	36.00	0.00	0.00	0.00	430781.10	760102.40	N 32 10 56.35	W 103 37 34.38

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	14043.671	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Double X 25 Federal #11H Rev0



Cimarex Double X 25 Federal #11H Rev0 RJS 19-Sep-12 Proposal Report

100' Interpolated

(Non-Def Plan)



Report Date: September 20, 2012 - 04:49 PM
 Client: Cimarex
 Field: NM Lea County (NAD 83)
 Structure / Slot: TBD / Cimarex Double X 25 Federal #11H
 Well: Cimarex Double X 25 Federal #11H
 Borehole: Original Borehole
 UWI / API#: Unknown / Unknown
 Survey Name: Cimarex Double X 25 Federal #11H Rev0 RJS 19-Sep-12
 Survey Date: September 19, 2012
 Tort / AHD / DDI / ERD Ratio: 90.000 ° / 4523.616 ft / 5.769 / 0.465
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 11' 41.10808", W 103° 37' 34.45747"
 Location Grid N/E Y/X: N 435304.400 ftUS, E 760066.400 ftUS
 CRS Grid Convergence Angle: 0.3768 °
 Grid Scale Factor: 0.99996389

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 179.544 ° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: Ground Level
 TVD Reference Elevation: 3565.000 ft above MSL
 Seabed / Ground Elevation: 3565.000 ft above MSL
 Magnetic Declination: 7.554 °
 Total Gravity Field Strength: 999.1469 mgn (9.8 based)
 Total Magnetic Field Strength: 48455.698 nT
 Magnetic Dip Angle: 60.080 °
 Declination Date: September 19, 2012
 Magnetic Declination Model: BGM 2012
 North Reference: Grid North
 Grid Convergence Used: 0.3768 °
 Total Corr Mag North->Grid North: 7.1773 °
 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)
SHL Double X 25 Federal #11H	0.00	0.00	179.54	0.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	N/A
	100.00	0.00	179.54	100.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	200.00	0.00	179.54	200.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	300.00	0.00	179.54	300.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	400.00	0.00	179.54	400.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	500.00	0.00	179.54	500.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	600.00	0.00	179.54	600.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	700.00	0.00	179.54	700.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	800.00	0.00	179.54	800.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	900.00	0.00	179.54	900.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	1000.00	0.00	179.54	1000.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	1100.00	0.00	179.54	1100.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	1200.00	0.00	179.54	1200.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	1300.00	0.00	179.54	1300.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	1400.00	0.00	179.54	1400.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	1500.00	0.00	179.54	1500.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	1600.00	0.00	179.54	1600.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	1700.00	0.00	179.54	1700.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	1800.00	0.00	179.54	1800.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	1900.00	0.00	179.54	1900.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	2000.00	0.00	179.54	2000.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	2100.00	0.00	179.54	2100.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	2200.00	0.00	179.54	2200.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	2300.00	0.00	179.54	2300.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	2400.00	0.00	179.54	2400.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	2500.00	0.00	179.54	2500.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	2600.00	0.00	179.54	2600.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	2700.00	0.00	179.54	2700.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	2800.00	0.00	179.54	2800.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00

Drilling Office 2.6.1120.0 ...Original Borehole\Cimarex Double X 25 Federal #11H Rev0 RJS 19-Sep-12 11/12/2012 10:16 AM 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)
KOP - Build @ 12"/100' DLS	8400.00	0.00	179.54	8400.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	8500.00	0.00	179.54	8500.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	8600.00	0.00	179.54	8600.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	8700.00	0.00	179.54	8700.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	8800.00	0.00	179.54	8800.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	8900.00	0.00	179.54	8900.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	9000.00	0.00	179.54	9000.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	9100.00	0.00	179.54	9100.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	9200.00	0.00	179.54	9200.00	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	9247.50	0.00	179.54	9247.50	0.00	0.00	0.00	435304.40	760066.40	N 32 11 41.11	W 103 37 34.46	0.00	0.00	0.00
	9300.00	6.30	179.54	9299.89	2.88	-2.88	0.02	435301.52	760066.42	N 32 11 41.08	W 103 37 34.46	2.88	179.54	12.00
	9400.00	18.30	179.54	9397.42	24.15	-24.15	0.19	435280.26	760066.59	N 32 11 40.87	W 103 37 34.46	24.15	179.54	12.00
	9500.00	30.30	179.54	9488.40	65.22	-65.22	0.52	435239.19	760066.92	N 32 11 40.46	W 103 37 34.46	65.22	179.54	12.00
	9600.00	42.30	179.54	9568.84	124.31	-124.30	0.99	435180.10	760067.39	N 32 11 39.88	W 103 37 34.46	124.31	179.54	12.00
	9700.00	54.30	179.54	9635.25	198.83	-198.83	1.58	435105.58	760067.98	N 32 11 39.14	W 103 37 34.45	198.83	179.54	12.00
	9800.00	66.30	179.54	9684.71	285.53	-285.52	2.27	435018.89	760068.67	N 32 11 38.28	W 103 37 34.45	285.53	179.54	12.00
Landing Point	9900.00	78.29	179.54	9715.07	380.62	-380.61	3.03	434923.80	760069.43	N 32 11 37.34	W 103 37 34.45	380.62	179.54	12.00
	9997.56	90.00	179.54	9725.00	477.50	-477.48	3.80	434826.93	760070.20	N 32 11 36.38	W 103 37 34.45	477.50	179.54	12.00
	10000.00	90.00	179.54	9725.00	479.94	-479.93	3.82	434824.49	760070.22	N 32 11 36.36	W 103 37 34.45	479.94	179.54	0.00
	10100.00	90.00	179.54	9725.00	579.94	-579.93	4.62	434724.50	760071.02	N 32 11 35.37	W 103 37 34.45	579.94	179.54	0.00
	10200.00	90.00	179.54	9725.00	679.94	-679.92	5.41	434624.50	760071.81	N 32 11 34.38	W 103 37 34.45	679.94	179.54	0.00
	10300.00	90.00	179.54	9725.00	779.94	-779.92	6.21	434524.51	760072.61	N 32 11 33.39	W 103 37 34.44	779.94	179.54	0.00
	10400.00	90.00	179.54	9725.00	879.94	-879.92	7.00	434424.52	760073.40	N 32 11 32.40	W 103 37 34.44	879.94	179.54	0.00
	10500.00	90.00	179.54	9725.00	979.94	-979.91	7.80	434324.52	760074.20	N 32 11 31.41	W 103 37 34.44	979.94	179.54	0.00
	10600.00	90.00	179.54	9725.00	1079.94	-1079.91	8.59	434224.53	760074.99	N 32 11 30.42	W 103 37 34.44	1079.94	179.54	0.00
	10700.00	90.00	179.54	9725.00	1179.94	-1179.91	9.39	434124.54	760075.79	N 32 11 29.43	W 103 37 34.44	1179.94	179.54	0.00
	10800.00	90.00	179.54	9725.00	1279.94	-1279.90	10.19	434024.54	760076.59	N 32 11 28.44	W 103 37 34.44	1279.94	179.54	0.00
	10900.00	90.00	179.54	9725.00	1379.94	-1379.90	10.98	433924.55	760077.38	N 32 11 27.45	W 103 37 34.44	1379.94	179.54	0.00
	11000.00	90.00	179.54	9725.00	1479.94	-1479.90	11.78	433824.56	760078.18	N 32 11 26.46	W 103 37 34.43	1479.94	179.54	0.00
	11100.00	90.00	179.54	9725.00	1579.94	-1579.89	12.57	433724.57	760078.97	N 32 11 25.47	W 103 37 34.43	1579.94	179.54	0.00
	11200.00	90.00	179.54	9725.00	1679.94	-1679.89	13.37	433624.57	760079.77	N 32 11 24.48	W 103 37 34.43	1679.94	179.54	0.00
	11300.00	90.00	179.54	9725.00	1779.94	-1779.89	14.17	433524.58	760080.57	N 32 11 23.50	W 103 37 34.43	1779.94	179.54	0.00
	11400.00	90.00	179.54	9725.00	1879.94	-1879.89	14.96	433424.59	760081.36	N 32 11 22.51	W 103 37 34.43	1879.94	179.54	0.00
	11500.00	90.00	179.54	9725.00	1979.94	-1979.88	15.76	433324.59	760082.16	N 32 11 21.52	W 103 37 34.43	1979.94	179.54	0.00
	11600.00	90.00	179.54	9725.00	2079.94	-2079.88	16.55	433224.60	760082.95	N 32 11 20.53	W 103 37 34.42	2079.94	179.54	0.00
	11700.00	90.00	179.54	9725.00	2179.94	-2179.88	17.35	433124.61	760083.75	N 32 11 19.54	W 103 37 34.42	2179.94	179.54	0.00
	11800.00	90.00	179.54	9725.00	2279.94	-2279.87	18.15	433024.61	760084.54	N 32 11 18.55	W 103 37 34.42	2279.94	179.54	0.00
	11900.00	90.00	179.54	9725.00	2379.94	-2379.87	18.94	432924.62	760085.34	N 32 11 17.56	W 103 37 34.42	2379.94	179.54	0.00
	12000.00	90.00	179.54	9725.00	2479.94	-2479.87	19.74	432824.63	760086.14	N 32 11 16.57	W 103 37 34.42	2479.94	179.54	0.00
	12100.00	90.00	179.54	9725.00	2579.94	-2579.86	20.53	432724.64	760086.93	N 32 11 15.58	W 103 37 34.42	2579.94	179.54	0.00
	12200.00	90.00	179.54	9725.00	2679.94	-2679.86	21.33	432624.64	760087.73	N 32 11 14.59	W 103 37 34.41	2679.94	179.54	0.00
	12300.00	90.00	179.54	9725.00	2779.94	-2779.86	22.12	432524.65	760088.52	N 32 11 13.60	W 103 37 34.41	2779.94	179.54	0.00
	12400.00	90.00	179.54	9725.00	2879.94	-2879.85	22.92	432424.66	760089.32	N 32 11 12.61	W 103 37 34.41	2879.94	179.54	0.00
	12500.00	90.00	179.54	9725.00	2979.94	-2979.85	23.72	432324.66	760090.12	N 32 11 11.62	W 103 37 34.41	2979.94	179.54	0.00
	12600.00	90.00	179.54	9725.00	3079.94	-3079.85	24.51	432224.67	760090.91	N 32 11 10.63	W 103 37 34.41	3079.94	179.54	0.00
	12700.00	90.00	179.54	9725.00	3179.94	-3179.84	25.31	432124.68	760091.71	N 32 11 9.64	W 103 37 34.41	3179.94	179.54	0.00
	12800.00	90.00	179.54	9725.00	3279.94	-3279.84	26.10	432024.68	760092.50	N 32 11 8.65	W 103 37 34.40	3279.94	179.54	0.00
	12900.00	90.00	179.54	9725.00	3379.94	-3379.84	26.90	431924.69	760093.30	N 32 11 7.66	W 103 37 34.40	3379.94	179.54	0.00
	13000.00	90.00	179.54	9725.00	3479.94	-3479.83	27.70	431824.70	760094.09	N 32 11 6.67	W 103 37 34.40	3479.94	179.54	0.00
	13100.00	90.00	179.54	9725.00	3579.94	-3579.83	28.49	431724.71	760094.89	N 32 11 5.68	W 103 37 34.40	3579.94	179.54	0.00
	13200.00	90.00	179.54	9725.00	3679.94	-3679.83	29.29	431624.71	760095.69	N 32 11 4.69	W 103 37 34.40	3679.94	179.54	0.00
	13300.00	90.00	179.54	9725.00	3779.94	-3779.83	30.08	431524.72	760096.48	N 32 11 3.70	W 103 37 34.40	3779.94	179.54	0.00
	13400.00	90.00	179.54	9725.00	3879.94	-3879.82	30.88	431424.73	760097.28	N 32 11 2.72	W 103 37 34.39	3879.94	179.54	0.00
	13500.00	90.00	179.54	9725.00	3979.94	-3979.82	31.67	431324.73	760098.07	N 32 11 1.73	W 103 37 34.39	3979.94	179.54	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)
	13600.00	90.00	179.54	9725.00	4079.94	-4079.82	32.47	431224.74	760098.87	N 32 11 0.74	W 103 37 34.39	4079.94	179.54	0.00
	13700.00	90.00	179.54	9725.00	4179.94	-4179.81	33.27	431124.75	760099.66	N 32 10 59.75	W 103 37 34.39	4179.94	179.54	0.00
	13800.00	90.00	179.54	9725.00	4279.94	-4279.81	34.06	431024.75	760100.46	N 32 10 58.76	W 103 37 34.39	4279.94	179.54	0.00
	13900.00	90.00	179.54	9725.00	4379.94	-4379.81	34.86	430924.76	760101.26	N 32 10 57.77	W 103 37 34.39	4379.94	179.54	0.00
	14000.00	90.00	179.54	9725.00	4479.94	-4479.80	35.65	430824.77	760102.05	N 32 10 56.78	W 103 37 34.39	4479.94	179.54	0.00
Cimarex Double X 25 Federal #11H PBHL	14043.67	90.00	179.54	9725.00	4523.62	-4523.47	36.00	430781.10	760102.40	N 32 10 56.35	W 103 37 34.38	4523.62	179.54	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	14043.671	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Double X 25 Federal #11H Rev0

SR & A

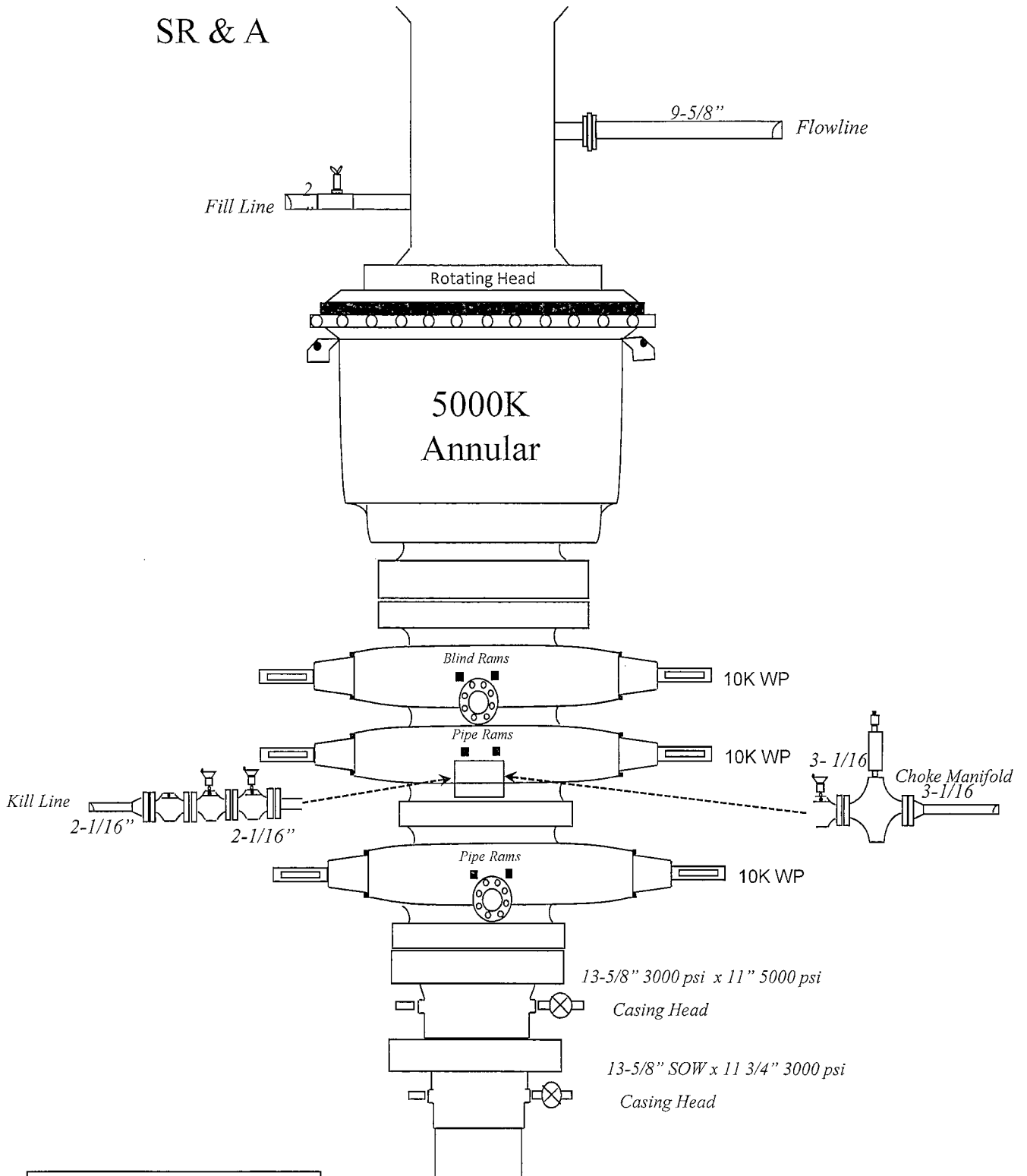


Exhibit "E"

5M BOP

Double X 25 Federal 11H

Cimarex Energy Co.

25-24S-32E

SHL 430' FNL & 1990' FEL

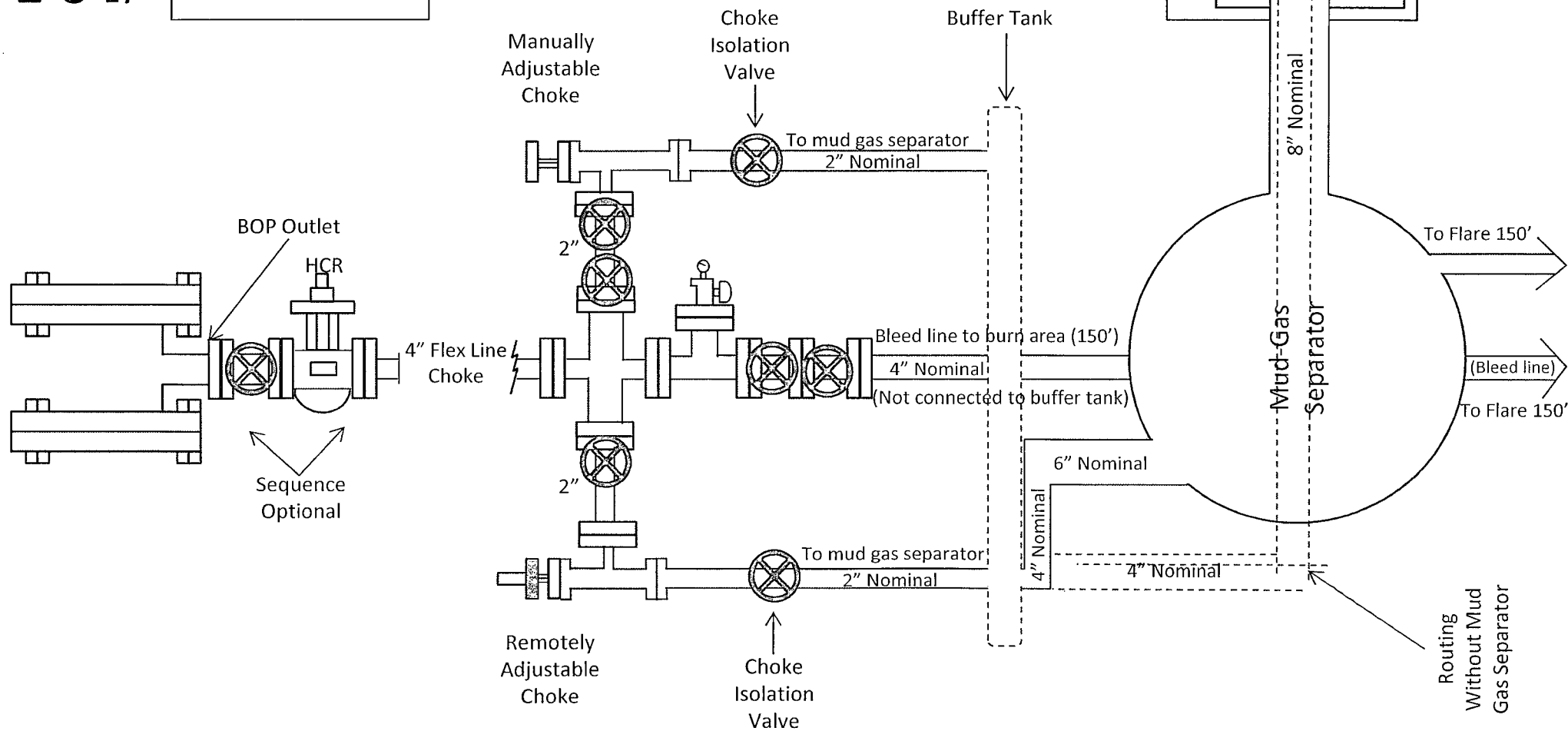
BHL 330' FSL & 1980' FEL

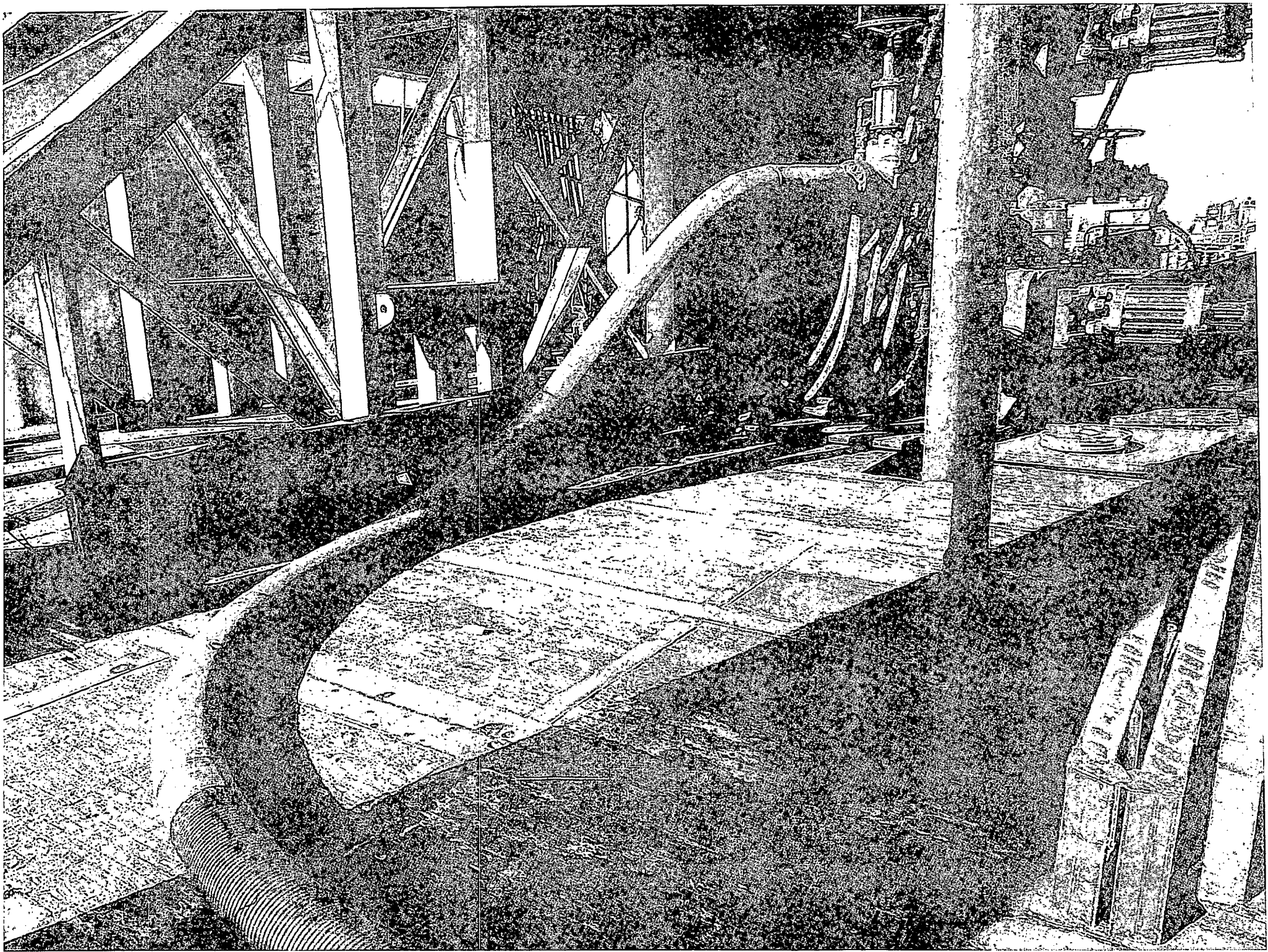
Lea County, NM

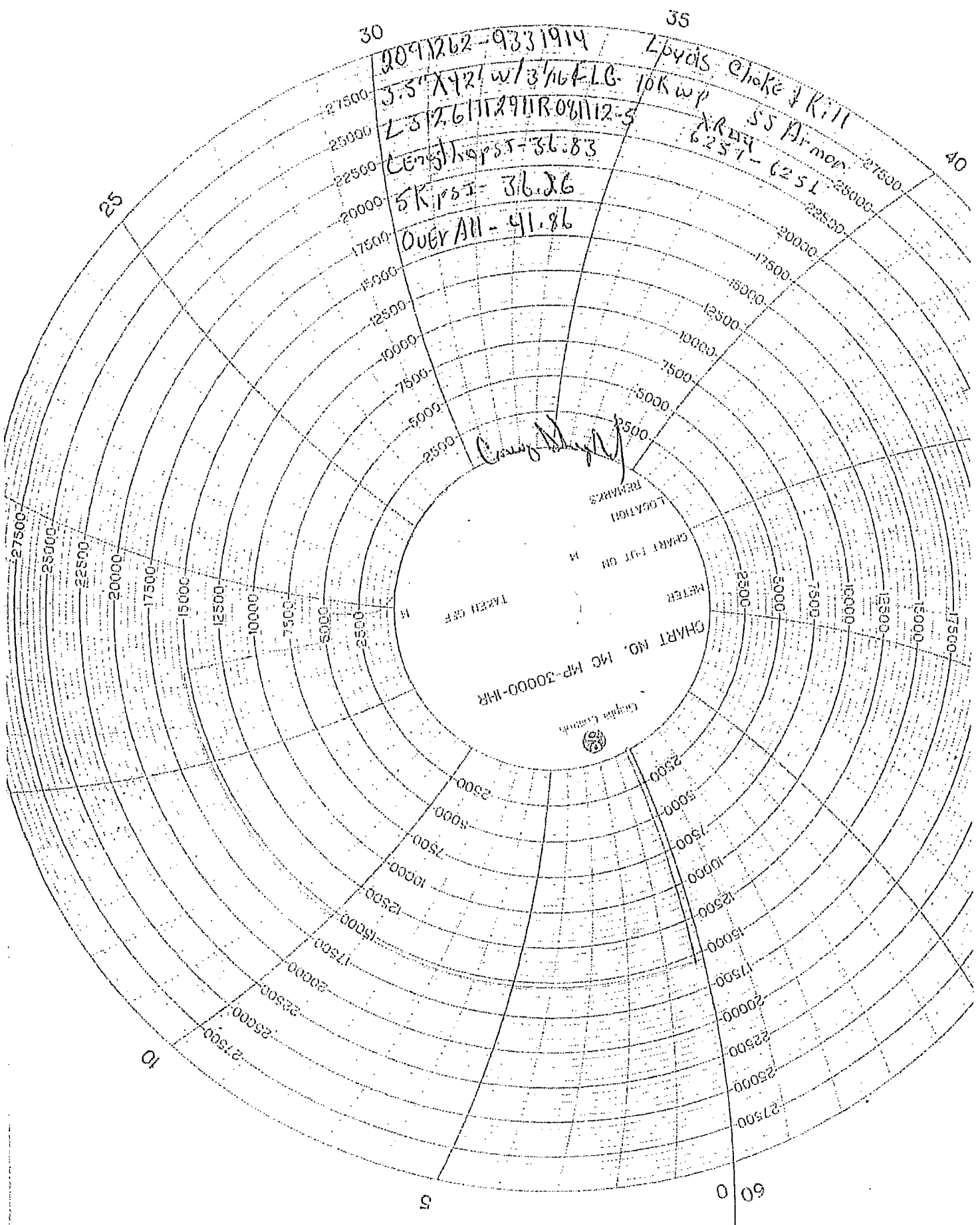
Drilling Operations Choke Manifold 5M Service

Exhibit "E-1"

Choke Manifold Diagram
Double X 25 Federal 11H
Cimarex Energy Co.
25-24S-32E
SHL 430' FNL & 1990' FEL
BHL 330' FSL & 1980' FEL
Lea County, NM

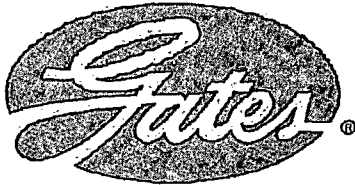






Captain [Signature]

CHART NO. INC MP-30000-1HR
WATER
DEPTH PUT ON
LOCATION
REMARKS
TAKEN OFF



Robsco, Inc.
OILFIELD RUBBER PRODUCTS
4749 Eastpark Drive
Houston, TX 77028
United States of America

Gates Corporation Authorized Rotary and Vibrator Hose Subcontracted Fabricator

Hydrostatic Test Certification

Robsco, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the hydrostatic test per API Spec 7K, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.25 times the working pressure per Table 9.

Assembly Part Number
36342R3-1/16FLG10K-SSL

Serial Number / Date Code
L31261112911R081112-5

Hose Size
3.5IN X 42FT

Testers
OC CS

Chart Recorder Information
Serial Number
Recorder 22349

Calibration Date
July 10th 2012

Hydrostatic Test: Passed
Visual Inspection: Passed


QA Representative Signature

8/13/2012 RS
Date & Initial



Robsco, Inc.
OILFIELD RUBBER PRODUCTS
4749 Eastpark Drive
Houston, TX 77028
United States of America

Gates Corporation Authorized Rotary and Vibrator Hose Subcontracted Fabricator

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Assembly Part Number
36342R3-1/16FLG10K-SSL

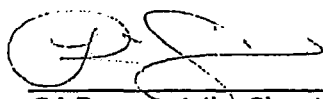
Serial Number / Date Code
L31261112911R081112-5

Hose Size
3.5IN X 42FT

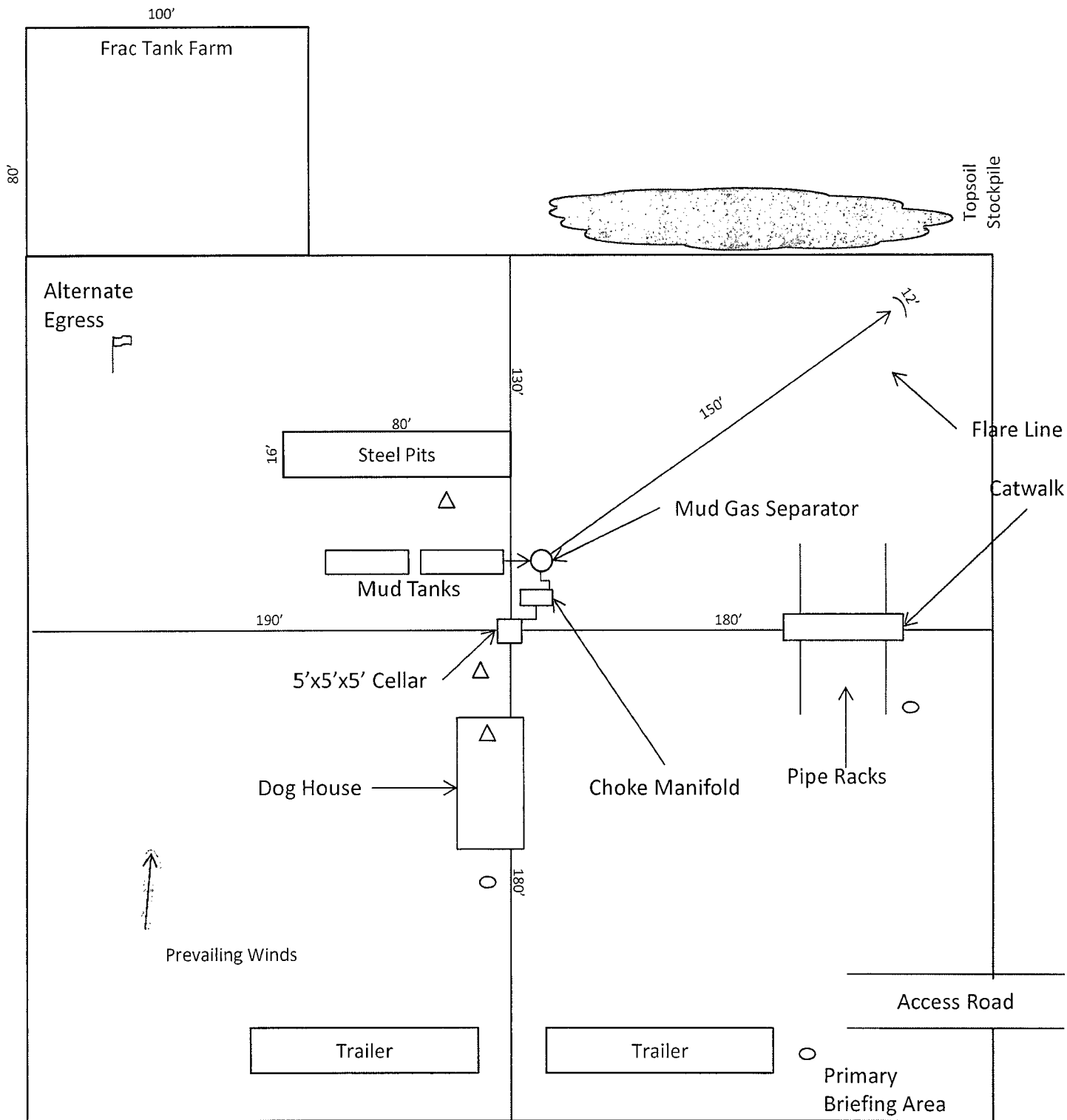
Testers
OC CS

Chart Recorder Information
Serial Number Calibration Date
Recorder 22349 July 10th 2012

Hydrostatic Test: Passed
Visual Inspection: Passed


QA Representative Signature

8/13/2012 RS
Date & Initial



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

N

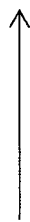


Exhibit "D"
Rig Diagram
Double X 25 Fed 11H

Cimarex Energy Co.

25-24S-32E

SHL 430' FNL & 1990' FEL

BHL 330' FSL & 1980' FEL

Lea County, NM