

HOBBS OCD

Form 3160-3
(March 2012)

SEP 19 2013

RECEIVED

OCD Hobbs

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

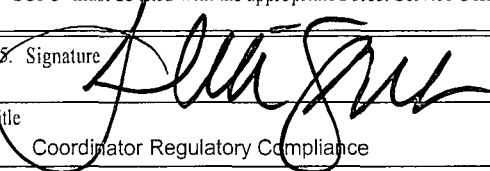
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM127895
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. <39348> Double X 25 Federal #12H
3b. Phone No. (include area code) 432571-7800		9. API Well No. 30025- 41415
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 330' FNL & 660' FEL Unit A At proposed prod. zone 330' FSL & 660' FEL Unit P		10. Field and Prod. of Exploratory WL-025 B-08 525 3201 m Triple X, Bone Sping, West <97784>
14. Distance in miles and direction from nearest town or post office* 29 miles West of Jal NM		11. Sec., T. R. M. or Blk. and Survey or Area 25-24S-32E
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 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: 14140; TVD: 9725'	20. BLM/BIA Bond No. on file NM2575; NMB000835
21. Elevations (Show whether DF, KDB, RT, GL, etc.) GR 3547'	22. Approximate date work will start* 04/01/2013	23. 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. | 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 must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature 	Name (Printed/Typed) Terri Stathem	Date 11/12/2012
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Title Coordinator Regulatory Compliance

Approved by (Signature) /s/ STEPHEN J. CAFFEY	Name (Printed/Typed)	Date SEP 16 2013
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Title FIELD MANAGER	Office CARLSBAD FIELD OFFICE
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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)

*(Instructions on page 2)

Carlsbad Controlled Water Basin

Kb
09/20/13SEE ATTACHED FOR
CONDITIONS OF APPROVAL

SEP 23 2013

Approval Subject to General Requirements
& Special Stipulations Attached

jm

Drilling Plan
Double X 25 Federal No. 12H
 Cimarex Energy Co.
 Unit A, 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 330 FNL & 660 FEL
 BHL 330 FSL & 660 FEL

- 2 **Elevation above sea level:** 3547' 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 14140' 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 9248'	8.4-9.0	28-29	NC	FW and brine, use hi-vis sweeps to keep hole clean
9248' to 14140'	8.5-9.5	27-45	NC	2% KCL

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 @ 14140' MD, 9725' TVD. Run 5 1/2" casing and cement per program.

Drilling Plan
Double X 25 Federal No. 12H
Cimarex Energy Co.
Unit A, 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:

5202
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.

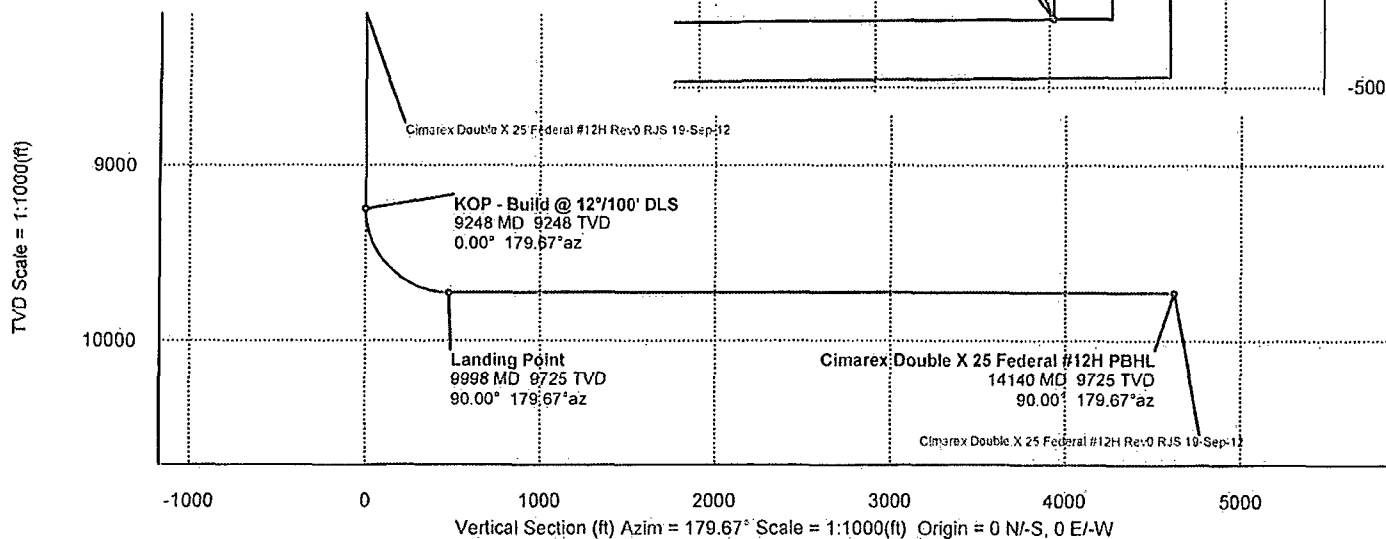
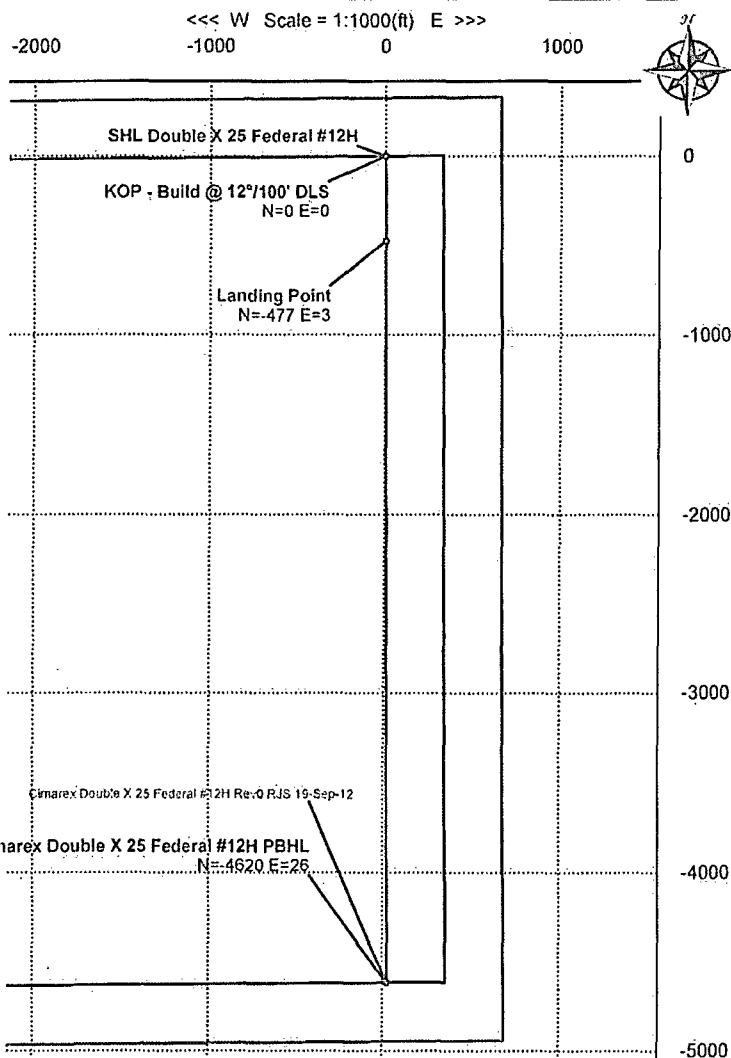
The proposed well will be tested and potential as an oil well.



Cimarex

PATHFINDER
A Schlumberger Company

WELL	Double X 25 Federal #12H	FIELD	NM Lea County	STRUCTURE	TBD
Maple Parameters Model: EDDV 2012 Op: 60031 Mag Dec: 7.552°	Date: September 19, 2012 FS: 43454 Ent	Surface Location Lat: N 32 11 42 113 Lon: W 103 37 18 531	Horizontal 436415 20 RJIS Easting: 781326 60 RJIS Scale Factor: 0.9999945	MapleTrends Site: Double X 25 Federal #12H Plan: Rev: RJIS 19-Sep-12	TVD Ref: Ground Level (15473 above MSL) Story Date: September 19, 2012



Critical Point	MD	INCL	AZIM	TVD	YSEC	N(e)/S(c)	E(e)/W(c)	DLS
SHL Double X 25 Federal #12H	0.00	0.00	179.67	0.00	0.00	0.00	0.00	
KOP - Build @ 12°/100' DLS	9247.50	0.00	179.67	9247.50	0.00	0.00	0.00	0.00
Landing Point	9997.56	90.00	179.67	9725.00	477.50	-477.49	2.73	12.00
Cimarex Double X 25 Federal #12H PBHL	14140.00	90.00	179.67	9725.00	4619.95	-4619.87	26.40	0.00



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



(Non-Def Plan)

Report Date: September 20, 2012 - 10:35 AM
 Client: Cimarex
 Field: NM Lea County (NAD 83)
 Structure / Slot: TBD/ Cimarex Double X 25 Federal #12H
 Well: Cimarex Double X 25 Federal #12H
 Borehole: Original Borehole
 UWI / API#: Unknown / Unknown
 Survey Name: Cimarex Double X 25 Federal #12H Rev0 RJS 19-Sep-12
 Survey Date: September 19, 2012
 Tort / AHD / DDI / ERD Ratio: 90.001 * / 4519.948 ft / 5.781 / 0.475
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 11' 42.11773", W 103° 37' 18.98087"
 Location Grid N/E Y/X: N 435415.200 ftUS, E 761395.600 ftUS
 CRS Grid Convergence Angle: 0.3790 *
 Grid Scale Factor: 0.99996455

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 179.673 * (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: Ground Level
 TVD Reference Elevation: 3547.000 ft above MSL
 Seabed / Ground Elevation: 3547.000 ft above MSL
 Magnetic Declination: 7.552 *
 Total Gravity Field Strength: 999.1487 mgn (9.8 based)
 Total Magnetic Field Strength: 48456.526 nT
 Magnetic Dip Angle: 60.081 *
 Declination Date: September 19, 2012
 Magnetic Declination Model: BGGM 2012
 North Reference: Grid North
 Grid Convergence Used: 0.3790 *
 Total Corr Mag North->Grid North: 7.1731 *
 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 #12H	0.00	0.00	179.67	0.00	-3547.00	0.00	0.00	0.00	N/A	N/A	N/A	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98
KOP - Build @ 12"/100' DLS	9247.50	0.00	179.67	9247.50	5700.50	0.00	0.00	0.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98
Landing Point Cimarex Double X 25 Federal #12H	9997.56	90.00	179.67	9725.00	6178.00	477.50	-477.49	2.73	12.00	12.00	0.00	434937.73	761398.33	N 32 11 37.39	W 103 37 18.99
PBHL	14140.00	90.00	179.67	9725.00	6178.00	4619.95	-4619.87	26.40	0.00	0.00	0.00	430795.50	761422.00	N 32 10 56.40	W 103 37 19.03

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	14140.004	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Double X 25 Federal #12H Rev0



Cimarex Double X 25 Federal #12H Rev0 RJS 19-Sep-12 Proposal Report
100' Interpolated
 (Non-Def Plan)



Report Date: September 20, 2012 - 04:51 PM
Client: Cimarex
Field: NM Lea County (NAD 83)
Structure / Slot: TBD / Cimarex Double X 25 Federal #12H
Well: Cimarex Double X 25 Federal #12H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Cimarex Double X 25 Federal #12H Rev0 RJS 19-Sep-12
Survey Date: September 19, 2012
Tort / AHD / DDI / ERD Ratio: 90.001° / 4619.948 ft / 5.781 / 0.475
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 11' 42.11773", W 103° 37' 18.98087"
Location Grid N/E Y/X: N 435415.200 ftUS, E 761395.600 ftUS
CRS Grid Convergence Angle: 0.3790°
Grid Scale Factor: 0.99996455

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 179.673° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: Ground Level
TVD Reference Elevation: 3547.000 ft above MSL
Seabed / Ground Elevation: 3547.000 ft above MSL
Magnetic Declination: 7.552°
Total Gravity Field Strength: 999.1487 mgn (9.8 based)
Total Magnetic Field Strength: 48456.526 nT
Magnetic Dip Angle: 60.081°
Declination Date: September 19, 2012
Magnetic Declination Model: BGGM 2012
North Reference: Grid North
Grid Convergence Used: 0.3790°
Total Corr Mag North->Grid North: 7.1731°
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 (ft/100ft)
SHL Double X 25 Federal #12H	0.00	0.00	179.67	0.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	N/A
	100.00	0.00	179.67	100.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	200.00	0.00	179.67	200.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	300.00	0.00	179.67	300.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	400.00	0.00	179.67	400.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	500.00	0.00	179.67	500.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	600.00	0.00	179.67	600.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	700.00	0.00	179.67	700.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	800.00	0.00	179.67	800.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	900.00	0.00	179.67	900.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	1000.00	0.00	179.67	1000.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	1100.00	0.00	179.67	1100.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	1200.00	0.00	179.67	1200.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	1300.00	0.00	179.67	1300.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	1400.00	0.00	179.67	1400.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	1500.00	0.00	179.67	1500.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	1600.00	0.00	179.67	1600.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	1700.00	0.00	179.67	1700.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	1800.00	0.00	179.67	1800.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	1900.00	0.00	179.67	1900.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	2000.00	0.00	179.67	2000.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	2100.00	0.00	179.67	2100.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	2200.00	0.00	179.67	2200.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	2300.00	0.00	179.67	2300.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	2400.00	0.00	179.67	2400.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	2500.00	0.00	179.67	2500.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	2600.00	0.00	179.67	2600.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	2700.00	0.00	179.67	2700.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	2800.00	0.00	179.67	2800.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00

9/24/2012 11:52 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 (ft/100ft)
KOP - Build @ 12"1100' DLS	8400.00	0.00	179.67	8400.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	8500.00	0.00	179.67	8500.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	8600.00	0.00	179.67	8600.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	8700.00	0.00	179.67	8700.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	8800.00	0.00	179.67	8800.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	8900.00	0.00	179.67	8900.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	9000.00	0.00	179.67	9000.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	9100.00	0.00	179.67	9100.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	9200.00	0.00	179.67	9200.00	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	9247.50	0.00	179.67	9247.50	0.00	0.00	0.00	435415.20	761395.60	N 32 11 42.12	W 103 37 18.98	0.00	0.00	0.00
	9300.00	6.30	179.67	9299.89	2.88	-2.88	0.02	435412.32	761395.62	N 32 11 42.09	W 103 37 18.98	2.88	179.67	12.00
	9400.00	18.30	179.67	9397.42	24.15	-24.15	0.14	435391.06	761395.74	N 32 11 41.88	W 103 37 18.98	24.15	179.67	12.00
	9500.00	30.30	179.67	9488.40	65.22	-65.22	0.37	435349.98	761395.97	N 32 11 41.47	W 103 37 18.98	65.22	179.67	12.00
	9600.00	42.30	179.67	9568.84	124.31	-124.31	0.71	435290.90	761396.31	N 32 11 40.89	W 103 37 18.98	124.31	179.67	12.00
	9700.00	54.30	179.67	9635.25	198.83	-198.83	1.13	435216.38	761396.73	N 32 11 40.15	W 103 37 18.98	198.83	179.67	12.00
	9800.00	66.30	179.67	9684.71	285.53	-285.53	1.63	435129.68	761397.23	N 32 11 39.29	W 103 37 18.98	285.53	179.67	12.00
Landing Point	9900.00	78.29	179.67	9715.07	380.62	-380.62	2.17	435034.60	761397.77	N 32 11 38.35	W 103 37 18.98	380.62	179.67	12.00
	9997.56	90.00	179.67	9725.00	477.50	-477.49	2.73	434937.73	761398.33	N 32 11 37.39	W 103 37 18.99	477.50	179.67	12.00
	10000.00	90.00	179.67	9725.00	479.94	-479.94	2.74	434935.28	761398.34	N 32 11 37.37	W 103 37 18.99	479.94	179.67	0.04
	10100.00	90.00	179.67	9725.00	579.94	-579.94	3.31	434835.29	761398.91	N 32 11 36.38	W 103 37 18.99	579.94	179.67	0.00
	10200.00	90.00	179.67	9725.00	679.94	-679.93	3.88	434735.29	761399.48	N 32 11 35.39	W 103 37 18.99	679.94	179.67	0.00
	10300.00	90.00	179.67	9725.00	779.94	-779.93	4.45	434635.30	761400.05	N 32 11 34.40	W 103 37 18.99	779.94	179.67	0.00
	10400.00	90.00	179.67	9725.00	879.94	-879.93	5.03	434535.30	761400.63	N 32 11 33.41	W 103 37 18.99	879.94	179.67	0.00
	10500.00	90.00	179.67	9725.00	979.94	-979.93	5.60	434435.31	761401.20	N 32 11 32.42	W 103 37 18.99	979.94	179.67	0.00
	10600.00	90.00	179.67	9725.00	1079.94	-1079.93	6.17	434335.31	761401.77	N 32 11 31.43	W 103 37 18.99	1079.94	179.67	0.00
	10700.00	90.00	179.67	9725.00	1179.94	-1179.93	6.74	434235.32	761402.34	N 32 11 30.44	W 103 37 18.99	1179.94	179.67	0.00
	10800.00	90.00	179.67	9725.00	1279.94	-1279.92	7.31	434135.32	761402.91	N 32 11 29.45	W 103 37 18.99	1279.94	179.67	0.00
	10900.00	90.00	179.67	9725.00	1379.94	-1379.92	7.88	434035.33	761403.48	N 32 11 28.46	W 103 37 19.00	1379.94	179.67	0.00
	11000.00	90.00	179.67	9725.00	1479.94	-1479.92	8.45	433935.33	761404.05	N 32 11 27.47	W 103 37 19.00	1479.94	179.67	0.00
	11100.00	90.00	179.67	9725.00	1579.94	-1579.92	9.03	433835.34	761404.63	N 32 11 26.48	W 103 37 19.00	1579.94	179.67	0.00
	11200.00	90.00	179.67	9725.00	1679.94	-1679.92	9.60	433735.35	761405.20	N 32 11 25.49	W 103 37 19.00	1679.94	179.67	0.00
	11300.00	90.00	179.67	9725.00	1779.94	-1779.92	10.17	433635.35	761405.77	N 32 11 24.50	W 103 37 19.00	1779.94	179.67	0.00
	11400.00	90.00	179.67	9725.00	1879.94	-1879.91	10.74	433535.36	761406.34	N 32 11 23.52	W 103 37 19.00	1879.94	179.67	0.00
	11500.00	90.00	179.67	9725.00	1979.94	-1979.91	11.31	433435.36	761406.91	N 32 11 22.53	W 103 37 19.00	1979.94	179.67	0.00
	11600.00	90.00	179.67	9725.00	2079.94	-2079.91	11.88	433335.37	761407.48	N 32 11 21.54	W 103 37 19.00	2079.94	179.67	0.00
	11700.00	90.00	179.67	9725.00	2179.94	-2179.91	12.46	433235.37	761408.05	N 32 11 20.55	W 103 37 19.00	2179.94	179.67	0.00
	11800.00	90.00	179.67	9725.00	2279.94	-2279.91	13.03	433135.38	761408.63	N 32 11 19.56	W 103 37 19.00	2279.94	179.67	0.00
	11900.00	90.00	179.67	9725.00	2379.94	-2379.91	13.60	433035.38	761409.20	N 32 11 18.57	W 103 37 19.01	2379.94	179.67	0.00
	12000.00	90.00	179.67	9725.00	2479.94	-2479.90	14.17	432935.39	761409.77	N 32 11 17.58	W 103 37 19.01	2479.94	179.67	0.00
	12100.00	90.00	179.67	9725.00	2579.94	-2579.90	14.74	432835.39	761410.34	N 32 11 16.59	W 103 37 19.01	2579.94	179.67	0.00
	12200.00	90.00	179.67	9725.00	2679.94	-2679.90	15.31	432735.40	761410.91	N 32 11 15.60	W 103 37 19.01	2679.94	179.67	0.00
	12300.00	90.00	179.67	9725.00	2779.94	-2779.90	15.88	432635.40	761411.48	N 32 11 14.61	W 103 37 19.01	2779.94	179.67	0.00
	12400.00	90.00	179.67	9725.00	2879.94	-2879.90	16.46	432535.41	761412.06	N 32 11 13.62	W 103 37 19.01	2879.94	179.67	0.00
	12500.00	90.00	179.67	9725.00	2979.94	-2979.90	17.03	432435.42	761412.63	N 32 11 12.63	W 103 37 19.01	2979.94	179.67	0.00
	12600.00	90.00	179.67	9725.00	3079.94	-3079.89	17.60	432335.42	761413.20	N 32 11 11.64	W 103 37 19.01	3079.94	179.67	0.00
	12700.00	90.00	179.67	9725.00	3179.94	-3179.89	18.17	432235.43	761413.77	N 32 11 10.65	W 103 37 19.01	3179.94	179.67	0.00
	12800.00	90.00	179.67	9725.00	3279.94	-3279.89	18.74	432135.43	761414.34	N 32 11 9.66	W 103 37 19.02	3279.94	179.67	0.00
	12900.00	90.00	179.67	9725.00	3379.94	-3379.89	19.31	432035.44	761414.91	N 32 11 8.67	W 103 37 19.02	3379.94	179.67	0.00
	13000.00	90.00	179.67	9725.00	3479.94	-3479.89	19.89	431935.44	761415.48	N 32 11 7.68	W 103 37 19.02	3479.94	179.67	0.00
	13100.00	90.00	179.67	9725.00	3579.94	-3579.89	20.46	431835.45	761416.05	N 32 11 6.69	W 103 37 19.02	3579.94	179.67	0.00
	13200.00	90.00	179.67	9725.00	3679.94	-3679.88	21.03	431735.46	761416.63	N 32 11 5.70	W 103 37 19.02	3679.94	179.67	0.00
	13300.00	90.00	179.67	9725.00	3779.94	-3779.88	21.60	431635.46	761417.20	N 32 11 4.71	W 103 37 19.02	3779.94	179.67	0.00
	13400.00	90.00	179.67	9725.00	3879.94	-3879.88	22.17	431535.46	761417.77	N 32 11 3.72	W 103 37 19.02	3879.94	179.67	0.00
	13500.00	90.00	179.67	9725.00	3979.94	-3979.88	22.74	431435.47	761418.34	N 32 11 2.74	W 103 37 19.02	3979.94	179.67	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	179.67	9725.00	4079.94	-4079.88	23.31	431335.47	761418.91	N 32 11 1.75 W	103 37 19.02	4079.94	179.67	0.00
	13700.00	90.00	179.67	9725.00	4179.94	-4179.88	23.89	431235.48	761419.49	N 32 11 0.75 W	103 37 19.02	4179.94	179.67	0.00
	13800.00	90.00	179.67	9725.00	4279.94	-4279.87	24.46	431135.49	761420.06	N 32 10 59.77 W	103 37 19.03	4279.94	179.67	0.00
	13900.00	90.00	179.67	9725.00	4379.94	-4379.87	25.03	431035.49	761420.63	N 32 10 58.78 W	103 37 19.03	4379.94	179.67	0.00
	14000.00	90.00	179.67	9725.00	4479.94	-4479.87	25.60	430935.50	761421.20	N 32 10 57.79 W	103 37 19.03	4479.94	179.67	0.00
	14100.00	90.00	179.67	9725.00	4579.94	-4579.87	26.17	430835.50	761421.77	N 32 10 56.80 W	103 37 19.03	4579.94	179.67	0.00
Cimarex Double X 25 Federal #12H PBHL	14140.00	90.00	179.67	9725.00	4619.95	-4619.87	26.40	430795.50	761422.00	N 32 10 56.40 W	103 37 19.03	4619.95	179.67	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	14140.004	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Double X 25 Federal #12H Rev0

SR & A

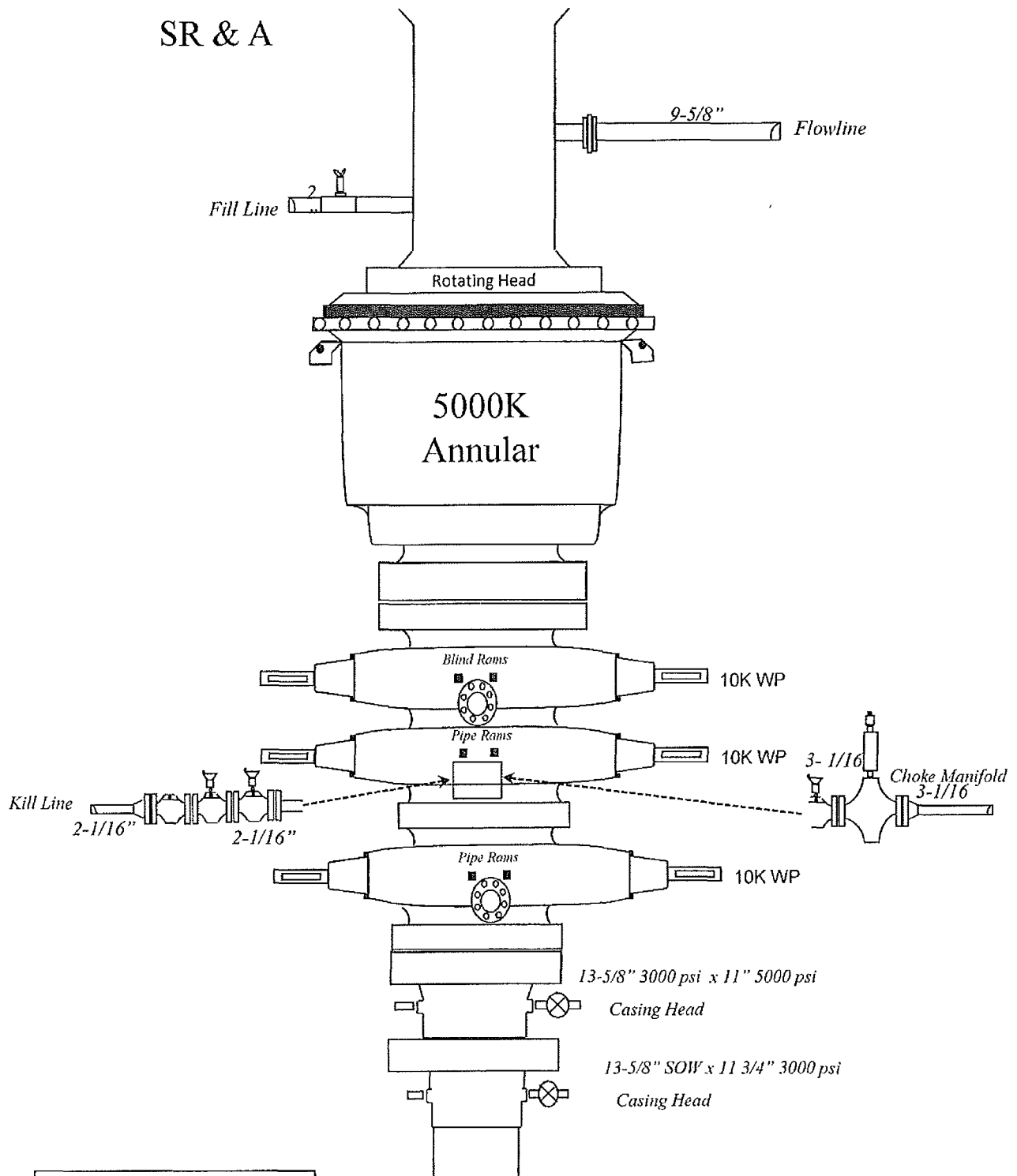


Exhibit "E"

5M BOP

Double X 25 Federal 12H

Cimarex Energy Co.

25-24S-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 Double X 25 Federal 12H

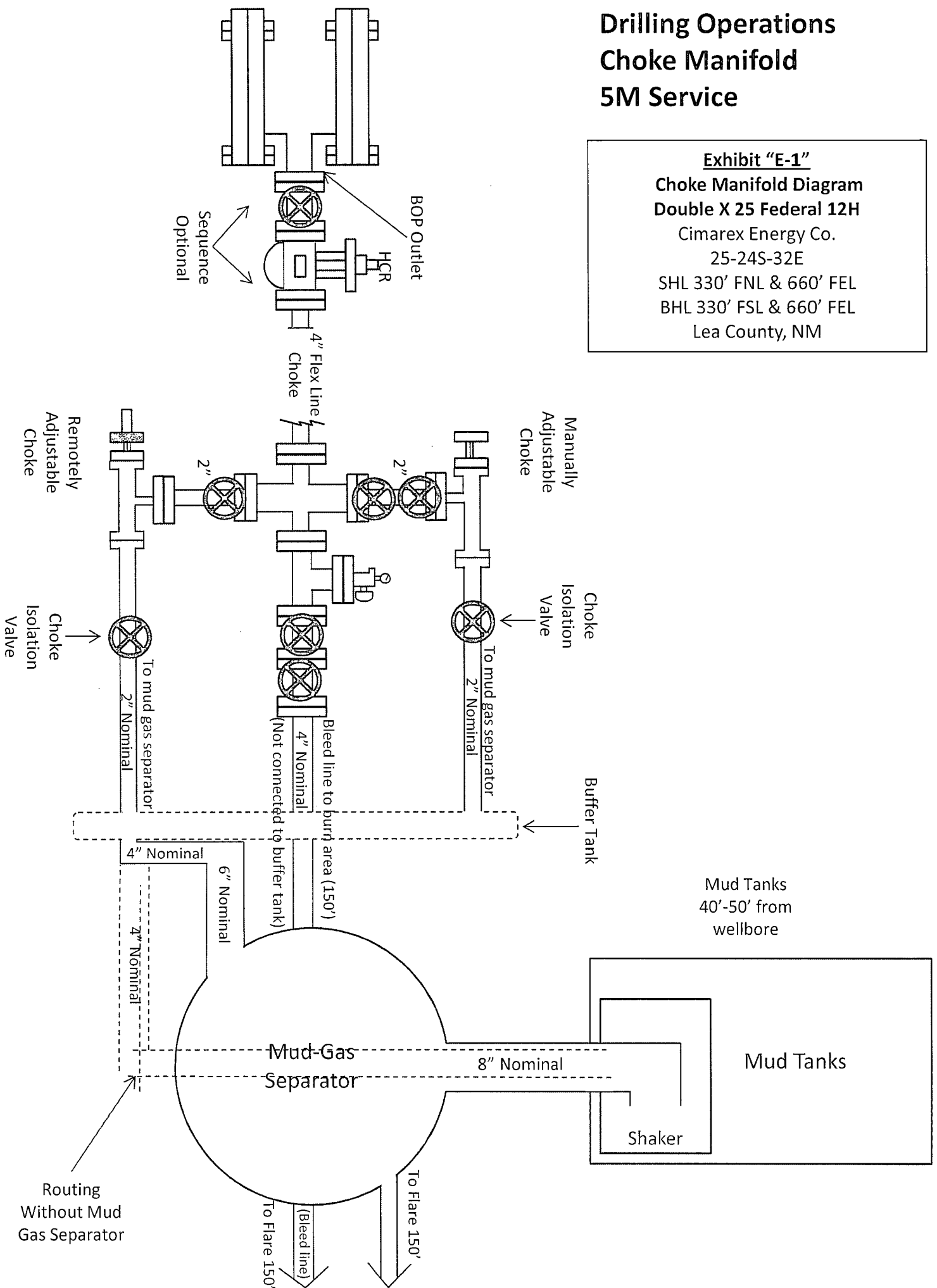
Cimarex Energy Co.

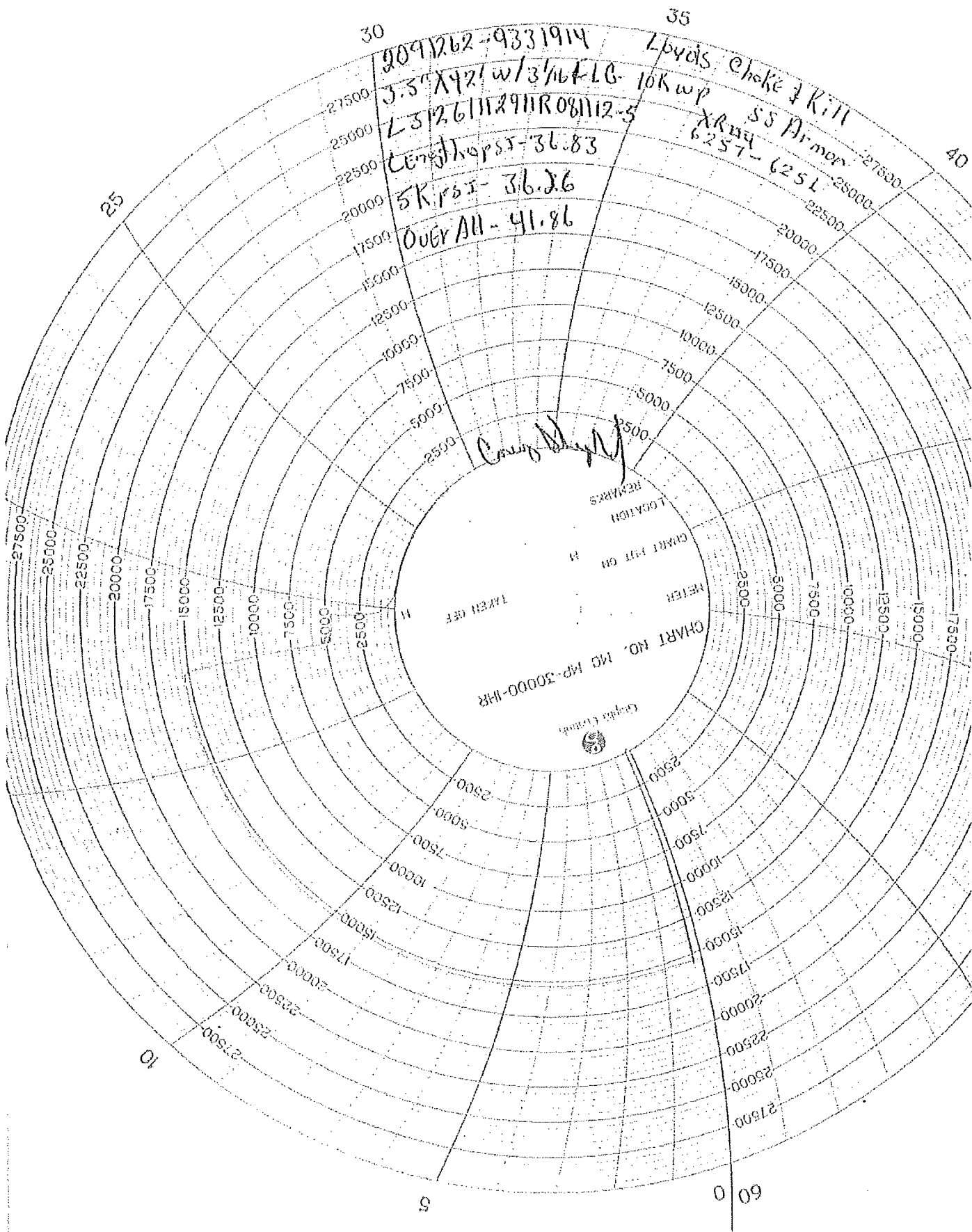
25-24S-32E

SHL 330' FNL & 660' FEL

BHL 330' FSL & 660' FEL

Lea County, NM







Robisco, 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

Robisco, 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

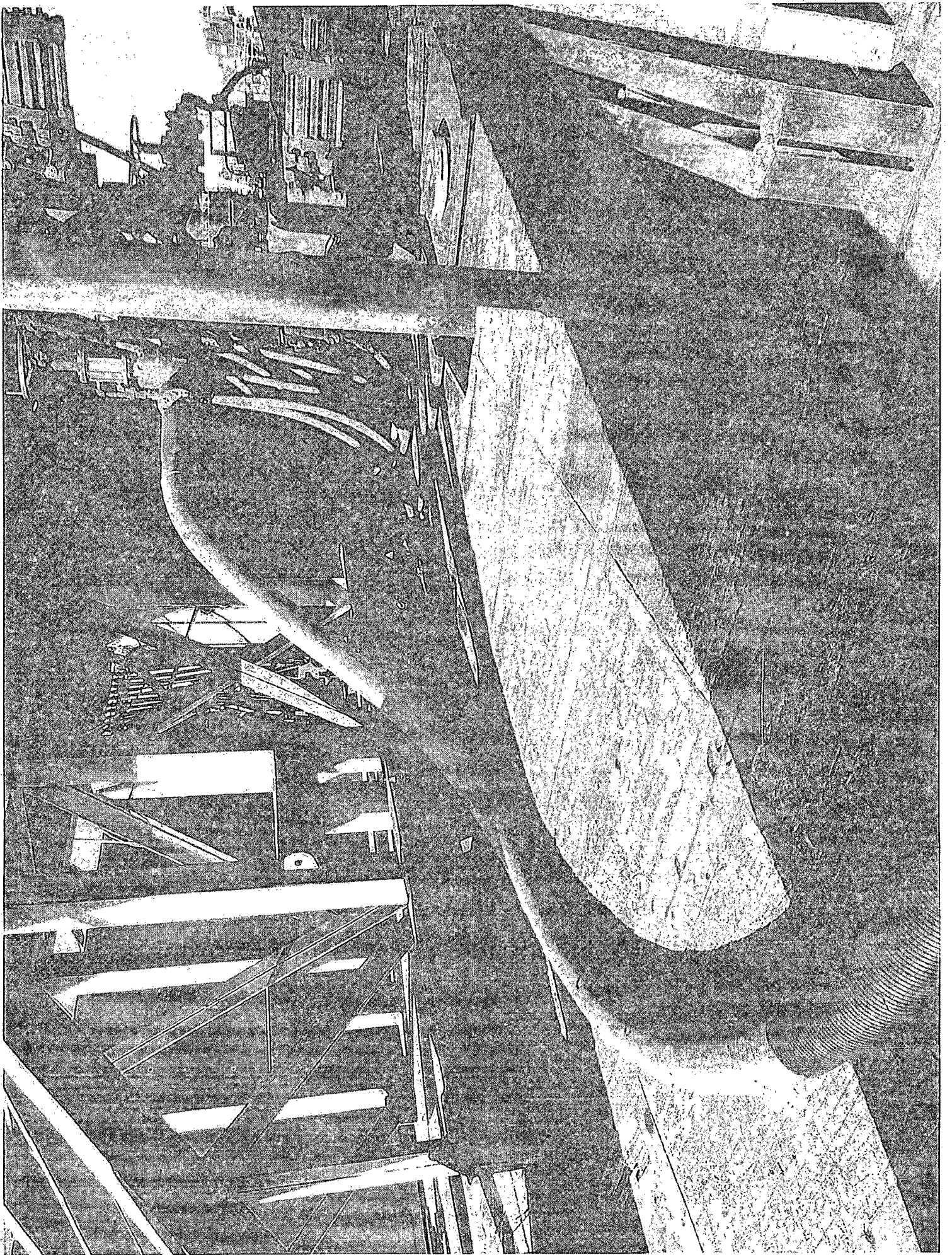
Chart Recorder Information
Serial Number
Recorder 22349

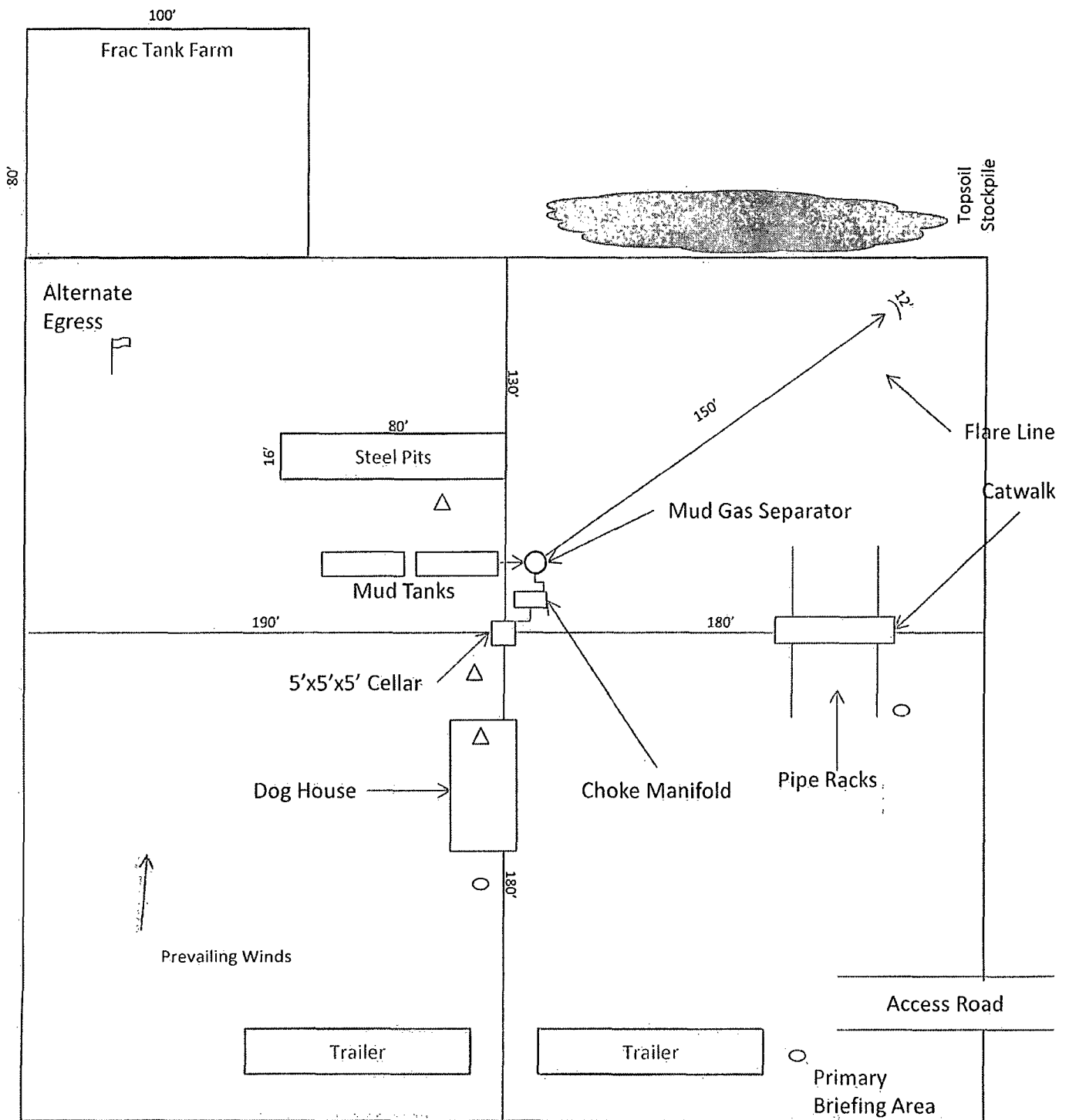
Calibration Date
July 10th 2012

Hydrostatic Test: Passed
Visual Inspection: Passed

QA Representative Signature

8/13/2012 R.S.
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 12H

Cimarex Energy Co.

25-24S-32E

SHL 330' FNL & 660' FEL

BHL 330' FSL & 660' FEL

Lea County, NM