

HOBBS OCD
SEP 26 2013

OCD Hobbs

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

RECEIVED
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMLC 061873B
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	3b. Phone No. (include area code) 432-571-7800	8. Lease Name and Well No. Cotton Draw 9L Federal Com 3 H
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At Surface 330 FSL & 380 FWL Unit m At proposed prod. Zone 330 FNL & 380 FWL Unit P Horizontal Bone Spring test		9. API Well No. 30-025-41451
14. Distance in miles and direction from nearest town or post office* Approximately 29 miles west of Jal, NM		10. Field and Pool, or Exploratory Wildcat Bone Spring
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line if any) 330'		11. Sec., T. R. M. or Blk. and Survey of Area 9-25S-32E
16. No of acres in lease 1759.31	17. Spacing Unit dedicated to this well 160	12. County or Parish Lea
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 330' from CO 9L Fed 1 1618' to #2H	19. Proposed Depth 14,987' MD 10,582' TVD	13. State NM
20. BLM/BIA Bond No. on File NM2575; NMB000835	21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3429' GR	22. Approximate date work will start* 08.01.13
23. Estimated duration 25-35 days		24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor | 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>Paula Brunson</i>	Name (Printed/Typed) Paula Brunson	Date 02.26.13
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Title

Regulatory Compliance	
Approved By (Signature) /s/ STEPHEN J. CAFFEY	Name (Printed/Typed) STEPHEN J. CAFFEY

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.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)

*(Instructions on page 2)

Carlsbad Controlled Water Basin

Approval Subject to General Requirements
& Special Stipulations Attached

10/11/13
SEE ATTACHED FOR
CONDITIONS OF APPROVAL
OCT 15 2013

Application to Drill
Cotton Draw 9L Federal #3
 Cimarex Energy Co.
 Unit M, Sec 9, 25S-32E
 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 FSL & 380 FWL
 BHL 330 FNL & 380 FWL
- 2 Elevation above sea level: 3429' 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: 14,987' MD 10,582' TVD
- 6 Estimated tops of geological markers:

Formation	Est. Top	Bearing
Rustler	731	N/A
Top Salt	816	N/A
Base Salt	4327	N/A
Bell Canyon	4555	Hydrocarbon
Cherry Canyon	5557	N/A
Brushy Canyon	7412	N/A
Bone Spring	8479	N/A
Bone Spring "A" Shale	8606	Hydrocarbon
Bone Spring "B" Carb.	8787	N/A
Bone Spring "C" Shale	9246	N/A
1st Bone Spring Ss	9554	N/A
2nd Bone Spring Ss	10139	Hydrocarbon

- 7 Possible mineral bearing formation:
 Shown above

7A OSE Ground Water estimated depth: 312'

- 8 Casing Program: *See COA*

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	BHP (psig)	Mud Weight (ppg)	Collapse SF (1.125)	Burst SF (1.125)	Cumulative Air Weight (lbs)	Tension SF (1.6)
Surface														
0'	781' 850'	781'	17 1/2	13 3/8	48	H-40	ST&C	New	351	8.4	2.17	4.9	37488	8.6
Intermediate														
0'	4535'	4535'	12 1/4	9 5/8	40	J-55	LT&C	New	2041	9	1.21	1.9	181400	2.9
Production														
0'	10092'	10092'	8 3/4	5 1/2	17	P-110	LT&C	New	2434	8.4	1.70	4.4	179894	2.5
10092'	14987'	10582'	8 3/4	5 1/2	17	P-110	BT&C	New	4762	8.4	1.62	2.2	8330	65.5

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
Cotton Draw 9L Federal #3
 Cimarex Energy Co.
 Unit M, Sec 9, 25S-32E
 Lea County, NM

9 Cementing Program:

Surface	Sacks	Yield (cuft/sx)	Weight (ppg)	Cubic Feet	Cement Blend
Lead	380	1.75	13.5	668	Class C + Bentonite + Calcium Chloride + LCM
Tail	200	1.34	14.8	261	Class C + LCM
TOC: 0' 71% Excess Centralizers per Onshore Order 2.III.B.1f					

Intermediate	Sacks	Yield (cuft/sx)	Weight (ppg)	Cubic Feet	Cement Blend
Lead	1070	1.88	12.9	2011	35:65 (poz/C) + Salt + Bentonite + LCM + retarder
Tail	280	1.34	14.8	366	Class C + retarder + LCM
TOC: 0' 81% Excess					

Production	Sacks	Yield (cuft/sx)	Weight (ppg)	Cubic Feet	Cement Blend
Lead	706	2.4	11.9	1694	35:65 (poz/H) + salt + Sodium Metasilicate + Bentonite + Fluid Loss + Dispersant + LCM + Retarder
Tail	1397	1.24	14.5	1733	50:50 (poz/H) + Bentonite + Salt + Fluid Loss + Dispersant + LCM + Retarder

Cement volumes will be adjusted depending on hole size.

TOC: 4035' 25% Excess 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.

10 Pressure Control Equipment:

Exhibit "E-1". A 13 1/2" 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.

See COA 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.

See COA

11 Proposed Mud Circulating System:

Depth	Mud Wt	Visc	Fluid Loss	Type Mud
0' to 781' 856'	8.4	28	NC	FW Spud Mud
781' to 4535'	9	30-32	NC	Brine water
4535' to 14987'	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: No Pilot Hole KOP: 10,092' EOC: 10841'
 Set Surface and Intermediate casing strings. Drill production hole to KOP.
 Continue drilling lateral through the curve to TD. Run prod casing & cement.

13 Testing, Logging and Coring Program:

- A. Mud logging program: 2 man unit from 4535 to TD
- B. Electric logging program: CNL / LDT / CAL / GR, DLL / CAL / GR -- Inter. Csg to TD *See COA*
- 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 **4761.9 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 : **25-35 days**

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

16 Other Facets of Operations:

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

Bone Spring pay will be perforated and stimulated.

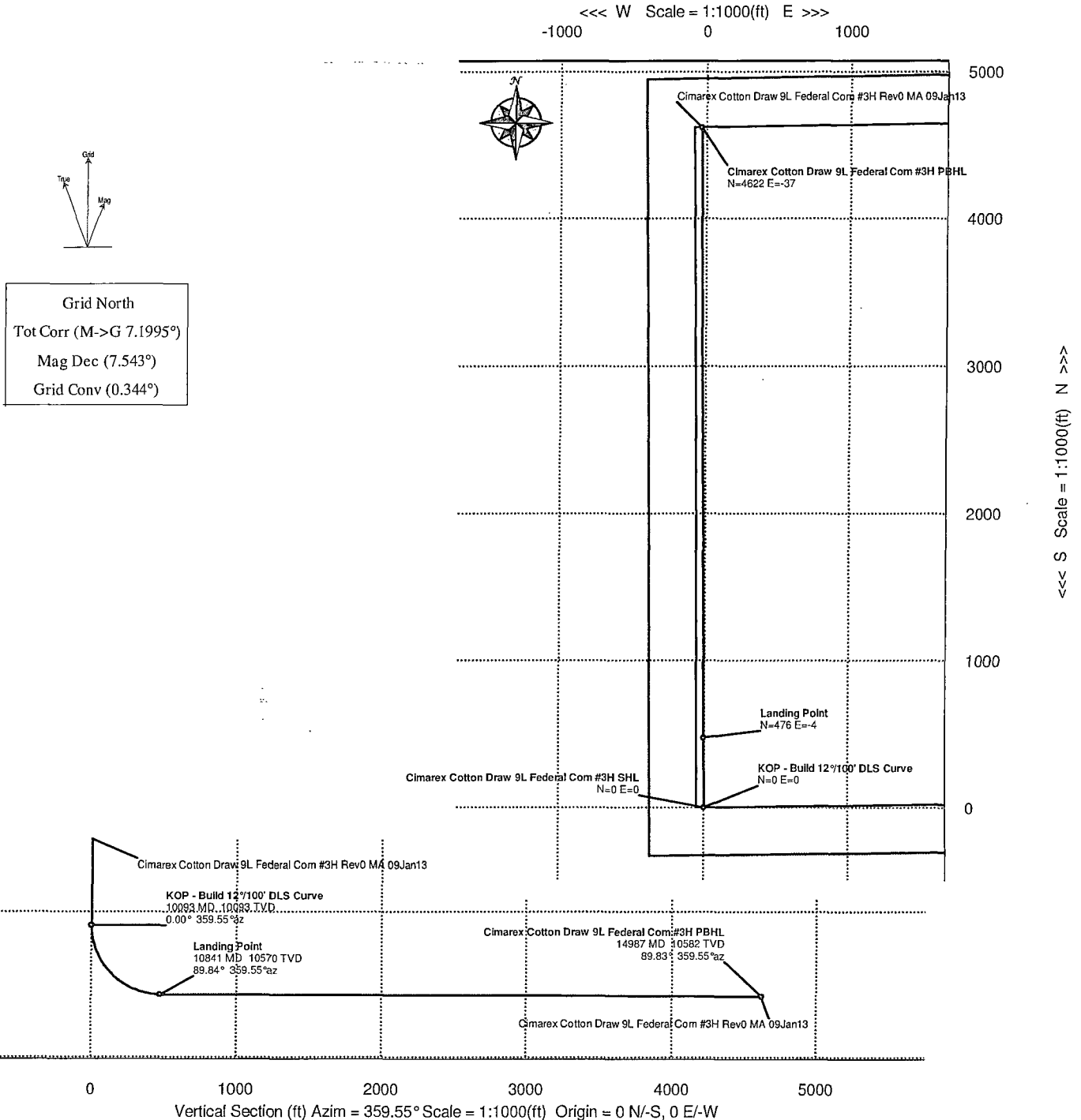
The proposed well will be tested and potential as **Oil**



Cimarex

PATHFINDER
A Schlumberger Company

WELL	Cotton Draw 9L Fed Com #3H	FIELD	NM Lea County	STRUCTURE	Cotton Draw 9L Fed Com #3H
Magnetic Parameters Model: BGGM 2012 Dip: 60.006° Date: January 09, 2013 Surface Location Lat: N 32 0 18.778 Nothing: 414739.50 NLS Grid Conv: 0.344° Mag Dec: 7.543° FS: 48376.5m Lon: W 103 41 14.647 Easting: 741577.30 NLS Scale Fact: 0.9995498					
Miscellaneous Spot: Cotton Draw 9L Fed Com #3H TVD Ref: Ground Level (3429ft above MSL) Plan: Rev0 MA 09Jan13 Srv Date: January 09, 2013					



Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/ S(-)	E(+)/ W(-)	DLS
Cimarex Cotton Draw 9L Federal Com #3H SHL	0.00	0.00	359.55	0.00	0.00	0.00	0.00	
KOP - Build 12°/100' DLS Curve	10092.50	0.00	359.55	10092.50	0.00	0.00	0.00	0.00
Landing Point	10841.22	89.84	359.55	10570.00	476.17	476.15	-3.78	12.00
Cimarex Cotton Draw 9L Federal Com #3H PBHL	14987.34	89.83	359.55	10582.00	4622.26	4622.12	-36.50	0.00



Cimarex Cotton Draw 9L Federal Com #3H Rev0 MA 09Jan13 Proposal
Report 100' Interpolated
(Non-Def Plan)



Report Date: January 09, 2013 - 01:32 PM
Client: Cimarex
Field: NM Lea County (NAD 83)
Structure / Slot: Cimarex Cotton Draw 9L Federal Com #3H / Cimarex Cotton Draw 9L Federal Com #3H
Well: Cimarex Cotton Draw 9L Federal Com #3H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Cimarex Cotton Draw 9L Federal Com #3H Rev0 MA 09Jan13
Survey Date: January 09, 2013
Tort / AHD / DDI / ERD Ratio: 89.853 ° / 4622.262 ft / 5.770 / 0.437
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 8' 18.77771", W 103° 41' 14.54692"
Location Grid N/E Y/X: N 414739.500 ftUS, E 741277.300 ftUS
CRS Grid Convergence Angle: 0.3436 °
Grid Scale Factor: 0.99995488

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 359.548 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: Ground Level
TVD Reference Elevation: 3429.000 ft above MSL
Seabed / Ground Elevation: 3429.000 ft above MSL
Magnetic Declination: 7.543 °
Total Gravity Field Strength: 998.4778mgn (9.80665 Based)
Total Magnetic Field Strength: 48376.491 nT
Magnetic Dip Angle: 60.006 °
Declination Date: January 09, 2013
Magnetic Declination Model: BGM 2012
North Reference: Grid North
Grid Convergence Used: 0.3436 °
Total Corr Mag North->Grid North: 7.1995 °
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 Cotton Draw 9L Federal Com #3H SHL	0.00	0.00	359.55	0.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	N/A
	100.00	0.00	359.55	100.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	200.00	0.00	359.55	200.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	300.00	0.00	359.55	300.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	400.00	0.00	359.55	400.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	500.00	0.00	359.55	500.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	600.00	0.00	359.55	600.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	700.00	0.00	359.55	700.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	800.00	0.00	359.55	800.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	900.00	0.00	359.55	900.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	1000.00	0.00	359.55	1000.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	1100.00	0.00	359.55	1100.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	1200.00	0.00	359.55	1200.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	1300.00	0.00	359.55	1300.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	1400.00	0.00	359.55	1400.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	1500.00	0.00	359.55	1500.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	1600.00	0.00	359.55	1600.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	1700.00	0.00	359.55	1700.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	1800.00	0.00	359.55	1800.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	1900.00	0.00	359.55	1900.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	2000.00	0.00	359.55	2000.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	2100.00	0.00	359.55	2100.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	2200.00	0.00	359.55	2200.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	2300.00	0.00	359.55	2300.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	2400.00	0.00	359.55	2400.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	2500.00	0.00	359.55	2500.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	2600.00	0.00	359.55	2600.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	2700.00	0.00	359.55	2700.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	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 (EW ° ' '')	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)
	2800.00	0.00	359.55	2800.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	2900.00	0.00	359.55	2900.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	3000.00	0.00	359.55	3000.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	3100.00	0.00	359.55	3100.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	3200.00	0.00	359.55	3200.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	3300.00	0.00	359.55	3300.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	3400.00	0.00	359.55	3400.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	3500.00	0.00	359.55	3500.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	3600.00	0.00	359.55	3600.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	3700.00	0.00	359.55	3700.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	3800.00	0.00	359.55	3800.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	3900.00	0.00	359.55	3900.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	4000.00	0.00	359.55	4000.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	4100.00	0.00	359.55	4100.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	4200.00	0.00	359.55	4200.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	4300.00	0.00	359.55	4300.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	4400.00	0.00	359.55	4400.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	4500.00	0.00	359.55	4500.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	4600.00	0.00	359.55	4600.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	4700.00	0.00	359.55	4700.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	4800.00	0.00	359.55	4800.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	4900.00	0.00	359.55	4900.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	5000.00	0.00	359.55	5000.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	5100.00	0.00	359.55	5100.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	5200.00	0.00	359.55	5200.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	5300.00	0.00	359.55	5300.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	5400.00	0.00	359.55	5400.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	5500.00	0.00	359.55	5500.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	5600.00	0.00	359.55	5600.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	5700.00	0.00	359.55	5700.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	5800.00	0.00	359.55	5800.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	5900.00	0.00	359.55	5900.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	6000.00	0.00	359.55	6000.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	6100.00	0.00	359.55	6100.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	6200.00	0.00	359.55	6200.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	6300.00	0.00	359.55	6300.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	6400.00	0.00	359.55	6400.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	6500.00	0.00	359.55	6500.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	6600.00	0.00	359.55	6600.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	6700.00	0.00	359.55	6700.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	6800.00	0.00	359.55	6800.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	6900.00	0.00	359.55	6900.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	7000.00	0.00	359.55	7000.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	7100.00	0.00	359.55	7100.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	7200.00	0.00	359.55	7200.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	7300.00	0.00	359.55	7300.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	7400.00	0.00	359.55	7400.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	7500.00	0.00	359.55	7500.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	7600.00	0.00	359.55	7600.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	7700.00	0.00	359.55	7700.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	7800.00	0.00	359.55	7800.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	7900.00	0.00	359.55	7900.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	8000.00	0.00	359.55	8000.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	8100.00	0.00	359.55	8100.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	8200.00	0.00	359.55	8200.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	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	359.55	8300.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	8400.00	0.00	359.55	8400.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	8500.00	0.00	359.55	8500.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	8600.00	0.00	359.55	8600.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	8700.00	0.00	359.55	8700.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	8800.00	0.00	359.55	8800.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	8900.00	0.00	359.55	8900.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	9000.00	0.00	359.55	9000.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	9100.00	0.00	359.55	9100.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	9200.00	0.00	359.55	9200.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	9300.00	0.00	359.55	9300.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	9400.00	0.00	359.55	9400.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	9500.00	0.00	359.55	9500.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	9600.00	0.00	359.55	9600.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	9700.00	0.00	359.55	9700.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	9800.00	0.00	359.55	9800.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	9900.00	0.00	359.55	9900.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
KOP - Build 12"/100' DLS Curve	10000.00	0.00	359.55	10000.00	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	10092.50	0.00	359.55	10092.50	0.00	0.00	0.00	414739.50	741277.30	N 32 8 18.78	W 103 41 14.55	0.00	0.00	0.00
	10100.00	0.90	359.55	10100.00	0.06	0.06	0.00	414739.56	741277.30	N 32 8 18.78	W 103 41 14.55	0.06	359.55	12.00
	10200.00	12.90	359.55	10199.09	12.05	12.05	-0.10	414751.55	741277.20	N 32 8 18.90	W 103 41 14.55	12.05	359.55	12.00
	10300.00	24.90	359.55	10293.53	44.38	44.38	-0.35	414783.88	741276.95	N 32 8 19.22	W 103 41 14.55	44.38	359.55	12.00
	10400.00	36.90	359.55	10379.18	95.64	95.63	-0.76	414835.13	741276.54	N 32 8 19.72	W 103 41 14.55	95.64	359.55	12.00
	10500.00	48.90	359.55	10452.31	163.58	163.57	-1.30	414903.07	741276.00	N 32 8 20.40	W 103 41 14.55	163.58	359.55	12.00
	10600.00	60.90	359.55	10509.71	245.24	245.23	-1.95	414984.72	741275.35	N 32 8 21.20	W 103 41 14.55	245.24	359.55	12.00
	10700.00	72.89	359.55	10548.88	337.05	337.04	-2.68	415076.53	741274.62	N 32 8 22.11	W 103 41 14.55	337.05	359.55	12.00
	10800.00	84.89	359.55	10568.11	435.00	434.99	-3.45	415174.47	741273.85	N 32 8 23.08	W 103 41 14.56	435.00	359.55	12.00
Landing Point	10841.22	89.84	359.55	10570.00	476.17	476.15	-3.78	415215.63	741273.52	N 32 8 23.49	W 103 41 14.56	476.17	359.55	12.00
	10900.00	89.84	359.55	10570.16	534.94	534.93	-4.25	415274.40	741273.05	N 32 8 24.07	W 103 41 14.56	534.94	359.55	0.00
	11000.00	89.84	359.55	10570.44	634.94	634.92	-5.04	415374.39	741272.26	N 32 8 25.06	W 103 41 14.56	634.94	359.55	0.00
	11100.00	89.84	359.55	10570.72	734.94	734.92	-5.84	415474.38	741271.46	N 32 8 26.05	W 103 41 14.56	734.94	359.55	0.00
	11200.00	89.84	359.55	10571.01	834.94	834.92	-6.63	415574.38	741270.67	N 32 8 27.04	W 103 41 14.57	834.94	359.55	0.00
	11300.00	89.84	359.55	10571.29	934.94	934.91	-7.42	415674.37	741269.88	N 32 8 28.03	W 103 41 14.57	934.94	359.55	0.00
	11400.00	89.84	359.55	10571.57	1034.94	1034.91	-8.21	415774.36	741269.09	N 32 8 29.02	W 103 41 14.57	1034.94	359.55	0.00
	11500.00	89.84	359.55	10571.85	1134.94	1134.91	-9.01	415874.35	741268.29	N 32 8 30.01	W 103 41 14.57	1134.94	359.55	0.00
	11600.00	89.84	359.55	10572.13	1234.94	1234.90	-9.80	415974.34	741267.50	N 32 8 31.00	W 103 41 14.57	1234.94	359.55	0.00
	11700.00	89.84	359.55	10572.42	1334.94	1334.90	-10.59	416074.34	741266.71	N 32 8 31.99	W 103 41 14.58	1334.94	359.55	0.00
	11800.00	89.84	359.55	10572.70	1434.94	1434.89	-11.38	416174.33	741265.92	N 32 8 32.98	W 103 41 14.58	1434.94	359.55	0.00
	11900.00	89.84	359.55	10572.98	1534.94	1534.89	-12.18	416274.32	741265.12	N 32 8 33.97	W 103 41 14.58	1534.94	359.55	0.00
	12000.00	89.84	359.55	10573.27	1634.94	1634.89	-12.97	416374.31	741264.33	N 32 8 34.96	W 103 41 14.58	1634.94	359.55	0.00
	12100.00	89.84	359.55	10573.55	1734.94	1734.88	-13.76	416474.30	741263.54	N 32 8 35.95	W 103 41 14.59	1734.94	359.55	0.00
	12200.00	89.84	359.55	10573.84	1834.94	1834.88	-14.55	416574.29	741262.75	N 32 8 36.93	W 103 41 14.59	1834.94	359.55	0.00
	12300.00	89.84	359.55	10574.13	1934.94	1934.88	-15.34	416674.29	741261.96	N 32 8 37.92	W 103 41 14.59	1934.94	359.55	0.00
	12400.00	89.84	359.55	10574.41	2034.94	2034.87	-16.13	416774.28	741261.17	N 32 8 38.91	W 103 41 14.59	2034.94	359.55	0.00
	12500.00	89.84	359.55	10574.70	2134.94	2134.87	-16.92	416874.27	741260.38	N 32 8 39.90	W 103 41 14.59	2134.94	359.55	0.00
	12600.00	89.84	359.55	10574.99	2234.94	2234.87	-17.71	416974.26	741259.59	N 32 8 40.89	W 103 41 14.60	2234.94	359.55	0.00
	12700.00	89.83	359.55	10575.28	2334.94	2334.86	-18.50	417074.25	741258.80	N 32 8 41.88	W 103 41 14.60	2334.94	359.55	0.00
	12800.00	89.83	359.55	10575.56	2434.94	2434.86	-19.29	417174.24	741258.01	N 32 8 42.87	W 103 41 14.60	2434.94	359.55	0.00
	12900.00	89.83	359.55	10575.85	2534.94	2534.86	-20.08	417274.24	741257.22	N 32 8 43.86	W 103 41 14.60	2534.94	359.55	0.00
	13000.00	89.83	359.55	10576.14	2634.93	2634.85	-20.87	417374.23	741256.43	N 32 8 44.85	W 103 41 14.61	2634.93	359.55	0.00
	13100.00	89.83	359.55	10576.43	2734.93	2734.85	-21.66	417474.22	741255.64	N 32 8 45.84	W 103 41 14.61	2734.93	359.55	0.00
	13200.00	89.83	359.55	10576.72	2834.93	2834.85	-22.45	417574.21	741254.85	N 32 8 46.83	W 103 41 14.61	2834.93	359.55	0.00
	13300.00	89.83	359.55	10577.01	2934.93	2934.84	-23.23	417674.20	741254.07	N 32 8 47.82	W 103 41 14.61	2934.93	359.55	0.00
	13400.00	89.83	359.55	10577.31	3034.93	3034.84	-24.02	417774.20	741253.28	N 32 8 48.81	W 103 41 14.61	3034.93	359.55	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)
	13500.00	89.83	359.55	10577.60	3134.93	3134.83	-24.81	417874.19	741252.49	N 32 8 49.80	W 103 41 14.62	3134.93	359.55	0.00
	13600.00	89.83	359.55	10577.89	3234.93	3234.83	-25.60	417974.18	741251.70	N 32 8 50.79	W 103 41 14.62	3234.93	359.55	0.00
	13700.00	89.83	359.55	10578.18	3334.93	3334.83	-26.39	418074.17	741250.92	N 32 8 51.78	W 103 41 14.62	3334.93	359.55	0.00
	13800.00	89.83	359.55	10578.48	3434.93	3434.82	-27.17	418174.16	741250.13	N 32 8 52.77	W 103 41 14.62	3434.93	359.55	0.00
	13900.00	89.83	359.55	10578.77	3534.93	3534.82	-27.96	418274.15	741249.34	N 32 8 53.76	W 103 41 14.63	3534.93	359.55	0.00
	14000.00	89.83	359.55	10579.07	3634.93	3634.82	-28.75	418374.15	741248.55	N 32 8 54.75	W 103 41 14.63	3634.93	359.55	0.00
	14100.00	89.83	359.55	10579.36	3734.93	3734.81	-29.53	418474.14	741247.77	N 32 8 55.74	W 103 41 14.63	3734.93	359.55	0.00
	14200.00	89.83	359.55	10579.66	3834.93	3834.81	-30.32	418574.13	741246.98	N 32 8 56.73	W 103 41 14.63	3834.93	359.55	0.00
	14300.00	89.83	359.55	10579.95	3934.93	3934.81	-31.11	418674.12	741246.20	N 32 8 57.71	W 103 41 14.63	3934.93	359.55	0.00
	14400.00	89.83	359.55	10580.25	4034.93	4034.80	-31.89	418774.11	741245.41	N 32 8 58.70	W 103 41 14.64	4034.93	359.55	0.00
	14500.00	89.83	359.55	10580.55	4134.93	4134.80	-32.68	418874.10	741244.62	N 32 8 59.69	W 103 41 14.64	4134.93	359.55	0.00
	14600.00	89.83	359.55	10580.84	4234.93	4234.80	-33.46	418974.10	741243.84	N 32 9 0.68	W 103 41 14.64	4234.93	359.55	0.00
	14700.00	89.83	359.55	10581.14	4334.93	4334.79	-34.25	419074.09	741243.05	N 32 9 1.67	W 103 41 14.64	4334.93	359.55	0.00
	14800.00	89.83	359.55	10581.44	4434.93	4434.79	-35.03	419174.08	741242.27	N 32 9 2.66	W 103 41 14.64	4434.93	359.55	0.00
	14900.00	89.83	359.55	10581.74	4534.93	4534.79	-35.82	419274.07	741241.48	N 32 9 3.65	W 103 41 14.65	4534.93	359.55	0.00
Cimarex Cotton Draw 9L Federal Com #3H PBHL	14987.34	89.83	359.55	10582.00	4622.26	4622.12	-36.50	419361.40	741240.80	N 32 9 4.52	W 103 41 14.65	4622.26	359.55	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	14987.336	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Cotton Draw 9L Federal Com #3H

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

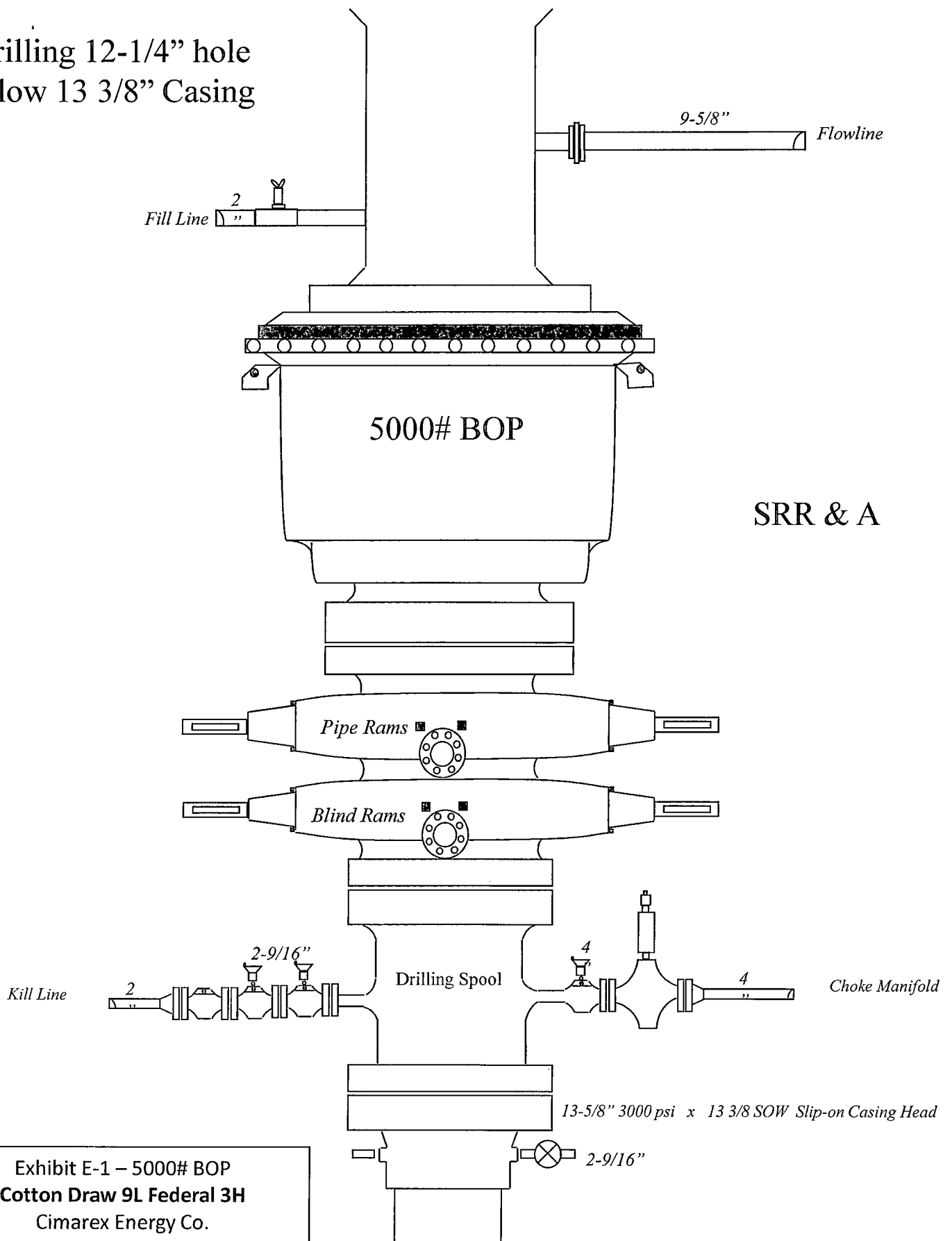


Exhibit E-1 – 5000# BOP
Cotton Draw 9L Federal 3H
Cimarex Energy Co.
9-25S-32E
SHL 330 FSL & 380 FWL
BHL 330 FNL & 380 FWL
Lea County, NM

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

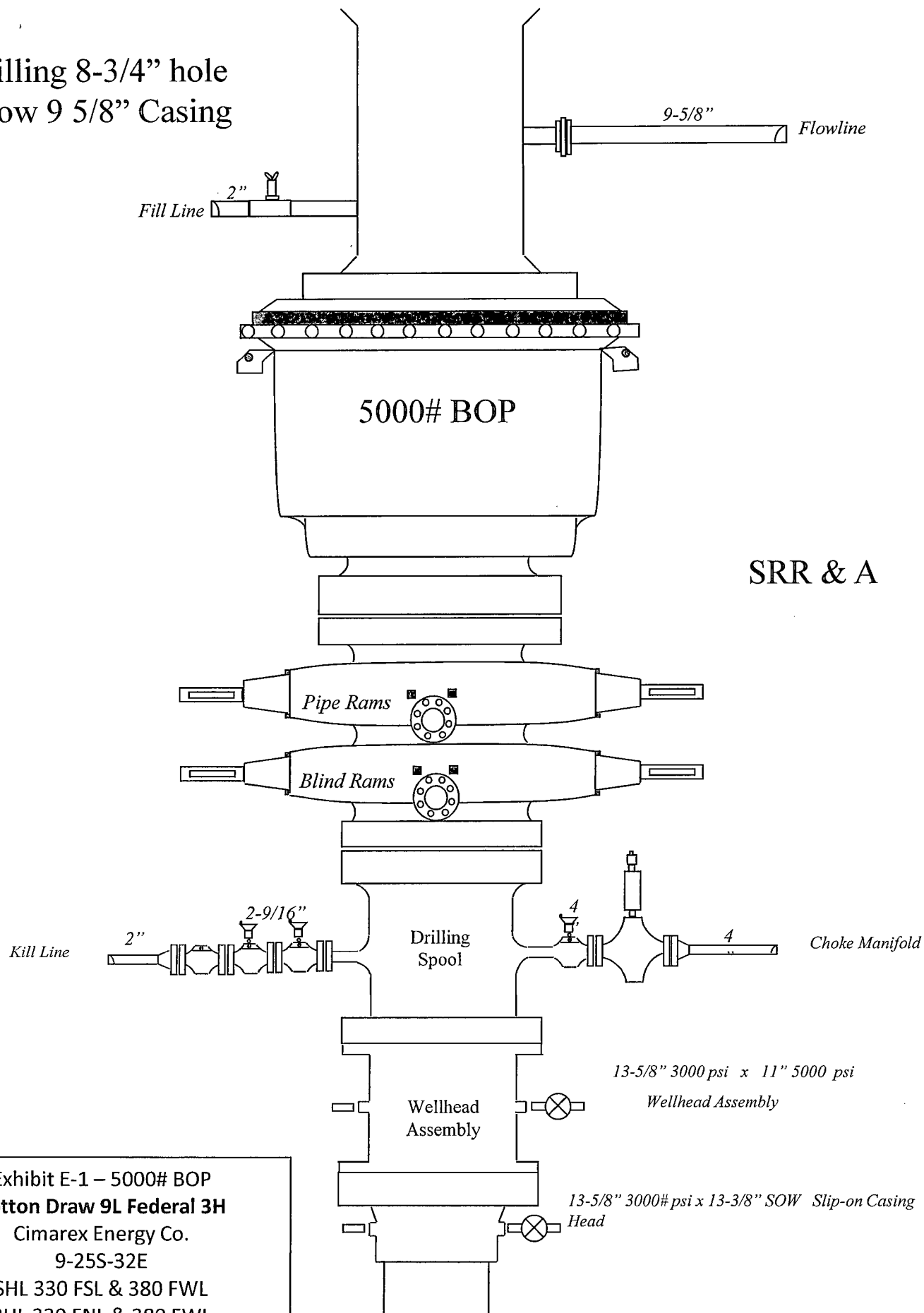


Exhibit E-1 – 5000# BOP
Cotton Draw 9L Federal 3H
Cimarex Energy Co.
9-25S-32E
SHL 330 FSL & 380 FWL
BHL 330 FNL & 380 FWL
Lea County, NM

Drilling Operations
Choke Manifold
5M Service

Exhibit E-1 – Choke Manifold Diagram
Cotton Draw 9L Federal 3H
Cimarex Energy Co.
9-25S-32E
SHL 330 FSL & 380 FWL
BHL 330 FNL & 380 FWL
Lea County, NM

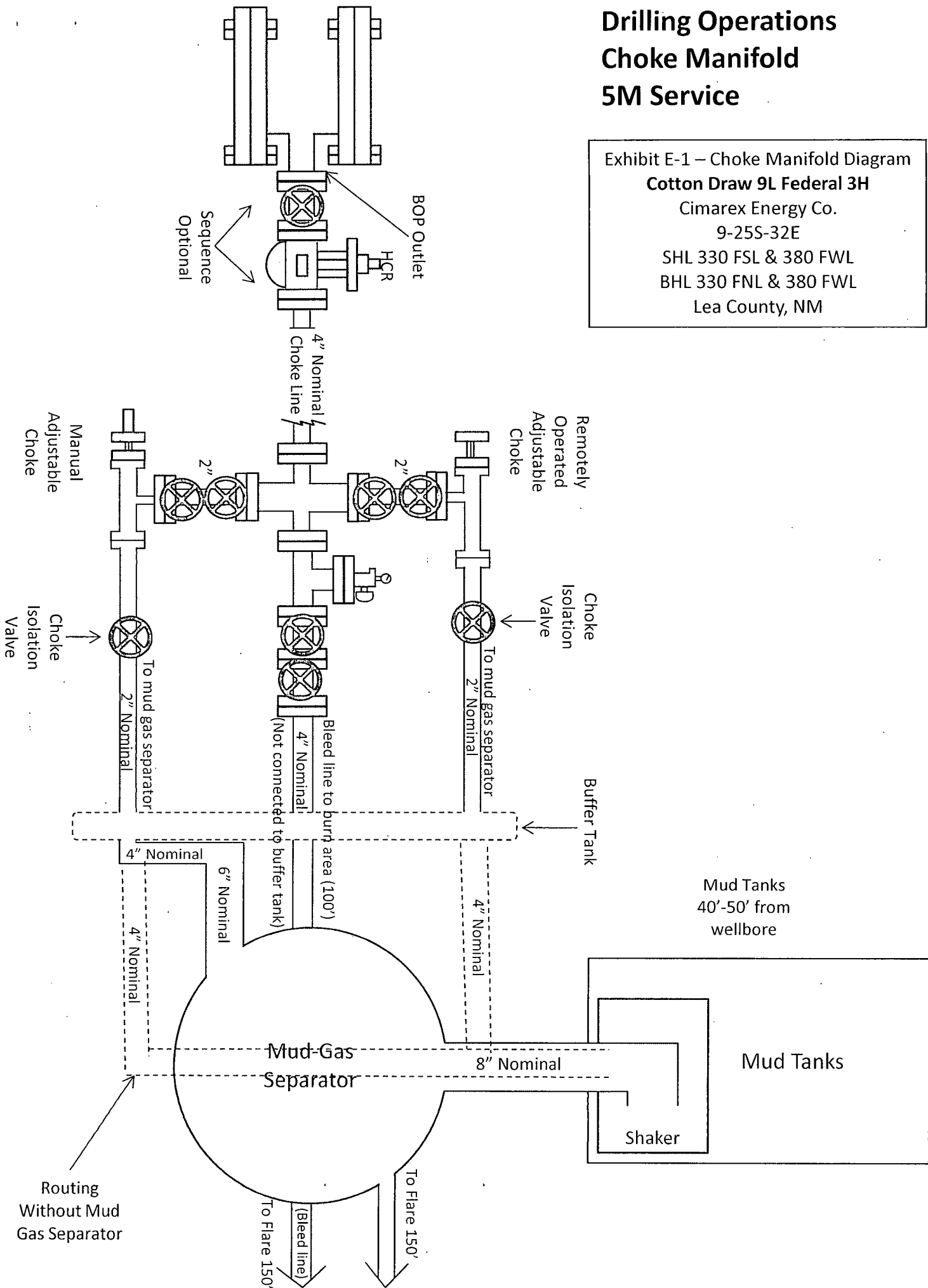


Exhibit F-1 – Co-Flex Hose Hydrostatic Test

Cotton Draw 9L Federal 3H

Cimarex Energy Co.

9-25S-32E

SHL 330 FSL & 380 FWL

BHL 330 FNL & 380 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. J. J. J.

Approved:

Kevin J. J.

Exhibit F-1 – Co-Flex Hose Hydrostatic Test
Cotton Draw 9L Federal 3H
 Cimarex Energy Co.
 9-25S-32E
 SHL 330 FSL & 380 FWL
 BHL 330 FNL & 380 FWL
 Lea County, NM



Midwest Hose
& Specialty Inc.

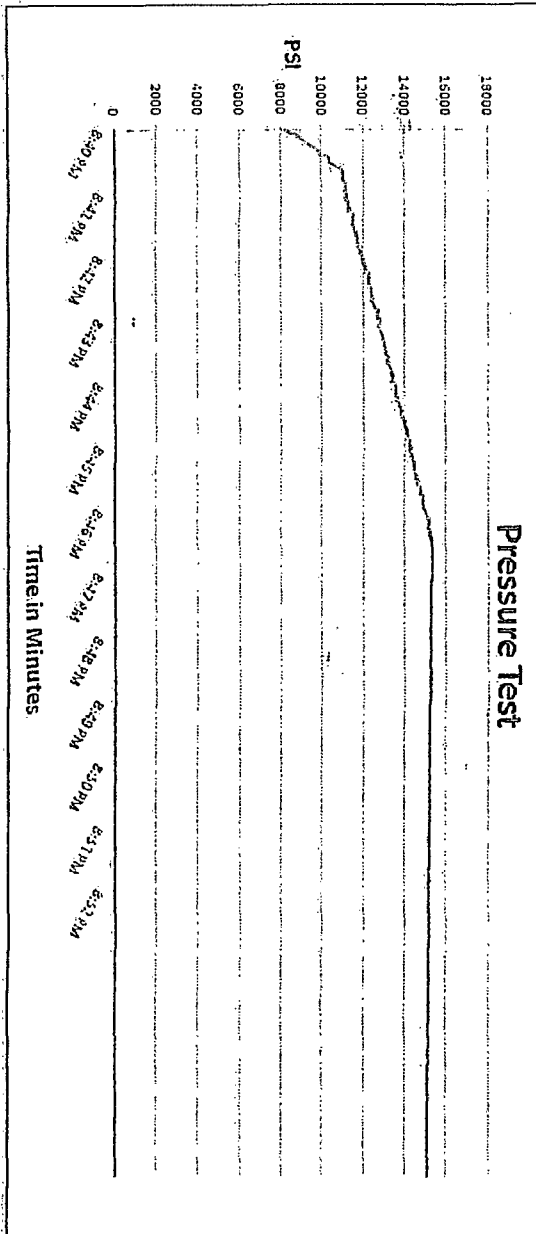
Internal Hydrostatic Test Graph

Customer: Houston

Pick Ticket #: 94260

March 3, 2011

Hose Specifications		Verification	
Hose Type	C&K	Length	45'
I.D.	4"	Type of Fittings	4.1/16.10K
Working Pressure	10000 PSI	Die Size	6.38"
Burst Pressure	Standard Safety Multiplier Applies	Hose Serial #	5564
		Caulking Method	Swage
		Final O.D.	6.25"
		Hose Assembly Serial #	79793



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

Test Pressure: 15000 PSI
 Time Held at Test Pressure: 11 Minutes

Actual Burst Pressure

Peak Pressure: 15083 PSI

Tested By: *Zoe McConnell*

Approved By: *Kim Thomas*

Exhibit F – Co-Flex Hose
Cotton Draw 9L Federal 3H

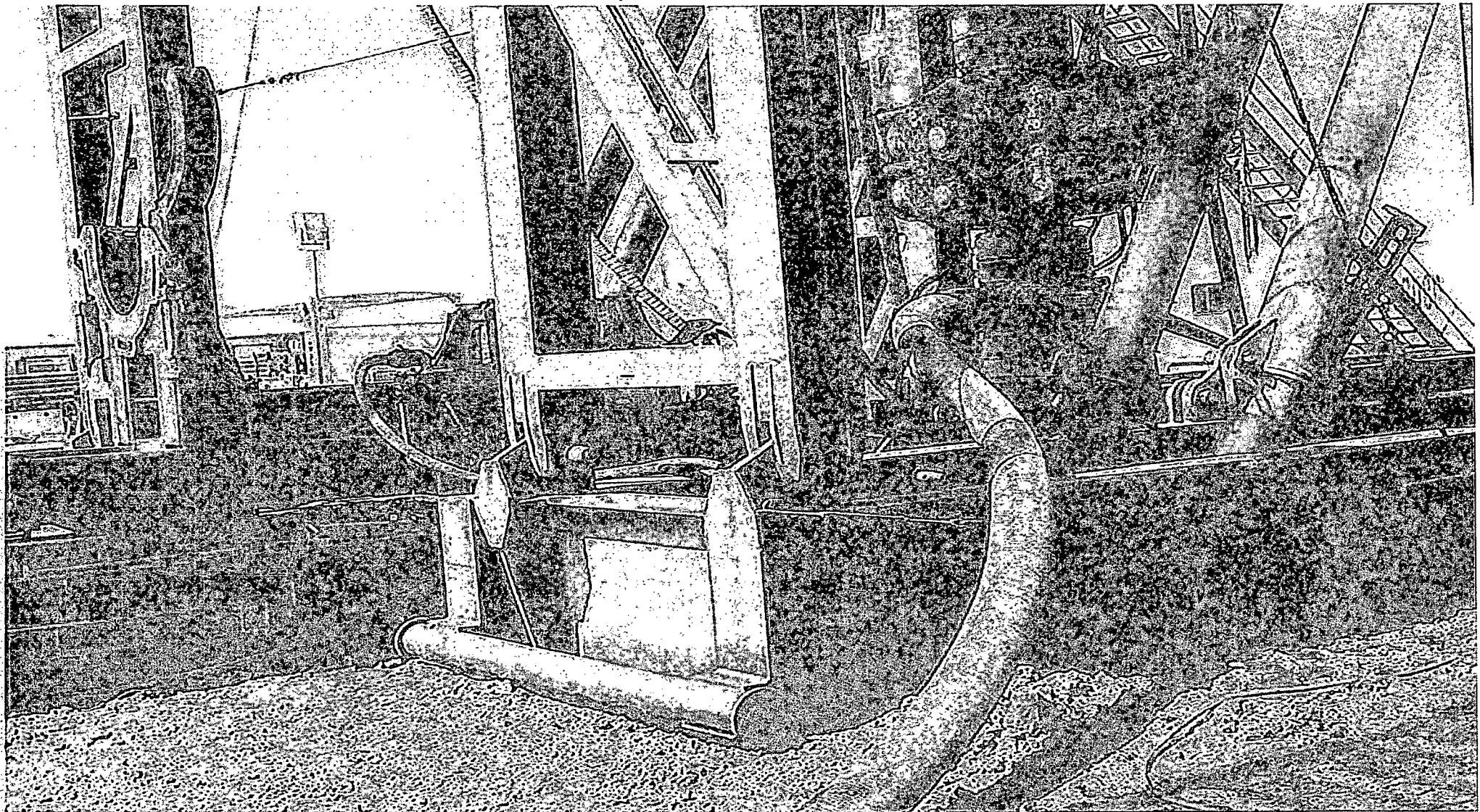
Cimarex Energy Co.

9-25S-32E

SHL 330 FSL & 380 FWL

BHL 330 FNL & 380 FWL

Lea County, NM





Midwest Hose
& Specialty, Inc.

Exhibit F -3- Co-Flex Hose
Cotton Draw 9L Federal 3H
Cimarex Energy Co.
9-25S-32E
SHL 330 FSL & 380 FWL
BHL 330 FNL & 380 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
Cotton Draw 9L Federal 3H
Cimarex Energy Co.
9-25S-32E
SHL 330 FSL & 380 FWL
BHL 330 FNL & 380 FWL
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

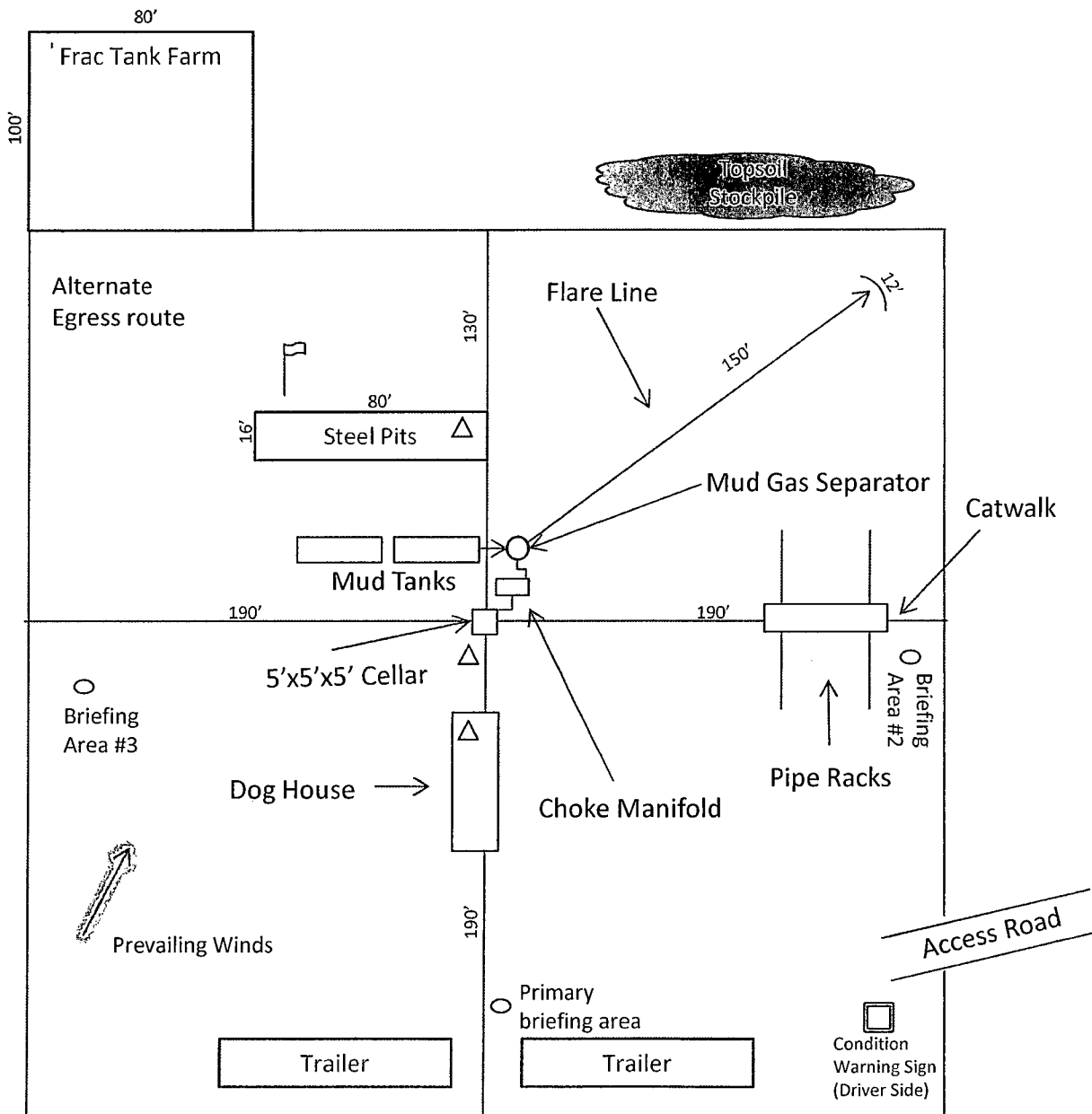
Comments:

Approved:

David Garcia

Date:

3/8/2011



Wind Direction Indicators
(wind sock or streamers)



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



Briefing Areas

N



Exhibit D – Rig Diagram Cotton Draw 9L Federal 3H

Cimarex Energy Co.

9-25S-32E

SHL 330 FSL & 380 FWL

BHL 330 FNL & 380 FWL

Lea County, NM