HOBBS OCD

14-584

OCD Hobbs

SEP 10 2014

NM OIL CONSERVATION
ARTESIA DISTRICT

AUG 28 2014

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Form 3160-3
(March 2012)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
SHL: NMLC0063228; BHL: NMNM086154

6. If Indian, Allotee or Tribe Name

1a. Type of Work: [X] DRILL [ ] REENTER

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

1b. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other [X] Single Zone [ ] Multiple Zone

8. Lease Name and Well No. (39851)
Triste Draw 25 Fed Com #8H

2. Name of Operator
Cimarex Energy Co. (215099)

9. API Well No.
30-025-42102

3a. Address
202 S. Cheyenne Ave., Ste 1000, Tulsa, OK 74103

3b. Phone No. *(include area code)*
918-585-1100

10. Field and Pool, or Exploratory
Triste Draw Bone Spring/ Wildcat (96603)

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

At Surface: 330 FSL & 1310 FWL

At proposed prod. Zone: 330 FNL & 2200 FWL *Bone Spring*

11. Sec,. T. R. M. or Blk. and Survey and Area
25, 23S, 32E

14. Distance in miles and direction from nearest town or post office*
28 miles NW of Jal, NM

12. County or Parish: Lea

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
330	NMLC0063228=1600.00 acres NMNM086154=280.00 acres	160.00

18. Distance from proposed* location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. on File
20' from the #9H	Pilot Hole TD: N/A 14,411 MD 9,800 TVD	NM2575; NMB000835

21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
3680 GR	5/26/14	35 days

24. Attachments

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

1. Well plat certified by a registered surveyor
2. A Drilling Plan
3. A Surface Use Plan (if the location is on National Forest System Lands , the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator Certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature	Name *(Printed/Typed)*	Date
	Terri Stathem	2/28/14

Title: Regulatory Compliance

Approved By *(Signature)* James A. Amos	Name (Printed/Typed)	Date AUG 22 2014
Title Field Manager	Office Carlsbad Field Office	

Application approval does not warrant or certify that the applicant h 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, m partment or agency of the United States any false, fictitious, or fraudulent statements or representatic

E-PERMITTING - - New Well
Comp_____ P&A_____ TA_____
CSNG_____ Loc Chng_____
ReComp_____ Add New Well_____
Cancl Well_____ Create Pool_____

(Continued on page 2)

(Instructions on page 2)

Carlsbad Controlled Water Basin

Approval Subject to General Requirements & Special Stipulations Attached

SEE ATTACHED FOR CONDITIONS OF APPROVAL

SEP 16 2014

Operator Certification Statement
Triste Draw 25 Fed Com #8H
Cimarex Energy Co.
UL: M, Sec. 25, 23S, 32E
Lea Co., NM

HOBBS OCD

SEP 10 2014

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Operator's Representative
Cimarex Energy Co. of Colorado
600 N. Marienfeld St., Ste. 600
Midland, TX 79701
Office Phone: (432) 571-7800

CERTIFICATION: I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 28 day of February, 2014

NAME: Aricka Easterling

Aricka Easterling
TITLE: Regulatory Compliance
ADDRESS: 202 S. Cheyenne Ave., Ste 1000, Tulsa, OK 74103
TELEPHONE: 918-585-1100
EMAIL: AEasterling@cimarex.com
Field Representative: Same as above

Application to Drill
Triste Draw 25 Fed Com #8H
Cimarex Energy Co.
UL: M, Sec. 25, 23S, 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 FSL & 1310 FWL
BHL 330 FNL & 2200 FWL

2. Elevation Above Sea Level: 3,680' 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: 14,411 MD 9,800 TVD Pilot Hole TD: N/A

6. Estimated Tops of Geological Markers:

Formation	Est Top	Bearing
Rustler	1220	N/A
Salt	2450	N/A
Castille	3600	N/A
Base last Salt	4780	N/A
Lamar	4990	N/A
Bell Canyon	5040	Hydrocarbons
Cherry Canyon	6150	N/A
Brushy Canyon	7200	Hydrocarbons
Bone Spring	8850	Hydrocarbons
Avalon Shale	9450	Hydrocarbons

7. Possible Mineral Bearing Formation: Shown above

7A. OSE Ground Water Estimated Depth: 475'

8. Casing Program:

See COA

Name	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	Conditon	BHP (psig)	Anticipated Mud Weight (ppg)	Collapse SF at Full Evacuation(1.125)	Collapse SF at 1/3 Evacuation(1.125)	Burst SF (1.125)	Cumulative Air Weight	Cumulative Bouyed Weight (lbs)	Bouyant Tension SF (1.8)
Surface	0	~~1270~~ 1820	1270	17 1/2	13-3/8"	48.00	H-40	ST&C	New	548	8.3	1.35		3.16	60,960	53,235	6.05
Intermediate	0	5000	5000	12 1/4	9-5/8"	40.00	J-55	LT&C	New	2600	10.0		1.51	1.52	200,000	169,466	3.07
Production	0	9323	9323	8 3/4	5-1/2"	17.00	L-80	LT&C	New	4363	9.0	1.44		1.77	166,600	143,708	2.35
Production	9323	14411	9800	8 3/4	5-1/2"	17.00	L-80	BT&C	New	4586	9.0	1.37		1.69	8,109	6,995	56.76

Note: Operator may drill a 8-1/2" OH from end of curve to TD of the well. This is to reduce the need to ream the conventionally drilled curve to run a RSS assembly into the lateral.

Application to Drill
Triste Draw 25 Fed Com #8H
Cimarex Energy Co.
UL: M, Sec. 25, 23S, 32E
Lea Co., NM

8A. Casing Design and Casing Loading Assumptions:

Surface	Tension	A 1.8 design factor with effects of buoyancy: 8.30 ppg.
	Collapse	A 1.125 design factor with full internal evacuation and a collapse force equal to a 8.30 ppg mud gradient.
	Burst	A 1.125 design with a surface pressure equal to the fracture gradient at setting depth less gas gradient to surface.
Intermediate	Tension	A 1.8 design factor with effects of buoyancy: 10.00 ppg.
	Collapse	A 1.125 design factor evacuated 1/3 TVD of next casing string with a collapse force equal to a 10.00 ppg mud gradient.
	Burst	A 1.125 design with a surface pressure equal to the fracture gradient at setting depth less gas gradient to surface.
Production and\or Production Completion System	Tension	A 1.8 design factor with effects of buoyancy: 9.00 ppg.
	Collapse	A 1.125 design factor with full internal evacuation of next casing string with a collapse force equal to a 9.00 ppg mud gradient.
	Burst	A 1.125 design with a surface pressure equal to the fracture gradient at setting depth less gas gradient to surface.

9. Cementing Program:

Casing Type	Type	Sacks	Yield	Weight	Cubic Feet	Cement Blend
Surface	Lead	605	1.75	13.50	1058	Class C + Bentonite + Calcium Chloride + LCM, 8.829 gps water
	Tail	165	1.34	14.80	220	Class C + LCM, 6.320 gps water
	TOC: 0		**45% Excess**			**Centralizers per Onshore Order 2.III.B.1f**
Intermediate	Lead	895	1.88	12.90	1681	35:65 (Poz:C) + Salt + Bentonite + LCM + Retarder, 9.650 gps water
	Tail	292	1.34	14.80	391	Class C + Retarder + LCM, 6.320 gps water
	TOC: 0		**44% Excess**			
Production	Lead	525	2.40	11.90	1258	35:65 (poz/H) + Salt + Sodium Metasilcate + Bentonite + Fluid Loss + Dispersant + LCM + Retarder, 13.800 gps water
	Tail	1253	1.24	14.50	1553	50:50(Poz:H) + Bentonite + Salt + Fluid Loss + Dispersant + LCM + Retarder, 5.550 gps water
	TOC: 4800		**16% 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.**

See COA

Cement volumes will be adjusted depending on hole size

9a. Proposed Drilling Plan:

Pilot Hole TD: No Pilot KOP: 9,323' EOC: 10,073'

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

10. Pressure Control Equipment:

Exhibit "E-1". A BOP consisting of two rams with blind rams and pipe rams, and one annular preventer. Below the surface casing, a 2M system will be used. Below the intermediate casing, a 3M system will be used. See attachments for BOP and choke manifold diagrams. An accumulator that meets the requirements in Onshore Order #2 for the pressure rating of the BOP stack. A Rotating head may be installed as needed. A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

BOP and associated equipment will be installed, used, maintained, and tested in a manner necessary to assure well control and shall be in place and operational prior to drilling the surface casing shoe. The Annular Preventer shall be functioned at least weekly. The pipe and blind rams will be operated each trip. No abnormal pressure or temperature is expected while drilling.

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

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

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

Application to Drill
Triste Draw 25 Fed Com #8H
Cimarex Energy Co.
UL: M, Sec. 25, 23S, 32E
Lea Co., NM

11. Proposed Mud Circulating System:

Depth	Mud Weight	Visc	Fluid Loss	Type Mud
0' to 1320'	7.80 - 8.30	28	NC	FW Spud Mud
1320' to 5000'	9.50 - 10.00	30-32	NC	Brine Water
5000' to 14308'	8.50 - 9.00	30-32	NC	FW/Cut Brine

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs.

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

12. Testing, Logging and Coring Program:

A. Mud logging program: 2 man unit from 5000 to TD
B. Electric logging program: CNL / LDT / CAL / GR, DLL /GR -- Inter. Csg to TD
CNL /GR -- Surf to Inter. Csg
C. No DSTs or cores are planned at this time
D.CBL w/ CCL from as far as gravity will let it fall to TOC

13. Potential Hazards:

No abnormal pressures or temperatures are expected. In accordance with Onshore Order 6, Cimarex does not anticipate that there will be enough H_2S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of an "H_2S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H_2S Safety package on all wells, attached is an "H_2S 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: 4410 psi Estimated BHT: 159°

14. Construction and Drilling:

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

15. Other Facets of Operations:

If production casing is run an additional 30 days will be required to complete and construct surface facilities.
Bone Spring pay will be perforated and stimulated.
The proposed well will be tested and potentialed as **Oil**

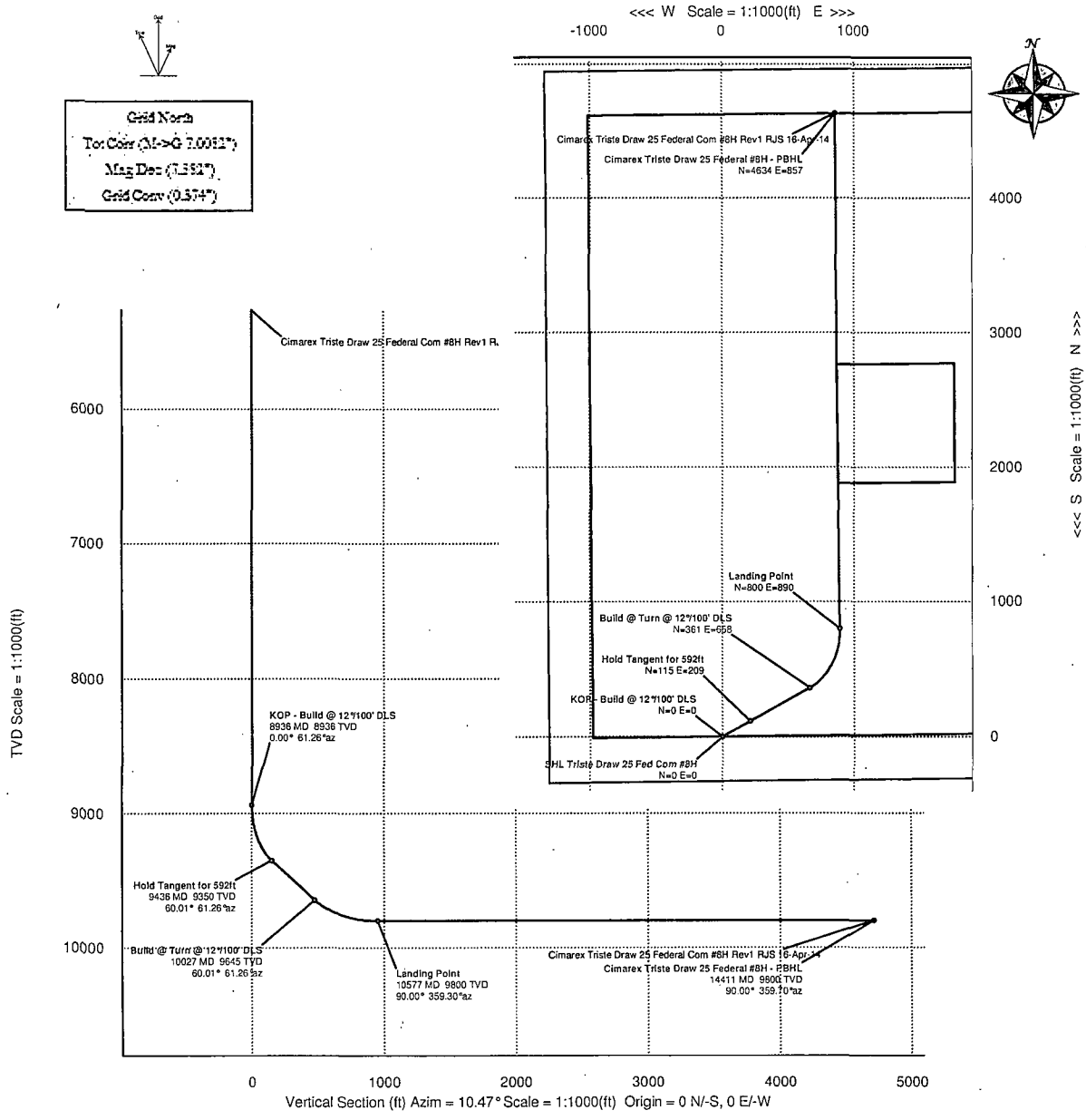
CIMAREX

Cimarex

PATHFINDER
A Schlumberger Company

WELL	FIELD	STRUCTURE
Triste Draw 25 Federal Com #8H	NM Lea County	TBD

Magnetic Parameters				Surface Location		NAD83 New Mexico State Plane, Eastern Zone, US Foot			Miscellaneous	
Model: BGGM 2013	Dip: 60.133°	Date: April 15, 2014		Lat: N 32 16 9.672	Northing: 462430.80 flUS	Grid Conv: 0.374°			Site: Triste Draw 25 Federal Com #8H	RKB Ref: Unknown(3680ft above MSL)
	Mag Dec: 7.382°	FS: 48330.3nT		Lon: W 103 37 57.496	Easting: 757909.70 flUS	Scale Fact: 0.99996281			Plan: Rev1 RJS 16-Apr-14	Srvy Date: April 16, 2014



Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+) / S(-)	E(+) / W(-)	DLS
SHL Triste Draw 25 Fed Com #8H	0.00	0.00	61.26	0.00	0.00	0.00	0.00	
KOP - Build @ 12°/100' DLS	8936.00	0.00	61.26	8936.00	0.00	0.00	0.00	0.00
Hold Tangent for 592ft	9436.08	60.01	61.26	9349.54	150.96	114.82	209.39	12.00
Avalon Shale	9637.07	60.01	61.26	9450.00	261.01	198.51	362.02	0.00
Build @ Turn @ 12°/100' DLS	10027.35	60.01	61.26	9645.08	474.70	361.03	658.42	0.00
Landing Point	10577.15	90.00	359.30	9800.00	948.45	800.00	890.00	12.00
Cimarex Triste Draw 25 Federal #8H - PBHL	14411.48	90.00	359.70	9800.00	4712.69	4634.18	856.63	0.01

1st take depending on shows. per S. Heitsman 8-19-14 CAW

Cimarex Triste Draw 25 Federal Com #8H Rev1 RJS 16-Apr-14 Proposal
Report 100' Interpolated
(Non-Def Plan)

PATHFINDER
A Schlumberger Company

Report Date:	April 16, 2014 - 09:14 AM	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	Cimarex	**Vertical Section Azimuth:**	10.473 ° (Grid North)
Field:	NM Lea County (NAD 83)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	TBD / Triste Draw 25 Federal Com #8H	**TVD Reference Datum:**	Unknown
Well:	Triste Draw 25 Federal Com #8H	**TVD Reference Elevation:**	3680.000 ft above MSL
Borehole:	Original Borehole	**Seabed / Ground Elevation:**	3680.000 ft above MSL
UWI / API#:	Unknown / Unknown	**Magnetic Declination:**	7.382 °
Survey Name:	Cimarex Triste Draw 25 Federal Com #8H Rev1 RJS 16-Apr-14	**Total Gravity Field Strength:**	998.4646mgn (9.80665 Based)
Survey Date:	April 16, 2014	**Total Magnetic Field Strength:**	48330.258 nT
Tort / AHD / DDI / ERD Ratio:	126.389 ° / 5105.894 ft / 5.977 / 0.521	**Magnetic Dip Angle:**	60.133 °
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	**Declination Date:**	April 15, 2014
Location Lat / Long:	N 32° 16' 9.67187", W 103° 37' 57.49617"	**Magnetic Declination Model:**	BGGM 2013
Location Grid N/E Y/X:	N 462430.800 ftUS, E 757909.700 ftUS	**North Reference:**	Grid North
CRS Grid Convergence Angle:	0.3741 °	**Grid Convergence Used:**	0.3741 °
Grid Scale Factor:	0.99996281	**Total Corr Mag North->Grid North:**	7.0082 °
		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 Triste Draw 25 Fed Com #8H	0.00	0.00	61.26	0.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	N/A
	100.00	0.00	61.26	100.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	200.00	0.00	61.26	200.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	300.00	0.00	61.26	300.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	400.00	0.00	61.26	400.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	500.00	0.00	61.26	500.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	600.00	0.00	61.26	600.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	700.00	0.00	61.26	700.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	800.00	0.00	61.26	800.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	900.00	0.00	61.26	900.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	1000.00	0.00	61.26	1000.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	1100.00	0.00	61.26	1100.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	1200.00	0.00	61.26	1200.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	1300.00	0.00	61.26	1300.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	1400.00	0.00	61.26	1400.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	1500.00	0.00	61.26	1500.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	1600.00	0.00	61.26	1600.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	1700.00	0.00	61.26	1700.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	1800.00	0.00	61.26	1800.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	1900.00	0.00	61.26	1900.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	2000.00	0.00	61.26	2000.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	2100.00	0.00	61.26	2100.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	2200.00	0.00	61.26	2200.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	2300.00	0.00	61.26	2300.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	2400.00	0.00	61.26	2400.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	2500.00	0.00	61.26	2500.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	2600.00	0.00	61.26	2600.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	2700.00	0.00	61.26	2700.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	2800.00	0.00	61.26	2800.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	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)
	2900.00	0.00	61.26	2900.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	3000.00	0.00	61.26	3000.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	3100.00	0.00	61.26	3100.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	3200.00	0.00	61.26	3200.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	3300.00	0.00	61.26	3300.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	3400.00	0.00	61.26	3400.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	3500.00	0.00	61.26	3500.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	3600.00	0.00	61.26	3600.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	3700.00	0.00	61.26	3700.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	3800.00	0.00	61.26	3800.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	3900.00	0.00	61.26	3900.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	4000.00	0.00	61.26	4000.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	4100.00	0.00	61.26	4100.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	4200.00	0.00	61.26	4200.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	4300.00	0.00	61.26	4300.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	4400.00	0.00	61.26	4400.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	4500.00	0.00	61.26	4500.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	4600.00	0.00	61.26	4600.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	4700.00	0.00	61.26	4700.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	4800.00	0.00	61.26	4800.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	4900.00	0.00	61.26	4900.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	5000.00	0.00	61.26	5000.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	5100.00	0.00	61.26	5100.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	5200.00	0.00	61.26	5200.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	5300.00	0.00	61.26	5300.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	5400.00	0.00	61.26	5400.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	5500.00	0.00	61.26	5500.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	5600.00	0.00	61.26	5600.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	5700.00	0.00	61.26	5700.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	5800.00	0.00	61.26	5800.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	5900.00	0.00	61.26	5900.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	6000.00	0.00	61.26	6000.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	6100.00	0.00	61.26	6100.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	6200.00	0.00	61.26	6200.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	6300.00	0.00	61.26	6300.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	6400.00	0.00	61.26	6400.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	6500.00	0.00	61.26	6500.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	6600.00	0.00	61.26	6600.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	6700.00	0.00	61.26	6700.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	6800.00	0.00	61.26	6800.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	6900.00	0.00	61.26	6900.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	7000.00	0.00	61.26	7000.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	7100.00	0.00	61.26	7100.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	7200.00	0.00	61.26	7200.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	7300.00	0.00	61.26	7300.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	7400.00	0.00	61.26	7400.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	7500.00	0.00	61.26	7500.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	7600.00	0.00	61.26	7600.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	7700.00	0.00	61.26	7700.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	7800.00	0.00	61.26	7800.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	7900.00	0.00	61.26	7900.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	8000.00	0.00	61.26	8000.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	8100.00	0.00	61.26	8100.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	8200.00	0.00	61.26	8200.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	8300.00	0.00	61.26	8300.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	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)
	8400.00	0.00	61.26	8400.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	8500.00	0.00	61.26	8500.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	8600.00	0.00	61.26	8600.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	8700.00	0.00	61.26	8700.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	8800.00	0.00	61.26	8800.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	8900.00	0.00	61.26	8900.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
KOP - Build @ 12°/100' DLS	8936.00	0.00	61.26	8936.00	0.00	0.00	0.00	462430.80	757909.70	N 32 16 9.67	W 103 37 57.50	0.00	0.00	0.00
	9000.00	7.68	61.26	8999.81	2.71	2.06	3.76	462432.86	757913.46	N 32 16 9.69	W 103 37 57.45	4.28	61.26	12.00
	9100.00	19.68	61.26	9096.79	17.63	13.41	24.45	462444.21	757934.15	N 32 16 9.80	W 103 37 57.21	27.89	61.26	12.00
	9200.00	31.68	61.26	9186.75	44.98	34.21	62.38	462465.00	757972.08	N 32 16 10.01	W 103 37 56.77	71.14	61.26	12.00
	9300.00	43.68	61.26	9265.75	83.55	63.54	115.88	462494.34	758025.58	N 32 16 10.29	W 103 37 56.14	132.16	61.26	12.00
	9400.00	55.68	61.26	9330.34	131.66	100.13	182.61	462530.93	758092.30	N 32 16 10.65	W 103 37 55.36	208.26	61.26	12.00
Hold Tangent for 592ft	9436.08	60.01	61.26	9349.54	150.96	114.82	209.39	462545.61	758119.08	N 32 16 10.79	W 103 37 55.05	238.80	61.26	12.00
	9500.00	60.01	61.26	9381.49	185.96	141.43	257.93	462572.23	758167.62	N 32 16 11.05	W 103 37 54.48	294.16	61.26	0.00
	9600.00	60.01	61.26	9431.47	240.71	183.08	333.88	462613.87	758243.56	N 32 16 11.46	W 103 37 53.59	380.77	61.26	0.00
	9700.00	60.01	61.26	9481.46	295.47	224.72	409.82	462655.51	758319.50	N 32 16 11.87	W 103 37 52.71	467.39	61.26	0.00
	9800.00	60.01	61.26	9531.44	350.22	266.36	485.76	462697.15	758395.44	N 32 16 12.28	W 103 37 51.82	554.00	61.26	0.00
	9900.00	60.01	61.26	9581.43	404.97	308.00	561.71	462738.79	758471.38	N 32 16 12.68	W 103 37 50.93	640.61	61.26	0.00
	10000.00	60.01	61.26	9631.41	459.73	349.65	637.65	462780.43	758547.32	N 32 16 13.09	W 103 37 50.04	727.22	61.26	0.00
Build @ Turn @ 12°/100' DLS	10027.35	60.01	61.26	9645.08	474.70	361.03	658.42	462791.82	758568.09	N 32 16 13.20	W 103 37 49.80	750.90	61.26	0.00
	10100.00	62.59	51.77	9680.03	518.91	396.19	711.44	462826.97	758621.11	N 32 16 13.55	W 103 37 49.18	814.31	60.89	12.00
	10200.00	67.13	39.48	9722.64	592.82	459.45	775.83	462890.23	758685.50	N 32 16 14.17	W 103 37 48.43	901.67	59.37	12.00
	10300.00	72.54	28.06	9757.20	678.88	537.38	827.75	462968.15	758737.42	N 32 16 14.94	W 103 37 47.82	986.89	57.01	12.00
	10400.00	78.56	17.34	9782.22	773.35	626.57	864.93	463057.34	758774.59	N 32 16 15.82	W 103 37 47.38	1068.03	54.08	12.00
	10500.00	84.95	7.07	9796.60	872.08	723.13	885.73	463153.90	758795.40	N 32 16 16.77	W 103 37 47.13	1143.43	50.77	12.00
Landing Point	10577.15	90.00	359.30	9800.00	948.45	800.00	890.00	463230.77	758799.67	N 32 16 17.53	W 103 37 47.07	1196.70	48.05	12.00
	10600.00	90.00	359.30	9800.00	970.87	822.85	889.72	463253.62	758799.39	N 32 16 17.76	W 103 37 47.07	1211.89	47.24	0.01
	10700.00	90.00	359.31	9800.00	1068.98	922.84	888.51	463353.61	758798.18	N 32 16 18.75	W 103 37 47.08	1281.05	43.91	0.01
	10800.00	90.00	359.32	9800.00	1167.09	1022.84	887.32	463453.60	758796.99	N 32 16 19.74	W 103 37 47.08	1354.08	40.94	0.01
	10900.00	90.00	359.33	9800.00	1265.20	1122.83	886.15	463553.58	758795.82	N 32 16 20.72	W 103 37 47.09	1430.39	38.28	0.01
	11000.00	90.00	359.34	9800.00	1363.32	1222.82	885.00	463653.57	758794.66	N 32 16 21.71	W 103 37 47.10	1509.48	35.89	0.01
	11100.00	90.00	359.35	9800.00	1461.44	1322.82	883.86	463753.56	758793.53	N 32 16 22.70	W 103 37 47.10	1590.93	33.75	0.01
	11200.00	90.00	359.37	9800.00	1559.56	1422.81	882.75	463853.55	758792.41	N 32 16 23.69	W 103 37 47.11	1674.40	31.82	0.01
	11300.00	90.00	359.38	9800.00	1657.69	1522.80	881.65	463953.54	758791.31	N 32 16 24.68	W 103 37 47.11	1759.61	30.07	0.01
	11400.00	90.00	359.39	9800.00	1755.83	1622.80	880.57	464053.53	758790.23	N 32 16 25.67	W 103 37 47.12	1846.31	28.49	0.01
	11500.00	90.00	359.40	9800.00	1853.96	1722.79	879.51	464153.52	758789.17	N 32 16 26.66	W 103 37 47.12	1934.31	27.04	0.01
	11600.00	90.00	359.41	9800.00	1952.10	1822.79	878.46	464253.52	758788.13	N 32 16 27.65	W 103 37 47.13	2023.42	25.73	0.01
	11700.00	90.00	359.42	9800.00	2050.24	1922.78	877.44	464353.51	758787.10	N 32 16 28.64	W 103 37 47.13	2113.52	24.53	0.01
	11800.00	90.00	359.43	9800.00	2148.39	2022.78	876.43	464453.50	758786.10	N 32 16 29.63	W 103 37 47.13	2204.49	23.43	0.01
	11900.00	90.00	359.44	9800.00	2246.54	2122.77	875.44	464553.49	758785.11	N 32 16 30.62	W 103 37 47.14	2296.21	22.41	0.01
	12000.00	90.00	359.45	9800.00	2344.69	2222.77	874.47	464653.48	758784.14	N 32 16 31.61	W 103 37 47.14	2388.60	21.48	0.01
	12100.00	90.00	359.46	9800.00	2442.85	2322.76	873.52	464753.47	758783.19	N 32 16 32.60	W 103 37 47.15	2481.58	20.61	0.01
	12200.00	90.00	359.47	9800.00	2541.01	2422.76	872.59	464853.46	758782.25	N 32 16 33.59	W 103 37 47.15	2575.10	19.81	0.01
	12300.00	90.00	359.48	9800.00	2639.17	2522.75	871.67	464953.45	758781.34	N 32 16 34.58	W 103 37 47.15	2669.10	19.06	0.01
	12400.00	90.00	359.49	9800.00	2737.34	2622.75	870.78	465053.45	758780.44	N 32 16 35.57	W 103 37 47.15	2763.52	18.37	0.01
	12500.00	90.00	359.50	9800.00	2835.51	2722.75	869.90	465153.44	758779.56	N 32 16 36.56	W 103 37 47.16	2858.33	17.72	0.01
	12600.00	90.00	359.51	9800.00	2933.68	2822.74	869.04	465253.43	758778.70	N 32 16 37.55	W 103 37 47.16	2953.49	17.11	0.01
	12700.00	90.00	359.52	9800.00	3031.86	2922.74	868.20	465353.42	758777.86	N 32 16 38.54	W 103 37 47.16	3048.96	16.54	0.01
	12800.00	90.00	359.53	9800.00	3130.04	3022.74	867.37	465453.42	758777.04	N 32 16 39.53	W 103 37 47.16	3144.72	16.01	0.01
	12900.00	90.00	359.54	9800.00	3228.23	3122.73	866.57	465553.41	758776.23	N 32 16 40.51	W 103 37 47.17	3240.74	15.51	0.01
	13000.00	90.00	359.55	9800.00	3326.42	3222.73	865.78	465653.40	758775.45	N 32 16 41.50	W 103 37 47.17	3337.00	15.04	0.01
	13100.00	90.00	359.57	9800.00	3424.61	3322.73	865.01	465753.40	758774.68	N 32 16 42.49	W 103 37 47.17	3433.48	14.59	0.01

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)
	13200.00	90.00	359.58	9800.00	3522.80	3422.72	864.26	465853.39	758773.93	N 32 16 43.48	W 103 37 47.17	3530.15	14.17	0.01
	13300.00	90.00	359.59	9800.00	3621.00	3522.72	863.53	465953.38	758773.20	N 32 16 44.47	W 103 37 47.17	3627.02	13.77	0.01
	13400.00	90.00	359.60	9800.00	3719.20	3622.72	862.82	466053.38	758772.48	N 32 16 45.46	W 103 37 47.17	3724.05	13.40	0.01
	13500.00	90.00	359.61	9800.00	3817.41	3722.72	862.12	466153.37	758771.79	N 32 16 46.45	W 103 37 47.17	3821.24	13.04	0.01
	13600.00	90.00	359.62	9800.00	3915.62	3822.71	861.45	466253.36	758771.11	N 32 16 47.44	W 103 37 47.17	3918.57	12.70	0.01
	13700.00	90.00	359.63	9800.00	4013.83	3922.71	860.79	466353.36	758770.45	N 32 16 48.43	W 103 37 47.17	4016.05	12.38	0.01
	13800.00	90.00	359.64	9800.00	4112.04	4022.71	860.15	466453.35	758769.81	N 32 16 49.42	W 103 37 47.17	4113.64	12.07	0.01
	13900.00	90.00	359.65	9800.00	4210.26	4122.71	859.53	466553.35	758769.19	N 32 16 50.41	W 103 37 47.17	4211.35	11.78	0.01
	14000.00	90.00	359.66	9800.00	4308.49	4222.71	858.92	466653.34	758768.59	N 32 16 51.40	W 103 37 47.17	4309.17	11.50	0.01
	14100.00	90.00	359.67	9800.00	4406.71	4322.70	858.34	466753.33	758768.00	N 32 16 52.39	W 103 37 47.17	4407.10	11.23	0.01
	14200.00	90.00	359.68	9800.00	4504.94	4422.70	857.77	466853.33	758767.44	N 32 16 53.38	W 103 37 47.17	4505.12	10.98	0.01
	14300.00	90.00	359.69	9800.00	4603.17	4522.70	857.22	466953.32	758766.89	N 32 16 54.37	W 103 37 47.17	4603.22	10.73	0.01
	14400.00	90.00	359.70	9800.00	4701.41	4622.70	856.69	467053.32	758766.36	N 32 16 55.36	W 103 37 47.17	4701.41	10.50	0.01
Cimarex Triste Draw 25 Federal #8H - PBHL	14411.48	90.00	359.70	9800.00	4712.69	4634.18	856.63	467064.80	758766.30	N 32 16 55.47	W 103 37 47.17	4712.69	10.47	0.01

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	14411.483	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Triste Draw 25 Federal Com #8H Rev1

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

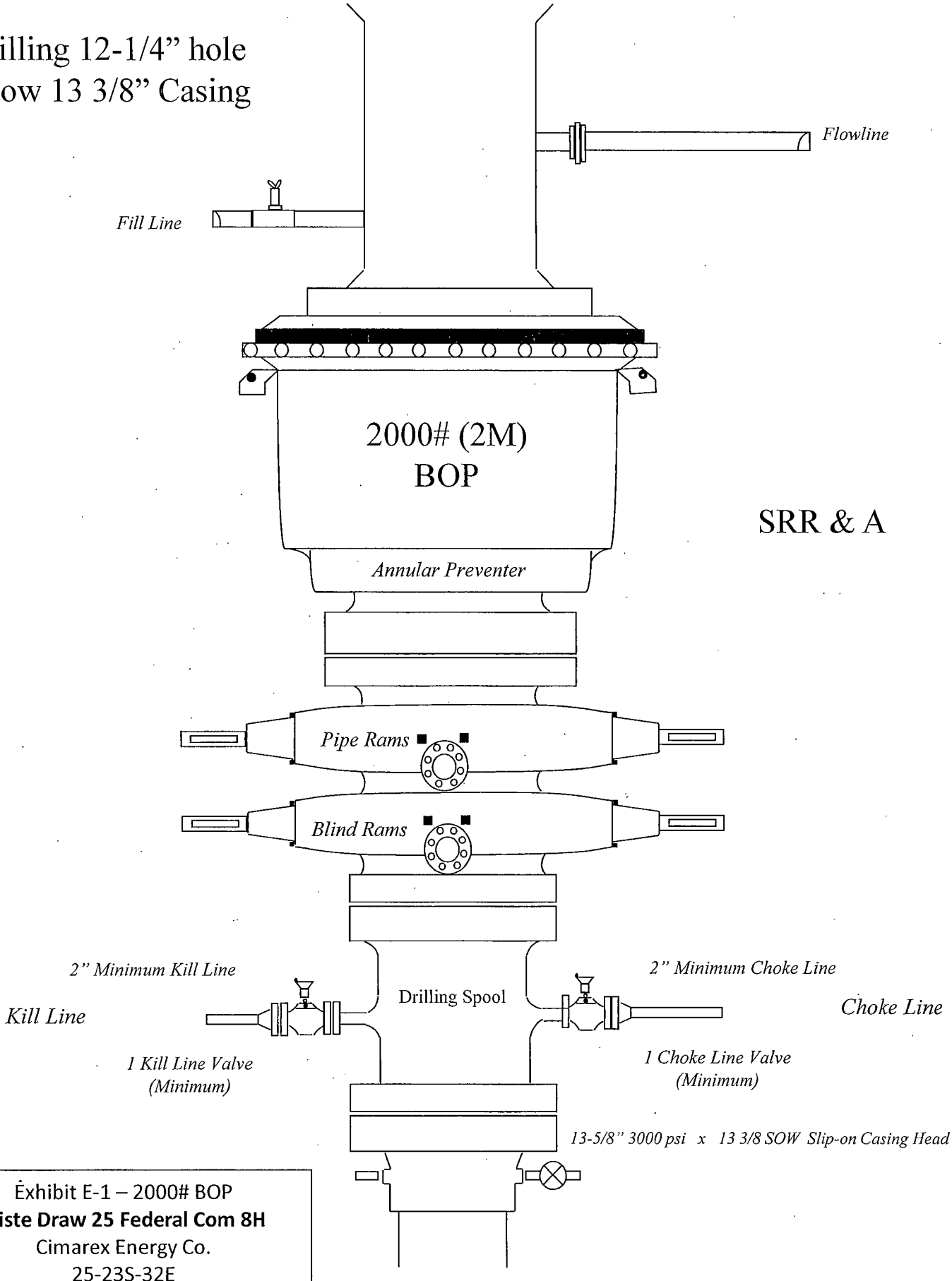
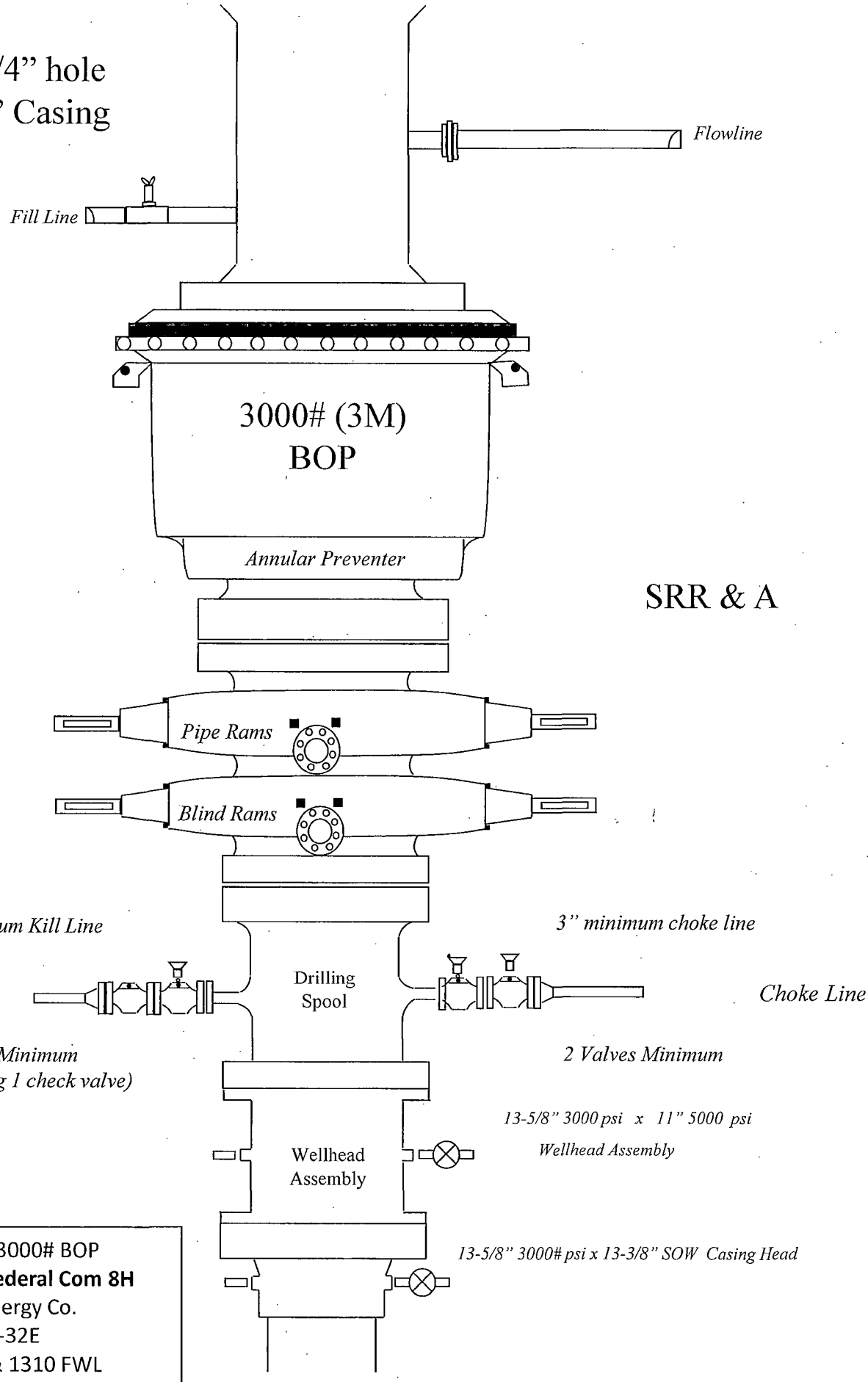


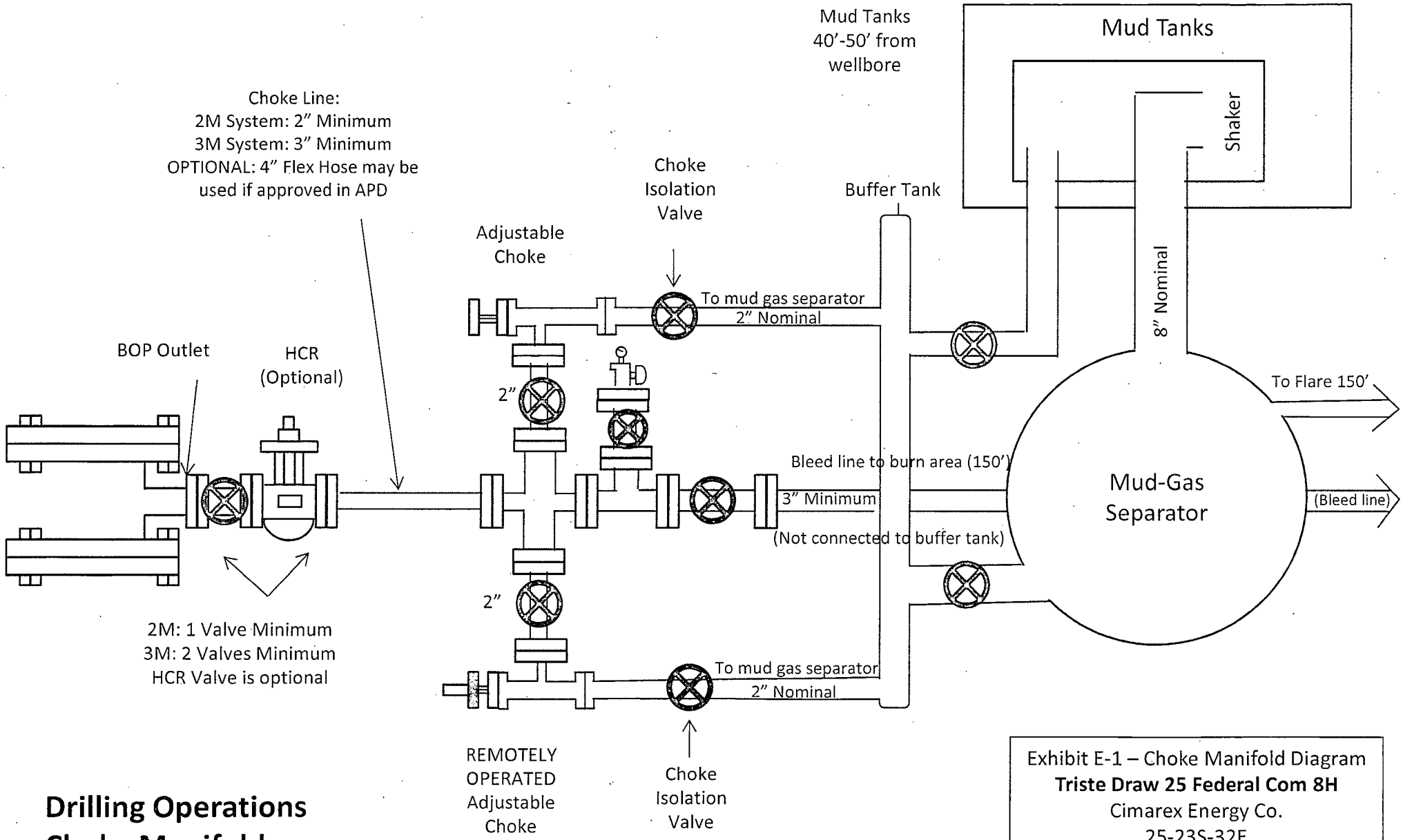
Exhibit E-1 – 2000# BOP
Triste Draw 25 Federal Com 8H
Cimarex Energy Co.
25-23S-32E
SHL 330 FSL & 1310 FWL
BHL 330 FNL & 2200 FWL
Lea County, NM

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



SRR & A

Exhibit E-1 – 3000# BOP
Triste Draw 25 Federal Com 8H
Cimarex Energy Co.
25-23S-32E
SHL 330 FSL & 1310 FWL
BHL 330 FNL & 2200 FWL
Lea County, NM



Drilling Operations
Choke Manifold
2M/3M Service

Exhibit E-1 – Choke Manifold Diagram
Triste Draw 25 Federal Com 8H
Cimarex Energy Co.
25-23S-32E
SHL 330 FSL & 1310 FWL
BHL 330 FNL & 2200 FWL
Lea County, NM

Exhibit F-1 – Co-Flex Hose Hydrostatic Test
Triste Draw 25 Federal Com 8H
Cimarex Energy Co.
25-23S-32E
SHL 330 FSL & 1310 FWL
BHL 330 FNL & 2200 FWL
Lea County, NM

Midwest Hose & Specialty, Inc.

INTERNAL HYDROSTATIC TEST REPORT

Customer:	P.O. Number:
Oderco Inc	odyd-271

HOSE SPECIFICATIONS

Type:	Hose Length:
Stainless Steel Armor Choke & Kill Hose	45'ft.

I.D.	O.D.
4 INCHES	9 INCHES

WORKING PRESSURE	TEST PRESSURE	BURST PRESSURE
10,000 PSI	15,000 PSI	0 PSI

COUPLINGS

Stem Part No.	Ferrule No.
OKC OKC	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:	Hose Serial Number:
79793	OKC

Comments:

Date:	Tested:	Approved:
3/8/2011	A. Jaime Sanchez	

Midwest Hose & Specialty, Inc.

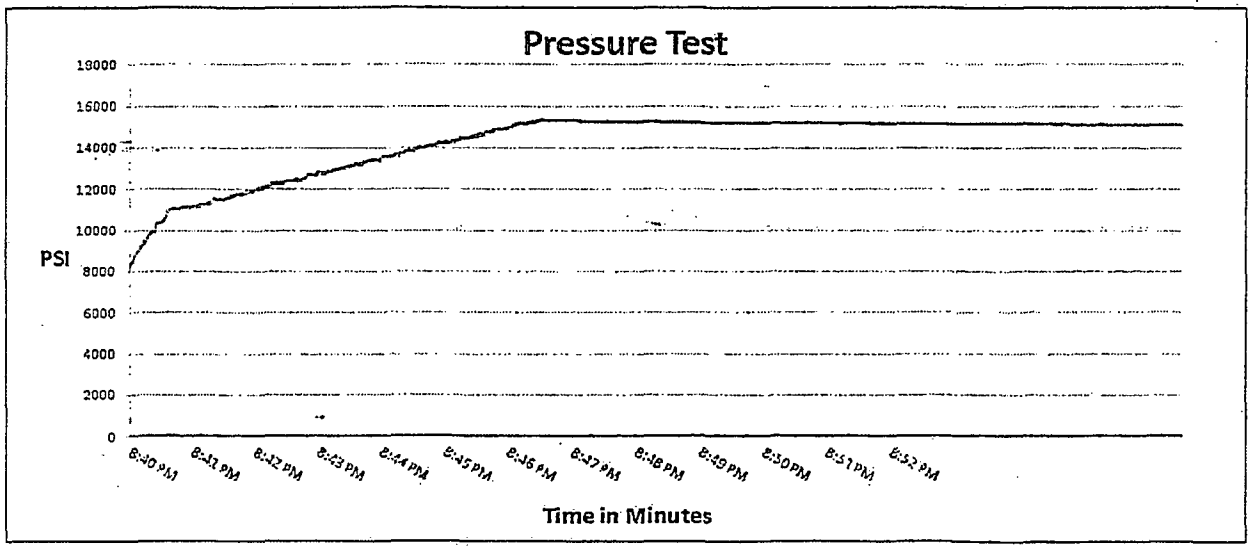
Internal Hydrostatic Test Graph

March 3, 2011

Customer: Houston

Pick Ticket #: 94260

Hose Specifications		Verification	
Hose Type	Length	Type of Fitting	Coupling Method
C & K	45'	4 1/16 10K	Swage
I.D.	O.D.	Die Size	Final O.D.
4"	6.09"	6.38"	6.25"
Working Pressure	Burst Pressure	Hose Serial #	Hose Assembly Serial #
10000 PSI	Standard Safety Multiplier Applies	5544	79793



Test Pressure	Time Held at Test Pressure	Actual Burst Pressure	Peak Pressure
15000 PSI	11 Minutes		15483 PSI

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

Tested By: *Zac Mcconnell*

Approved By: *Kim Thomas*

Exhibit F-1 – Co-Flex Hose Hydrostatic Test
Triste Draw 25 Federal Com 8H
Cimarex Energy Co.
25-23S-32E
SHL 330 FSL & 1310 FWL
BHL 330 FNL & 2200 FWL
Lea County, NM

Midwest Hose & Specialty, Inc.

Exhibit F -3– Co-Flex Hose
Triste Draw 25 Federal Com 8H
Cimarex Energy Co.
25-23S-32E
SHL 330 FSL & 1310 FWL
BHL 330 FNL & 2200 FWL
Lea County, NM

Specification Sheet
Choke & Kill Hose

The Midwest Hose & Specialty Choke & Kill hose is manufactured with only premium componets.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 vermculite 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, unibolt 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)

P.O. Box 96558 – 1421 S.E. 29th St. Oklahoma City, OK 73143 * (405) 670-6718 * Fax: (405) 670-6816

Exhibit F-2 – Co-Flex Hose
Triste Draw 25 Federal Com 8H
Cimarex Energy Co.
25-23S-32E
SHL 330 FSL & 1310 FWL
BHL 330 FNL & 2200 FWL
Lea County, NM

Midwest Hose & Specialty, Inc.

Certificate of Conformity

Customer:	PO
DEM	ODYD-271

SPECIFICATIONS

Sales Order	Dated:
79793	3/8/2011

We hereby cerify that the material supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards

Supplier:
Midwest Hose & Specialty, Inc.
10640 Tanner Road
Houston, Texas 77041

Comments:

Approved:	Date:
[signature]	3/8/2011

Exhibit F – Co-Flex Hose

Triste Draw 25 Federal Com 8H

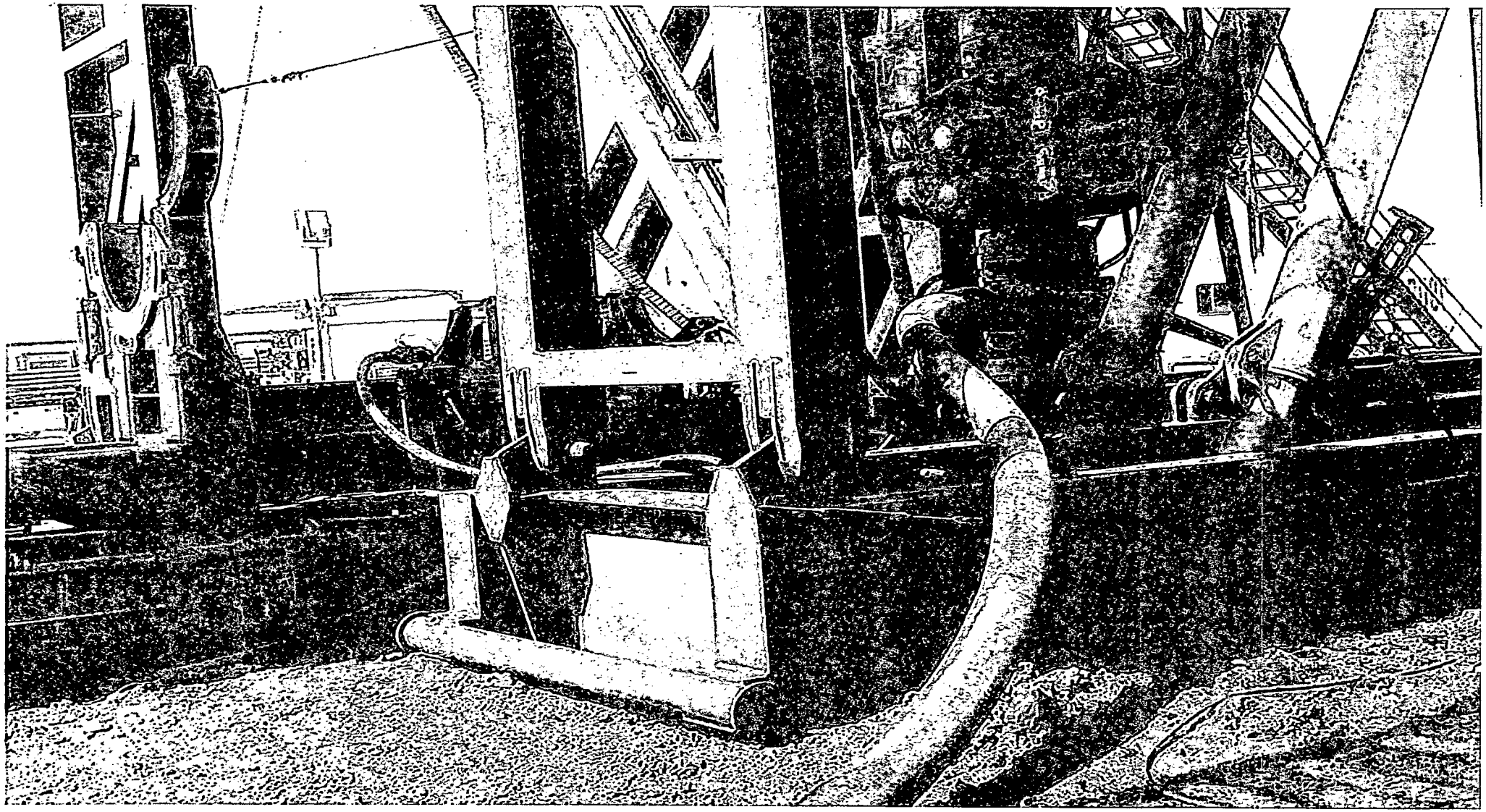
Cimarex Energy Co.

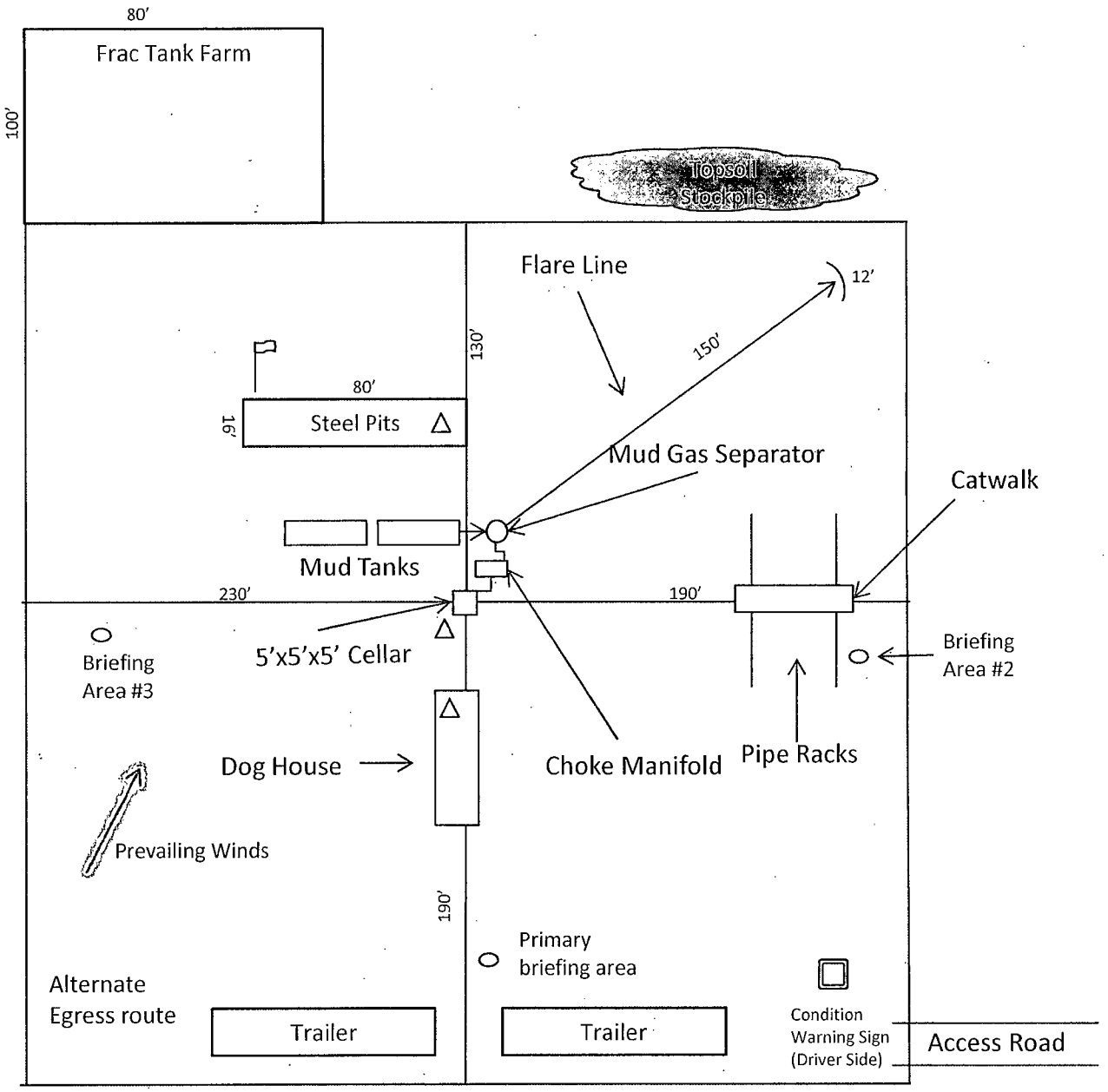
25-23S-32E

SHL 330 FSL & 1310 FWL

BHL 330 FNL & 2200 FWL

Lea County, NM





Wind Direction Indicators (wind sock or streamers)

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

Briefing Areas

N

Exhibit D-1 – Rig Diagram
Triste Draw 25 Federal Com 8H
Cimarex Energy Co.
25-23S-32E
SHL 330 FSL & 1310 FWL
BHL 330 FNL & 2200 FWL
Lea County, NM

Hydrogen Sulfide Drilling Operations Plan
Triste Draw 25 Federal Com 8H
Cimarex Energy Co.
UL: M, Sec. 25, 23S, 32E
Lea Co., NM

1 All Company and Contract personnel admitted on location must be trained by a qualified H2S safety instructor to the following:
   A. Characteristics of H_2S
   B. Physical effects and hazards
   C. Principal and operation of H2S detectors, warning system and briefing areas.
   D. Evacuation procedure, routes and first aid.
   E. Proper use of safety equipment & life support systems
   F. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30 minute pressure demand air packs.

2 H_2S Detection and Alarm Systems:
   A. H2S sensors/detectors to be located on the drilling rig floor, in the base of the sub structure/cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may play placed as deemed necessary.
   B. An audio alarm system will be installed on the derrick floor and in the top doghouse.

3 Windsock and/or wind streamers:
   A. Windsock at mudpit area should be high enough to be visible.
   B. Windsock on the rig floor and / or top doghouse should be high enough to be visible.

4 Condition Flags and Signs
   A. Warning sign on access road to location.
   B. Flags to be displayed on sign at entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates danger (H_2S present in dangerous concentration). Only H2S trained and certified personnel admitted to location.

5 Well control equipment:
   A. See exhibit "E-1"

6 Communication:
   A. While working under masks chalkboards will be used for communication.
   B. Hand signals will be used where chalk board is inappropriate.
   C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.

7 Drillstem Testing:
No DSTs r cores are planned at this time.

8 Drilling contractor supervisor will be required to be familiar with the effects H_2S has on tubular goods and other mechanical equipment.

9 If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary.