13-46

OCD Hobbs

HOBBS OCD

JUN 06 2014

RECEIVED

Form 3160-3
(March 2012)

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

(H)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMNM127895

6. If Indian, Allotee or Tribe Name:

1a. Type of work: [✓] DRILL [ ] REENTER

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

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

8. Lease Name and Well No.: Double X 25 Federal #10H (39348)

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

9. API Well No.: 30025- 41899

3a. Address: 600 N. Marienfeld St Ste 600; Midland, Tx 79701

3b. Phone No. (include area code): 432571-7800

10. Field and Pool, or Exploratory: (97184) WC-025 G-06 S253201M; BS UPSHORE

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

At surface: 330' FNL & 1980' FWL

At proposed prod. zone: 330' FSL & 1980' FWL

11. Sec., T. R. M. or Blk. and Survey or Area: 25-24S-32E

14. Distance in miles and direction from nearest town or post office*: 29 miles West 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 drlg. 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: 14145; TVD: 9725'

20. BLM/BIA Bond No. on file: NM2575; NMB000835

21. Elevations (Show whether DF, KDB, RT, GL, etc.): GR 3573'

22. Approximate date work will start*: 03/15/2012

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

25. Signature: [signature]

Name (Printed/Typed): Terri STathem

Date: 11/12/2012

Title: Coordinator Regulatory Compliance

Approved by (Signature): Steve Caffey

Name (Printed/Typed):

Date: MAY 29 2014

Title: FIELD MANAGER

Office: CARLSBAD FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

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

KA 06/09/14

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Approval Subject to General Requirements & Special Stipulations Attached

JUN 09 2014

Operator Certification Statement
Double X 25 Federal No. 10H
Cimarex Energy Co.
Unit A, Section 25
T24S-R32E, Lea County, NM

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

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 5th day of October, 2012

NAME: Tracie J Cherry

TITLE: Sr. Regulatory Analyst

ADDRESS: 600 N Marienfeld St Ste 600
Midland TX 79701

TELEPHONE: Office Phone: (432) 571-7800

EMAIL: tcherr@cimarex.com

Field Representative: Same as above

Drilling Plan
Double X 25 Federal No. 10H
Cimarex Energy Co.
Unit C, Section 25
T24S-R32E, Lea County, NM

9 Casing & Cementing Program:

String	Hole Size	Depth			Casing OD		Weight	Collar	Grade
Surface 1	17 1/2"	0'	to	1195'	New	13 3/8"	48#	STC	H-40
Intermediate	12¼"	0'	to	3400'	New	9⅝"	36#	LTC	J-55
Intermediate	12¼"	3400'	to	4900'	New	9⅝"	40#	LTC	J-55
Production	7 7/8" or 8¾"	0'	to	9248'	New	5½"	17#	LTC	P-110
Production	7 7/8" or 8 3/4"	9248'	to	14145'	New	5 1/2"	17#	BTC	P-110

10 Cementing:

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

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

Production Lead: 383 sx 35:65 (poz/H) + salt + Sodium Metasilicate + Bentonite + Fluid Loss + Dispersant + LCM + Retarder - MW 11.9 ppg yield 2.4
Tail: 942 sx 50:50 (poz/H) + Bentonite + Salt + Fluid Loss + Dispersant + LCM + Retarder – MW 14.5 ppg yield 1.24
Cement volumes will be adjusted according to hole size.
25% Excess **TOC 4400'** **Centralizers every 3rd joint through the curve or legal location hardline to provide adequate cement coverage every 100' unless hole conditions require greater spacing between centralizers.**

Collapse Factor	*Burst Factor*	*Tension Factor*
1.125	1.125	1.6

11 Pressure control Equipment:

Exhibit "E". A 13⅝" 5000 PSI working pressure B.O.P. consisting of one set of 10K blind rams and two sets of 10K pipe rams and a 5000# annular type preventer. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. Rotating head below 4900.' A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor. Mud gas seperator will be available if drilling in H2S areas.

BOP unit will be hydraulically operated. BOP will be installed and operated at least once a day while drilling and the blind rams will be operated when out of hole during trips. No abnormal pressure or temperature is expected while drilling.

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

See COA

Cimarex Energy Co. of Colorado requests a variance to use a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used.

Drilling Plan
Double X 25 Federal No. 10H
Cimarex Energy Co.
Unit C, 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: See COA

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 **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 potentialed as **an oil well.**

Cimarex

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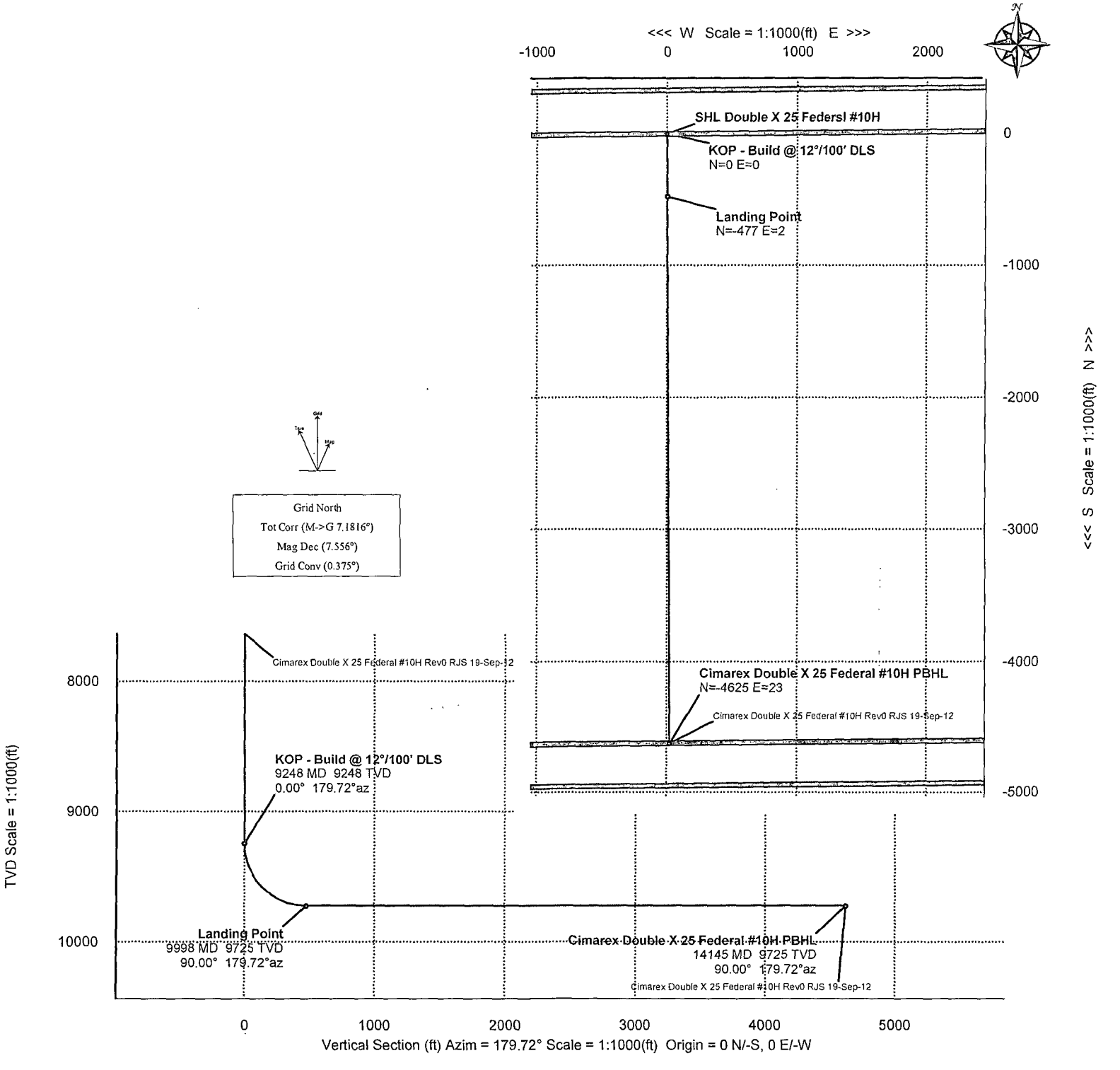
WELL	FIELD	STRUCTURE
Double X 25 Federal #10H	NM Lea County	TBD

Magnetic Parameters				Surface Location					Miscellaneous			
Model: BGGM 2012	Dip: 60.079°	Date: September 19, 2012		Lat: N 32 11 42.077	Northing: 435393.80 ftUS	Grid Conv: 0.375°		NAD83 New Mexico State Plane, Eastern Zone, US Feet	Slot: Double X 25 Federal #10H	TVD Ref: Groun Level(3573ft above MSL)		
	Mag Dec: 7.556°	FS: 48455.3nT		Lon: W 103 37 49.635	Easting: 758761.60 ftUS	Scale Fact: 0.99996323			Plan: Rev0 RJS 19-Sep-12	Srvy Date: September 19, 2012		



Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+) / S(-)	E(+) / W(-)	DLS
SHL Double X 25 Federsl #10H	0.00	0.00	179.72	0.00	0.00	0.00	0.00	
KOP - Build @ 12°/100' DLS	9247.50	0.00	179.72	9247.50	0.00	0.00	0.00	0.00
Landing Point	9997.56	90.00	179.72	9725.00	477.50	-477.49	2.38	12.00
Cimarex Double X 25 Federal #10H PBHL	14144.99	90.00	179.72	9725.00	4624.94	-4624.88	23.00	0.00

Cimarex Double X 25 Federal #10H Rev0 RJS 19-Sep-12 Proposal Report

(Non-Def Plan)

Report Date:	September 20, 2012 - 10:20 AM	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	Cimarex	**Vertical Section Azimuth:**	179.715 ° (Grid North)
Field:	NM Lea County (NAD 83)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	TBD / Cimarex Double X 25 Federal #10H	**TVD Reference Datum:**	Groun Level
Well:	Cimarex Double X 25 Federal #10H	**TVD Reference Elevation:**	3573.000 ft above MSL
Borehole:	Original Borehole	**Seabed / Ground Elevation:**	3573.000 ft above MSL
UWI / API#:	Unknown / Unknown	**Magnetic Declination:**	7.556 °
Survey Name:	Cimarex Double X 25 Federal #10H Rev0 RJS 19-Sep-12	**Total Gravity Field Strength:**	999.1462 mgn (9.8 based)
Survey Date:	September 19, 2012	**Total Magnetic Field Strength:**	48455.291 nT
Tort / AHD / DDI / ERD Ratio:	90.000 ° / 4624.936 ft / 5.782 / 0.476	**Magnetic Dip Angle:**	60.079 °
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	**Declination Date:**	September 19, 2012
Location Lat / Long:	N 32° 11' 42.07737", W 103° 37' 49.63480"	**Magnetic Declination Model:**	BGGM 2012
Location Grid N/E Y/X:	N 435393.800 ftUS, E 758761.600 ftUS	**North Reference:**	Grid North
CRS Grid Convergence Angle:	0.3745 °	**Grid Convergence Used:**	0.3745 °
Grid Scale Factor:	0.99996323	**Total Corr Mag North->Grid North:**	7.1816 °
		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 Federsl #10H	0.00	0.00	179.72	0.00	-3573.00	0.00	0.00	0.00	N/A	N/A	N/A	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63
KOP - Build @ 12°/100' DLS	9247.50	0.00	179.72	9247.50	5674.50	0.00	0.00	0.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63
Landing Point	9997.56	90.00	179.72	9725.00	6152.00	477.50	-477.49	2.38	12.00	12.00	0.00	434916.32	758763.98	N 32 11 37.35	W 103 37 49.64
Cimarex Double X 25 Federal #10H PBHL	14144.99	90.00	179.72	9725.00	6152.00	4624.94	-4624.88	23.00	0.00	0.00	0.00	430769.10	758784.60	N 32 10 56.31	W 103 37 49.72

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	14144.992	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Double X 25 Federal #10H Rev0

Cimarex Double X 25 Federal #10H Rev0 RJS 19-Sep-12 Proposal Report
100' Interpolated
(Non-Def Plan)

PATHFINDER
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Report Date:	September 20, 2012 - 04:50 PM	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	Cimarex	**Vertical Section Azimuth:**	179.715 ° (Grid North)
Field:	NM Lea County (NAD 83)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	TBD / Cimarex Double X 25 Federal #10H	**TVD Reference Datum:**	Groun Level
Well:	Cimarex Double X 25 Federal #10H	**TVD Reference Elevation:**	3573.000 ft above MSL
Borehole:	Original Borehole	**Seabed / Ground Elevation:**	3573.000 ft above MSL
UWI / API#:	Unknown / Unknown	**Magnetic Declination:**	7.556 °
Survey Name:	Cimarex Double X 25 Federal #10H Rev0 RJS 19-Sep-12	**Total Gravity Field Strength:**	999.1462 mgn (9.8 based)
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Tort / AHD / DDI / ERD Ratio:	90.000 ° / 4624.936 ft / 5.782 / 0.476	**Magnetic Dip Angle:**	60.079 °
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	**Declination Date:**	September 19, 2012
Location Lat / Long:	N 32° 11' 42.07737", W 103° 37' 49.63480"	**Magnetic Declination Model:**	BGGM 2012
Location Grid N/E Y/X:	N 435393.800 ftUS, E 758761.600 ftUS	**North Reference:**	Grid North
CRS Grid Convergence Angle:	0.3745 °	**Grid Convergence Used:**	0.3745 °
Grid Scale Factor:	0.99996323	**Total Corr Mag North->Grid North:**	7.1816 °
		Local Coord Referenced To:	Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)
SHL Double X 25 Federsl #10H	0.00	0.00	179.72	0.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	N/A
	100.00	0.00	179.72	100.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	200.00	0.00	179.72	200.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	300.00	0.00	179.72	300.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	400.00	0.00	179.72	400.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	500.00	0.00	179.72	500.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	600.00	0.00	179.72	600.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	700.00	0.00	179.72	700.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	800.00	0.00	179.72	800.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	900.00	0.00	179.72	900.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	1000.00	0.00	179.72	1000.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	1100.00	0.00	179.72	1100.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	1200.00	0.00	179.72	1200.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	1300.00	0.00	179.72	1300.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	1400.00	0.00	179.72	1400.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	1500.00	0.00	179.72	1500.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	1600.00	0.00	179.72	1600.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	1700.00	0.00	179.72	1700.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	1800.00	0.00	179.72	1800.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	1900.00	0.00	179.72	1900.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	2000.00	0.00	179.72	2000.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	2100.00	0.00	179.72	2100.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	2200.00	0.00	179.72	2200.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	2300.00	0.00	179.72	2300.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	2400.00	0.00	179.72	2400.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	2500.00	0.00	179.72	2500.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	2600.00	0.00	179.72	2600.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	2700.00	0.00	179.72	2700.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	2800.00	0.00	179.72	2800.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	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	179.72	2900.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	3000.00	0.00	179.72	3000.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	3100.00	0.00	179.72	3100.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	3200.00	0.00	179.72	3200.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	3300.00	0.00	179.72	3300.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	3400.00	0.00	179.72	3400.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	3500.00	0.00	179.72	3500.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	3600.00	0.00	179.72	3600.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	3700.00	0.00	179.72	3700.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	3800.00	0.00	179.72	3800.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	3900.00	0.00	179.72	3900.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	4000.00	0.00	179.72	4000.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	4100.00	0.00	179.72	4100.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	4200.00	0.00	179.72	4200.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	4300.00	0.00	179.72	4300.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	4400.00	0.00	179.72	4400.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	4500.00	0.00	179.72	4500.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	4600.00	0.00	179.72	4600.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	4700.00	0.00	179.72	4700.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	4800.00	0.00	179.72	4800.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	4900.00	0.00	179.72	4900.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	5000.00	0.00	179.72	5000.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	5100.00	0.00	179.72	5100.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	5200.00	0.00	179.72	5200.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	5300.00	0.00	179.72	5300.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	5400.00	0.00	179.72	5400.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	5500.00	0.00	179.72	5500.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	5600.00	0.00	179.72	5600.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	5700.00	0.00	179.72	5700.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	5800.00	0.00	179.72	5800.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	5900.00	0.00	179.72	5900.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	6000.00	0.00	179.72	6000.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	6100.00	0.00	179.72	6100.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	6200.00	0.00	179.72	6200.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	6300.00	0.00	179.72	6300.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	6400.00	0.00	179.72	6400.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	6500.00	0.00	179.72	6500.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	6600.00	0.00	179.72	6600.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	6700.00	0.00	179.72	6700.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	6800.00	0.00	179.72	6800.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	6900.00	0.00	179.72	6900.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	7000.00	0.00	179.72	7000.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	7100.00	0.00	179.72	7100.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	7200.00	0.00	179.72	7200.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	7300.00	0.00	179.72	7300.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	7400.00	0.00	179.72	7400.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	7500.00	0.00	179.72	7500.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	7600.00	0.00	179.72	7600.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	7700.00	0.00	179.72	7700.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	7800.00	0.00	179.72	7800.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	7900.00	0.00	179.72	7900.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	8000.00	0.00	179.72	8000.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	8100.00	0.00	179.72	8100.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	8200.00	0.00	179.72	8200.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	8300.00	0.00	179.72	8300.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	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	179.72	8400.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	8500.00	0.00	179.72	8500.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	8600.00	0.00	179.72	8600.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	8700.00	0.00	179.72	8700.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	8800.00	0.00	179.72	8800.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	8900.00	0.00	179.72	8900.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	9000.00	0.00	179.72	9000.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	9100.00	0.00	179.72	9100.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	9200.00	0.00	179.72	9200.00	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
KOP - Build @ 12°/100' DLS	9247.50	0.00	179.72	9247.50	0.00	0.00	0.00	435393.80	758761.60	N 32 11 42.08	W 103 37 49.63	0.00	0.00	0.00
	9300.00	6.30	179.72	9299.89	2.88	-2.88	0.01	435390.92	758761.61	N 32 11 42.05	W 103 37 49.63	2.88	179.72	12.00
	9400.00	18.30	179.72	9397.42	24.15	-24.15	0.12	435369.66	758761.72	N 32 11 41.84	W 103 37 49.64	24.15	179.72	12.00
	9500.00	30.30	179.72	9488.40	65.22	-65.22	0.32	435328.58	758761.92	N 32 11 41.43	W 103 37 49.64	65.22	179.72	12.00
	9600.00	42.30	179.72	9568.84	124.31	-124.31	0.62	435269.50	758762.22	N 32 11 40.85	W 103 37 49.64	124.31	179.72	12.00
	9700.00	54.30	179.72	9635.25	198.83	-198.83	0.99	435194.98	758762.59	N 32 11 40.11	W 103 37 49.64	198.83	179.72	12.00
	9800.00	66.30	179.72	9684.71	285.53	-285.53	1.42	435108.28	758763.02	N 32 11 39.25	W 103 37 49.64	285.53	179.72	12.00
	9900.00	78.29	179.72	9715.07	380.62	-380.62	1.89	435013.20	758763.49	N 32 11 38.31	W 103 37 49.64	380.62	179.72	12.00
Landing Point	9997.56	90.00	179.72	9725.00	477.50	-477.49	2.38	434916.32	758763.98	N 32 11 37.35	W 103 37 49.64	477.50	179.72	12.00
	10000.00	90.00	179.72	9725.00	479.94	-479.94	2.39	434913.88	758763.99	N 32 11 37.33	W 103 37 49.64	479.94	179.72	0.00
	10100.00	90.00	179.72	9725.00	579.94	-579.94	2.88	434813.88	758764.48	N 32 11 36.34	W 103 37 49.65	579.94	179.72	0.00
	10200.00	90.00	179.72	9725.00	679.94	-679.94	3.38	434713.89	758764.98	N 32 11 35.35	W 103 37 49.65	679.94	179.72	0.00
	10300.00	90.00	179.72	9725.00	779.94	-779.94	3.88	434613.90	758765.48	N 32 11 34.36	W 103 37 49.65	779.94	179.72	0.00
	10400.00	90.00	179.72	9725.00	879.94	-879.93	4.38	434513.90	758765.98	N 32 11 33.37	W 103 37 49.65	879.94	179.72	0.00
	10500.00	90.00	179.72	9725.00	979.94	-979.93	4.87	434413.91	758766.47	N 32 11 32.38	W 103 37 49.65	979.94	179.72	0.00
	10600.00	90.00	179.72	9725.00	1079.94	-1079.93	5.37	434313.91	758766.97	N 32 11 31.39	W 103 37 49.65	1079.94	179.72	0.00
	10700.00	90.00	179.72	9725.00	1179.94	-1179.93	5.87	434213.92	758767.47	N 32 11 30.40	W 103 37 49.66	1179.94	179.72	0.00
	10800.00	90.00	179.72	9725.00	1279.94	-1279.93	6.37	434113.92	758767.97	N 32 11 29.41	W 103 37 49.66	1279.94	179.72	0.00
	10900.00	90.00	179.72	9725.00	1379.94	-1379.93	6.86	434013.93	758768.46	N 32 11 28.42	W 103 37 49.66	1379.94	179.72	0.00
	11000.00	90.00	179.72	9725.00	1479.94	-1479.93	7.36	433913.93	758768.96	N 32 11 27.43	W 103 37 49.66	1479.94	179.72	0.00
	11100.00	90.00	179.72	9725.00	1579.94	-1579.93	7.86	433813.94	758769.46	N 32 11 26.44	W 103 37 49.66	1579.94	179.72	0.00
	11200.00	90.00	179.72	9725.00	1679.94	-1679.92	8.36	433713.94	758769.95	N 32 11 25.45	W 103 37 49.67	1679.94	179.72	0.00
	11300.00	90.00	179.72	9725.00	1779.94	-1779.92	8.85	433613.95	758770.45	N 32 11 24.46	W 103 37 49.67	1779.94	179.72	0.00
	11400.00	90.00	179.72	9725.00	1879.94	-1879.92	9.35	433513.95	758770.95	N 32 11 23.47	W 103 37 49.67	1879.94	179.72	0.00
	11500.00	90.00	179.72	9725.00	1979.94	-1979.92	9.85	433413.96	758771.45	N 32 11 22.49	W 103 37 49.67	1979.94	179.72	0.00
	11600.00	90.00	179.72	9725.00	2079.94	-2079.92	10.34	433313.96	758771.94	N 32 11 21.50	W 103 37 49.67	2079.94	179.72	0.00
	11700.00	90.00	179.72	9725.00	2179.94	-2179.92	10.84	433213.97	758772.44	N 32 11 20.51	W 103 37 49.67	2179.94	179.72	0.00
	11800.00	90.00	179.72	9725.00	2279.94	-2279.92	11.34	433113.97	758772.94	N 32 11 19.52	W 103 37 49.68	2279.94	179.72	0.00
	11900.00	90.00	179.72	9725.00	2379.94	-2379.92	11.84	433013.98	758773.44	N 32 11 18.53	W 103 37 49.68	2379.94	179.72	0.00
	12000.00	90.00	179.72	9725.00	2479.94	-2479.91	12.33	432913.98	758773.93	N 32 11 17.54	W 103 37 49.68	2479.94	179.72	0.00
	12100.00	90.00	179.72	9725.00	2579.94	-2579.91	12.83	432813.99	758774.43	N 32 11 16.55	W 103 37 49.68	2579.94	179.72	0.00
	12200.00	90.00	179.72	9725.00	2679.94	-2679.91	13.33	432713.99	758774.93	N 32 11 15.56	W 103 37 49.68	2679.94	179.72	0.00
	12300.00	90.00	179.72	9725.00	2779.94	-2779.91	13.83	432614.00	758775.42	N 32 11 14.57	W 103 37 49.69	2779.94	179.72	0.00
	12400.00	90.00	179.72	9725.00	2879.94	-2879.91	14.32	432514.00	758775.92	N 32 11 13.58	W 103 37 49.69	2879.94	179.72	0.00
	12500.00	90.00	179.72	9725.00	2979.94	-2979.91	14.82	432414.01	758776.42	N 32 11 12.59	W 103 37 49.69	2979.94	179.72	0.00
	12600.00	90.00	179.72	9725.00	3079.94	-3079.91	15.32	432314.01	758776.92	N 32 11 11.60	W 103 37 49.69	3079.94	179.72	0.00
	12700.00	90.00	179.72	9725.00	3179.94	-3179.91	15.81	432214.02	758777.41	N 32 11 10.61	W 103 37 49.69	3179.94	179.72	0.00
	12800.00	90.00	179.72	9725.00	3279.94	-3279.90	16.31	432114.02	758777.91	N 32 11 9.62	W 103 37 49.69	3279.94	179.72	0.00
	12900.00	90.00	179.72	9725.00	3379.94	-3379.90	16.81	432014.03	758778.41	N 32 11 8.63	W 103 37 49.70	3379.94	179.72	0.00
	13000.00	90.00	179.72	9725.00	3479.94	-3479.90	17.31	431914.03	758778.91	N 32 11 7.64	W 103 37 49.70	3479.94	179.72	0.00
	13100.00	90.00	179.72	9725.00	3579.94	-3579.90	17.80	431814.04	758779.40	N 32 11 6.65	W 103 37 49.70	3579.94	179.72	0.00
	13200.00	90.00	179.72	9725.00	3679.94	-3679.90	18.30	431714.04	758779.90	N 32 11 5.66	W 103 37 49.70	3679.94	179.72	0.00
	13300.00	90.00	179.72	9725.00	3779.94	-3779.90	18.80	431614.05	758780.40	N 32 11 4.67	W 103 37 49.70	3779.94	179.72	0.00
	13400.00	90.00	179.72	9725.00	3879.94	-3879.90	19.30	431514.05	758780.90	N 32 11 3.68	W 103 37 49.71	3879.94	179.72	0.00
	13500.00	90.00	179.72	9725.00	3979.94	-3979.90	19.79	431414.06	758781.39	N 32 11 2.70	W 103 37 49.71	3979.94	179.72	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	179.72	9725.00	4079.94	-4079.89	20.29	431314.06	758781.89	N 32 11 1.71	W 103 37 49.71	4079.94	179.72	0.00
	13700.00	90.00	179.72	9725.00	4179.94	-4179.89	20.79	431214.07	758782.39	N 32 11 0.72	W 103 37 49.71	4179.94	179.72	0.00
	13800.00	90.00	179.72	9725.00	4279.94	-4279.89	21.29	431114.07	758782.88	N 32 10 59.73	W 103 37 49.71	4279.94	179.72	0.00
	13900.00	90.00	179.72	9725.00	4379.94	-4379.89	21.78	431014.08	758783.38	N 32 10 58.74	W 103 37 49.71	4379.94	179.72	0.00
	14000.00	90.00	179.72	9725.00	4479.94	-4479.89	22.28	430914.08	758783.88	N 32 10 57.75	W 103 37 49.72	4479.94	179.72	0.00
	14100.00	90.00	179.72	9725.00	4579.94	-4579.89	22.78	430814.09	758784.38	N 32 10 56.76	W 103 37 49.72	4579.94	179.72	0.00
Cimarex Double X 25 Federal #10H PBHL	14144.99	90.00	179.72	9725.00	4624.94	-4624.88	23.00	430769.10	758784.60	N 32 10 56.31	W 103 37 49.72	4624.94	179.72	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	14144.992	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Double X 25 Federal #10H Rev0

SR & A

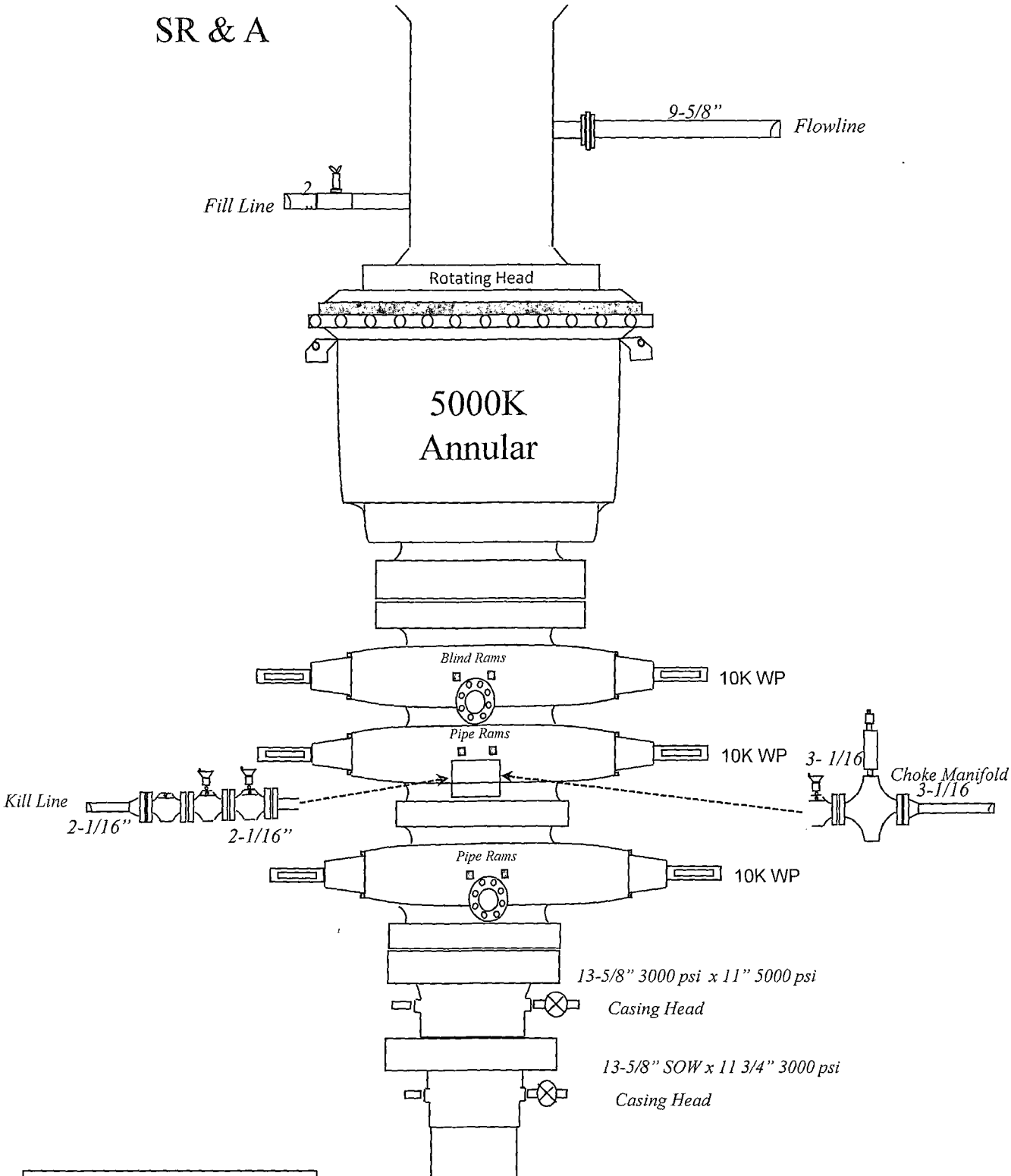
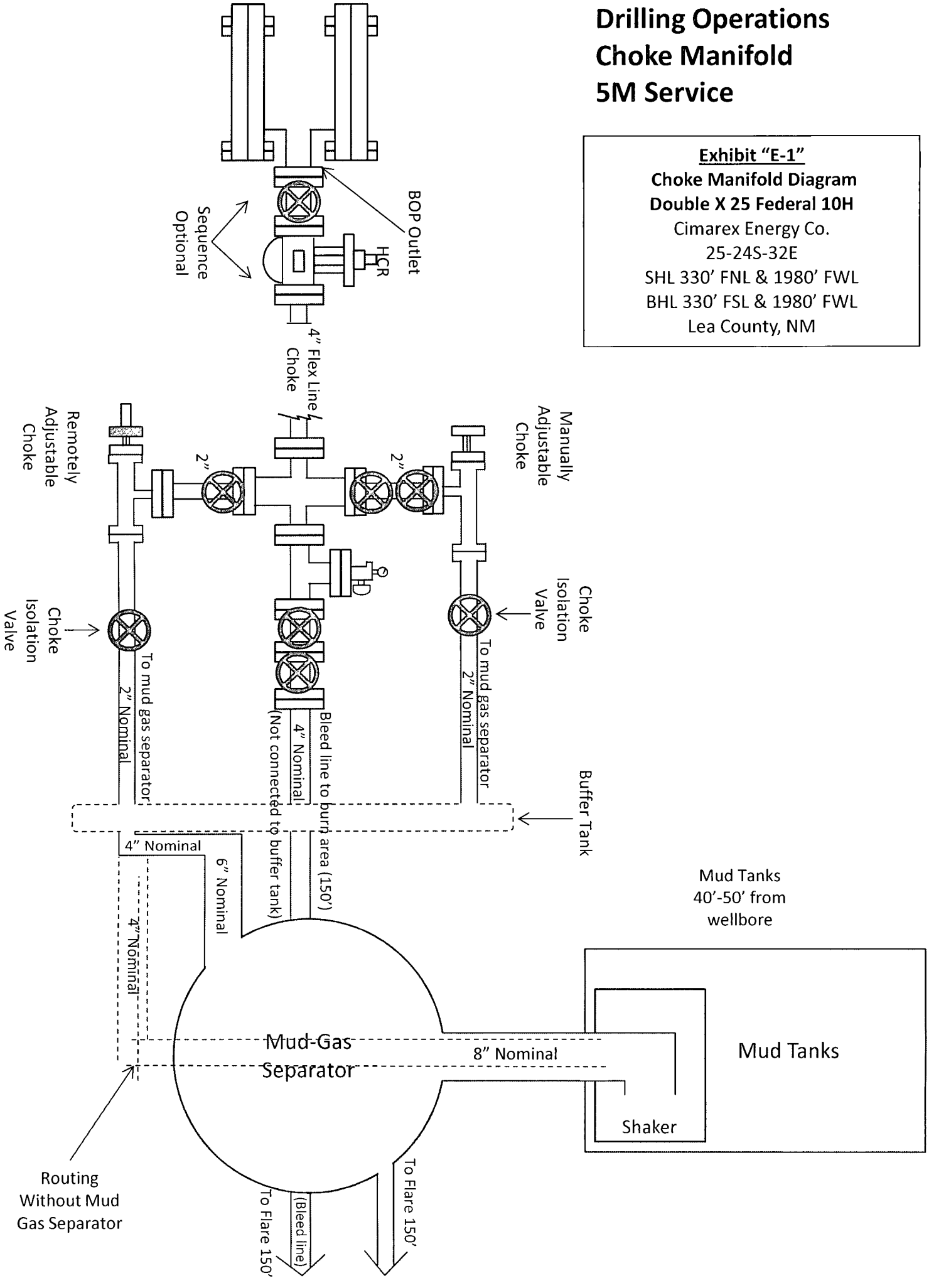


Exhibit "E"
5M BOP
Double X 25 Federal 10H
Cimarex Energy Co.
25-24S-32E
SHL 330' FNL & 1980' FWL
BHL 330' FSL & 1980' FWL
Lea County, NM

Drilling Operations
Choke Manifold
5M Service

Exhibit "E-1"
Choke Manifold Diagram
Double X 25 Federal 10H
Cimarex Energy Co.
25-24S-32E
SHL 330' FNL & 1980' FWL
BHL 330' FSL & 1980' 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

Midwest Hose
& Specialty, Inc.

INTERNAL HYDROSTATIC TEST REPORT

Customer:	P.O. Number:
Oderco Inc	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.	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 Jr.	

Midwest Hose & Specialty, Inc.

Internal Hydrostatic Test Graph

March 3, 2011

Customer: Houston

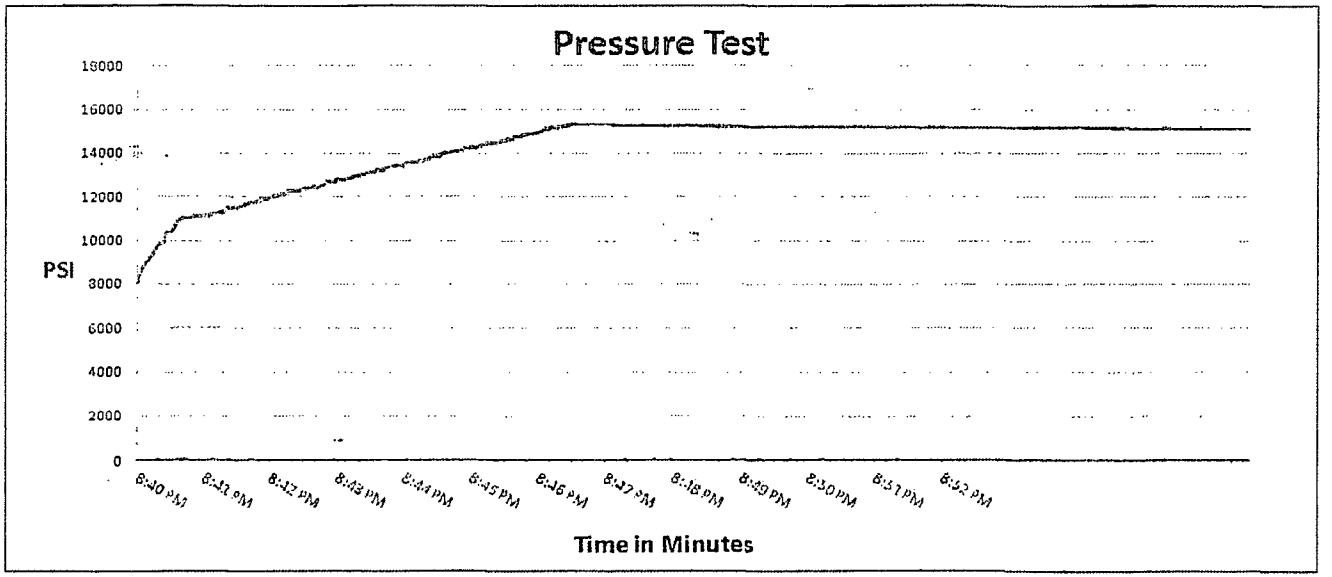
Pick Ticket #: 94260

Hose Specifications

Hose Type	Length
C & K	45'
I.D.	O.D.
4"	6.09"
Working Pressure	Burst Pressure
10000 PSI	Standard Safety Multiplier Applies

Verification

Type of Fitting	Coupling Method
4 1/16 10K	Swage
Die Size	Final O.D.
6.30"	6.25"
Hose Serial #	Hose Assembly Serial #
5544	79793



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

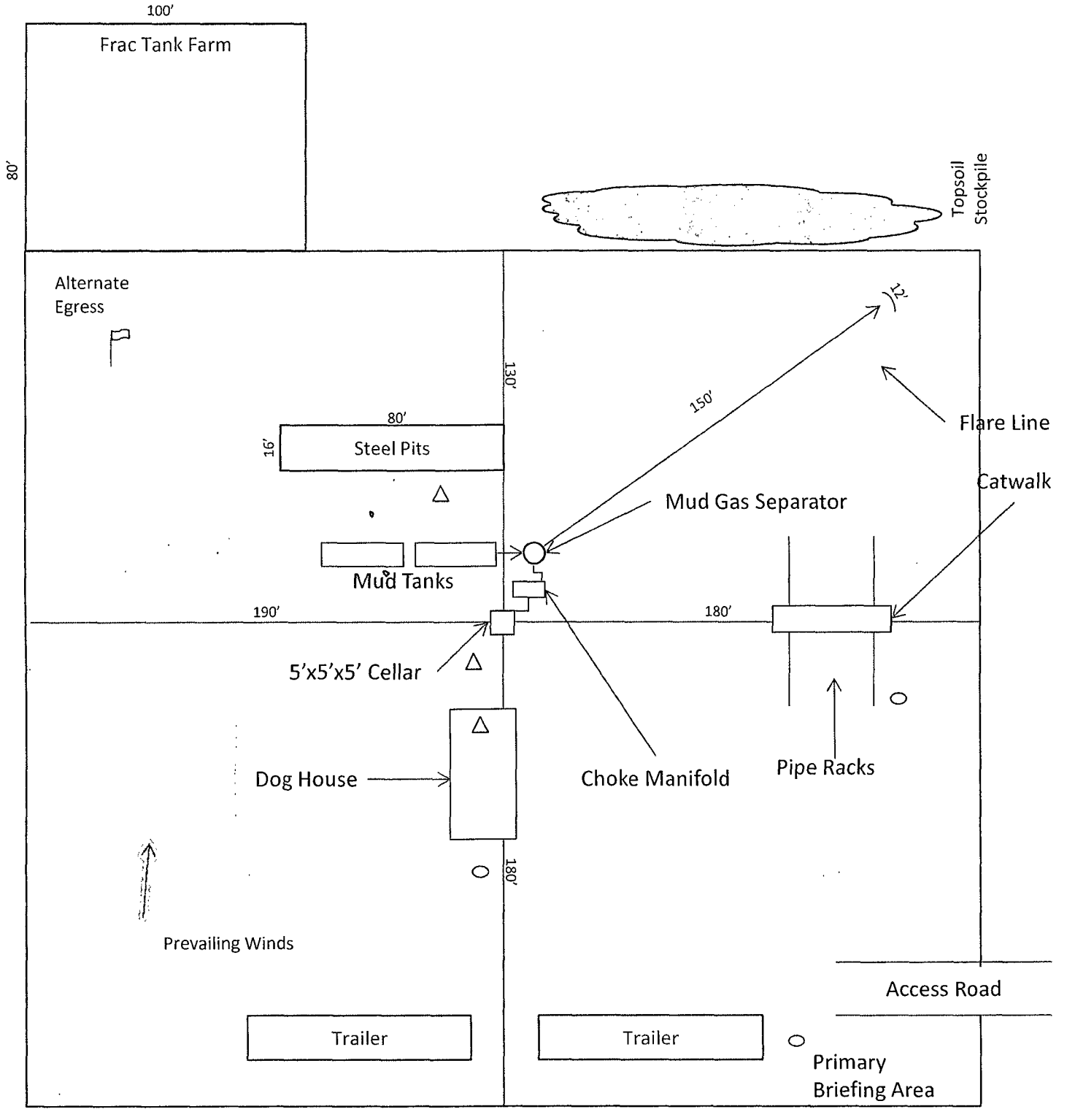
Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: *Zac Mcconnell*

x

Approved By: *Kim Thomas*

x



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 10H
Cimarex Energy Co.
25-24S-32E
SHL 330' FNL & 1980' FWL
BHL 330' FSL & 1980' FWL
Lea County, NM