

ATS-14-600

OCD Hobbs

Form 3160-3
(March 2012)

HOBBS OCD

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SEP 12 2014

APPLICATION FOR PERMIT TO DRILL OR REENTER

RECEIVED

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. <39568> Triste Draw 25 Federal #5H	
2. Name of Operator Cimarex Energy Co.		9. API Well No. 30-025-42105	
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, BS 96603	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At Surface 370 FSL & 1270 FEL At proposed prod. Zone 330 FNL & 440 FEL 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) 370	16. No of acres in lease NMLC 063228=1600.00 acres	17. Spacing Unit dedicated to this well 160.00	
18. Distance from proposed* location to nearest well, drilling, completed, applied for, on this lease, ft. 20' to the # 6H	19. Proposed Depth Pilot Hole TD: N/A 14,253 MD 9,800 TVD 14347	20. BLM/BIA Bond No. on File NM2575; NMB000835	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3692 GR	22. Approximate date work will start* 5/5/14	23. Estimated duration 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 2) |
| 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 authority |

25. Signature <i>Aricka Easterling</i>	Name (Printed/Typed) Aricka Easterling	Date 2/28/14
Title Regulatory Compliance		
Approved By (Signature) Steve Caffey	Name (Printed/Typed) Office CARLSBAD FIELD OFFICE	Date SEP 3 2014
Title FIELD MANAGER		

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

SEP 16 2014

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

E-PERMITTING -- New Well ☒
Comp P&A ☐ TA ☐
CSNG ☐ Loc Chng ☐
ReComp ☐ Add New Well ☐
Canc Well ☐ Create Pool ☐

Operator Certification Statement

Triste Draw 25 Federal #5H

Cimarex Energy Co.

UL: P, Sec. 25, 23S, 32E

Lea Co., NM

HOBBS OCD

SEP 12 2014

RECEIVED

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 Federal #5H
Cimarex Energy Co.
UL: P, Sec. 25, 23S, 32E
Lea Co., NM

11. Proposed Mud Circulating System:

Depth	Mud Weight	Visc	Fluid Loss	Type Mud
0' to 1270'	7.80 - 8.30	28	NC	FW Spud Mud
1270' to 5000'	9.50 - 10.00	30-32	NC	Brine Water
5000' to 14255'	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:

See COA H₂S
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: 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 potentialized as **Oil**



Cimarex

PATHFINDER
A Schlumberger Company

Borehole:	Well:	Field:	Structure:
Original Borehole	Triste Draw 25 Fed #5H	NM Lea County	TBD

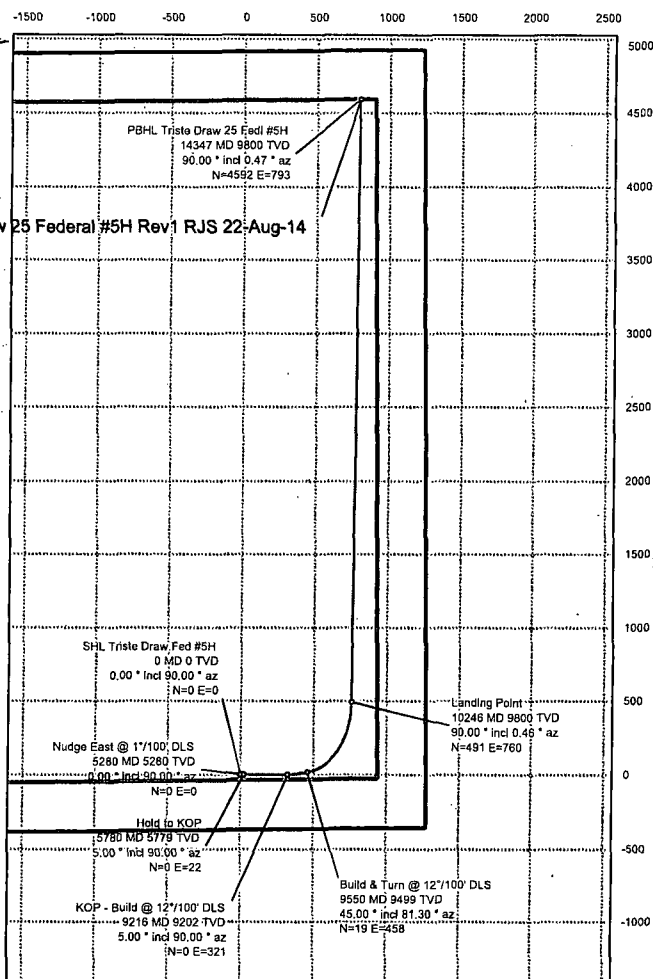
Gravity & Magnetic Parameters	Surface Location	Miscellaneous
Model: BGGM 2014 Dip: 60.134° Date: 22-Aug-2014	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Triste Draw 25
MagDec: 7.382° FS: 48279.555nT Gravity FS: 998.69mgm (9.80665 Based)	Lat: N 32 16 10.18 Northing: 462499.7RUS Grid Conv: 0.3788°	Slot: Federal #5H TVD Ref: Unknown(3692ft above MSL)
	Lon: W 103 37 25.89 Easting: 760623.1RUS Scale Fact: 0.99995416	Plan: Rev1 RJS 22-Aug-14



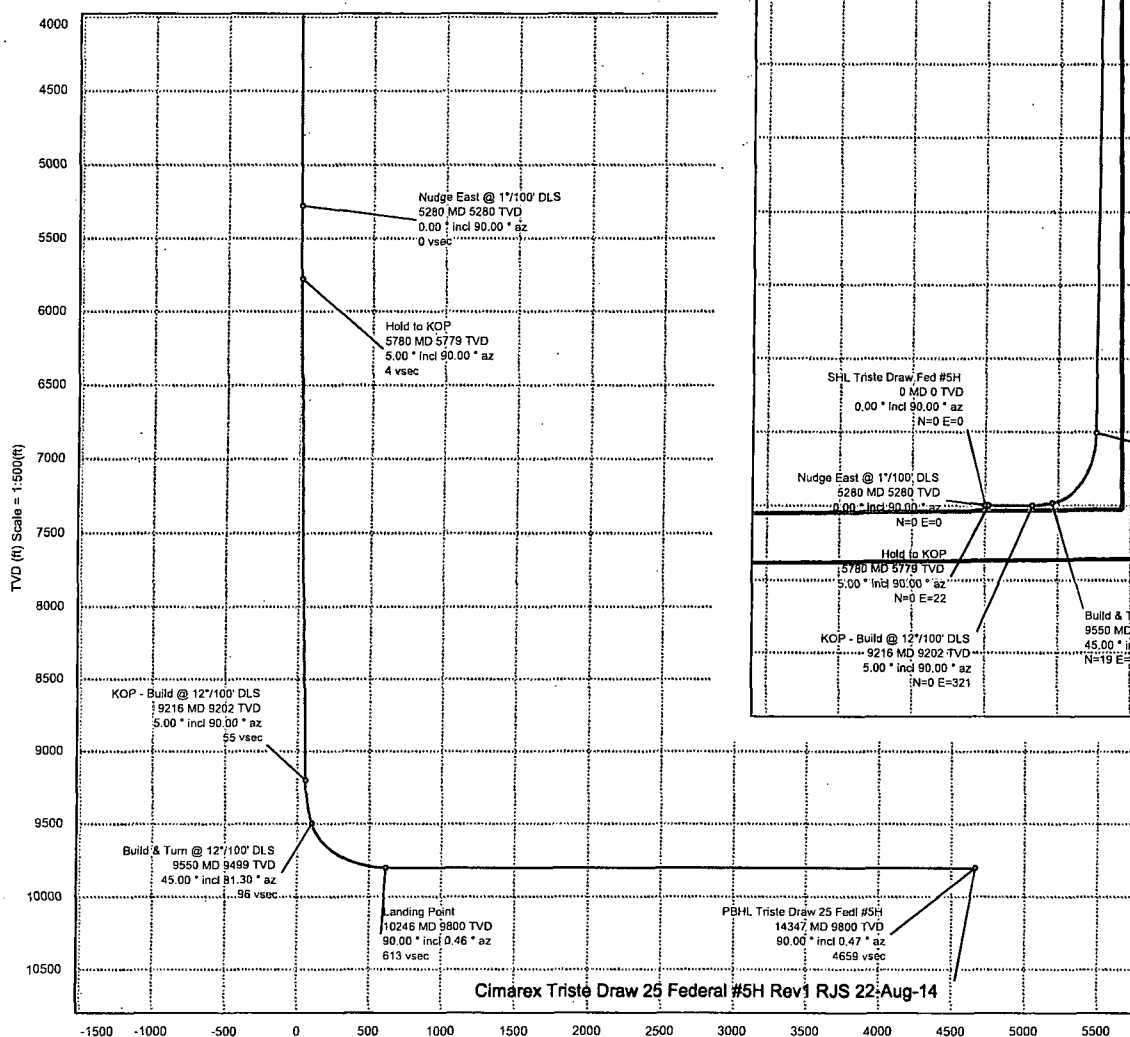
Grid North
Tot Corr (M→G 7.003°)
Mag Dec (7.382°)
Grid Conv (0.379°)



EW (ft) Scale = 1:500 (ft)



Cimarex Triste Draw 25 Federal #5H Rev1 RJS 22-Aug-14



Vertical Section (ft) Azim = 9.79° Scale = 1:500 (ft) Origin = 0N/-S, 0E/-W

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL Triste Draw Fed #5H	0.00	0.00	90.00	0.00	0.00	0.00	0.00	
Nudge East @ 1°/100' DLS	5280.00	0.00	90.00	5280.00	0.00	0.00	0.00	0.00
Hold to KOP	5780.00	5.00	90.00	5779.37	3.71	0.00	21.80	1.00
KOP - Build @ 12°/100' DLS	9215.71	5.00	90.00	9202.00	54.65	0.00	321.24	0.00
Avalon Shale	9485.11	37.27	81.56	9450.00	82.92	12.30	416.20	12.00
Build & Turn @ 12°/100' DLS	9549.57	45.00	81.30	9498.51	98.27	18.62	458.09	12.00
Landing Point	10245.61	80.00	0.46	9800.00	612.63	490.58	759.54	12.00
PBHL Triste Draw 25 Fed #5H	14346.74	90.00	0.46	9800.00	4659.49	4591.57	792.53	0.00



Cimarex Triste Draw 25 Federal #5H Rev1 RJS 22-Aug-14 Proposal
Report 100' Interpolated
(Non-Def Plan)



Report Date: August 22, 2014 - 12:25 PM
Client: Cimarex
Field: NM Lea County (NAD 83)
Structure / Slot: TBD / Triste Draw 25 Federal #5H
Well: Triste Draw 25 Federal #5H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Cimarex Triste Draw 25 Federal #5H Rev1 RJS 22-Aug-14
Survey Date: August 22, 2014
Tort / AHD / DDI / ERD Ratio: 128.605' / 5165.848 ft / 5.988 / 0.527
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 16' 10.17723", W 103° 37' 25.88887"
Location Grid N/E Y/X: N 462499.700 ftUS, E 760623.100 ftUS
CRS Grid Convergence Angle: 0.3788°
Grid Scale Factor: 0.99998416
Version / Patch: 2.7.1043.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 9.794° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: Unknown
TVD Reference Elevation: 3692.000 ft above MSL
Seabed / Ground Elevation: 3692.000 ft above MSL
Magnetic Declination: 7.382°
Total Gravity Field Strength: 998.6905mgn (9.80665 Based)
Gravity Model: DOX
Total Magnetic Field Strength: 48279.556 nT
Magnetic Dip Angle: 60.134°
Declination Date: August 22, 2014
Magnetic Declination Model: BGM 2014
North Reference: Grid North
Grid Convergence Used: 0.3788°
Total Corr Mag North->Grid North: 7.0031°
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	DLS (°/100ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL Triste Draw Fed #5H	0.00	0.00	90.00	0.00	-3692.00	0.00	N/A	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	100.00	0.00	90.00	100.00	-3592.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	200.00	0.00	90.00	200.00	-3492.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	300.00	0.00	90.00	300.00	-3392.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	400.00	0.00	90.00	400.00	-3292.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	500.00	0.00	90.00	500.00	-3192.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	600.00	0.00	90.00	600.00	-3092.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	700.00	0.00	90.00	700.00	-2992.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	800.00	0.00	90.00	800.00	-2892.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	900.00	0.00	90.00	900.00	-2792.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	1000.00	0.00	90.00	1000.00	-2692.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	1100.00	0.00	90.00	1100.00	-2592.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	1200.00	0.00	90.00	1200.00	-2492.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	1300.00	0.00	90.00	1300.00	-2392.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	1400.00	0.00	90.00	1400.00	-2292.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	1500.00	0.00	90.00	1500.00	-2192.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	1600.00	0.00	90.00	1600.00	-2092.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	1700.00	0.00	90.00	1700.00	-1992.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	1800.00	0.00	90.00	1800.00	-1892.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	1900.00	0.00	90.00	1900.00	-1792.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	2000.00	0.00	90.00	2000.00	-1692.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	2100.00	0.00	90.00	2100.00	-1592.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	2200.00	0.00	90.00	2200.00	-1492.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	2300.00	0.00	90.00	2300.00	-1392.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	2400.00	0.00	90.00	2400.00	-1292.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	2500.00	0.00	90.00	2500.00	-1192.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	2600.00	0.00	90.00	2600.00	-1092.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	2700.00	0.00	90.00	2700.00	-992.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	2800.00	0.00	90.00	2800.00	-892.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	2900.00	0.00	90.00	2900.00	-792.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	3000.00	0.00	90.00	3000.00	-692.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	3100.00	0.00	90.00	3100.00	-592.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89
	3200.00	0.00	90.00	3200.00	-492.00	0.00	0.00	0.00	0.00	462499.70	760623.10	N 32 16 10.18	W 103 37 25.89

Comments	MD	Incl	Azim Grid	TVD	TVDS	VSEC	DLS	NS	EW	Northing	Easting	Latitude	Longitude
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft/100ft)	(ft)	(ft)	(ft)	(ft)	(N/S °)	(E/W °)
	3500.00	0.00	90.00	3500.00	-192.00	0.00	0.00	0.00	0.00	462499.70	760623.10	32 16 10.18	W 103 37 25.89
	3600.00	0.00	90.00	3600.00	-92.00	0.00	0.00	0.00	0.00	462499.70	760623.10	32 16 10.18	W 103 37 25.89
	3700.00	0.00	90.00	3700.00	8.00	0.00	0.00	0.00	0.00	462499.70	760623.10	32 16 10.18	W 103 37 25.89
	3800.00	0.00	90.00	3800.00	108.00	0.00	0.00	0.00	0.00	462499.70	760623.10	32 16 10.18	W 103 37 25.89
	3900.00	0.00	90.00	3900.00	208.00	0.00	0.00	0.00	0.00	462499.70	760623.10	32 16 10.18	W 103 37 25.89
	4000.00	0.00	90.00	4000.00	308.00	0.00	0.00	0.00	0.00	462499.70	760623.10	32 16 10.18	W 103 37 25.89
	4100.00	0.00	90.00	4100.00	408.00	0.00	0.00	0.00	0.00	462499.70	760623.10	32 16 10.18	W 103 37 25.89
	4200.00	0.00	90.00	4200.00	508.00	0.00	0.00	0.00	0.00	462499.70	760623.10	32 16 10.18	W 103 37 25.89
	4300.00	0.00	90.00	4300.00	608.00	0.00	0.00	0.00	0.00	462499.70	760623.10	32 16 10.18	W 103 37 25.89
	4400.00	0.00	90.00	4400.00	708.00	0.00	0.00	0.00	0.00	462499.70	760623.10	32 16 10.18	W 103 37 25.89
	4500.00	0.00	90.00	4500.00	808.00	0.00	0.00	0.00	0.00	462499.70	760623.10	32 16 10.18	W 103 37 25.89
	4600.00	0.00	90.00	4600.00	908.00	0.00	0.00	0.00	0.00	462499.70	760623.10	32 16 10.18	W 103 37 25.89
	4700.00	0.00	90.00	4700.00	1008.00	0.00	0.00	0.00	0.00	462499.70	760623.10	32 16 10.18	W 103 37 25.89
	4800.00	0.00	90.00	4800.00	1108.00	0.00	0.00	0.00	0.00	462499.70	760623.10	32 16 10.18	W 103 37 25.89
	4900.00	0.00	90.00	4900.00	1208.00	0.00	0.00	0.00	0.00	462499.70	760623.10	32 16 10.18	W 103 37 25.89
	5000.00	0.00	90.00	5000.00	1308.00	0.00	0.00	0.00	0.00	462499.70	760623.10	32 16 10.18	W 103 37 25.89
	5100.00	0.00	90.00	5100.00	1408.00	0.00	0.00	0.00	0.00	462499.70	760623.10	32 16 10.18	W 103 37 25.89
	5200.00	0.00	90.00	5200.00	1508.00	0.00	0.00	0.00	0.00	462499.70	760623.10	32 16 10.18	W 103 37 25.89
	5280.00	0.00	90.00	5280.00	1588.00	0.00	0.00	0.00	0.00	462499.70	760623.10	32 16 10.18	W 103 37 25.89
	5300.00	0.20	90.00	5300.00	1608.00	0.01	0.01	0.00	0.03	462499.70	760623.13	32 16 10.18	W 103 37 25.89
	5400.00	1.20	90.00	5399.99	1707.99	0.21	1.00	0.00	1.26	462499.70	760623.36	32 16 10.18	W 103 37 25.87
	5500.00	2.20	90.00	5499.95	1807.95	0.72	1.00	0.00	4.22	462499.70	760623.32	32 16 10.18	W 103 37 25.84
	5600.00	3.20	90.00	5599.83	1907.83	1.52	1.00	0.00	8.93	462499.70	760623.03	32 16 10.18	W 103 37 25.78
	5700.00	4.20	90.00	5699.62	2007.62	2.62	1.00	0.00	15.39	462499.70	760623.49	32 16 10.18	W 103 37 25.71
	5780.00	5.00	90.00	5779.37	2087.37	3.71	1.00	0.00	21.80	462499.70	760644.90	32 16 10.18	W 103 37 25.63
	5800.00	5.00	90.00	5799.29	2107.29	4.01	0.00	0.00	23.55	462499.70	760646.64	32 16 10.18	W 103 37 25.61
	5900.00	5.00	90.00	5898.91	2206.91	5.49	0.00	0.00	32.26	462499.70	760655.36	32 16 10.18	W 103 37 25.51
	6000.00	5.00	90.00	5998.53	2306.53	6.97	0.00	0.00	40.98	462499.70	760664.08	32 16 10.17	W 103 37 25.41
	6100.00	5.00	90.00	6098.15	2406.15	8.45	0.00	0.00	49.69	462499.70	760672.79	32 16 10.17	W 103 37 25.31
	6200.00	5.00	90.00	6197.77	2505.77	9.94	0.00	0.00	58.41	462499.70	760681.51	32 16 10.17	W 103 37 25.21
	6300.00	5.00	90.00	6297.39	2605.39	11.42	0.00	0.00	67.12	462499.70	760689.22	32 16 10.17	W 103 37 25.11
	6400.00	5.00	90.00	6397.01	2705.01	12.90	0.00	0.00	75.84	462499.70	760698.94	32 16 10.17	W 103 37 25.01
	6500.00	5.00	90.00	6496.63	2804.63	14.38	0.00	0.00	84.56	462499.70	760707.65	32 16 10.17	W 103 37 24.90
	6600.00	5.00	90.00	6596.25	2904.25	15.87	0.00	0.00	93.27	462499.70	760716.37	32 16 10.17	W 103 37 24.80
	6700.00	5.00	90.00	6695.86	3003.86	17.35	0.00	0.00	101.99	462499.70	760725.08	32 16 10.17	W 103 37 24.70
	6800.00	5.00	90.00	6795.48	3103.48	18.83	0.00	0.00	110.70	462499.70	760733.80	32 16 10.17	W 103 37 24.60
	6900.00	5.00	90.00	6895.10	3203.10	20.31	0.00	0.00	119.42	462499.70	760742.51	32 16 10.17	W 103 37 24.50
	7000.00	5.00	90.00	6994.72	3302.72	21.80	0.00	0.00	128.13	462499.70	760751.23	32 16 10.17	W 103 37 24.40
	7100.00	5.00	90.00	7094.34	3402.34	23.28	0.00	0.00	136.85	462499.70	760759.94	32 16 10.17	W 103 37 24.30
	7200.00	5.00	90.00	7193.96	3501.96	24.76	0.00	0.00	145.56	462499.70	760768.66	32 16 10.17	W 103 37 24.19
	7300.00	5.00	90.00	7293.58	3601.58	26.24	0.00	0.00	154.28	462499.70	760777.37	32 16 10.17	W 103 37 24.09
	7400.00	5.00	90.00	7393.20	3701.20	27.73	0.00	0.00	163.00	462499.70	760786.09	32 16 10.17	W 103 37 23.99
	7500.00	5.00	90.00	7492.82	3800.82	29.21	0.00	0.00	171.71	462499.70	760794.80	32 16 10.17	W 103 37 23.89
	7600.00	5.00	90.00	7592.44	3900.44	30.69	0.00	0.00	180.43	462499.70	760803.52	32 16 10.17	W 103 37 23.79
	7700.00	5.00	90.00	7692.06	4000.06	32.18	0.00	0.00	189.14	462499.70	760812.23	32 16 10.16	W 103 37 23.69
	7800.00	5.00	90.00	4099.68	4099.68	33.66	0.00	0.00	197.86	462499.70	760820.95	32 16 10.16	W 103 37 23.58
	7900.00	5.00	90.00	4199.30	4199.30	35.14	0.00	0.00	206.57	462499.70	760829.67	32 16 10.16	W 103 37 23.48
	8000.00	5.00	90.00	4298.92	4298.92	36.62	0.00	0.00	215.29	462499.70	760838.38	32 16 10.16	W 103 37 23.38
	8100.00	5.00	90.00	4398.54	4398.54	38.11	0.00	0.00	224.00	462499.70	760847.10	32 16 10.16	W 103 37 23.28
	8200.00	5.00	90.00	4498.16	4498.16	39.59	0.00	0.00	232.72	462499.70	760855.81	32 16 10.16	W 103 37 23.18
	8300.00	5.00	90.00	4597.78	4597.78	41.07	0.00	0.00	241.44	462499.70	760864.53	32 16 10.16	W 103 37 23.08
	8400.00	5.00	90.00	4697.40	4697.40	42.55	0.00	0.00	250.15	462499.70	760873.24	32 16 10.16	W 103 37 22.98
	8500.00	5.00	90.00	4797.02	4797.02	44.04	0.00	0.00	258.87	462499.70	760881.96	32 16 10.16	W 103 37 22.87
	8600.00	5.00	90.00	4896.63	4896.63	45.52	0.00	0.00	267.58	462499.70	760890.67	32 16 10.16	W 103 37 22.77
	8700.00	5.00	90.00	4996.25	4996.25	47.00	0.00	0.00	276.30	462499.70	760899.39	32 16 10.16	W 103 37 22.67

Hold to KOP
Nudge East @
17100' DLS

Comments	MD	Incl	Azim Grid	TVD	TVSS	VSEC	DLS	NS	EW	Northng	Eastng	Latitude	Longitude
	(ft)	(°)		(ft)	(ft)	(ft)	("/100ft)	(ft)	(ft)	(ft)	(ft)	(N/S...)	(E/W...)
	8600.00	5.00	8787.87	5095.87	48.48	0.00	0.00	285.01	462499.70	760908.10	32 16 10.16	W 103 37 22.57	
	8900.00	5.00	8887.49	5195.49	49.97	0.00	0.00	293.73	462499.70	760916.82	32 16 10.16	W 103 37 22.47	
	9000.00	5.00	8987.11	5295.11	51.45	0.00	0.00	302.44	462499.70	760925.53	32 16 10.16	W 103 37 22.37	
	9100.00	5.00	9086.73	5394.73	52.93	0.00	0.00	311.16	462499.70	760934.25	32 16 10.16	W 103 37 22.27	
	9200.00	5.00	9186.35	5494.35	54.41	0.00	0.00	319.88	462499.70	760942.96	32 16 10.16	W 103 37 22.16	
KOP - Build @	9215.71	5.00	9202.00	5510.00	54.65	0.00	0.00	321.24	462499.70	760944.33	32 16 10.16	W 103 37 22.15	
	9300.00	15.07	9294.90	5592.90	58.35	12.00	12.00	335.84	462500.93	760958.93	32 16 10.17	W 103 37 21.98	
	9400.00	27.06	9378.05	5686.05	68.93	12.00	12.00	371.42	462505.54	760994.50	32 16 10.21	W 103 37 21.56	
Build & Turn @	9500.00	39.05	9461.71	5769.71	85.80	12.00	12.00	425.30	462513.35	761048.38	32 16 10.28	W 103 37 20.93	
12°/100' DLS	9549.57	45.00	9498.51	5806.51	96.27	12.00	12.00	458.09	462518.32	761081.18	32 16 10.33	W 103 37 20.55	
	9600.00	46.00	9533.89	5841.89	110.14	12.00	12.00	493.09	462526.35	761116.17	32 16 10.41	W 103 37 20.14	
	9700.00	49.65	9601.25	5909.25	152.21	12.00	12.00	559.84	462557.51	761182.92	32 16 10.71	W 103 37 19.36	
	9800.00	55.12	9662.44	5970.44	212.02	12.00	12.00	620.66	462607.71	761243.73	32 16 11.21	W 103 37 18.65	
	9900.00	61.88	9714.80	6022.80	286.97	12.00	12.00	672.88	462674.75	761295.96	32 16 11.87	W 103 37 18.04	
10000.00	69.50	77.66	9756.02	6064.02	373.78	12.00	12.00	714.23	462755.71	761337.31	32 16 12.66	W 103 37 17.55	
	10100.00	86.11	9784.32	6092.32	468.66	12.00	12.00	742.91	462847.03	761365.98	32 16 13.57	W 103 37 17.21	
	10200.00	86.11	9798.45	6106.45	567.45	12.00	12.00	757.64	462944.74	761380.71	32 16 14.53	W 103 37 17.03	
	10245.61	90.00	9800.00	6108.00	612.63	12.00	12.00	759.54	462990.26	761382.61	32 16 14.98	W 103 37 17.01	
	10300.00	90.00	9800.00	6108.00	666.30	0.00	0.00	759.97	463044.65	761383.04	32 16 15.52	W 103 37 17.00	
10400.00	90.00	0.46	9800.00	6108.00	764.98	0.00	0.00	760.78	463144.64	761383.85	32 16 16.51	W 103 37 16.98	
10500.00	90.00	0.46	9800.00	6108.00	844.96	0.00	0.00	774.96	463244.63	761384.65	32 16 17.50	W 103 37 16.94	
10600.00	90.00	0.46	9800.00	6108.00	962.33	0.00	0.00	844.96	463344.63	761385.45	32 16 18.49	W 103 37 16.94	
10700.00	90.00	0.46	9800.00	6108.00	1061.01	0.00	0.00	944.95	463444.62	761386.28	32 16 19.48	W 103 37 16.93	
10800.00	90.00	0.46	9800.00	6108.00	1159.66	0.00	0.00	1044.95	463544.61	761387.06	32 16 20.47	W 103 37 16.91	
10900.00	90.00	0.46	9800.00	6108.00	1258.36	0.00	0.00	1144.95	463644.60	761387.86	32 16 21.46	W 103 37 16.89	
11000.00	90.00	0.46	9800.00	6108.00	1357.04	0.00	0.00	1244.94	463744.60	761388.67	32 16 22.45	W 103 37 16.88	
11100.00	90.00	0.46	9800.00	6108.00	1455.71	0.00	0.00	1344.94	463844.59	761389.47	32 16 23.43	W 103 37 16.86	
11200.00	90.00	0.46	9800.00	6108.00	1554.39	0.00	0.00	1444.94	463944.58	761390.28	32 16 24.42	W 103 37 16.84	
11300.00	90.00	0.46	9800.00	6108.00	1653.06	0.00	0.00	1544.93	464044.58	761391.08	32 16 25.41	W 103 37 16.83	
11400.00	90.00	0.46	9800.00	6108.00	1751.74	0.00	0.00	1644.93	464144.57	761391.89	32 16 26.40	W 103 37 16.81	
11500.00	90.00	0.46	9800.00	6108.00	1850.42	0.00	0.00	1744.93	464244.56	761392.69	32 16 27.39	W 103 37 16.79	
11600.00	90.00	0.46	9800.00	6108.00	1949.09	0.00	0.00	1844.93	464344.55	761393.50	32 16 28.38	W 103 37 16.77	
11700.00	90.00	0.46	9800.00	6108.00	2047.77	0.00	0.00	1944.92	464444.54	761394.30	32 16 29.37	W 103 37 16.76	
11800.00	90.00	0.46	9800.00	6108.00	2146.45	0.00	0.00	2044.92	464544.54	761395.11	32 16 30.36	W 103 37 16.74	
11900.00	90.00	0.46	9800.00	6108.00	2245.12	0.00	0.00	2144.92	464644.53	761395.92	32 16 31.35	W 103 37 16.72	
12000.00	90.00	0.46	9800.00	6108.00	2343.80	0.00	0.00	2244.91	464744.53	761396.72	32 16 32.34	W 103 37 16.71	
12100.00	90.00	0.46	9800.00	6108.00	2442.48	0.00	0.00	2344.91	464844.52	761397.53	32 16 33.33	W 103 37 16.69	
12200.00	90.00	0.46	9800.00	6108.00	2541.15	0.00	0.00	2444.91	464944.51	761398.34	32 16 34.32	W 103 37 16.67	
12300.00	90.00	0.46	9800.00	6108.00	2639.83	0.00	0.00	2544.90	465044.51	761399.14	32 16 35.31	W 103 37 16.65	
12400.00	90.00	0.46	9800.00	6108.00	2738.50	0.00	0.00	2644.90	465144.50	761399.95	32 16 36.30	W 103 37 16.64	
12500.00	90.00	0.46	9800.00	6108.00	2837.18	0.00	0.00	2744.90	465244.49	761400.76	32 16 37.29	W 103 37 16.62	
12600.00	90.00	0.46	9800.00	6108.00	2935.86	0.00	0.00	2844.89	465344.48	761401.56	32 16 38.28	W 103 37 16.60	
12700.00	90.00	0.46	9800.00	6108.00	3034.53	0.00	0.00	2944.89	465444.48	761402.37	32 16 39.27	W 103 37 16.59	
12800.00	90.00	0.46	9800.00	6108.00	3133.21	0.00	0.00	3044.89	465544.47	761403.18	32 16 40.25	W 103 37 16.57	
12900.00	90.00	0.46	9800.00	6108.00	3231.89	0.00	0.00	3144.88	465644.46	761403.99	32 16 41.24	W 103 37 16.55	
13000.00	90.00	0.46	9800.00	6108.00	3330.57	0.00	0.00	3244.88	465744.46	761404.80	32 16 42.23	W 103 37 16.53	
13100.00	90.00	0.46	9800.00	6108.00	3429.24	0.00	0.00	3344.88	465844.45	761405.60	32 16 43.22	W 103 37 16.52	
13200.00	90.00	0.46	9800.00	6108.00	3527.92	0.00	0.00	3444.87	465944.44	761406.41	32 16 44.21	W 103 37 16.50	
13300.00	90.00	0.46	9800.00	6108.00	3626.60	0.00	0.00	3544.87	466044.44	761407.22	32 16 45.20	W 103 37 16.48	
13400.00	90.00	0.46	9800.00	6108.00	3725.27	0.00	0.00	3644.87	466144.43	761408.03	32 16 46.19	W 103 37 16.47	
13500.00	90.00	0.46	9800.00	6108.00	3823.95	0.00	0.00	3744.86	466244.42	761408.84	32 16 47.18	W 103 37 16.45	
13600.00	90.00	0.46	9800.00	6108.00	3922.63	0.00	0.00	3844.86	466344.41	761409.65	32 16 48.17	W 103 37 16.43	
13700.00	90.00	0.46	9800.00	6108.00	4021.30	0.00	0.00	3944.86	466444.41	761410.46	32 16 49.16	W 103 37 16.41	
13800.00	90.00	0.46	9800.00	6108.00	4119.98	0.00	0.00	4044.85	466544.40	761411.27	32 16 50.15	W 103 37 16.40	
13900.00	90.00	0.46	9800.00	6108.00	4218.66	0.00	0.00	4144.85	466644.39	761412.08	32 16 51.14	W 103 37 16.38	

Landing Point

127'100' DLS
Build & Turn @
127'100' DLS

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	DLS (°/100ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	14000.00	90.00	0.46	9800.00	6108.00	4317.33	0.00	4244.85	789.62	466744.39	761412.89	N 32 16 52.13	W 103 37 18.36
	14100.00	90.00	0.46	9800.00	6108.00	4416.01	0.00	4344.84	790.63	466844.38	761413.70	N 32 16 53.12	W 103 37 16.35
	14200.00	90.00	0.46	9800.00	6108.00	4514.69	0.00	4444.84	791.44	466944.37	761414.51	N 32 16 54.11	W 103 37 16.33
	14300.00	90.00	0.46	9800.00	6108.00	4613.37	0.00	4544.84	792.25	467044.36	761415.32	N 32 16 55.10	W 103 37 16.31
PBHL Triste Draw 25 Fedl #5H	14346.74	90.00	0.46	9800.00	6108.00	4659.49	0.00	4591.57	792.63	467091.10	761415.70	N 32 16 55.56	W 103 37 16.30

Survey Type: Non-Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	14346.738	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Triste Draw 25 Federal #5H Rev1 RJS

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

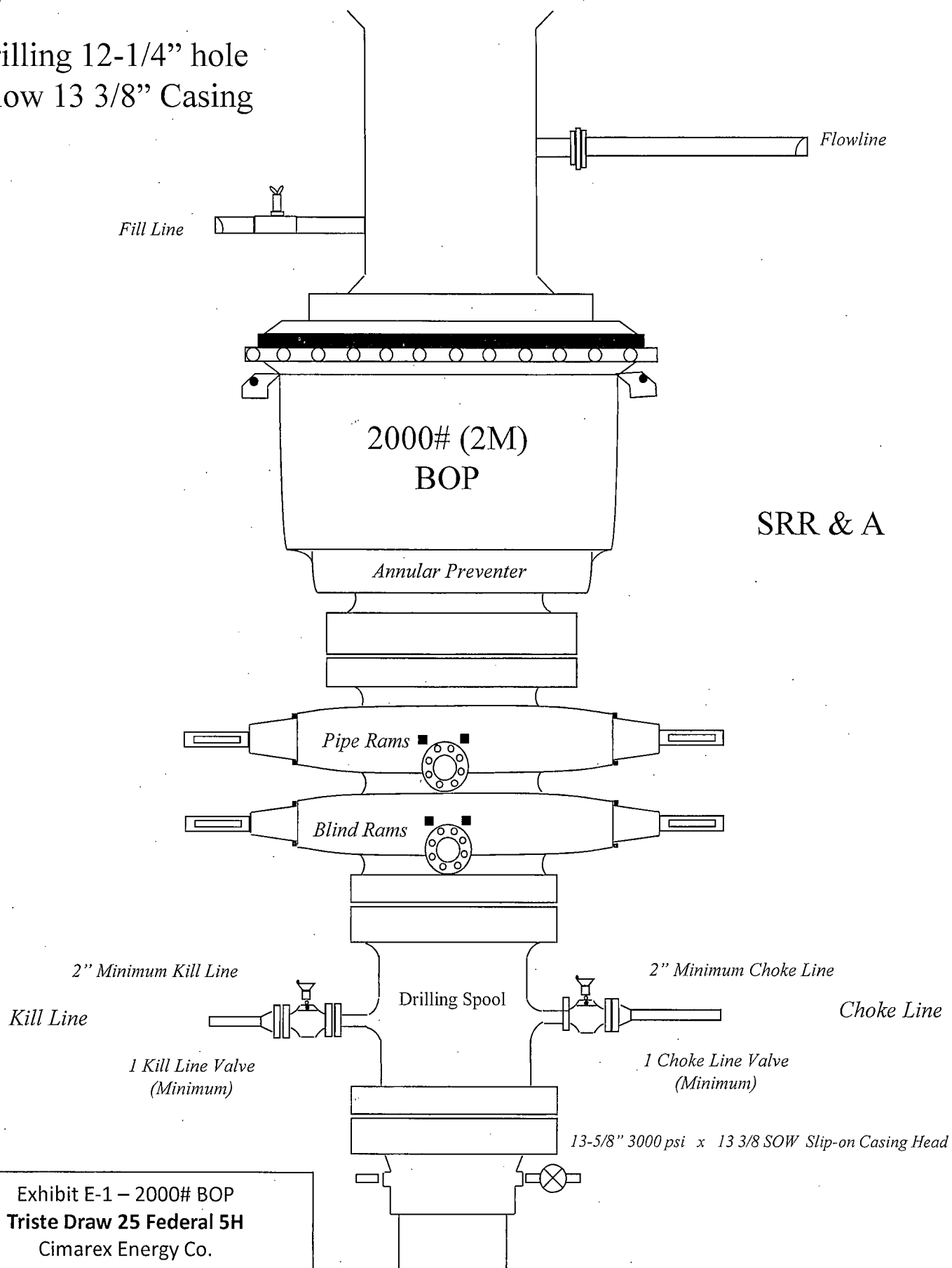


Exhibit E-1 – 2000# BOP
Triste Draw 25 Federal 5H
Cimarex Energy Co.
25-23S-32E
SHL 370 FSL & 1270 FEL
BHL 330 FNL & 440 FEL
Lea County, NM

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

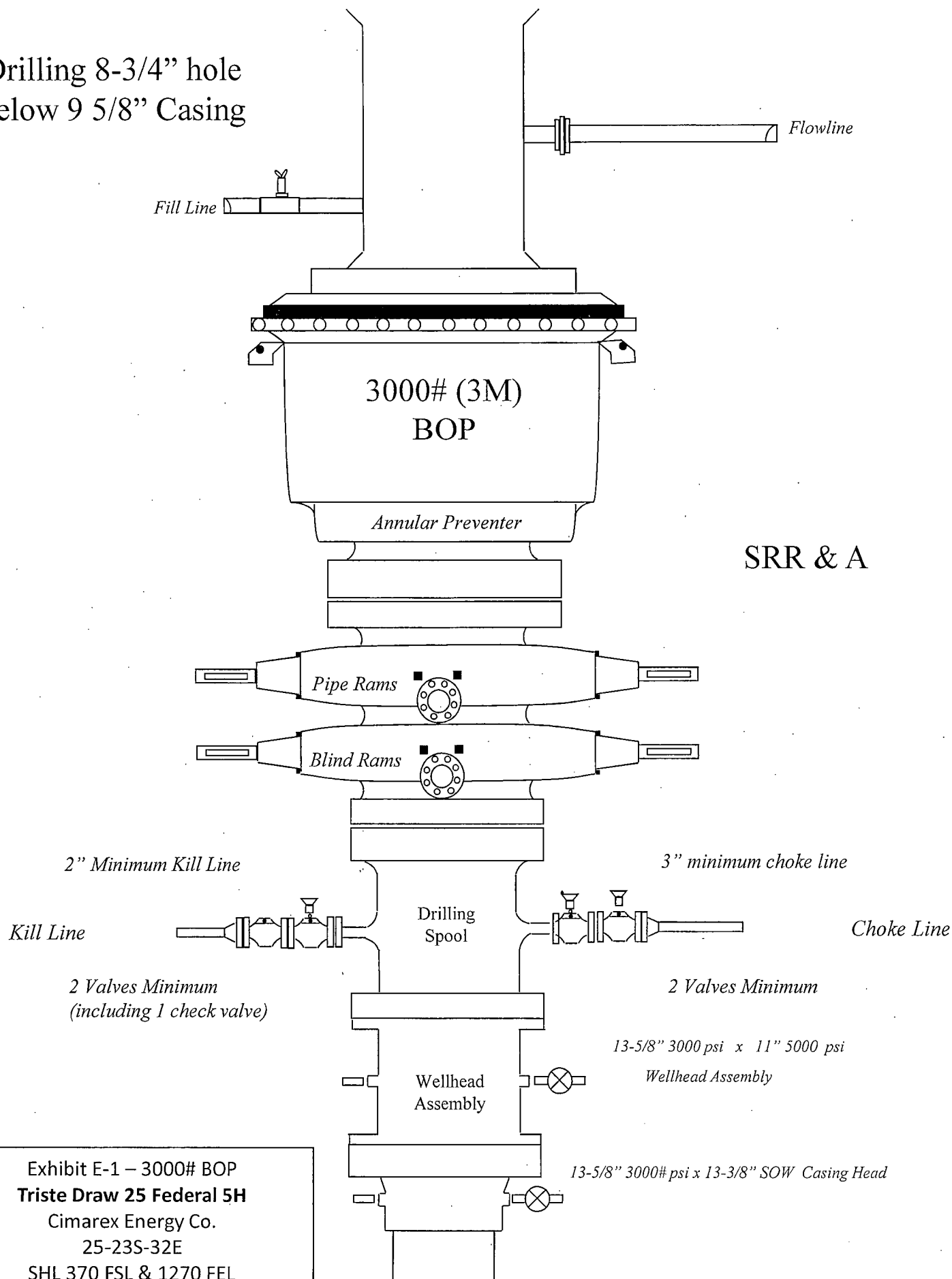
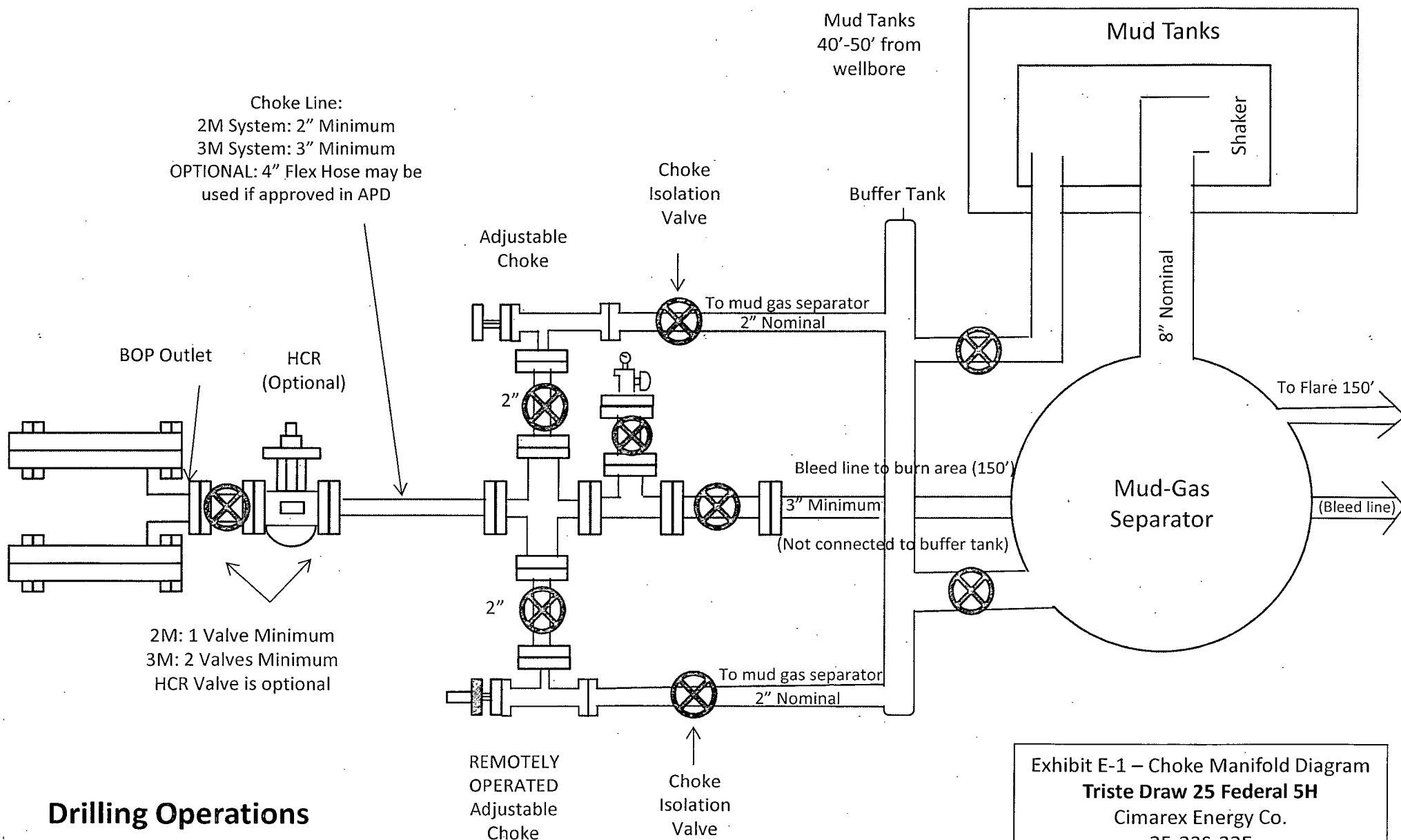


Exhibit E-1 – 3000# BOP
Triste Draw 25 Federal 5H
Cimarex Energy Co.
25-23S-32E
SHL 370 FSL & 1270 FEL
BHL 330 FNL & 440 FEL
Lea County, NM

Choke Line:
 2M System: 2" Minimum
 3M System: 3" Minimum
 OPTIONAL: 4" Flex Hose may be
 used if approved in APD



Drilling Operations **Choke Manifold** **2M/3M Service**

Exhibit E-1 – Choke Manifold Diagram
Triste Draw 25 Federal 5H
 Cimarex Energy Co.
 25-23S-32E
 SHL 370 FSL & 1270 FEL
 BHL 330 FNL & 440 FEL
 Lea County, NM

Exhibit F-1 – Co-Flex Hose Hydrostatic Test

Triste Draw 25 Federal 5H

Cimarex Energy Co.

25-23S-32E

SHL 370 FSL & 1270 FEL

BHL 330 FNL & 440 FEL

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. Joann Sauer

Approved:

Kevin H. H.



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

Customer: Houston

Pick Ticket #: 94260

March 3, 2011

Hose Specifications

Hose Type
C.S.K.
I.D.
4"

Length
45'

Type of Fittings
41/16 JOK
Die Size
6.38"

Coupling Method
Swage
Final O.D.
6.25"

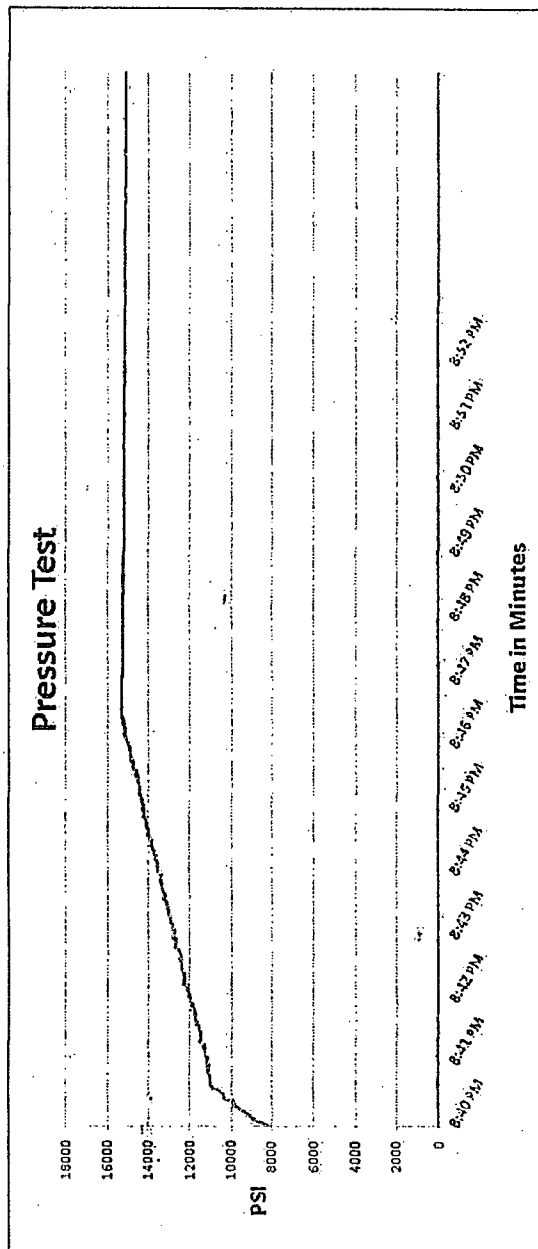
Verification

Hose Serial #
5544

Burst Pressure
Standard Safety Multiplier Applied

Working Pressure
10000 PSI

Pressure Test



Test Pressure
15000 PSI

Time Held at Test Pressure
11 Minutes

Actual Burst Pressure

Peak Pressure
15483 PSI

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

Tested By: Zac McConnell

Approved By: Kim Thomas

[Signature]

[Signature]

Certificate of Conformity

Customer: DEM		PO ODYD-271
SPECIFICATIONS		
Sales Order 79793	Dated: 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: <i>James Garcia</i>	Date: 3/8/2011	



Midwest Hose
& Specialty, Inc.

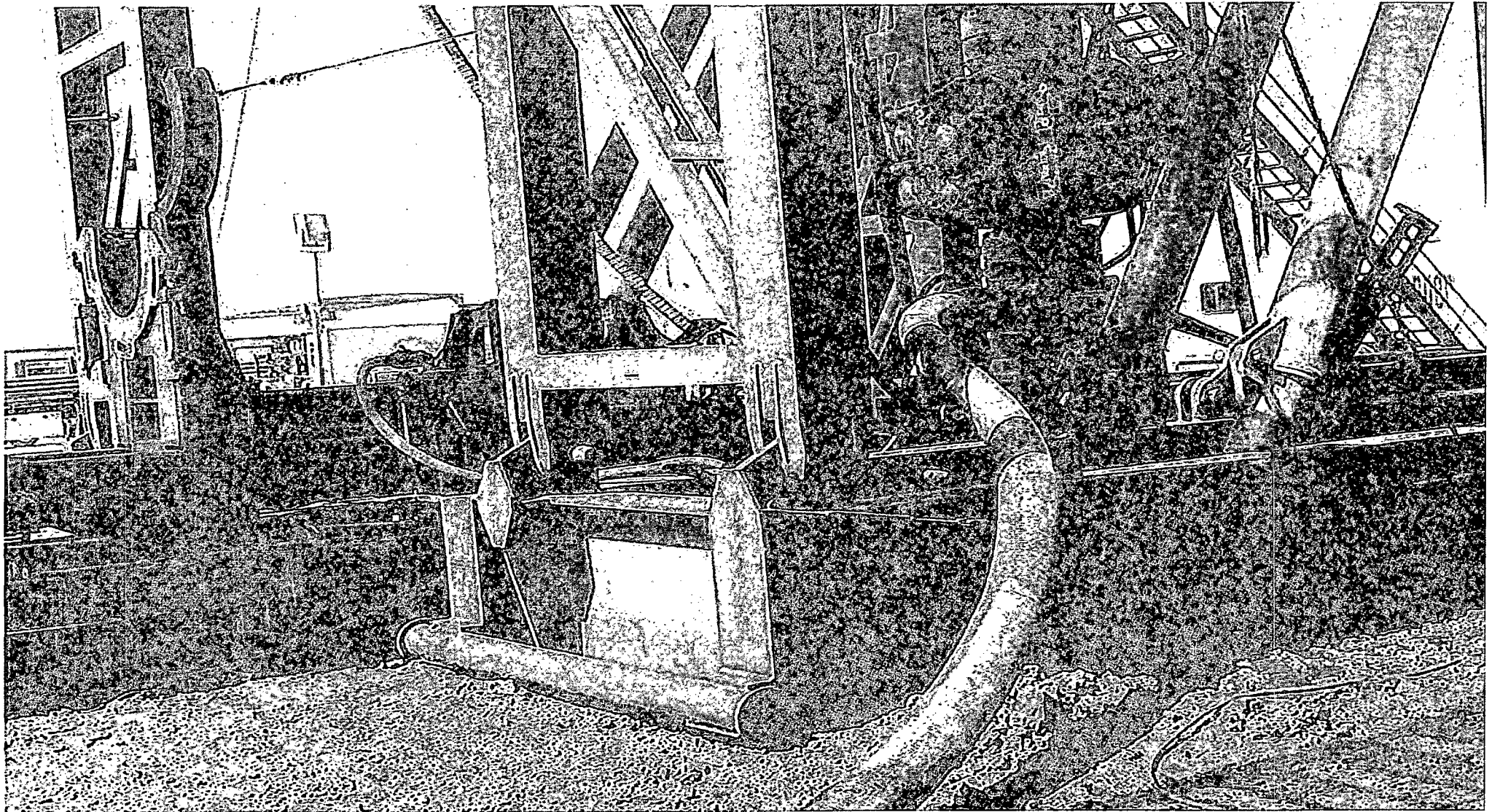
Exhibit F -3- Co-Flex Hose
Triste Draw 25 Federal 5H
Cimarex Energy Co.
25-23S-32E
SHL 370 FSL & 1270 FEL
BHL 330 FNL & 440 FEL
Lea County, NM

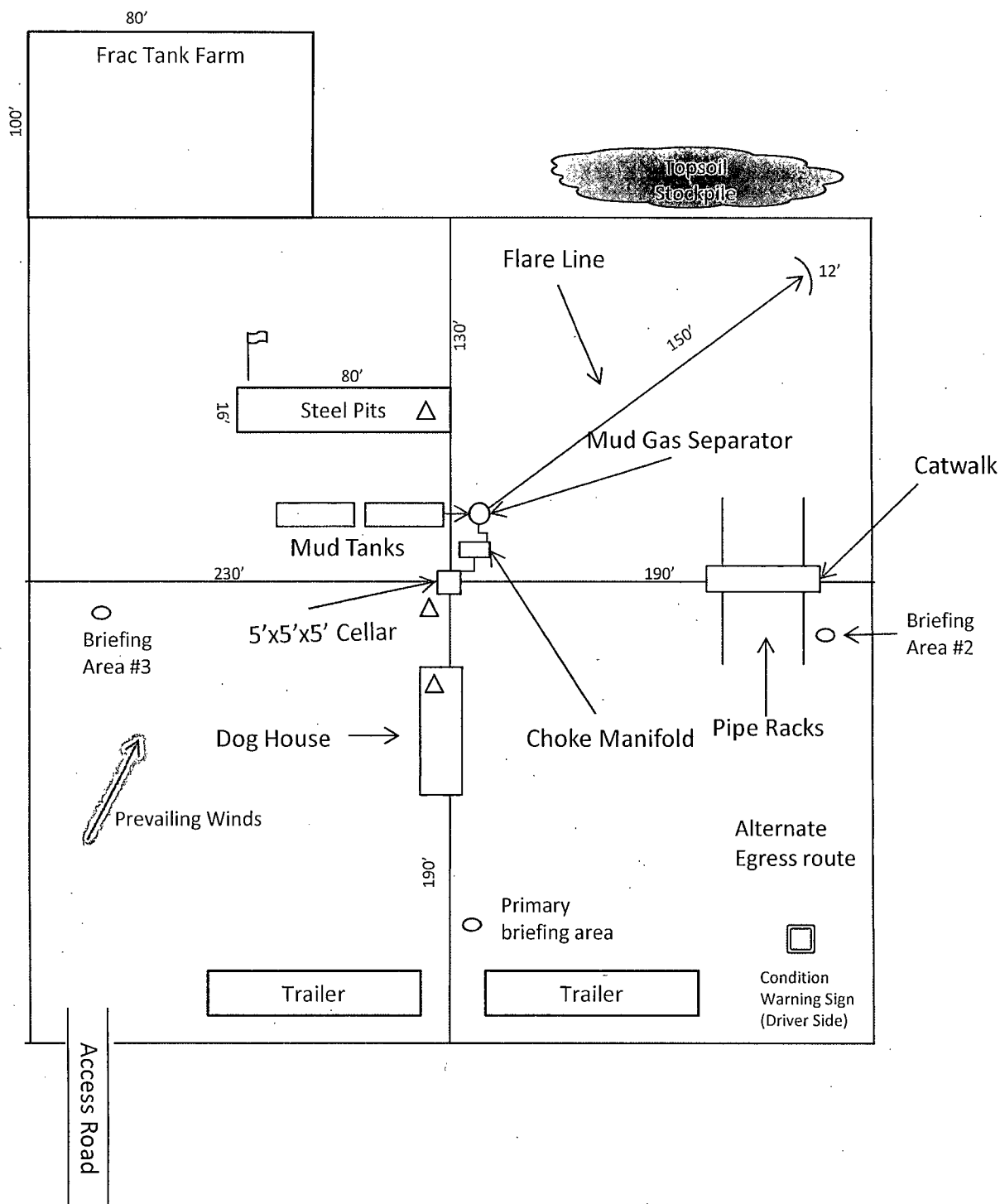
Specification Sheet Choke & Kill Hose

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 – Co-Flex Hose
Triste Draw 25 Federal 5H
Cimarex Energy Co.
25-23S-32E
SHL 370 FSL & 1270 FEL
BHL 330 FNL & 440 FEL
Lea County, NM





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



Exhibit D-1 – Rig Diagram
Triste Draw 25 Federal 5H
 Cimarex Energy Co.
 25-23S-32E
 SHL 370 FSL & 1270 FEL
 BHL 330 FNL & 440 FEL
 Lea County, NM