1. Geological Formations

TVD of target 9,450 MD at TD 13,692

Pilot Hole TD N/A Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1240	N/A	
Salado	1730	N/A	
Base of Salt	4800	N/A	
Delaware Sands	5030	N/A	
Brushy Canyon	7360	Hydrocarbons	
Bone Spring	8830	Hydrocarbons	
Avalon Shale	9320	Hydrocarbons	
Avalon Target	. 9450	Hydrocarbons	
1st Bone Spring	10040	Hydrocarbons	

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	1270	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	1.27	2.98	5.28
12 1/4	0	5010	9-5/8"	40.00	J-55	LT&C	1.54	1.49	2.59
8 3/4	0	8944	5-1/2"	17.00	L-80	LT&C	1.47	1.81	2.10
8 3/4	8944	13692	5-1/2"	17.00	L-80	вт&с	1.39	1.71	46.15
				BLM	Minimum S	afety Factor	1.125	1	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

	Y or N
s casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
s premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Υ
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Υ
s well located within Capitan Reef?	N
f yes, does production casing cement tie back a minimum of 50' above the Reef?	N
s well within the designated 4 string boundary.	N
s well located in SOPA but not in R-111-P?	N
f yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	N
s well located in R-111-P and SOPA?	N
f yes, are the first three strings cemented to surface?	N
s 2nd string set 100' to 600' below the base of salt?	N
s well located in high Cave/Karst?	N
f yes, are there two strings cemented to surface?	N
For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	N
s well located in critical Cave/Karst?	N
yes, are there three strings cemented to surface?	N

3. Cementing Program

Casing	# Sks	Wt. lb/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	616	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	165 14.80 1.34 6.32 9.5 Tail: Class C + LCM				Tail: Class C + LCM	
Intermediate	940	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	292	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	210	9.20	6.18	28.80		Lead: Class C + Extender + Salt + Strength Enhancement + LCM + Fluid Loss + Retarder
	1016	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS

Casing String	тос	% Excess
Surface	0	45
Intermediate	0	44
Production	4810	17

4. Pressure Control Equipment

A variance is requested for the use of a diverter on the surface casing. See attached for schematic.

BOP installed and tested before drilling which hole?	Size	Min Required WP	Туре		Tested To
12 1/4	13 5/8	2M	Annular	Х	50% of working pressure
			Blind Ram		
			Pipe Ram		2M
			Double Ram	Х	
90			Other		
8 3/4	13 5/8	3M	Annular	X	50% of working pressure
			Blind Ram		
			Pipe Ram		3M
			Double Ram	Х	
			Other		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Formation integrity test will be performed per Onshore Order #2.

On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.

A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.

N Are anchors required by manufacturer?

5. Mud Program

Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0' to 1270'	FW Spud Mud	8.30 - 8.80	28	N/C
1270' to 5010'	Brine Water	9.70 - 10.20	30-32	N/C
5010' to 13692'	FW/Cut Brine	8.70 - 9.20	30-32	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

6. Logging and Testing Procedures

Logg	ging, Coring and Testing
X	Will run GR/CNL fromTD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test?
	Coring?

Additional Logs Planned	Interval
-------------------------	----------

7. Drilling Conditions

Condition	생물이 되었다고 있다면 하는 경우에 하는 것이 되었다고 있다.
BH Pressure at deepest TVD	4520 psi
Abnormal Temperature	No

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

X H2S is presentX H2S plan is attached

8. Other Facets of Operation

Exhibit F – Co-Flex Hose Triste Draw 25 Federal Com 14H Cimarex Energy Co. 25-23S-32E

Lea County, NM



Exhibit F-1 – Co-Flex Hose Hydrostatic Test

Triste Draw 25 Federal Com 14H

Cimarex Energy Co.

25-23S-32E

Lea County, NM



Midwest Hose & Specialty, Inc.

INTERNAL HYDROSTATIC TEST REPORT					
INTERNA	- 111 DI (001	Allo ILOI	ILLI OILLI		
Customer:		P.O. Number:			
C	derco Inc		odyd-2	71	
,	HOSE SPECI	FICATIONS			
Type: Stainless	Steel Armor				
Choke & M	(ill Hose		Hose Length:	45'ft.	
I.D.	INCHES	O.D.	9	INCHES	
WORKING PRESSURE	TEST PRESSUR	E	BURST PRESSUR	E	
10,000 PSI	15,000	PSI	0	PSI	
	COUF	PLINGS			
Stem Part No.		Ferrule No.			
окс			окс		
OKC			окс		
Type of Coupling:					
Swage-	lt				
	PROC	EDURE			
	<i>y pressure tested wi</i> TEST PRESSURE	1	temperature. URST PRESSURE:		
TIME HELDA	TEST PRESSURE	ACTOALB	OKOT FREGORE.		
15			0	PSI	
Hose Assembly Seri	al Number:	Hose Serial Number:			
79793			окс		
Comments:					
	1-				
Date:	Tested:	Laine Just	Approved:	//	
3/8/2011 / Jevil Let					

Exhibit F-1 – Co-Flex Hose Hydrostatic Test Triste Draw 25 Federal Com 14H Cimarex Energy Co. 25-23S-32E

Lea County, NM

Internal Hydrostatic Test Graph



Customer: Houston

Pick Ticket #: 94260

Verification

Hose Specifications

Hose Type CSK LD.

Working Pressure 10G00 PSI

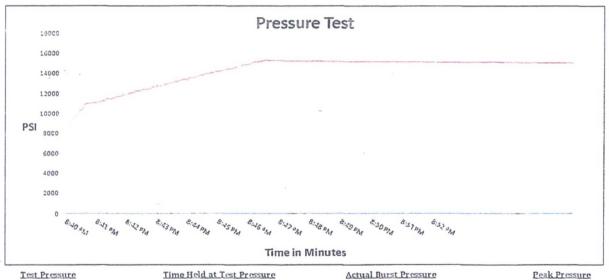
Length O.D. 6.09"

Burst Pressure Standard Safety Multiplier Applies Type of Fitting 4 1/16 10K Die Size 6.38"

Hose Serial #

Coupling Method Swage Final O.D. 6.25"

Hose Assembly Serial # 79793



15000 PSI

11 Minutes

Peak Pressure 15483 PSI

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

Tested By: Zoc Mcconnell

Approved By: Kim Thomas

Exhibit F-2 – Co-Flex Hose

Triste Draw 25 Federal Com 14H

Cimarex Energy Co.

25-23S-32E

Lea County, NM



Midwest Hose & Specialty, Inc.

Certificate of Conformity										
Customer:		PO ODYD-271								
SPECIFICATIONS										
Sales Order										
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: James Harcin		Date: 3/8/2011								



Exhibit F -3- Co-Flex Hose Triste Draw 25 Federal Com 14H Cimarex Energy Co. 25-23S-32E 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

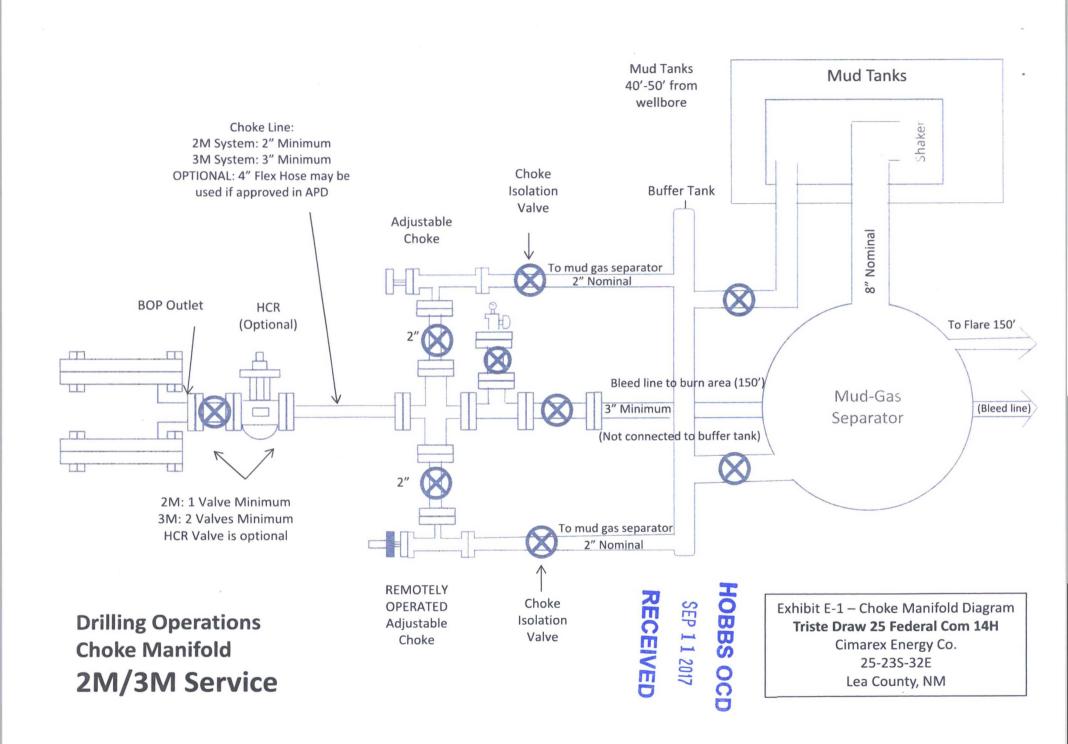
Maximum Length:

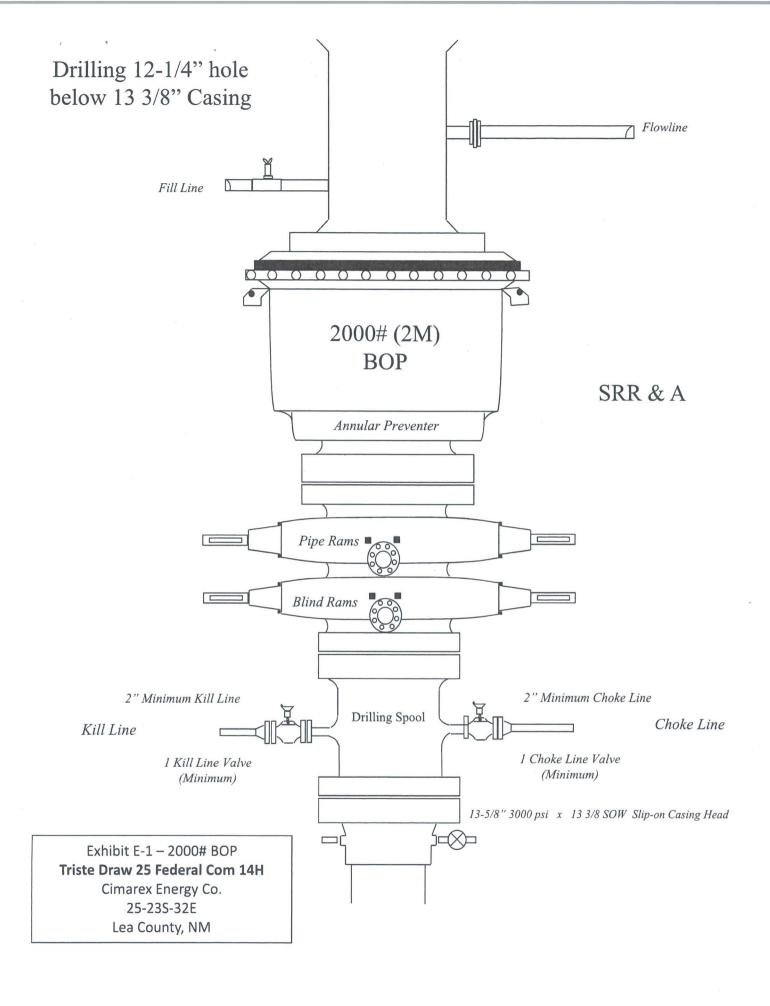
110 Feet

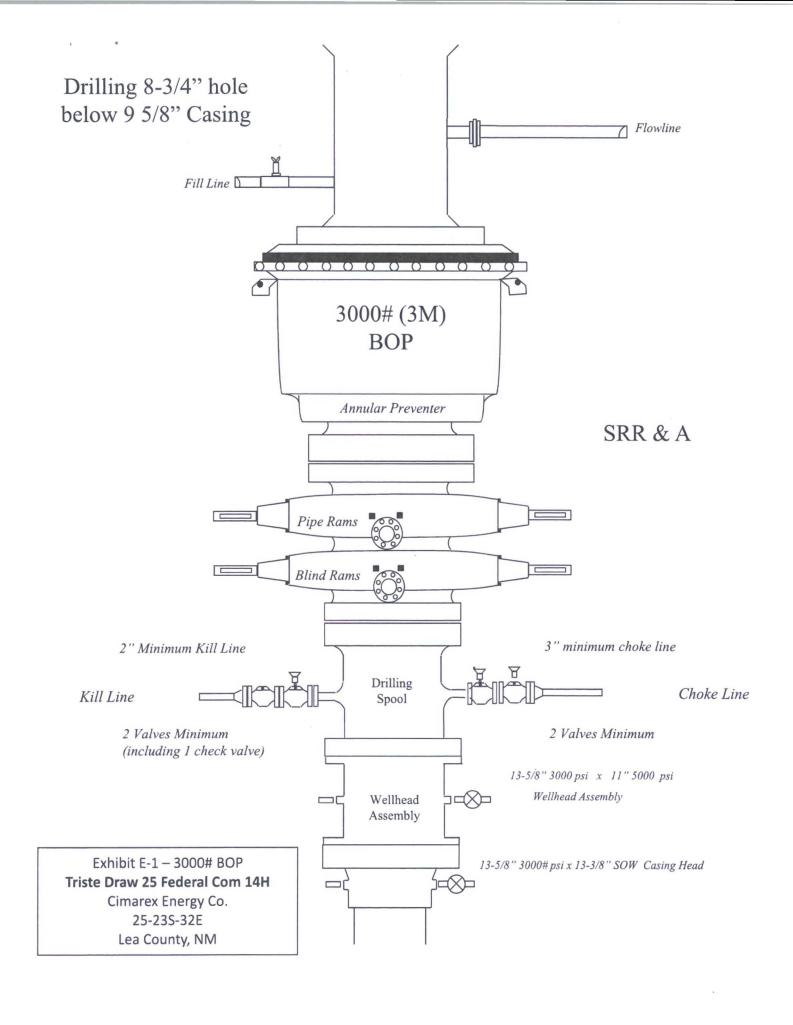
ID:

2-1/2", 3", 3-1/2", 4"

Operating Temperature: -22 deg F to +180 deg F (-30 deg C to +82 deg C)







Triste Draw 25 Federal Com 14H

Cimarex Energy Co Lea Cty, NM

Casing Assumptions

Casing Program

Hole Size	Casing Depth From	Casing Depth To	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	1270	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	1.27	2.98	5,28
12 1/4	0	5010	9-5/8"	40.00	J-55	LT&C	1.54	1.49	2.59
8 3/4	0	8944	5-1/2"	17.00	L-80	LT&C	1.47	1.81	2.10
8 3/4	8944	13692	5-1/2"	17.00	L-80	BT&C	1.39	1.71	46.15
				BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h