

OCD Hobbs

14-601

HOBBS OCD

Form 3160-3
(March 2012)

OCT 20 2014

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

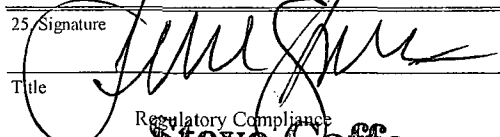
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work ☒ DRILL ☐ REENTER		5. Lease Serial No. SHLABHL: NMLC 0063228	
1b. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name	
2. Name of Operator Cimarex Energy Co.		7. If Unit or CA Agreement, Name and No.	
3a. Address 202 S. Cheyenne Ave., Ste 1000, Tulsa, OK 74103		8. Lease Name and Well No. <39566> Triste Draw 25 Federal #6H	
3b. Phone No. (include area code) <215099> 918-585-1100		9. API Well No. 30-025-42197	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At Surface 370 FSL & 1290 FEL Unit P At proposed prod. Zone 330 FNL & 1310 FEL Unit A Bone Spring		10. Field and Post, or Exploratory Bone Spring/Windcat <96603>	
11. Sec., T. R. M. or Blk. and Survey and Area 25, 23S, 32E		12. County or Parish Lea	
13. State NM		14. Distance in miles and direction from nearest town or post office* 28 miles NW of Jal, 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 0063228=1600.00 acres	17. Spacing Unit dedicated to this well 320.00	
18. Distance from proposed* location to nearest well, drilling, completed, applied for, on this lease, ft. 20' from the # 7	19. Proposed Depth Pilot Hole TD: N/A 14,179 MD 9,800 TVD	20. BLM/BIA Bond No. on File NM2575; NMB000835	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3693 GR	22. Approximate date work will start* 12/1/14	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 20 above). |
| 2. A Drilling Plan | 5. Operator Certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) Terri Stathem	Date 2/28/14
Title Regulatory Compliance Steve Caffey	Name (Printed/Typed) Office CARLSBAD FIELD OFFICE	Date OCT 15 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)

Carlsbad Controlled Water Basin

Approval Subject to General Requirements
& Special Stipulations Attached

SEE ATTACHED FOR
CONDITIONS OF APPROVAL
OCT 23 2014

Application to Drill
Triste Draw 25 Federal #6H
 Cimarex Energy Co.
 UL: P, Sec. 25, 23S, 32E
 Lea Co., NM

HOBBS OCD

OCT 20 2014

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In response to questions asked under Section II B of Bulletin NTL-6, the following information is provided for your consideration:

1. Location: SHL 370 FSL & 1290 FEL
 BHL 330 FNL & 1310 FEL

2. Elevation Above Sea Level: 3,693' 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: 14,179 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	N/A
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:

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	Condition	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	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	9322	9323	8 3/4	5-1/2"	17.00	L-80	LT&C	New	4363	9.0	1.44		1.77	166,617	143,723	2.35
Production	9323	14179	9800	8 3/4	5-1/2"	17.00	L-80	BT&C	New	4586	9.0	1.37		1.69	8,126	7,009	56.64

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
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 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. During the running of the casing, the operator will stop and fill the casing as need to ensure it does not collapse.
	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 Metasilicate + Bentonite + Fluid Loss + Dispersant + LCM + Retarder, 13.800 gps water
	Tail	1201	1.24	14.50	1489	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.

Cement volumes will be adjusted depending on hole size

9a. Proposed Drilling Plan:

Pilot Hole TD: No Pilot KOP: 9,322' EOC: 10,074'

Set Surface and Intermediate casing strings. Drill production hole to KOP. Continue drilling 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 Federal #6H
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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 14179'	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 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:

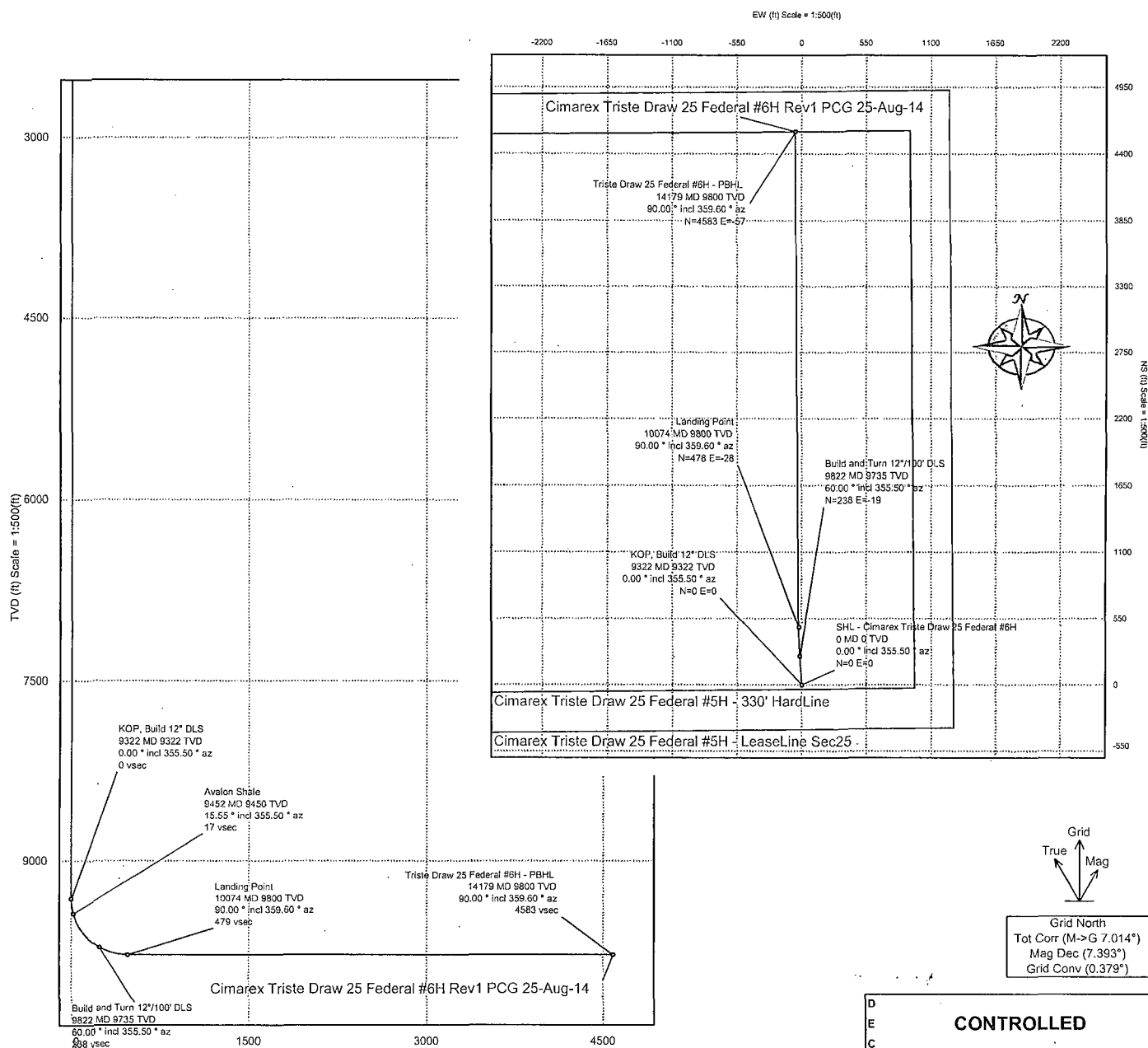
If production casing is run an additional 30 days will be required to complete and construct surface facilities.

Bone Spring pay will be perforated and stimulated.

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



Borehole:	Well:	Field:	Structure:
Original Borehole	Triste Draw 25 Federal #6H	NM Lea County	TBD
Gravity & Magnetic Parameters		Surface Location	Miscellaneous
Model: BGM 2013 Dip: 60.139° Date: 25-Feb-2014		NAD83 New Mexico State Plane, Eastern Zone, US Feet	Triste Draw 25
MagDec: 7.393° FS: 48346.931nT Gravity FS: 998.69mgn (9.80665 Based)		Lat: N 32 16 10.18 Northing: 462499.5ftUS Grid Conv: 0.3788°	Slot: Federal #6H
		Lon: W 103 37 26.12 Easting: 760693.1ftUS Scale Fact: 0.99996415	TVD Ref: Ground Level (3693ft above MSL)
			Plan: Rev1 PCG 25-Aug-14



Vertical Section (ft) Azim = 359.161° Scale = 1:500(ft) Origin = 0N/-S, 0E/-W

Critical Points							
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)
SHL - Cimarex Triste Draw 25 Federal #6H	0.00	0.00	355.50	0.00	0.00	0.00	0.00
KOP, Build 12° DLS	9321.67	0.00	355.50	9321.67	0.00	0.00	0.00
Avalon Shale	9451.59	15.55	355.50	9450.00	17.45	17.43	-1.37
Build and Turn 12°/100' DLS	9821.97	60.00	355.50	9735.47	238.25	238.00	-16.73
Landing Point	10074.08	90.00	359.60	9800.00	478.85	478.49	-28.40
Triste Draw 25 Federal #6H - PBHL	14178.75	90.00	359.60	9800.00	4583.42	4583.07	-57.10

D	CONTROLLED	
E		
C		
Plan ref	Rev1 PCG 25-Aug-14	
Drawing ref		
Copy number	1 of 1	
Date	25-Aug-2014	
1	Originator	
2	DE Sign Off Authority	
3	D&M Line Manager	
4	Client	
Copy number for		



Cimarex Triste Draw 25 Federal #6H Rev1 PCG 25-Aug-14 Proposal

Geodetic Report 100ft Interpolated

(Non-Def Plan)



Report Date: August 25, 2014 - 01:06 PM
 Client:
 Field: NM Lea County (NAD 83)
 Structure / Slot: Cimarex Triste Draw 25 Federal #6H / Triste Draw 25 Federal #6H
 Well: Triste Draw 25 Federal #6H
 Borehole: Original Borehole
 UWI / API#: Unknown / Unknown
 Survey Name: Cimarex Triste Draw 25 Federal #6H Rev1 PCG 25-Aug-14
 Survey Date: February 25, 2014
 Tort / AHD / DDI / ERD Ratio: 90.254 ° / 4584.154 ft / 5.777 / 0.468
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 16' 10.17656", W 103° 37' 26.12182"
 Location Grid N/E Y/X: N 462499.500 ftUS, E 760603.100 ftUS
 CRS Grid Convergence Angle: 0.3788 °
 Grid Scale Factor: 0.99996415
 Version / Patch: 2.7.1043.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 359.161 ° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: Unknown
 TVD Reference Elevation: 3693.000 ft above MSL
 Seabed / Ground Elevation: 3693.000 ft above MSL
 Magnetic Declination: 7.393 °
 Total Gravity Field Strength: 998.6904mgn (9.80665 Based)
 Gravity Model: DOX
 Total Magnetic Field Strength: 48346.931 nT
 Magnetic Dip Angle: 60.139 °
 Declination Date: February 25, 2014
 Magnetic Declination Model: BGGM 2013
 North Reference: Grid North
 Grid Convergence Used: 0.3788 °
 Total Corr Mag North->Grid North: 7.0143 °
 Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL - Cimarex Triste Draw 25 Federal #6H	0.00	0.00	355.50	0.00	0.00	0.00	0.00	N/A	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	100.00	0.00	355.50	100.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	200.00	0.00	355.50	200.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	300.00	0.00	355.50	300.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	400.00	0.00	355.50	400.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	500.00	0.00	355.50	500.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	600.00	0.00	355.50	600.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	700.00	0.00	355.50	700.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	800.00	0.00	355.50	800.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	900.00	0.00	355.50	900.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	1000.00	0.00	355.50	1000.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	1100.00	0.00	355.50	1100.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	1200.00	0.00	355.50	1200.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	1300.00	0.00	355.50	1300.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	1400.00	0.00	355.50	1400.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	1500.00	0.00	355.50	1500.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	1600.00	0.00	355.50	1600.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	1700.00	0.00	355.50	1700.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	1800.00	0.00	355.50	1800.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	1900.00	0.00	355.50	1900.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	2000.00	0.00	355.50	2000.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	2100.00	0.00	355.50	2100.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	2200.00	0.00	355.50	2200.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	2300.00	0.00	355.50	2300.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	2400.00	0.00	355.50	2400.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	2500.00	0.00	355.50	2500.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	2600.00	0.00	355.50	2600.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	2700.00	0.00	355.50	2700.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	2800.00	0.00	355.50	2800.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	2900.00	0.00	355.50	2900.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	3000.00	0.00	355.50	3000.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	3100.00	0.00	355.50	3100.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	3200.00	0.00	355.50	3200.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	3300.00	0.00	355.50	3300.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	3400.00	0.00	355.50	3400.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	3500.00	0.00	355.50	3500.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	3600.00	0.00	355.50	3600.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	3700.00	0.00	355.50	3700.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	3800.00	0.00	355.50	3800.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	3900.00	0.00	355.50	3900.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	4000.00	0.00	355.50	4000.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	4100.00	0.00	355.50	4100.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	4200.00	0.00	355.50	4200.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	4300.00	0.00	355.50	4300.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	4400.00	0.00	355.50	4400.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	4500.00	0.00	355.50	4500.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	4600.00	0.00	355.50	4600.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	4700.00	0.00	355.50	4700.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	4800.00	0.00	355.50	4800.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	4900.00	0.00	355.50	4900.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	5000.00	0.00	355.50	5000.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	5100.00	0.00	355.50	5100.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	5200.00	0.00	355.50	5200.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	5300.00	0.00	355.50	5300.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	5400.00	0.00	355.50	5400.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	5500.00	0.00	355.50	5500.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	5600.00	0.00	355.50	5600.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	5700.00	0.00	355.50	5700.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	5800.00	0.00	355.50	5800.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	5900.00	0.00	355.50	5900.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	6000.00	0.00	355.50	6000.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	6100.00	0.00	355.50	6100.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	6200.00	0.00	355.50	6200.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	6300.00	0.00	355.50	6300.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	6400.00	0.00	355.50	6400.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	6500.00	0.00	355.50	6500.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	6600.00	0.00	355.50	6600.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	6700.00	0.00	355.50	6700.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	6800.00	0.00	355.50	6800.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	6900.00	0.00	355.50	6900.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	7000.00	0.00	355.50	7000.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	7100.00	0.00	355.50	7100.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	7200.00	0.00	355.50	7200.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	7300.00	0.00	355.50	7300.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	7400.00	0.00	355.50	7400.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	7500.00	0.00	355.50	7500.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	7600.00	0.00	355.50	7600.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	7700.00	0.00	355.50	7700.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	7800.00	0.00	355.50	7800.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	7900.00	0.00	355.50	7900.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	8000.00	0.00	355.50	8000.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	8100.00	0.00	355.50	8100.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	8200.00	0.00	355.50	8200.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	8300.00	0.00	355.50	8300.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	8400.00	0.00	355.50	8400.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	8500.00	0.00	355.50	8500.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	8600.00	0.00	355.50	8600.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	8700.00	0.00	355.50	8700.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	8800.00	0.00	355.50	8800.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	8900.00	0.00	355.50	8900.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	9000.00	0.00	355.50	9000.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	9100.00	0.00	355.50	9100.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	9200.00	0.00	355.50	9200.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	9300.00	0.00	355.50	9300.00	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
KOP, Build 12° DLS	9321.97	0.00	355.50	9321.97	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
	9400.00	9.36	355.50	9399.65	6.35	6.34	-0.50	12.00	462505.84	760602.60	N 32 16 10.24	W 103 37 26.13
Avalon Shale	9451.59	15.55	355.50	9450.00	17.45	17.43	-1.37	12.00	462516.93	760601.73	N 32 16 10.35	W 103 37 26.14
	9500.00	21.36	355.50	9495.90	32.74	32.71	-2.57	12.00	462532.21	760600.53	N 32 16 10.50	W 103 37 26.15
	9600.00	33.36	355.50	9584.55	78.53	78.44	-6.17	12.00	462577.94	760596.93	N 32 16 10.95	W 103 37 26.19
	9700.00	45.36	355.50	9661.72	141.71	141.56	-11.14	12.00	462641.05	760591.96	N 32 16 11.58	W 103 37 26.24
	9800.00	57.36	355.50	9724.05	219.52	219.29	-17.26	12.00	462718.78	760585.84	N 32 16 12.35	W 103 37 26.31
Build and Turn 12°/100' DLS	9821.97	60.00	355.50	9735.47	238.25	238.00	-18.73	12.00	462737.49	760584.37	N 32 16 12.53	W 103 37 26.32
	9900.00	69.28	356.91	9768.85	308.58	308.27	-23.36	12.00	462807.76	760579.74	N 32 16 13.23	W 103 37 26.37
	10000.00	81.18	358.50	9794.31	405.07	404.72	-27.18	12.00	462904.20	760575.92	N 32 16 14.18	W 103 37 26.41
Landing Point	10074.08	90.00	359.60	9800.00	478.85	478.49	-28.40	12.00	462977.97	760574.70	N 32 16 14.91	W 103 37 26.42
	10100.00	90.00	359.60	9800.00	504.78	504.41	-28.58	0.00	463003.89	760574.52	N 32 16 15.17	W 103 37 26.42
	10200.00	90.00	359.60	9800.00	604.77	604.41	-29.28	0.00	463103.89	760573.82	N 32 16 16.16	W 103 37 26.42
	10300.00	90.00	359.60	9800.00	704.77	704.41	-29.98	0.00	463203.88	760573.12	N 32 16 17.15	W 103 37 26.42
	10400.00	90.00	359.60	9800.00	804.77	804.40	-30.68	0.00	463303.87	760572.42	N 32 16 18.14	W 103 37 26.42
	10500.00	90.00	359.60	9800.00	904.76	904.40	-31.38	0.00	463403.87	760571.73	N 32 16 19.13	W 103 37 26.42
	10600.00	90.00	359.60	9800.00	1004.76	1004.40	-32.07	0.00	463503.86	760571.03	N 32 16 20.12	W 103 37 26.42
	10700.00	90.00	359.60	9800.00	1104.76	1104.40	-32.77	0.00	463603.86	760570.33	N 32 16 21.11	W 103 37 26.42
	10800.00	90.00	359.60	9800.00	1204.76	1204.39	-33.47	0.00	463703.85	760569.63	N 32 16 22.10	W 103 37 26.42
	10900.00	90.00	359.60	9800.00	1304.75	1304.39	-34.17	0.00	463803.84	760568.93	N 32 16 23.09	W 103 37 26.42
	11000.00	90.00	359.60	9800.00	1404.75	1404.39	-34.87	0.00	463903.84	760568.23	N 32 16 24.08	W 103 37 26.42

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	11100.00	90.00	359.60	9800.00	1504.75	1504.39	-35.57	0.00	464003.83	760567.53	N 32 16 25.06	W 103 37 26.42
	11200.00	90.00	359.60	9800.00	1604.74	1604.38	-36.27	0.00	464103.82	760566.84	N 32 16 26.05	W 103 37 26.42
	11300.00	90.00	359.60	9800.00	1704.74	1704.38	-36.96	0.00	464203.82	760566.14	N 32 16 27.04	W 103 37 26.42
	11400.00	90.00	359.60	9800.00	1804.74	1804.38	-37.66	0.00	464303.81	760565.44	N 32 16 28.03	W 103 37 26.42
	11500.00	90.00	359.60	9800.00	1904.74	1904.38	-38.36	0.00	464403.81	760564.74	N 32 16 29.02	W 103 37 26.42
	11600.00	90.00	359.60	9800.00	2004.73	2004.38	-39.06	0.00	464503.80	760564.04	N 32 16 30.01	W 103 37 26.42
	11700.00	90.00	359.60	9800.00	2104.73	2104.37	-39.76	0.00	464603.79	760563.34	N 32 16 31.00	W 103 37 26.42
	11800.00	90.00	359.60	9800.00	2204.73	2204.37	-40.46	0.00	464703.79	760562.64	N 32 16 31.99	W 103 37 26.42
	11900.00	90.00	359.60	9800.00	2304.72	2304.37	-41.16	0.00	464803.78	760561.94	N 32 16 32.98	W 103 37 26.42
	12000.00	90.00	359.60	9800.00	2404.72	2404.37	-41.86	0.00	464903.77	760561.24	N 32 16 33.97	W 103 37 26.42
	12100.00	90.00	359.60	9800.00	2504.72	2504.36	-42.56	0.00	465003.77	760560.55	N 32 16 34.96	W 103 37 26.42
	12200.00	90.00	359.60	9800.00	2604.71	2604.36	-43.26	0.00	465103.76	760559.85	N 32 16 35.95	W 103 37 26.43
	12300.00	90.00	359.60	9800.00	2704.71	2704.36	-43.95	0.00	465203.76	760559.15	N 32 16 36.94	W 103 37 26.43
	12400.00	90.00	359.60	9800.00	2804.71	2804.36	-44.65	0.00	465303.75	760558.45	N 32 16 37.93	W 103 37 26.43
	12500.00	90.00	359.60	9800.00	2904.71	2904.35	-45.35	0.00	465403.74	760557.75	N 32 16 38.92	W 103 37 26.43
	12600.00	90.00	359.60	9800.00	3004.70	3004.35	-46.05	0.00	465503.74	760557.05	N 32 16 39.91	W 103 37 26.43
	12700.00	90.00	359.60	9800.00	3104.70	3104.35	-46.75	0.00	465603.73	760556.35	N 32 16 40.90	W 103 37 26.43
	12800.00	90.00	359.60	9800.00	3204.70	3204.35	-47.45	0.00	465703.72	760555.65	N 32 16 41.89	W 103 37 26.43
	12900.00	90.00	359.60	9800.00	3304.69	3304.34	-48.15	0.00	465803.72	760554.95	N 32 16 42.88	W 103 37 26.43
	13000.00	90.00	359.60	9800.00	3404.69	3404.34	-48.85	0.00	465903.71	760554.25	N 32 16 43.87	W 103 37 26.43
	13100.00	90.00	359.60	9800.00	3504.69	3504.34	-49.55	0.00	466003.71	760553.55	N 32 16 44.85	W 103 37 26.43
	13200.00	90.00	359.60	9800.00	3604.69	3604.34	-50.25	0.00	466103.70	760552.85	N 32 16 45.84	W 103 37 26.43
	13300.00	90.00	359.60	9800.00	3704.68	3704.33	-50.95	0.00	466203.69	760552.15	N 32 16 46.83	W 103 37 26.43
	13400.00	90.00	359.60	9800.00	3804.68	3804.33	-51.65	0.00	466303.69	760551.45	N 32 16 47.82	W 103 37 26.43
	13500.00	90.00	359.60	9800.00	3904.68	3904.33	-52.35	0.00	466403.68	760550.75	N 32 16 48.81	W 103 37 26.43
	13600.00	90.00	359.60	9800.00	4004.67	4004.33	-53.05	0.00	466503.67	760550.05	N 32 16 49.80	W 103 37 26.43
	13700.00	90.00	359.60	9800.00	4104.67	4104.32	-53.75	0.00	466603.67	760549.35	N 32 16 50.79	W 103 37 26.43
	13800.00	90.00	359.60	9800.00	4204.67	4204.32	-54.45	0.00	466703.66	760548.65	N 32 16 51.78	W 103 37 26.43
	13900.00	90.00	359.60	9800.00	4304.67	4304.32	-55.15	0.00	466803.66	760547.95	N 32 16 52.77	W 103 37 26.43
	14000.00	90.00	359.60	9800.00	4404.66	4404.32	-55.85	0.00	466903.65	760547.25	N 32 16 53.76	W 103 37 26.43
	14100.00	90.00	359.60	9800.00	4504.66	4504.31	-56.55	0.00	467003.64	760546.55	N 32 16 54.75	W 103 37 26.43
Triste Draw 25 Federal #6H - PBHL	14178.76	90.00	359.60	9800.00	4583.42	4583.07	-57.10	0.00	467082.40	760546.00	N 32 16 55.53	W 103 37 26.43

Survey Type: Non-Def Plan

Survey Error Model: ISQWSA 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	14178.761	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Triste Draw 25 Federal #6H Rev1 PCG



Cimarex Triste Draw 25 Federal #6H Rev1 PCG 25-Aug-14 Proposal

Geodetic Report

(Non-Def Plan)



Report Date: August 25, 2014 - 01:05 PM
Client:
Field: NM Lea County (NAD 83)
Structure / Slot: Cimarex Triste Draw 25 Federal #6H / Triste Draw 25 Federal #6H
Well: Triste Draw 25 Federal #6H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Cimarex Triste Draw 25 Federal #6H Rev1 PCG 25-Aug-14
Survey Date: February 25, 2014
Tort / AHD / DDI / ERD Ratio: 90.254 ° / 4584.154 ft / 5.777 / 0.468
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 16' 10.17656", W 103° 37' 26.12182"
Location Grid N/E Y/X: N 462499.500 ftUS, E 760603.100 ftUS
CRS Grid Convergence Angle: 0.3788 °
Grid Scale Factor: 0.99996415
Version / Patch: 2.7.1043.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 359.161 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: Unknown
TVD Reference Elevation: 3693.000 ft above MSL
Seabed / Ground Elevation: 3693.000 ft above MSL
Magnetic Declination: 7.393 °
Total Gravity Field Strength: 998.6904mgn (9.80665 Based)
Gravity Model: DOX
Total Magnetic Field Strength: 48346.931 nT
Magnetic Dip Angle: 60.139 °
Declination Date: February 25, 2014
Magnetic Declination Model: BGGM 2013
North Reference: Grid North
Grid Convergence Used: 0.3788 °
Total Corr Mag North->Grid North: 7.0143 °
Local Coord Referenced To: Structure Reference Point

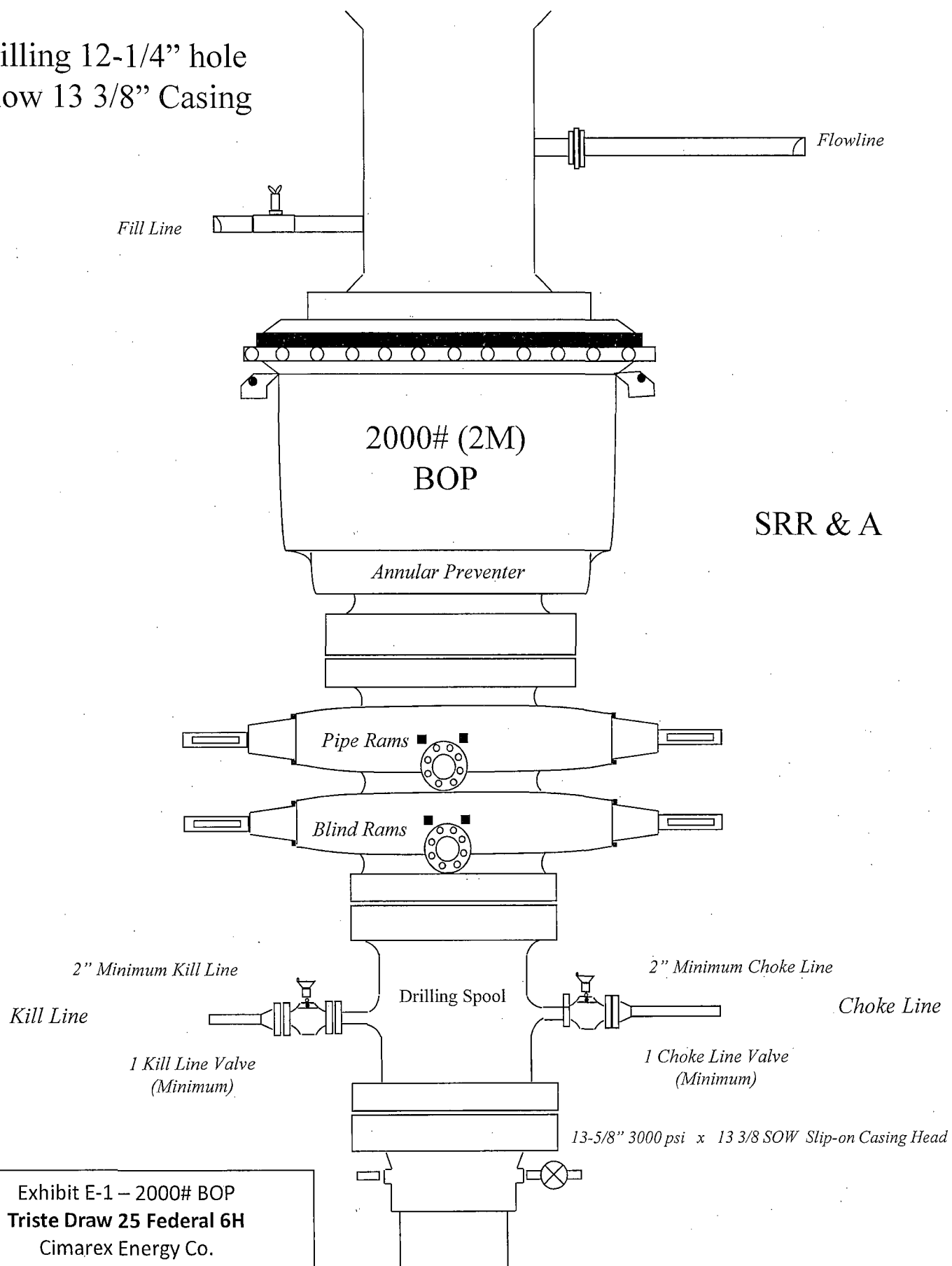
Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL - Cimarex Triste Draw 25 Federal #6H	0.00	0.00	355.50	0.00	0.00	0.00	0.00	N/A	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
KOP, Build 12° DLS	9321.97	0.00	355.50	9321.97	0.00	0.00	0.00	0.00	462499.50	760603.10	N 32 16 10.18	W 103 37 26.12
Avalon, Shale	9451.59	15.55	355.50	9450.00	17.45	17.43	-1.37	12.00	462516.93	760601.73	N 32 16 10.35	W 103 37 26.14
Build and Turn 12°/100' DLS	9821.97	60.00	355.50	9735.47	238.25	238.00	-18.73	12.00	462737.49	760584.37	N 32 16 12.53	W 103 37 26.32
Landing Point	10074.08	90.00	359.60	9800.00	478.85	478.49	-28.40	12.00	462977.97	760574.70	N 32 16 14.91	W 103 37 26.42
Triste Draw 25 Federal #6H - PBHL	14178.76	90.00	359.60	9800.00	4583.42	4583.07	-57.10	0.00	467082.40	760546.00	N 32 16 55.53	W 103 37 26.43

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	14178.761	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Triste Draw 25 Federal #6H Rev1 PCG

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



SRR & A

Exhibit E-1 – 2000# BOP
Triste Draw 25 Federal 6H
Cimarex Energy Co.
25-23S-32E
SHL 370 FSL & 1290 FEL
BHL 330 FNL & 1320 FEL
Lea County, NM

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

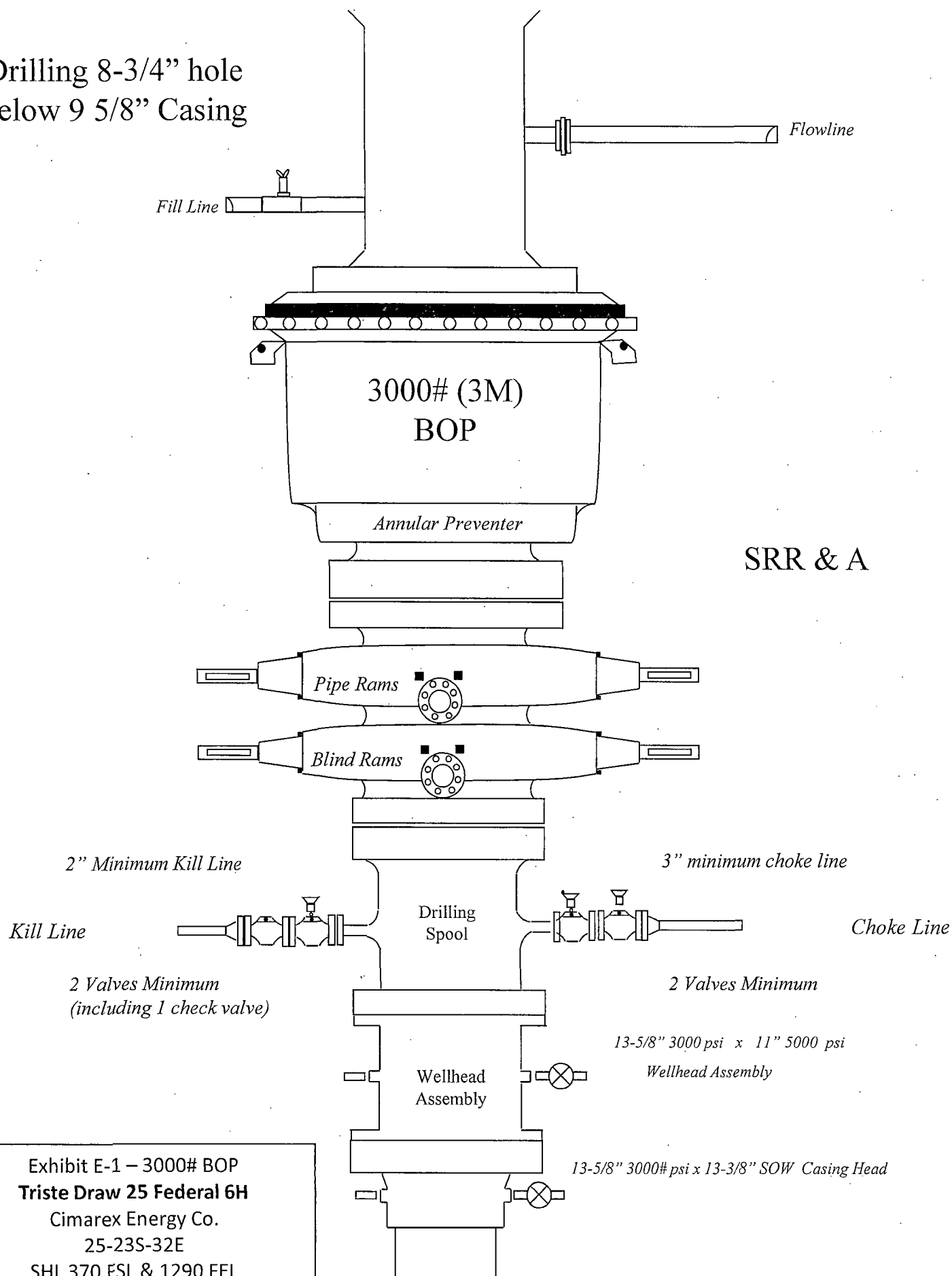


Exhibit E-1 – 3000# BOP
Triste Draw 25 Federal 6H
Cimarex Energy Co.
25-23S-32E
SHL 370 FSL & 1290 FEL
BHL 330 FNL & 1320 FEL
Lea County, NM

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

BOP Outlet

HCR
 (Optional)

2M: 1 Valve Minimum
 3M: 2 Valves Minimum
 HCR Valve is optional

Adjustable
 Choke

Choke
 Isolation
 Valve

To mud gas separator
 2" Nominal

Buffer Tank

Bleed line to burn area (150')
 3" Minimum
 (Not connected to buffer tank)

REMOTELY
 OPERATED
 Adjustable
 Choke

Choke
 Isolation
 Valve

To mud gas separator
 2" Nominal

Mud Tanks
 40'-50' from
 wellbore

Mud Tanks

Shaker

8" Nominal

Mud-Gas
 Separator

To Flare 150'

(Bleed line)

Drilling Operations Choke Manifold 2M/3M Service

Exhibit E-1 – Choke Manifold Diagram

Triste Draw 25 Federal 6H

Cimarex Energy Co.

25-23S-32E

SHL 370 FSL & 1290 FEL

BHL 330 FNL & 1320 FEL

Lea County, NM

Exhibit F-1 – Co-Flex Hose Hydrostatic Test

Triste Draw 25 Federal 6H

Cimarex Energy Co.

25-23S-32E

SHL 370 FSL & 1290 FEL

BHL 330 FNL & 1320 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 10,000 PSI	TEST PRESSURE 15,000 PSI	BURST PRESSURE 0 PSI
COUPLINGS		
Stem Part No. OKC OKC	Ferrule No. OKC OKC	
Type of Coupling: Swage-It		
PROCEDURE		
<u>Hose assembly pressure tested with water at ambient temperature.</u>		
TIME HELD AT TEST PRESSURE 15 MIN.	ACTUAL BURST PRESSURE: 0 PSI	
Hose Assembly Serial Number: 79793	Hose Serial Number: OKC	
Comments:		
Date: 3/8/2011	Tested: <i>A. John Sore</i>	Approved: <i>Kevin Hef</i>



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

Customer: Houston

Pick Ticket #: 94260

Hose Specifications:

Hose Type
C & K

Length
45'

Type of Fittings
41/16 10K

Coupling Method
Swage

I.D.
4"

O.D.
6.09"

Die Size
6.38"

Final O.D.
6.25"

Working Pressure
10000 PSI

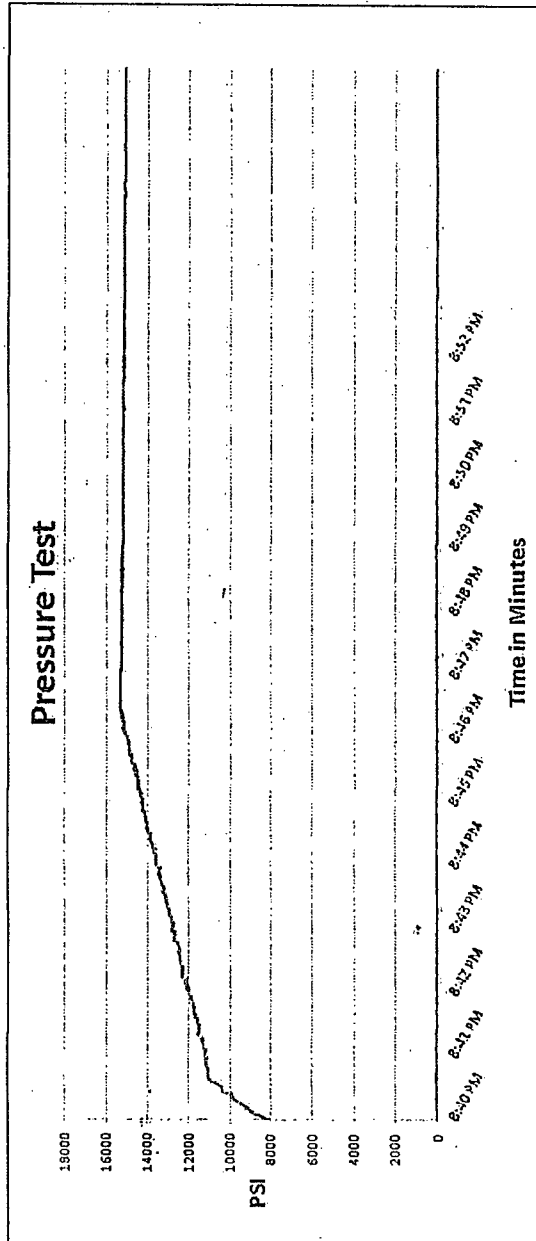
Burst Pressure
Sondir Safety Multiplier Applies

Hose Serial #
5544

Hose Assembly Serial #
79793

Verification

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]

March 3, 2011

Exhibit F-1 – Co-Flex Hose Hydrostatic Test

Triste Draw 25 Federal 6H

Cimarex Energy Co.

25-23S-32E

SHL 370 FSL & 1290 FEL

BHL 330 FNL & 1320 FEL

Lea County, NM

Exhibit F-2 – Co-Flex Hose
Triste Draw 25 Federal 6H
Cimarex Energy Co.
25-23S-32E
SHL 370 FSL & 1290 FEL
BHL 330 FNL & 1320 FEL
Lea County, NM



Midwest Hose & Specialty, Inc.

Certificate of Conformity

Customer: DEM		PO ODYD-271
SPECIFICATIONS		
Sales Order 79793	Dated: 3/8/2011	
We hereby certify that the material supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards Supplier: Midwest Hose & Specialty, Inc. 10640 Tanner Road Houston, Texas 77041		
Comments:		
Approved: <i>James L. Garcia</i>		Date: 3/8/2011



Midwest Hose
& Specialty, Inc.

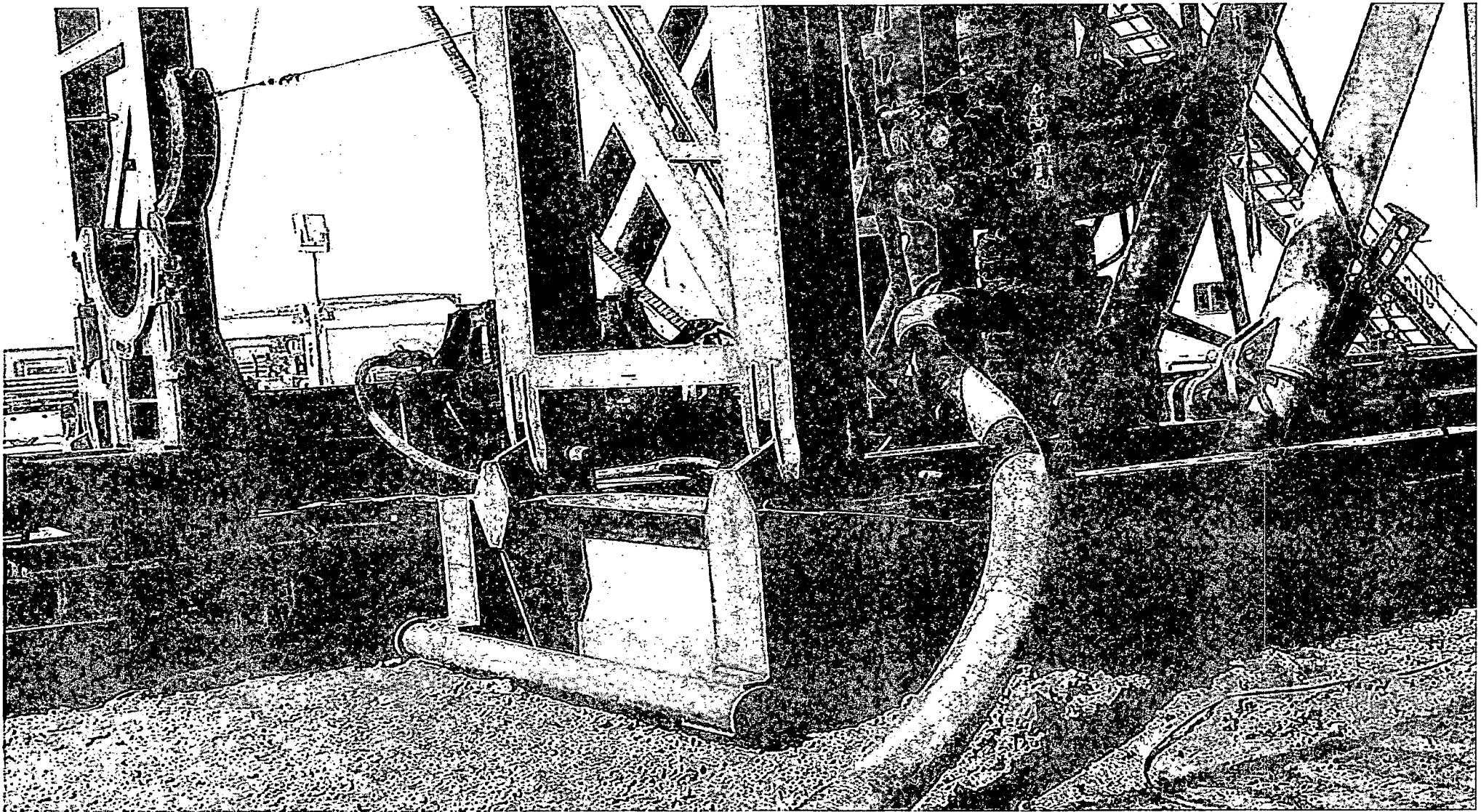
Exhibit F -3- Co-Flex Hose
Triste Draw 25 Federal 6H
Cimarex Energy Co.
25-23S-32E
SHL 370 FSL & 1290 FEL
BHL 330 FNL & 1320 FEL
Lea County, NM

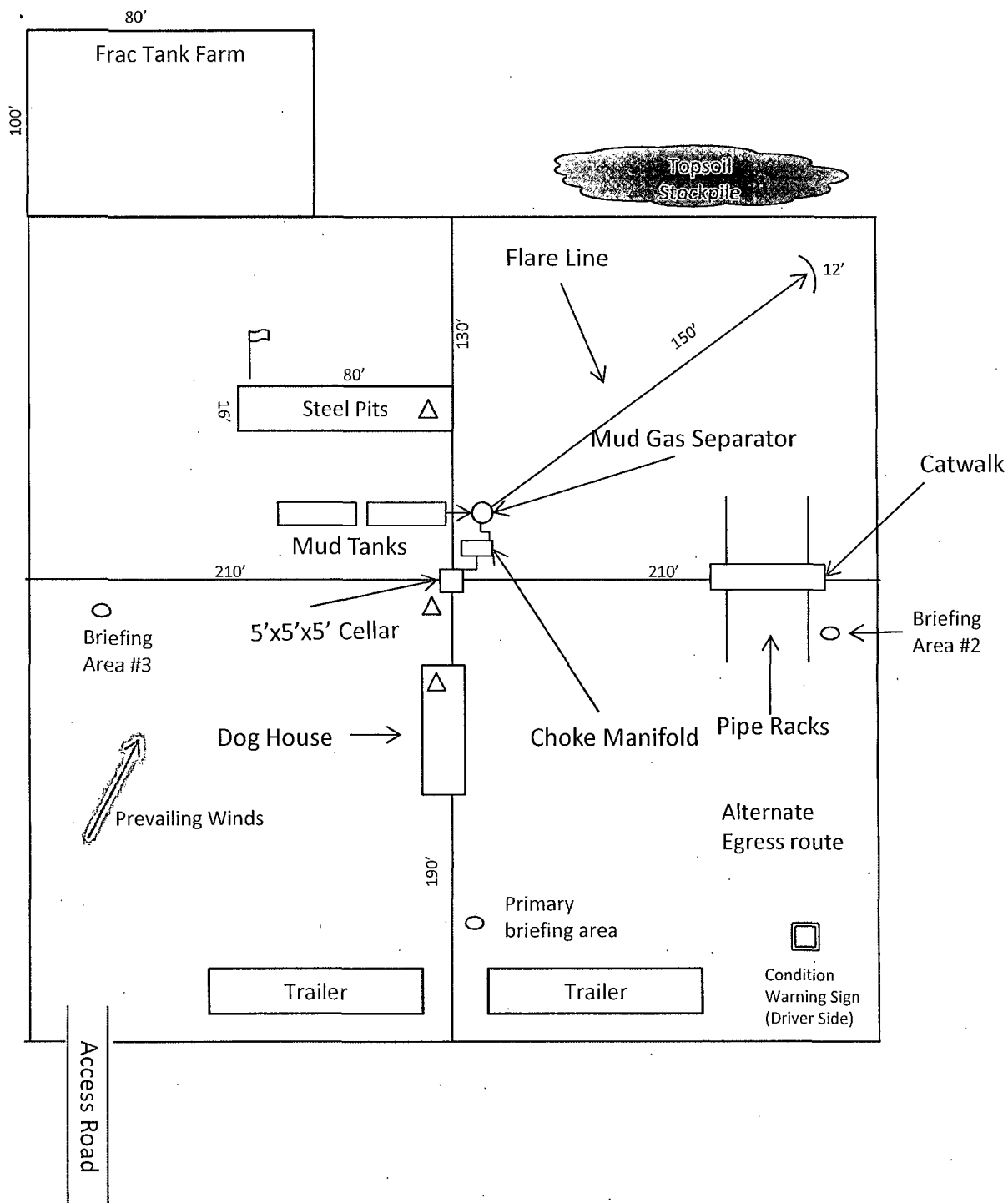
Specification Sheet Choke & Kill Hose

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 6H
Cimarex Energy Co.
25-23S-32E
SHL 370 FSL & 1290 FEL
BHL 330 FNL & 1320 FEL
Lea County, NM





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



Exhibit D-1 – Rig Diagram
Triste Draw 25 Federal 6H
 Cimarex Energy Co.
 25-23S-32E
 SHL 370 FSL & 1290 FEL
 BHL 330 FNL & 1320 FEL
 Lea County, NM

Operator Certification Statement
Triste Draw 25 Federal #6H
Cimarex Energy Co.
UL: P, Sec. 25, 23S, 32E
Lea Co., NM

HOBBS OCD

OCT 20 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