

APR 26 2013

Form 3160-3
(April 2004)

RECEIVED

OCD Hobbs

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMLC0063228	
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. of Colorado		7. If Unit or CA Agreement, Name and No.	
3a. Address 600 N. Marienfeld St., Ste. 600; Midland, TX 79701		8. Lease Name and Well No. Triste Draw 25 Federal 2 <39568>	
3b. Phone No. (include area code) 432-571-7800		9. API Well No. 30-025- 41149	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At Surface 330 FSL & 1980 FEL At proposed prod. Zone 330 FNL & 1980 FEL Horizontal Bone Spring test		10. Field and Pool, or Exploratory TRISTE DRAW, Bone Spring <96603>	
14. Distance in miles and direction from nearest town or post office* 27 miles NW of Jal, NM		11. Sec., T. R. M. or Blk. and Survey or Area 25-23S-33E	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line if any) 330'		12. County or Parish Lea	
16. No of acres in lease 1600		13. State NM	
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. 1320' from #1		19. Proposed Depth MD 15595' TVD 11100' Pilot hole 11300'	
20. BLM/BIA Bond No. on File NM2575; NMB000835			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3702' GR		22. Approximate date work will start* 12.01.12	
23. Estimated duration 30-35 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 <i>Paula Brunson</i>	Name (Printed/Typed) Paula Brunson	Date 08.24.12
Title Regulatory Analyst		
Approved By (Signature) <i>/s/George MacDonell</i>	Name (Printed/Typed) <i>/s/George MacDonell</i>	Date APR 23 2013
Title <i>154</i> 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.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.

* (Instructions on page 2)

Carlsbad Controlled Water Basin

*KC 04/30/13*Approval Subject to General Requirements
& Special Stipulations AttachedSEE ATTACHED FOR
CONDITIONS OF APPROVAL

MAY 09 2013

Application to Drill
Triste Draw 25 Federal 2
 Cimarex Energy Co. of Colorado
 Unit N, Section 30
 T23S-R32E; Lea County, NM

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

- 1 Location: SHL 330 FSL & 1980 FEL
 BHL 330 FNL & 1980 FEL
- 2 Elevation above sea level: 3702 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: MD 15595' TVD 11100' Pilot hole 11300'
- 6 Estimated tops of geological markers:

Groundwater per OSE	475	
Rustler	1220	
T. Salt	1440	
Castille	3450	
B. Salt	4780	
Lamar	5050	Hydrocarbons
Bell Canyon	5150	Hydrocarbons
Cherry Canyon	6000	Hydrocarbons
Brushy Canyon	7400	Hydrocarbons
Basal Brushy Canyon	8625	Hydrocarbons
Bone Spring	8850	Hydrocarbons
Avalon Shale	9300	Hydrocarbons
1st Bone Spring	10050	Hydrocarbons
2nd Bone Spring	10675	Hydrocarbons
3rd Bone Spring	11250	Hydrocarbons
TD Pilot Hole	11300	
- 7 Possible mineral bearing formation:
 Shown above
- 8 Proposed Mud Circulating System:

Depth	Mud Wt	Visc	Fluid Loss	Type Mud
0' to 1245' ^{1346'}	8.4 - 8.6	28	NC	FW
1245' to 4900' ^{5000'}	10.0	30-32	NC	Brine water
4900' to 15595'	8.4	30-32	NC	2% KCL

See
COA

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.

Proposed Drilling Plan

After drilling and setting surface and intermediate casing, drill 7 7/8" or 8 3/4" hole to 11300' and log. MUDPUSHII 12 ppg, followed by 230 sks Type H Cement, + 0.5% Halad-322 + 0.2% HR-601; 15.6 ppg, 1.2 yield 10800'. Set whipstock and kick off 7 7/8" or 8 3/4" lateral @ 10800' and drill to TD @ 15595' MD, 11100' T 17# BTC P110 in lateral from 10800' to 15595', and 5 1/2" 17# LTC P-110 from surface to 10800'.

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9 Casing & Cementing Program:

String	Hole Size	Depth	Casing OD	Weight	Collar	Grade
Surface	17 1/2"	0' to 1340'	New 13 3/8"	48#	STC	H-40
Intermediate	12 1/4"	0' to 3400'	New 9 5/8"	36#	LTC	J-55
Intermediate	12 1/4"	3400' to 4900'	New 9 5/8"	40#	LTC	N-80
Production	7 7/8" or 8 3/4"	0' to 10800'	New 5 1/2"	17#	LTC	P-110
Production	7 7/8" or 8 3/4"	10800' to 15595'	New 5 1/2"	17#	BTC	P-110

See COA

10 Cementing:

Surface

Lead: 750 sks Premium Plus + 2% CaCl 4% gel 13.5ppg 1.75yield 100% Excess

Tail: 200 sks Premium Plus + 2% CaCl 14.8ppg 1.34 yield 10% Excess

TOC Surface Centralizers per Onshore Order 2.III.B.1.f

Intermediate

Lead: 1555 sks HLPP + 5% Salt + 5# Gilsonite 12.9 ppg 1.92 yield 100% Excess

Tail: 235 sks Premium Plus + 1% CaCl 14.8 ppg 1.34 yield 0% Excess

TOC Surface

Production

Lead: 835 sks Econocem H + 0.5/10% HR-601 0.5/10% Halad-322 (fluid loss control) 11.9 ppg 2.48 yield 53% Excess

Tail: 1385 sks Versacem H + 0.5% Halad(R)-344 (fluid loss control) + 0.4% CFR-3 + 1# Salt + 0.2% HR-601 14.5 ppg 1.22 yield 25% Excess

Cement volumes will be adjusted depending on hole size.

See COA

TOC Surface 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

1.125

Burst Factor

1.125

Tension Factor

1.6

11 Pressure control Equipment:

Exhibit "E". A 13 5/8" 5000 PSI working pressure BOP, tested to 3000 psi on the surface casing and 5000 psi on the intermediate, consisting of one set of blind rams and one set of 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 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 unit will be hydraulically operated. BOP will be nipped up 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.

BOPS will be tested by an independent service company to 250 psi low and 3000 psi high on the surface casing and 250 psi low and 5000 psi high on the intermediate. Hydril will be tested to 250 psi low and 2500 psi high on the surface and intermediate casings.

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. 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.

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Triste Draw 25 Federal 2
Cimarex Energy Co. of Colorado
Unit N, Section 30
T23S-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 Inter. Csg from surface to TD
- C. No DSTs or cores are planned at this time.

13 Potential Hazards:

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CA 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 **5000 psi** Estimated BHT **138°**

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 potentialied as **an oil well.**





Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	Slot #1
Area	Lea County, New Mexico	Well	No. 2
Field	(Triste Draw) Sec 25, T23S, R32E	Wellbore	No. 2 (PWB)
Facility	Triste Draw 25 Federal No. 2		

REPORT SETUP INFORMATION

Projection System	NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Lemachrl
Scale	0.999964	Report Generated	6/6/2012 at 9:35:42 AM
Convergence at slot	n/a	Database/Source file	WA_Midland/No. 2 PWB_.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W
Facility Reference Pt			759920.20	462462.60	32°16'09.856"N	103°37'34.078"W
Field Reference Pt			0.00	0.00	30°59'18.404"N	106°03'38.987"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on Slot #1 (RT) to Facility Vertical Datum	0.00ft
Horizontal Reference Pt	Slot	Rig on Slot #1 (RT) to Mean Sea Level	3702.00ft
Vertical Reference Pt	Rig on Slot #1 (RT)	Rig on Slot #1 (RT) to Mud Line at Slot (Slot #1)	0.00ft
MD Reference Pt	Rig on Slot #1 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	359.54°



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Operator	Cimarex Energy Co. of Colorado	Slot	Slot #1
Area	Lea County, New Mexico	Well	No. 2
Field	(Triste Draw) Sec 25, T23S, R32E	Wellbore	No. 2 (PWB)
Facility	Triste Draw 25 Federal No. 2		

WELLPATH DATA (158 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
0.00	0.000	359.539	0.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
100.00†	0.000	359.539	100.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
200.00†	0.000	359.539	200.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
300.00†	0.000	359.539	300.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
400.00†	0.000	359.539	400.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
500.00†	0.000	359.539	500.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
600.00†	0.000	359.539	600.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
700.00†	0.000	359.539	700.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
800.00†	0.000	359.539	800.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
900.00†	0.000	359.539	900.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
1000.00†	0.000	359.539	1000.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
1100.00†	0.000	359.539	1100.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
1200.00†	0.000	359.539	1200.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
1300.00†	0.000	359.539	1300.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
1400.00†	0.000	359.539	1400.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
1500.00†	0.000	359.539	1500.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
1600.00†	0.000	359.539	1600.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
1700.00†	0.000	359.539	1700.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
1800.00†	0.000	359.539	1800.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
1900.00†	0.000	359.539	1900.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
2000.00†	0.000	359.539	2000.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
2100.00†	0.000	359.539	2100.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
2200.00†	0.000	359.539	2200.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
2300.00†	0.000	359.539	2300.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
2400.00†	0.000	359.539	2400.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
2500.00†	0.000	359.539	2500.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
2600.00†	0.000	359.539	2600.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
2700.00†	0.000	359.539	2700.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
2800.00†	0.000	359.539	2800.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
2900.00†	0.000	359.539	2900.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00



Planned Wellpath Report

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3000.00†	0.000	359.539	3000.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
3100.00†	0.000	359.539	3100.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
3200.00†	0.000	359.539	3200.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
3300.00†	0.000	359.539	3300.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
3400.00†	0.000	359.539	3400.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
3500.00†	0.000	359.539	3500.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
3600.00†	0.000	359.539	3600.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
3700.00†	0.000	359.539	3700.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
3800.00†	0.000	359.539	3800.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
3900.00†	0.000	359.539	3900.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
4000.00†	0.000	359.539	4000.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
4100.00†	0.000	359.539	4100.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
4200.00†	0.000	359.539	4200.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
4300.00†	0.000	359.539	4300.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
4400.00†	0.000	359.539	4400.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
4500.00†	0.000	359.539	4500.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
4600.00†	0.000	359.539	4600.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
4700.00†	0.000	359.539	4700.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
4800.00†	0.000	359.539	4800.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
4900.00†	0.000	359.539	4900.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
5000.00†	0.000	359.539	5000.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
5100.00†	0.000	359.539	5100.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
5200.00†	0.000	359.539	5200.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
5300.00†	0.000	359.539	5300.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
5400.00†	0.000	359.539	5400.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
5500.00†	0.000	359.539	5500.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
5600.00†	0.000	359.539	5600.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
5700.00†	0.000	359.539	5700.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
5800.00†	0.000	359.539	5800.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
5900.00†	0.000	359.539	5900.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00



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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	Slot #1
Area	Lea County, New Mexico	Well	No. 2
Field	(Triste Draw) Sec 25, T23S, R32E	Wellbore	No. 2 (PWB)
Facility	Triste Draw 25 Federal No. 2		

WELLPATH DATA (158 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
6000.00†	0.000	359.539	6000.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
6100.00†	0.000	359.539	6100.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
6200.00†	0.000	359.539	6200.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
6300.00†	0.000	359.539	6300.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
6400.00†	0.000	359.539	6400.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
6500.00†	0.000	359.539	6500.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
6600.00†	0.000	359.539	6600.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
6700.00†	0.000	359.539	6700.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
6800.00†	0.000	359.539	6800.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
6900.00†	0.000	359.539	6900.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
7000.00†	0.000	359.539	7000.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
7100.00†	0.000	359.539	7100.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
7200.00†	0.000	359.539	7200.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
7300.00†	0.000	359.539	7300.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
7400.00†	0.000	359.539	7400.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
7500.00†	0.000	359.539	7500.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
7600.00†	0.000	359.539	7600.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
7700.00†	0.000	359.539	7700.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
7800.00†	0.000	359.539	7800.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
7900.00†	0.000	359.539	7900.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
8000.00†	0.000	359.539	8000.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
8100.00†	0.000	359.539	8100.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
8200.00†	0.000	359.539	8200.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
8300.00†	0.000	359.539	8300.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
8400.00†	0.000	359.539	8400.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
8500.00†	0.000	359.539	8500.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
8600.00†	0.000	359.539	8600.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
8700.00†	0.000	359.539	8700.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
8800.00†	0.000	359.539	8800.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
8900.00†	0.000	359.539	8900.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00



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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	Slot #1
Area	Lea County, New Mexico	Well	No. 2
Field	(Triste Draw) Sec 25, T23S, R32E	Wellbore	No. 2 (PWB)
Facility	Triste Draw 25 Federal No. 2		

WELLPATH DATA (158 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
9000.00†	0.000	359.539	9000.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
9100.00†	0.000	359.539	9100.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
9200.00†	0.000	359.539	9200.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
9300.00†	0.000	359.539	9300.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
9400.00†	0.000	359.539	9400.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
9500.00†	0.000	359.539	9500.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
9600.00†	0.000	359.539	9600.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
9700.00†	0.000	359.539	9700.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
9800.00†	0.000	359.539	9800.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
9900.00†	0.000	359.539	9900.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
10000.00†	0.000	359.539	10000.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
10100.00†	0.000	359.539	10100.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
10200.00†	0.000	359.539	10200.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
10300.00†	0.000	359.539	10300.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
10400.00†	0.000	359.539	10400.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
10500.00†	0.000	359.539	10500.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
10600.00†	0.000	359.539	10600.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
10700.00†	0.000	359.539	10700.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
10800.00	0.000	359.539	10800.00	0.00	0.00	0.00	759920.20	462462.60	32°16'09.856"N	103°37'34.078"W	0.00	0.000	0.00
10900.00†	19.099	359.539	10898.16	16.51	16.51	-0.13	759920.07	462479.11	32°16'10.019"N	103°37'34.078"W	16.51	359.539	19.10
11000.00†	38.197	359.539	10985.51	64.23	64.23	-0.52	759919.68	462526.83	32°16'10.492"N	103°37'34.079"W	64.23	359.539	19.10
11100.00†	57.296	359.539	11052.44	137.91	137.90	-1.11	759919.09	462600.50	32°16'11.221"N	103°37'34.080"W	137.91	359.539	19.10
11200.00†	76.394	359.539	11091.58	229.43	229.42	-1.85	759918.35	462692.01	32°16'12.126"N	103°37'34.082"W	229.43	359.539	19.10
11271.24	90.000	359.539	11100.00	300.00	299.99	-2.41	759917.79	462762.58	32°16'12.825"N	103°37'34.083"W	300.00	359.539	19.10
11300.00†	90.000	359.539	11100.00	328.76	328.75	-2.64	759917.56	462791.34	32°16'13.109"N	103°37'34.084"W	328.76	359.539	0.00
11400.00†	90.000	359.539	11100.00	428.76	428.75	-3.45	759916.75	462891.33	32°16'14.099"N	103°37'34.085"W	428.76	359.539	0.00
11500.00†	90.000	359.539	11100.00	528.76	528.74	-4.25	759915.95	462991.32	32°16'15.088"N	103°37'34.087"W	528.76	359.539	0.00
11600.00†	90.000	359.539	11100.00	628.76	628.74	-5.06	759915.14	463091.32	32°16'16.078"N	103°37'34.089"W	628.76	359.539	0.00
11700.00†	90.000	359.539	11100.00	728.76	728.74	-5.86	759914.34	463191.31	32°16'17.067"N	103°37'34.090"W	728.76	359.539	0.00
11800.00†	90.000	359.539	11100.00	828.76	828.73	-6.67	759913.53	463291.30	32°16'18.057"N	103°37'34.092"W	828.76	359.539	0.00



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co. of Colorado	Slot	Slot #1
Area	Lea County, New Mexico	Well	No. 2
Field	(Triste Draw) Sec 25, T23S, R32E	Wellbore	No. 2 (PWB)
Facility	Triste Draw 25 Federal No. 2		

WELLPATH DATA (158 stations) † = interpolated/extrapolated station													
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
11900.00†	90.000	359.539	11100.00	928.76	928.73	-7.47	759912.73	463391.30	32°16'19.046"N	103°37'34.094"W	928.76	359.539	0.00
12000.00†	90.000	359.539	11100.00	1028.76	1028.73	-8.28	759911.92	463491.29	32°16'20.036"N	103°37'34.096"W	1028.76	359.539	0.00
12100.00†	90.000	359.539	11100.00	1128.76	1128.72	-9.08	759911.12	463591.28	32°16'21.025"N	103°37'34.097"W	1128.76	359.539	0.00
12200.00†	90.000	359.539	11100.00	1228.76	1228.72	-9.89	759910.32	463691.27	32°16'22.015"N	103°37'34.099"W	1228.76	359.539	0.00
12300.00†	90.000	359.539	11100.00	1328.76	1328.72	-10.69	759909.51	463791.27	32°16'23.004"N	103°37'34.101"W	1328.76	359.539	0.00
12400.00†	90.000	359.539	11100.00	1428.76	1428.71	-11.49	759908.71	463891.26	32°16'23.994"N	103°37'34.102"W	1428.76	359.539	0.00
12500.00†	90.000	359.539	11100.00	1528.76	1528.71	-12.30	759907.90	463991.25	32°16'24.983"N	103°37'34.104"W	1528.76	359.539	0.00
12600.00†	90.000	359.539	11100.00	1628.76	1628.71	-13.10	759907.10	464091.25	32°16'25.973"N	103°37'34.106"W	1628.76	359.539	0.00
12700.00†	90.000	359.539	11100.00	1728.76	1728.71	-13.91	759906.29	464191.24	32°16'26.962"N	103°37'34.107"W	1728.76	359.539	0.00
12800.00†	90.000	359.539	11100.00	1828.76	1828.70	-14.71	759905.49	464291.23	32°16'27.952"N	103°37'34.109"W	1828.76	359.539	0.00
12900.00†	90.000	359.539	11100.00	1928.76	1928.70	-15.52	759904.68	464391.23	32°16'28.941"N	103°37'34.111"W	1928.76	359.539	0.00
13000.00†	90.000	359.539	11100.00	2028.76	2028.70	-16.32	759903.88	464491.22	32°16'29.931"N	103°37'34.113"W	2028.76	359.539	0.00
13100.00†	90.000	359.539	11100.00	2128.76	2128.69	-17.13	759903.07	464591.21	32°16'30.920"N	103°37'34.114"W	2128.76	359.539	0.00
13200.00†	90.000	359.539	11100.00	2228.76	2228.69	-17.93	759902.27	464691.20	32°16'31.910"N	103°37'34.116"W	2228.76	359.539	0.00
13300.00†	90.000	359.539	11100.00	2328.76	2328.69	-18.73	759901.47	464791.20	32°16'32.899"N	103°37'34.118"W	2328.76	359.539	0.00
13400.00†	90.000	359.539	11100.00	2428.76	2428.68	-19.54	759900.66	464891.19	32°16'33.889"N	103°37'34.119"W	2428.76	359.539	0.00
13500.00†	90.000	359.539	11100.00	2528.76	2528.68	-20.34	759899.86	464991.18	32°16'34.878"N	103°37'34.121"W	2528.76	359.539	0.00
13600.00†	90.000	359.539	11100.00	2628.76	2628.68	-21.15	759899.05	465091.18	32°16'35.868"N	103°37'34.123"W	2628.76	359.539	0.00
13700.00†	90.000	359.539	11100.00	2728.76	2728.67	-21.95	759898.25	465191.17	32°16'36.857"N	103°37'34.124"W	2728.76	359.539	0.00
13800.00†	90.000	359.539	11100.00	2828.76	2828.67	-22.76	759897.44	465291.16	32°16'37.847"N	103°37'34.126"W	2828.76	359.539	0.00
13900.00†	90.000	359.539	11100.00	2928.76	2928.67	-23.56	759896.64	465391.15	32°16'38.836"N	103°37'34.128"W	2928.76	359.539	0.00
14000.00†	90.000	359.539	11100.00	3028.76	3028.66	-24.37	759895.83	465491.15	32°16'39.826"N	103°37'34.129"W	3028.76	359.539	0.00
14100.00†	90.000	359.539	11100.00	3128.76	3128.66	-25.17	759895.03	465591.14	32°16'40.815"N	103°37'34.131"W	3128.76	359.539	0.00
14200.00†	90.000	359.539	11100.00	3228.76	3228.66	-25.98	759894.23	465691.13	32°16'41.805"N	103°37'34.133"W	3228.76	359.539	0.00
14300.00†	90.000	359.539	11100.00	3328.76	3328.65	-26.78	759893.42	465791.13	32°16'42.794"N	103°37'34.135"W	3328.76	359.539	0.00
14400.00†	90.000	359.539	11100.00	3428.76	3428.65	-27.58	759892.62	465891.12	32°16'43.784"N	103°37'34.136"W	3428.76	359.539	0.00
14500.00†	90.000	359.539	11100.00	3528.76	3528.65	-28.39	759891.81	465991.11	32°16'44.773"N	103°37'34.138"W	3528.76	359.539	0.00
14600.00†	90.000	359.539	11100.00	3628.76	3628.64	-29.19	759891.01	466091.11	32°16'45.763"N	103°37'34.140"W	3628.76	359.539	0.00
14700.00†	90.000	359.539	11100.00	3728.76	3728.64	-30.00	759890.20	466191.10	32°16'46.752"N	103°37'34.141"W	3728.76	359.539	0.00
14800.00†	90.000	359.539	11100.00	3828.76	3828.64	-30.80	759889.40	466291.09	32°16'47.742"N	103°37'34.143"W	3828.76	359.539	0.00



Planned Wellpath Report

Rev-A.0

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co. of Colorado	Slot	Slot #1
Area	Lea County, New Mexico	Well	No. 2
Field	(Triste Draw) Sec 25, T23S, R32E	Wellbore	No. 2 (PWB)
Facility	Triste Draw 25 Federal No. 2		

WELLPATH DATA (158 stations): † = interpolated/extrapolated station													
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
14900.00†	90.000	359.539	11100.00	3928.76	3928.63	-31.61	759888.59	466391.08	32°16'48.731"N	103°37'34.145"W	3928.76	359.539	0.00
15000.00†	90.000	359.539	11100.00	4028.76	4028.63	-32.41	759887.79	466491.08	32°16'49.721"N	103°37'34.146"W	4028.76	359.539	0.00
15100.00†	90.000	359.539	11100.00	4128.76	4128.63	-33.22	759886.99	466591.07	32°16'50.710"N	103°37'34.148"W	4128.76	359.539	0.00
15200.00†	90.000	359.539	11100.00	4228.76	4228.62	-34.02	759886.18	466691.06	32°16'51.700"N	103°37'34.150"W	4228.76	359.539	0.00
15300.00†	90.000	359.539	11100.00	4328.76	4328.62	-34.82	759885.38	466791.06	32°16'52.689"N	103°37'34.151"W	4328.76	359.539	0.00
15400.00†	90.000	359.539	11100.00	4428.76	4428.62	-35.63	759884.57	466891.05	32°16'53.679"N	103°37'34.153"W	4428.76	359.539	0.00
15500.00†	90.000	359.539	11100.00	4528.76	4528.61	-36.43	759883.77	466991.04	32°16'54.668"N	103°37'34.155"W	4528.76	359.539	0.00
15595.47	90.000	359.539	11100.00†	4624.23	4624.08	-37.20	759883.00	467086.50	32°16'55.613"N	103°37'34.156"W	4624.23	359.539	0.00

TARGETS.									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) Triste Draw 25 No. 2 (Rev-0)	15595.47	11100.00	4624.08	-37.20	759883.00	467086.50	32°16'55.613"N	103°37'34.156"W	point

SR & A

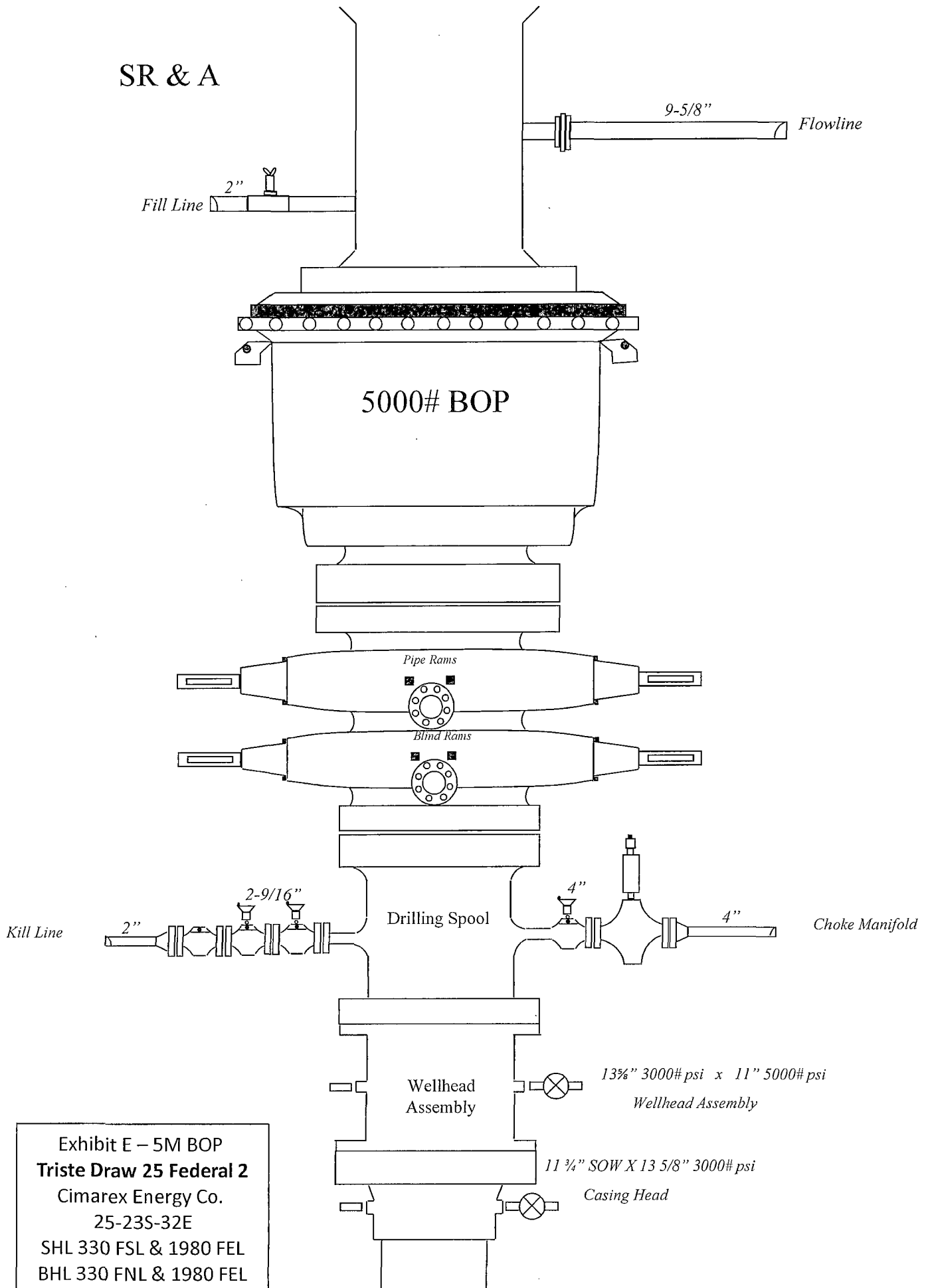


Exhibit E – 5M BOP
Triste Draw 25 Federal 2
Cimarex Energy Co.
25-23S-32E
SHL 330 FSL & 1980 FEL
BHL 330 FNL & 1980 FEL
Lea County, NM

Drilling Operations Choke Manifold 5M Service

Exhibit E-1 – Choke Manifold Diagram

Triste Draw 25 Federal 2

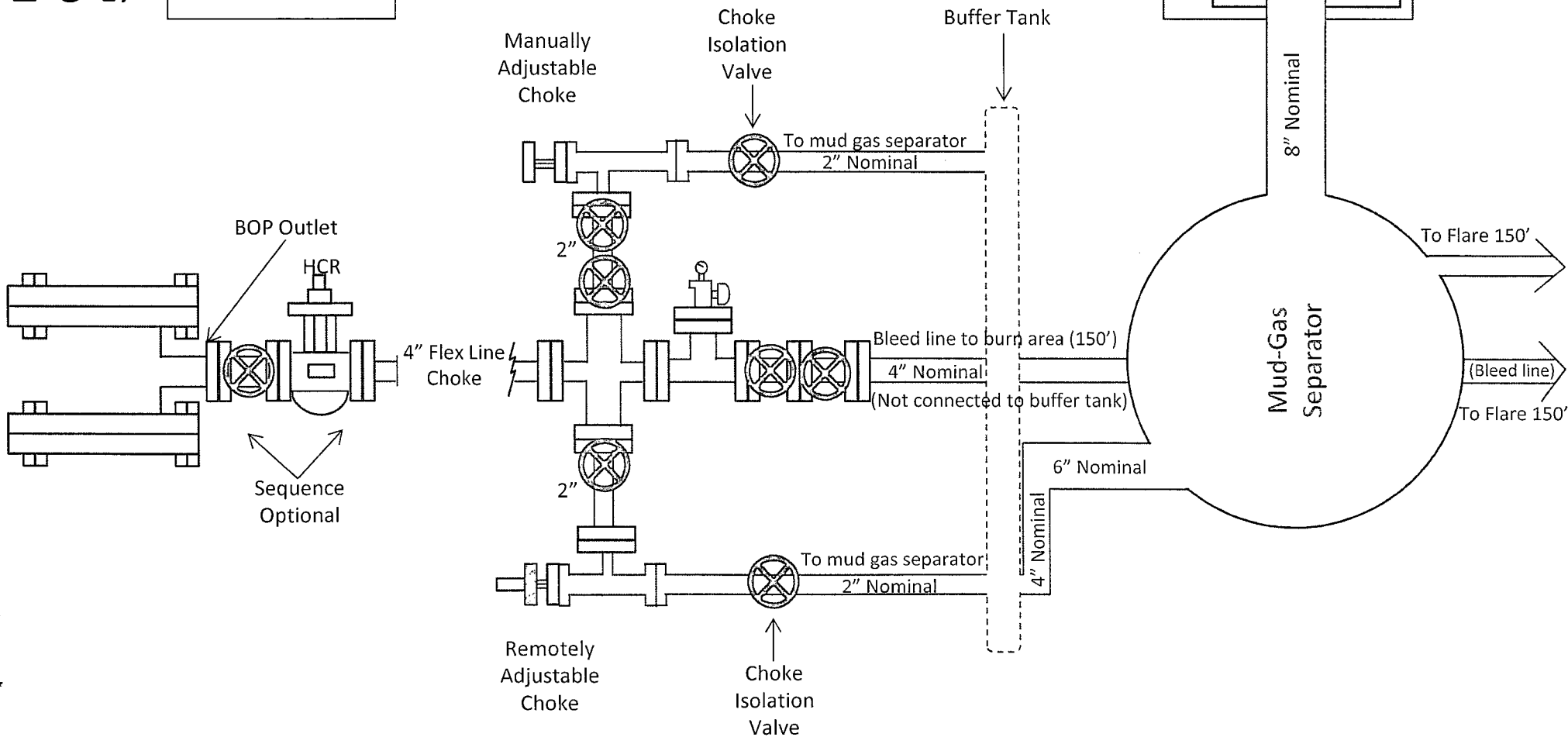
Cimarex Energy Co.

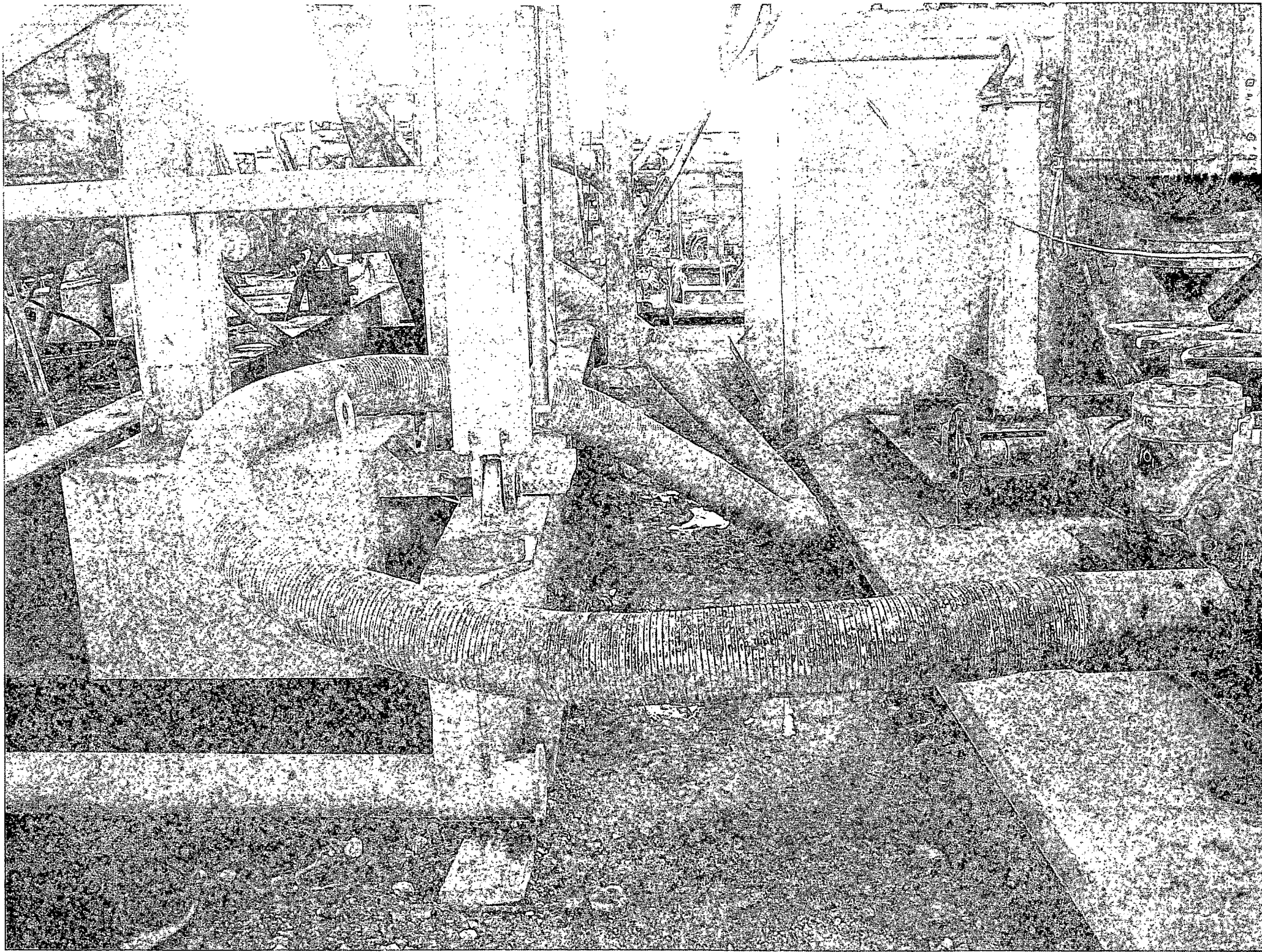
25-23S-32E

SHL 330 FSL & 1980 FEL

BHL 330 FNL & 1980 FEL

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 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:		Date:
<i>James Garcia</i>		3/8/2011



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

March 3, 2011

Customer: Houston

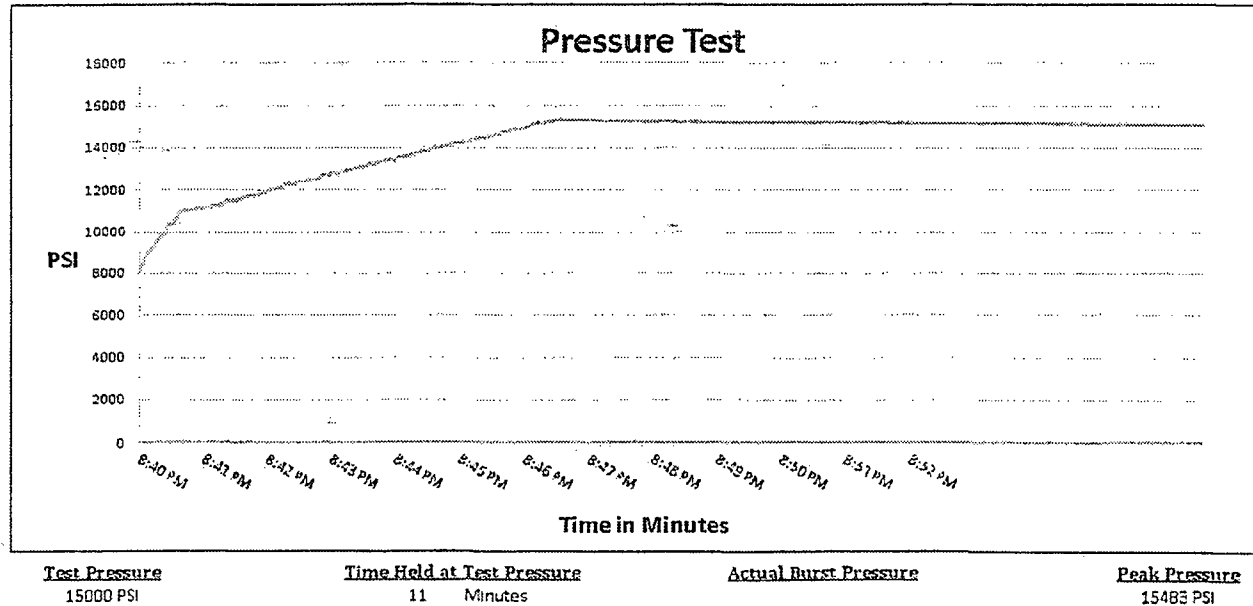
Pick Ticket #: 94260

Hose Specifications

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

Verification

<u>Type of Fitting</u>	<u>Coupling Method</u>
41/16 10K	Swage
<u>Die Size</u>	<u>Final O.D.</u>
6.38"	6.25"
<u>Hose Serial #</u>	<u>Hose Assembly Serial #</u>
5544	79793



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

Tested By: Zac McConnell

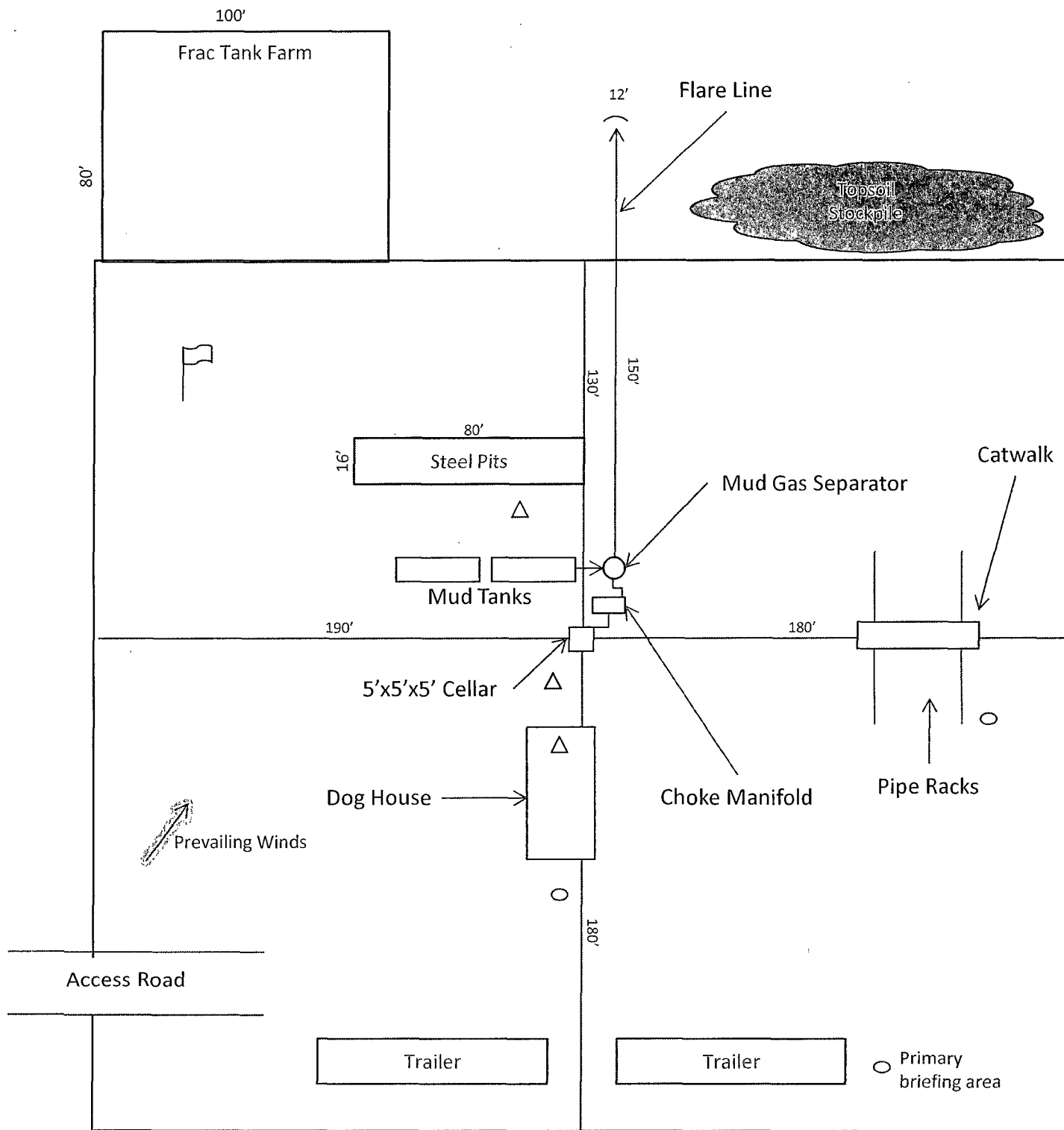
Approved By: Kim Thomas



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. Joim</i>	Approved: <i>[Signature]</i>	



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



Exhibit D – Rig Diagram
Triste Draw 25 Federal 2
 Cimarex Energy Co.
 25-23S-32E
 SHL 330 FSL & 1980 FEL
 BHL 330 FNL & 1980 FEL
 Lea County, NM