

APR 26 2013

Form 3160-3
(April 2004)

RECEIVED

Split Estate

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. NMNM031224	
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 30 Federal 1	
3b. Phone No. (include area code) 432-571-7800		9. API Well No. 30-025-41174	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At Surface 330 FSL & 660 FWL At proposed prod. Zone 330 FNL & 660 FWL Horizontal Bone Spring test		10. Field and Pool, or Exploratory TRIPLEX; Bone Spring, WEST	
14. Distance in miles and direction from nearest town or post office* Approx 27 miles NE from Jal, NM		11. Sec., T. R. M. or Blk. and Survey or Area 30-23S-33E	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line if any) 1650'	16. No of acres in lease 591.68	17. Spacing Unit dedicated to this well 151.68	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. N/A	19. Proposed Depth MD 15517 TVD 11150	20. BLM/BIA Bond No. on File NM2575; NMB000835	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3696' GR	22. Approximate date work will start* 12.15.12	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 	Name (Printed/Typed) Terri Stathem	Date 11.06.12
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Title Coordinator Regulatory Compliance	
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Approved By (Signature) /s/George MacDonell	Name (Printed/Typed)	Date APR 24 2013
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Title FIELD MANAGER	Office CARLSBAD FIELD OFFICE
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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

SEE ATTACHED FOR
CONDITIONS OF APPROVALApproval Subject to General Requirements
& Special Stipulations Attached

MAY 20 2013

Operator - Landowner Agreement

Company: Cimarex Energy Co. of Colorado
Proposed Well: Triste Draw 30 Federal 1
Federal Lease Number: NMNM031224

This is to advise that Cimarex Energy Co. of Colorado has an agreement with: Brininstool XL Ranch LLC (424 XL Road, Jal NM 88252, (575) 390-1881), the surface owner, concerning entry and surface restoration after completion of drilling operations at the above described well.

After abandonment of the well, all pits will be filled and levelled and all equipment and trash will be removed from the well site. No other requirements were made concerning restoration of the well site.

August 24, 2012
Date


Signature Tracie J. Cherry
Sr. Regulatory Analyst

Application to Drill
Triste Draw 30 Federal 1
 Cimarex Energy Co. of Colorado
 Unit M, Section 30
 T23S-R33E; Lea County, NM

9 Casing & Cementing Program:

String	Hole Size	Depth		Casing OD		Weight	Collar	Grade
Surface	17 1/2"	0'	to 1350'	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 5080'	New	9 5/8"	40#	LTC	J-55
Production	8 3/4" or 7 7/8"	0'	to 10800'	New	5 1/2"	17#	LTC	P-110
Production	7 7/8" or 8 3/4"	10800'	to 15517'	New	5 1/2"	17#	BTC	P-110

See COA

10 Cementing:

Surface

Lead: 810 sx Premium Plus C + 2% CaCl 4% gel 13.5ppg 1.75 yield

Tail: 200 sx Premium Plus C + 2% CaCl 14.8ppg 1.34 yield

85% Excess

TOC Surface

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

Intermediate

Lead: 1555 sx HLPP C + 5% Salt + 5# Gilsonite 12.9ppg 1.92 yield

Tail: 235 sx Premium Plus C + 1% CaCl 14.8ppg 1.34 yield

60% Excess

TOC Surface

Production

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

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

Cement volumes will be adjusted depending on hole size.

See COA

25% Excess

TOC 3600'

See COA

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.

<u>Collapse Factor</u>	<u>Burst Factor</u>	<u>Tension Factor</u>
1.125	1.125	1.6

11 Pressure control Equipment:

Exhibit "E". A 13 1/2" 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.

Application to Drill
Triste Draw 30 Federal 1
Cimarex Energy Co. of Colorado
Unit M, Section 30
T23S-R33E; 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:

See con
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 **4995 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 potentialized as **an oil well.**



Planned Wellpath Report

Rev-A.0
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co. of Colorado	Slot	No. 1H SHL
Area	Lea County, New Mexico	Well	No. 1H
Field	(Triste Draw) Sec 30, T23S, R33E	Wellbore	No. 1H PWB
Facility	Triste Draw 30 Federal No. 1H		

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	Harrkol
Scale	0.999965	Report Generated	7/26/2012 at 4:04:08 PM
Convergence at slot	0.38° East	Database/Source file	WA Midland/No. 1H_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	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W
Facility Reference Pt			762560.00	462488.60	32°16'09.940"N	103°37'03.331"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	3696.00ft
Vertical Reference Pt	Rig on Slot #1 (RT)	Rig on Slot #1 (RT) to Mud Line at Slot (No. 1H SHL)	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	359.53°



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Field	(Triste Draw) Sec 30, T23S, R33E	Wellbore	No. 1H PWB
Facility	Triste Draw 30 Federal No. 1H		

WELLPATH DATA (165 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	DLS [°/100ft]	Comments
0.00	0.000	359.533	0.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	Tie On
100.00†	0.000	359.533	100.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
200.00†	0.000	359.533	200.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
300.00†	0.000	359.533	300.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
400.00†	0.000	359.533	400.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
500.00†	0.000	359.533	500.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
600.00†	0.000	359.533	600.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
700.00†	0.000	359.533	700.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
800.00†	0.000	359.533	800.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
900.00†	0.000	359.533	900.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
1000.00†	0.000	359.533	1000.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
1100.00†	0.000	359.533	1100.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
1200.00†	0.000	359.533	1200.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
1300.00†	0.000	359.533	1300.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
1400.00†	0.000	359.533	1400.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
1500.00†	0.000	359.533	1500.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
1600.00†	0.000	359.533	1600.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
1700.00†	0.000	359.533	1700.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
1800.00†	0.000	359.533	1800.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
1900.00†	0.000	359.533	1900.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
2000.00†	0.000	359.533	2000.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
2100.00†	0.000	359.533	2100.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
2200.00†	0.000	359.533	2200.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
2300.00†	0.000	359.533	2300.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
2400.00†	0.000	359.533	2400.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
2500.00†	0.000	359.533	2500.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
2600.00†	0.000	359.533	2600.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
2700.00†	0.000	359.533	2700.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
2800.00†	0.000	359.533	2800.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
2900.00†	0.000	359.533	2900.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
3000.00†	0.000	359.533	3000.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
3100.00†	0.000	359.533	3100.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
3200.00†	0.000	359.533	3200.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
3300.00†	0.000	359.533	3300.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
3400.00†	0.000	359.533	3400.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
3500.00†	0.000	359.533	3500.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
3600.00†	0.000	359.533	3600.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
3700.00†	0.000	359.533	3700.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
3800.00†	0.000	359.533	3800.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
3900.00†	0.000	359.533	3900.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
4000.00†	0.000	359.533	4000.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
4100.00†	0.000	359.533	4100.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
4200.00†	0.000	359.533	4200.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
4300.00†	0.000	359.533	4300.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
4400.00†	0.000	359.533	4400.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	



Planned Wellpath Report

Rev-A.0
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REFERENCE WELLPATH IDENTIFICATION

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Facility	Triste Draw 30 Federal No. 1H		

WELLPATH DATA (165 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	DLS [°/100ft]	Comments
4500.00†	0.000	359.533	4500.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
4600.00†	0.000	359.533	4600.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
4700.00†	0.000	359.533	4700.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
4800.00†	0.000	359.533	4800.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
4900.00†	0.000	359.533	4900.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
5000.00†	0.000	359.533	5000.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
5020.00†	0.000	359.533	5020.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	Delaware Sands
5100.00†	0.000	359.533	5100.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
5200.00†	0.000	359.533	5200.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
5300.00†	0.000	359.533	5300.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
5400.00†	0.000	359.533	5400.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
5500.00†	0.000	359.533	5500.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
5600.00†	0.000	359.533	5600.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
5700.00†	0.000	359.533	5700.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
5800.00†	0.000	359.533	5800.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
5900.00†	0.000	359.533	5900.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
6000.00†	0.000	359.533	6000.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
6100.00†	0.000	359.533	6100.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
6200.00†	0.000	359.533	6200.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
6300.00†	0.000	359.533	6300.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
6400.00†	0.000	359.533	6400.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
6500.00†	0.000	359.533	6500.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
6600.00†	0.000	359.533	6600.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
6700.00†	0.000	359.533	6700.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
6800.00†	0.000	359.533	6800.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
6900.00†	0.000	359.533	6900.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
7000.00†	0.000	359.533	7000.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
7100.00†	0.000	359.533	7100.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
7200.00†	0.000	359.533	7200.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
7300.00†	0.000	359.533	7300.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
7400.00†	0.000	359.533	7400.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
7500.00†	0.000	359.533	7500.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
7600.00†	0.000	359.533	7600.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
7700.00†	0.000	359.533	7700.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
7800.00†	0.000	359.533	7800.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
7900.00†	0.000	359.533	7900.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
8000.00†	0.000	359.533	8000.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
8100.00†	0.000	359.533	8100.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
8200.00†	0.000	359.533	8200.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
8300.00†	0.000	359.533	8300.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
8400.00†	0.000	359.533	8400.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
8500.00†	0.000	359.533	8500.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
8600.00†	0.000	359.533	8600.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
8625.00†	0.000	359.533	8625.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	Basal Brushy Canyon
8700.00†	0.000	359.533	8700.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	No. 1H SHL
Area	Lea County, New Mexico	Well	No. 1H
Field	(Triste Draw) Sec 30, T23S, R33E	Wellbore	No. 1H PWB
Facility	Triste Draw 30 Federal No. 1H		

WELLPATH DATA (165 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	DLS [°/100ft]	Comments
8800.00†	0.000	359.533	8800.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
8850.00†	0.000	359.533	8850.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	Bone Spring
8900.00†	0.000	359.533	8900.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
9000.00†	0.000	359.533	9000.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
9100.00†	0.000	359.533	9100.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
9200.00†	0.000	359.533	9200.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
9300.00†	0.000	359.533	9300.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	Avalon Shale
9400.00†	0.000	359.533	9400.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
9500.00†	0.000	359.533	9500.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
9600.00†	0.000	359.533	9600.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
9700.00†	0.000	359.533	9700.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
9800.00†	0.000	359.533	9800.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
9900.00†	0.000	359.533	9900.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
10000.00†	0.000	359.533	10000.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
10050.00†	0.000	359.533	10050.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	1st BSS
10100.00†	0.000	359.533	10100.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
10200.00†	0.000	359.533	10200.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
10300.00†	0.000	359.533	10300.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
10400.00†	0.000	359.533	10400.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
10500.00†	0.000	359.533	10500.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
10600.00†	0.000	359.533	10600.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	
10623.00†	0.000	359.533	10623.00	0.00	0.00	0.00	762560.00	462488.60	32°16'09.940"N	103°37'03.331"W	0.00	Est. KOP
10675.10†	6.258	359.533	10675.00	2.84	2.84	-0.02	762559.98	462491.44	32°16'09.968"N	103°37'03.331"W	12.01	2nd BSS
10700.00†	9.248	359.533	10699.67	6.20	6.20	-0.05	762559.95	462494.80	32°16'10.001"N	103°37'03.331"W	12.01	
10800.00†	21.259	359.533	10795.97	32.46	32.46	-0.26	762559.74	462521.06	32°16'10.261"N	103°37'03.332"W	12.01	
10900.00†	33.270	359.533	10884.69	78.19	78.19	-0.64	762559.36	462566.78	32°16'10.714"N	103°37'03.333"W	12.01	
11000.00†	45.281	359.533	10961.96	141.38	141.37	-1.15	762558.85	462629.97	32°16'11.339"N	103°37'03.334"W	12.01	
11100.00†	57.292	359.533	11024.39	219.26	219.26	-1.79	762558.21	462707.85	32°16'12.110"N	103°37'03.335"W	12.01	
11200.00†	69.302	359.533	11069.25	308.43	308.42	-2.51	762557.49	462797.01	32°16'12.992"N	103°37'03.337"W	12.01	
11300.00†	81.313	359.533	11094.56	404.99	404.97	-3.30	762556.70	462893.56	32°16'13.947"N	103°37'03.338"W	12.01	
11366.58	89.310	359.533	11100.00	471.29	471.27	-3.84	762556.16	462959.86	32°16'14.604"N	103°37'03.339"W	12.01	EOC
11366.61	89.310	359.533	11100.00	471.32	471.30	-3.84	762556.16	462959.88	32°16'14.604"N	103°37'03.339"W	2.00	TL
11400.00†	89.310	359.533	11100.40	504.71	504.69	-4.11	762555.89	462993.27	32°16'14.934"N	103°37'03.340"W	0.00	
11500.00†	89.310	359.533	11101.61	604.70	604.68	-4.93	762555.07	463093.26	32°16'15.924"N	103°37'03.342"W	0.00	
11600.00†	89.310	359.533	11102.81	704.69	704.67	-5.75	762554.25	463193.24	32°16'16.913"N	103°37'03.344"W	0.00	
11700.00†	89.310	359.533	11104.02	804.69	804.66	-6.56	762553.44	463293.23	32°16'17.903"N	103°37'03.345"W	0.00	
11800.00†	89.310	359.533	11105.22	904.68	904.65	-7.38	762552.62	463393.22	32°16'18.892"N	103°37'03.347"W	0.00	
11900.00†	89.310	359.533	11106.43	1004.67	1004.64	-8.19	762551.81	463493.20	32°16'19.881"N	103°37'03.349"W	0.00	
12000.00†	89.310	359.533	11107.63	1104.66	1104.63	-9.01	762550.99	463593.19	32°16'20.871"N	103°37'03.350"W	0.00	
12100.00†	89.310	359.533	11108.84	1204.66	1204.62	-9.82	762550.18	463693.17	32°16'21.860"N	103°37'03.352"W	0.00	
12200.00†	89.310	359.533	11110.04	1304.65	1304.61	-10.64	762549.36	463793.16	32°16'22.850"N	103°37'03.354"W	0.00	
12300.00†	89.310	359.533	11111.24	1404.64	1404.60	-11.46	762548.54	463893.14	32°16'23.839"N	103°37'03.356"W	0.00	
12400.00†	89.310	359.533	11112.45	1504.64	1504.59	-12.27	762547.73	463993.13	32°16'24.829"N	103°37'03.357"W	0.00	
12500.00†	89.310	359.533	11113.65	1604.63	1604.57	-13.09	762546.91	464093.12	32°16'25.818"N	103°37'03.359"W	0.00	
12600.00†	89.310	359.533	11114.86	1704.62	1704.56	-13.90	762546.10	464193.10	32°16'26.807"N	103°37'03.361"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	No. 1H SHL
Area	Lea County, New Mexico	Well	No. 1H
Field	(Triste Draw) Sec 30, T23S, R33E	Wellbore	No. 1H PWB
Facility	Triste Draw 30 Federal No. 1H		

WELLPATH DATA (165 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	DLS [°/100ft]	Comments
12700.00†	89.310	359.533	11116.06	1804.61	1804.55	-14.72	762545.28	464293.09	32°16'27.797"N	103°37'03.363"W	0.00	
12800.00†	89.310	359.533	11117.27	1904.61	1904.54	-15.54	762544.47	464393.07	32°16'28.786"N	103°37'03.364"W	0.00	
12900.00†	89.310	359.533	11118.47	2004.60	2004.53	-16.35	762543.65	464493.06	32°16'29.776"N	103°37'03.366"W	0.00	
13000.00†	89.310	359.533	11119.68	2104.59	2104.52	-17.17	762542.83	464593.04	32°16'30.765"N	103°37'03.368"W	0.00	
13100.00†	89.310	359.533	11120.88	2204.58	2204.51	-17.98	762542.02	464693.03	32°16'31.755"N	103°37'03.370"W	0.00	
13200.00†	89.310	359.533	11122.09	2304.58	2304.50	-18.80	762541.20	464793.02	32°16'32.744"N	103°37'03.371"W	0.00	
13300.00†	89.310	359.533	11123.29	2404.57	2404.49	-19.61	762540.39	464893.00	32°16'33.733"N	103°37'03.373"W	0.00	
13400.00†	89.310	359.533	11124.50	2504.56	2504.48	-20.43	762539.57	464992.99	32°16'34.723"N	103°37'03.375"W	0.00	
13500.00†	89.310	359.533	11125.70	2604.56	2604.47	-21.25	762538.75	465092.97	32°16'35.712"N	103°37'03.376"W	0.00	
13600.00†	89.310	359.533	11126.91	2704.55	2704.46	-22.06	762537.94	465192.96	32°16'36.702"N	103°37'03.378"W	0.00	
13700.00†	89.310	359.533	11128.11	2804.54	2804.45	-22.88	762537.12	465292.94	32°16'37.691"N	103°37'03.380"W	0.00	
13800.00†	89.310	359.533	11129.32	2904.53	2904.44	-23.69	762536.31	465392.93	32°16'38.681"N	103°37'03.382"W	0.00	
13900.00†	89.310	359.533	11130.52	3004.53	3004.43	-24.51	762535.49	465492.92	32°16'39.670"N	103°37'03.383"W	0.00	
14000.00†	89.310	359.533	11131.72	3104.52	3104.42	-25.33	762534.68	465592.90	32°16'40.660"N	103°37'03.385"W	0.00	
14100.00†	89.310	359.533	11132.93	3204.51	3204.41	-26.14	762533.86	465692.89	32°16'41.649"N	103°37'03.387"W	0.00	
14200.00†	89.310	359.533	11134.13	3304.50	3304.39	-26.96	762533.04	465792.87	32°16'42.638"N	103°37'03.389"W	0.00	
14300.00†	89.310	359.533	11135.34	3404.50	3404.38	-27.77	762532.23	465892.86	32°16'43.628"N	103°37'03.390"W	0.00	
14400.00†	89.310	359.533	11136.54	3504.49	3504.37	-28.59	762531.41	465992.84	32°16'44.617"N	103°37'03.392"W	0.00	
14500.00†	89.310	359.533	11137.75	3604.48	3604.36	-29.40	762530.60	466092.83	32°16'45.607"N	103°37'03.394"W	0.00	
14600.00†	89.310	359.533	11138.95	3704.48	3704.35	-30.22	762529.78	466192.82	32°16'46.596"N	103°37'03.396"W	0.00	
14700.00†	89.310	359.533	11140.16	3804.47	3804.34	-31.04	762528.97	466292.80	32°16'47.586"N	103°37'03.397"W	0.00	
14800.00†	89.310	359.533	11141.36	3904.46	3904.33	-31.85	762528.15	466392.79	32°16'48.575"N	103°37'03.399"W	0.00	
14900.00†	89.310	359.533	11142.57	4004.45	4004.32	-32.67	762527.33	466492.77	32°16'49.564"N	103°37'03.401"W	0.00	
15000.00†	89.310	359.533	11143.77	4104.45	4104.31	-33.48	762526.52	466592.76	32°16'50.554"N	103°37'03.402"W	0.00	
15100.00†	89.310	359.533	11144.98	4204.44	4204.30	-34.30	762525.70	466692.74	32°16'51.543"N	103°37'03.404"W	0.00	
15200.00†	89.310	359.533	11146.18	4304.43	4304.29	-35.12	762524.89	466792.73	32°16'52.533"N	103°37'03.406"W	0.00	
15300.00†	89.310	359.533	11147.39	4404.43	4404.28	-35.93	762524.07	466892.72	32°16'53.522"N	103°37'03.408"W	0.00	
15400.00†	89.310	359.533	11148.59	4504.42	4504.27	-36.75	762523.25	466992.70	32°16'54.512"N	103°37'03.409"W	0.00	
15500.00†	89.310	359.533	11149.80	4604.41	4604.26	-37.56	762522.44	467092.69	32°16'55.501"N	103°37'03.411"W	0.00	
15517.01	89.310	359.533	11150.00†	4621.42	4621.27	-37.70	762522.30	467109.70	32°16'55.669"N	103°37'03.411"W	0.00	No. 1H PBHL



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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	No. 1H SHL
Area	Lea County, New Mexico	Well	No. 1H
Field	(Triste Draw) Sec 30, T23S, R33E	Wellbore	No. 1H PWB
Facility	Triste Draw 30 Federal No. 1H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) Triste Draw 30 Federal No. 1H PBHL (Rev-0)	15517.01	11150.00	4621.27	-37.70	762522.30	467109.70	32°16'55.669"N	103°37'03.411"W	point

SURVEY PROGRAM - Ref Wellbore: No. 1H PWB Ref Wellpath: Rev-A.0

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	15517.01	NaviTrak (Standard)		No. 1H PWB

SR & A

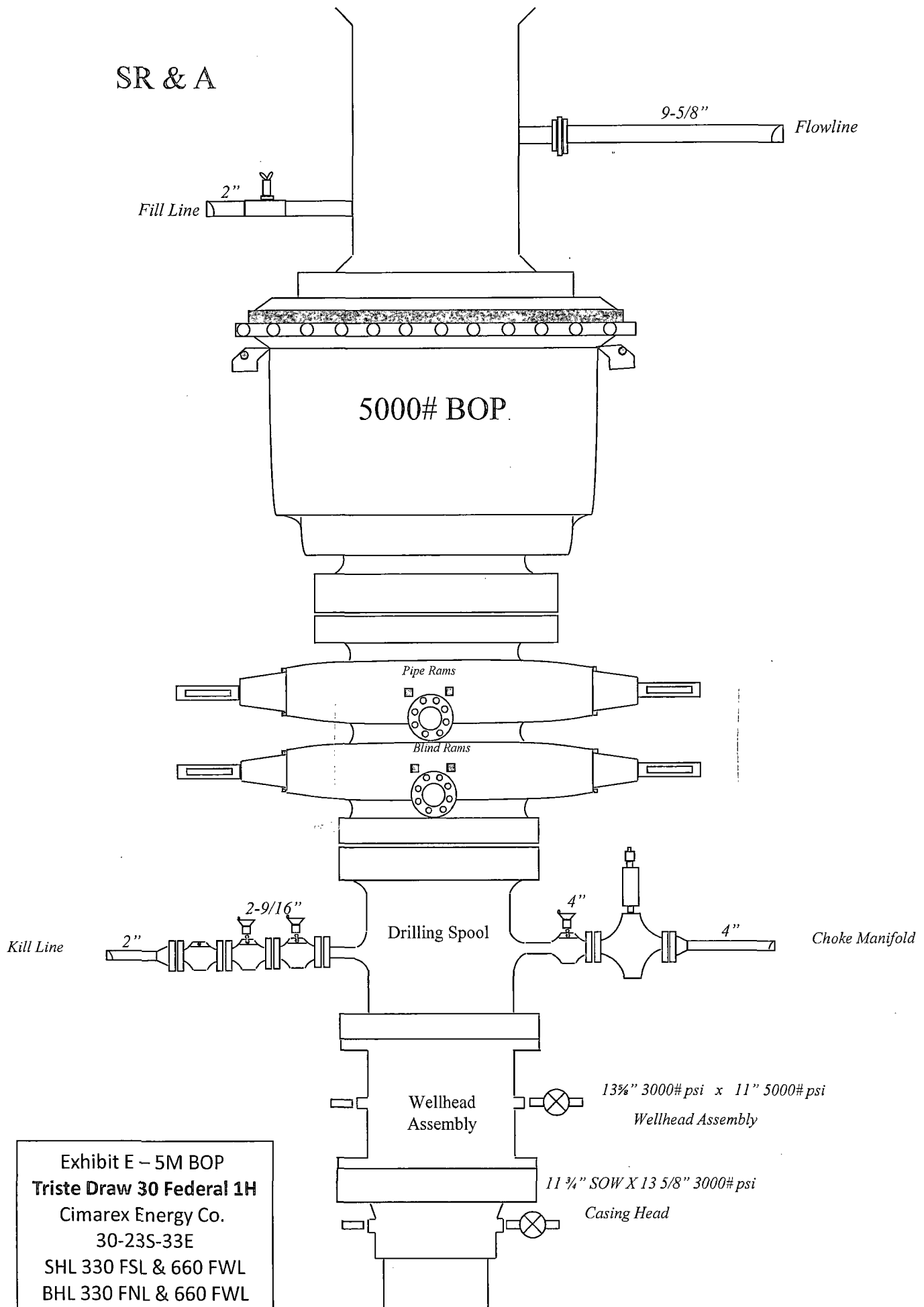
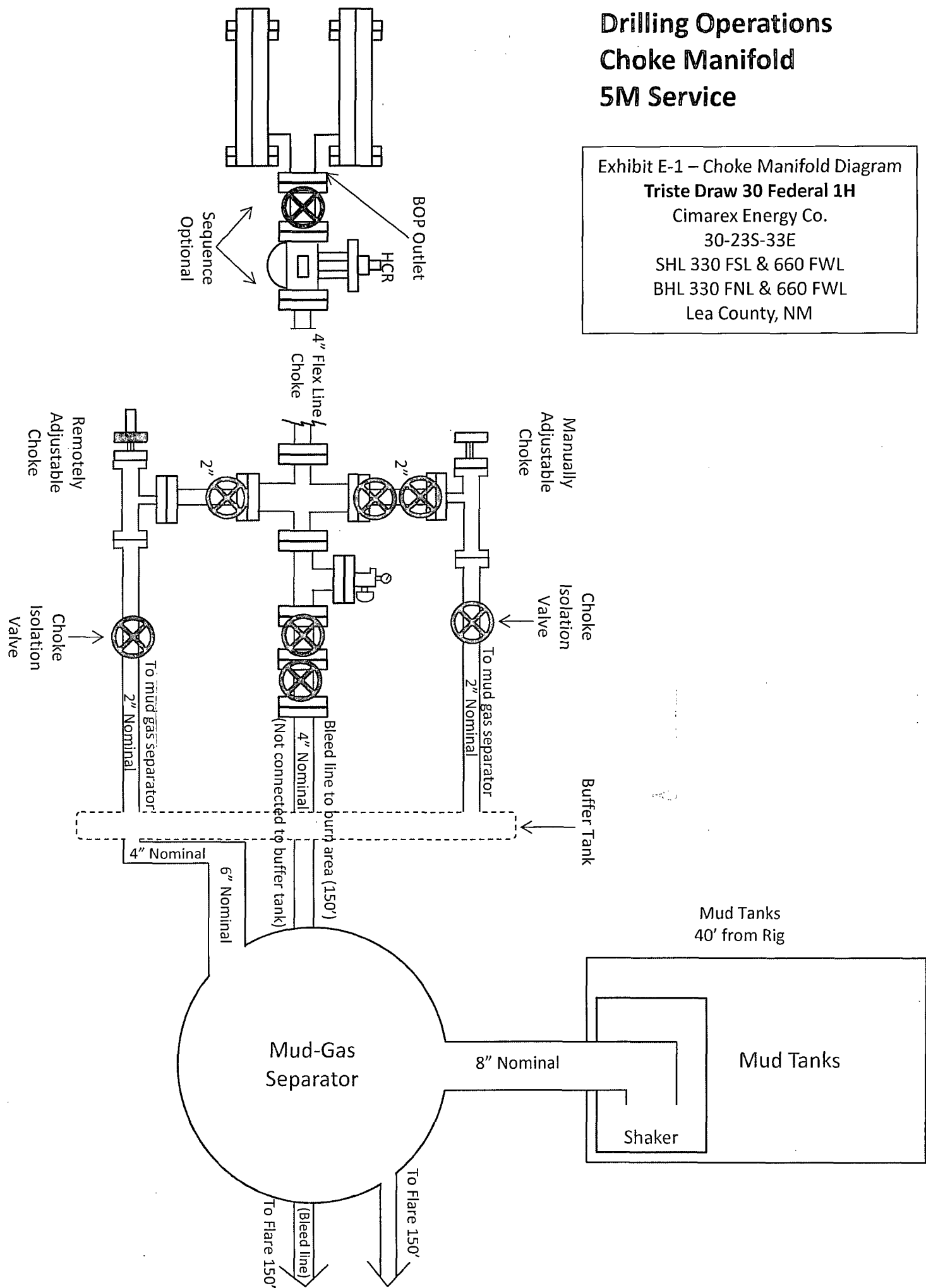
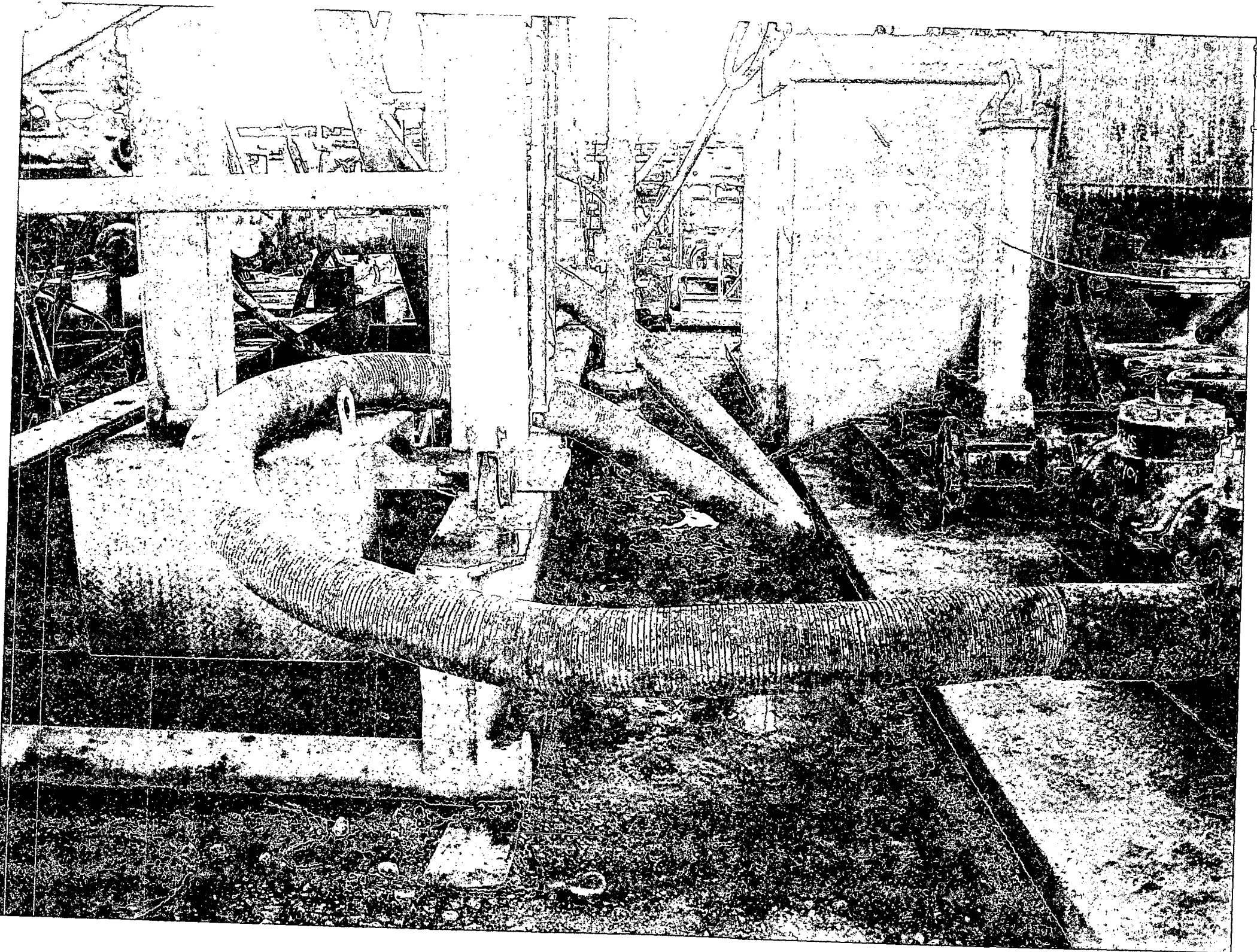


Exhibit E – 5M BOP
Triste Draw 30 Federal 1H
Cimarex Energy Co.
30-23S-33E
SHL 330 FSL & 660 FWL
BHL 330 FNL & 660 FWL
Lea County, NM

Drilling Operations
Choke Manifold
5M Service

Exhibit E-1 – Choke Manifold Diagram
Triste Draw 30 Federal 1H
Cimarex Energy Co.
30-23S-33E
SHL 330 FSL & 660 FWL
BHL 330 FNL & 660 FWL
Lea County, NM







Midwest Hose
& Specialty, Inc.

INTERNAL HYDROSTATIC TEST REPORT

Customer:		P.O. Number:	
Oderco Inc		odyd-271	
HOSE SPECIFICATIONS			
Type: Stainless Steel Armor Choke & Kill Hose		Hose Length: 45'ft.	
I.D. 4 INCHES		O.D. 9 INCHES	
WORKING PRESSURE	TEST PRESSURE	BURST PRESSURE	
10,000 PSI	15,000 PSI	0 PSI	
COUPLINGS			
Stem Part No. 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		ACTUAL BURST PRESSURE:	
15 MIN.		0 PSI	
Hose Assembly Serial Number: 79793		Hose Serial Number: OKC	
Comments:			
Date:	Tested:	Approved:	
3/8/2011	<i>Ch. Joins Jones</i>	<i>Kevin [Signature]</i>	



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& Specialty, Inc.

Internal Hydrostatic Test Graph

March 3, 2011

Customer: Houston

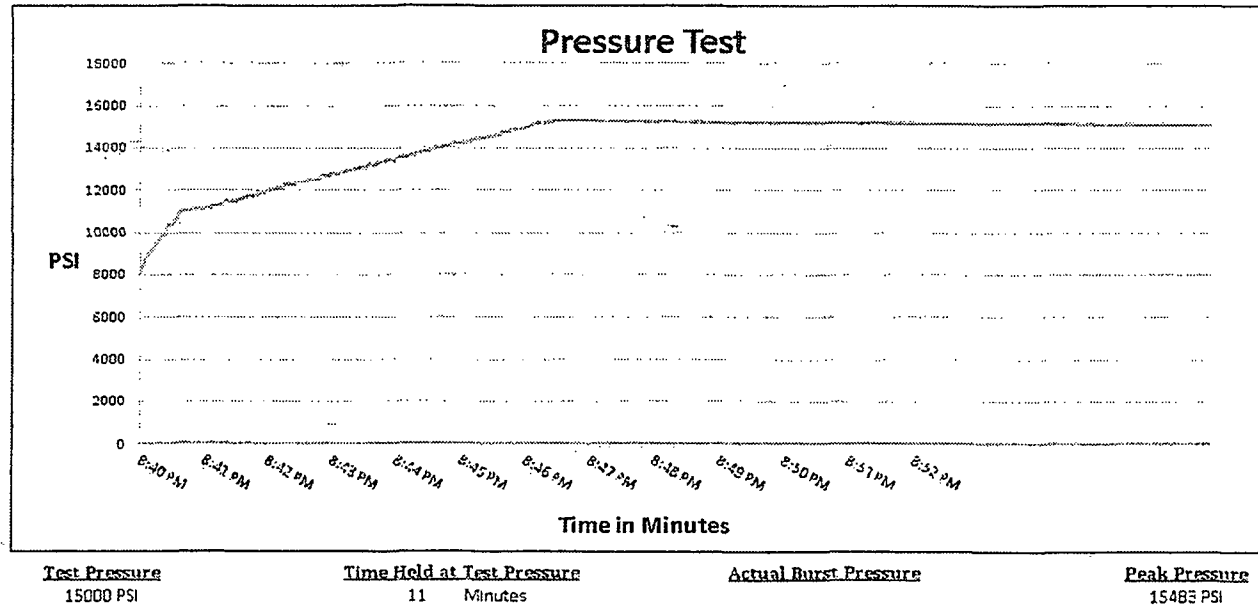
Pick Ticket #: 94260

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>
4 1/16 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

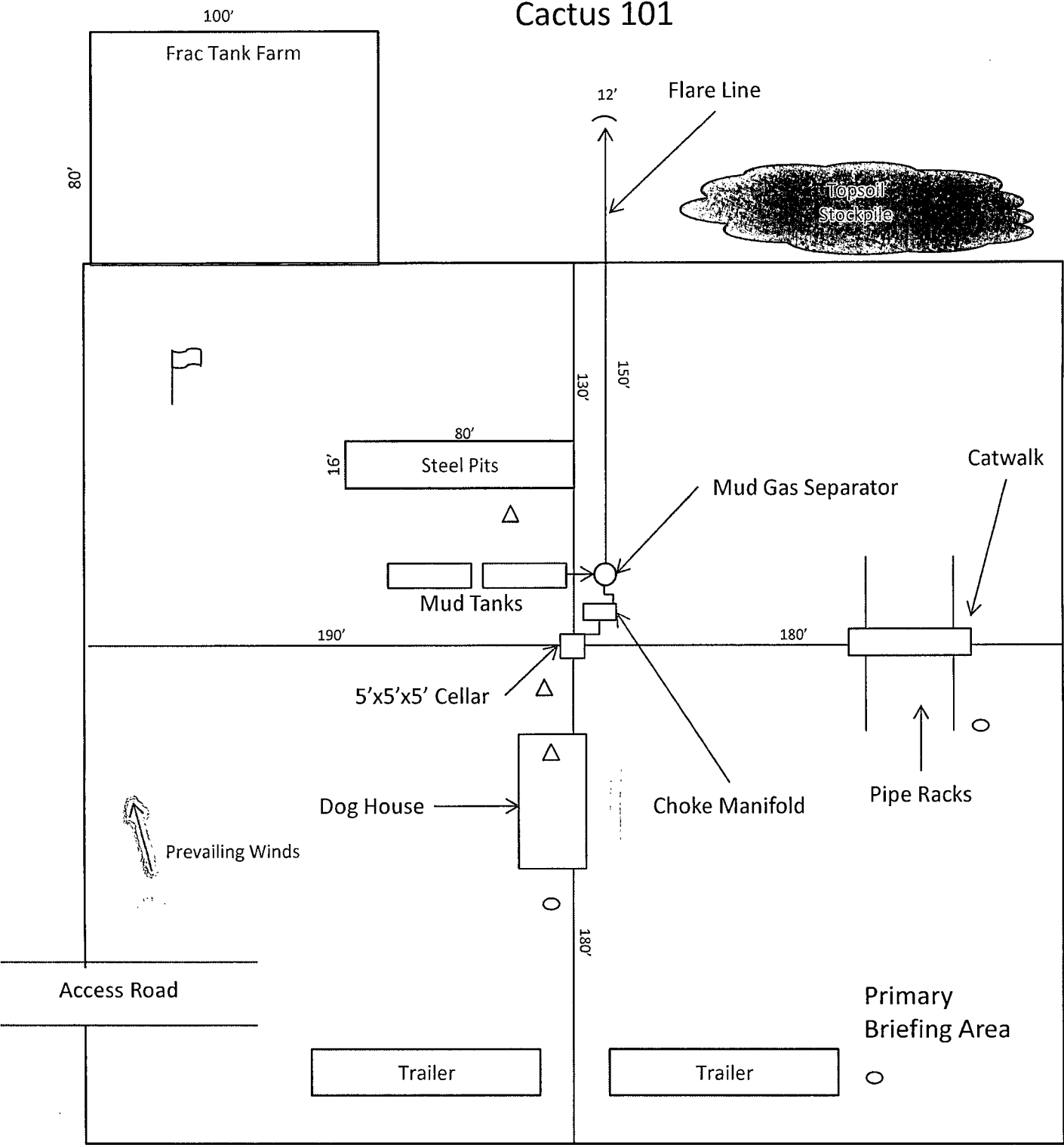


Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: Zac McConnell

Approved By: Kim Thomas

Cactus 101



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



Exhibit D – Rig Diagram
Triste Draw 30 Federal 1H
Cimarex Energy Co.
30-23S-33E
SHL 330 FSL & 660 FWL
BHL 330 FNL & 660 FWL
Lea County, NM