

ATS-10-570

OCD-HOBBS

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Form 3160-3
(April 2004)

OCT 29 2010
HOBBSOCD

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

UNITED 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. SHL NM-025497, BHL NM-063530	
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. 38371 East Lusk 15 Federal Com No. 1 H	
3b. Phone No. (include area code) 432-571-7800		9. API Well No. 30-045-025-40134	
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At Surface Unit P 660 FSL & 660 FEL At Bottom Hole Unit M 660 FSL & 660 FWL At proposed prod. Zone 660'S & 660'W per New Plat Recd. 8/19/10 CR 661 FSL & 851 FEL Horizontal Bone Spring test		10. Field and Pool, or Exploratory Lusk; Bone Spring, E 41442	
11. Sec., T. R. M. or Blk. and Survey or Area 15-19S-32E		12. County or Parish Lea	
13. State NM		14. Distance in miles and direction from nearest town or post office*	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line if any) 660'	16. No of acres in lease NM-025497 - 920 acres NM-063530 - 440 acres	17. Spacing Unit dedicated to this well S2S2 160	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. N/A	19. Proposed Depth per Plan Pilot Hole 10100' MD 13882' TVD 9987'	20. BLM/BIA Bond No. on File NM-2575	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3615' GR	22. Approximate date work will start* 10.15.10	23. Estimated duration 25-30 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 Zeno Farris	Name (Printed/Typed) Zeno Farris	Date 08.11.10
Title Manager Operations Administration		
Approved By (Signature) /s/ Don Peterson	Name (Printed/Typed)	Date OCT 26 2010
Title 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.

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)

APPROVAL FOR TWO YEARS

Capitan Controlled Water Basin

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Approval Subject to General Requirements
& Special Stipulations Attached

MAY 18 2011

Application to Drill
East Lusk 15 Federal Com No. 1
 Cimarex Energy Co. of Colorado
 Unit P, Section 15
 T19S-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 660 FSL & 660 FEL
 BHL ~~661 FSL & 851 FEL~~ *660's & 660' W per new plat of 8/18/10 - CR*

2 Elevation above sea level: 3615' 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: Pilot Hole 10200' MD 13882' TVD 9987'

6 Estimated tops of geological markers:

Rustler	1200'	Bone Spring	7850'
Yates	3020'	Wolfcamp	11100'
Capitan	3650'	Strawn	12110'
Delaware	5180'	Morrow	12820'

7 Possible mineral bearing formation:

Bone Spring	Oil
Delaware	Oil
Yates/7 Rivers	Oil

8 Proposed Mud Circulating System:

Depth	Mud Wt	Visc	Fluid Loss	Type Mud
0' to ^{1185'} 575'	8.4 - 8.6	28	NC	FW
^{1185'} 575' to 5200'	10.0	30-32	NC	Brine water
5200' to 13882'	8.4 - 9.5	30-32	NC	FW, 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.

Proposed drilling Plan

Drill 8 3/4" pilot hole to 10100' and log. Set 250 sx Class H cmt plug from 9550-10100.' Kick off 8 3/4" lateral @ 9800' and drill to TD @ 13882.' Run 5 1/2" 17# P-110 LTC from 0-13882.'

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 Unit P, Section 15
 T19S-R32E, Lea County, NM

9 Casing & Cementing Program:

See COA

String	Hole Size	Depth	Casing OD	Weight	Collar	Grade
Surface	17½"	0' to 1185'	New 13¾"	48#	STC	H-40
Intermediate	12¼"	0' to 5200'	New 9¾"	40#	LTC	H-40
Production	8¾"	0' to 13882'	New 5½"	17#	LTC	P-110

*N-80 - Per Operator
 is 22-10 DW*

10 Cementing:

Surface 650 sx Premium Plus + 2% CaCl₂ (wt 14.8, yld 1.35)
TOC Surface

*See
 COA*

Intermediate Lead: 415 sx Econocem + 3% Salt + 2% CaCl₂ + 3 lbm/sk Gilsonite (wt 11.7, yld 2.06)
Tail: 650 sks Premium Plus + 1% CaCl₂ (wt 14.8, yld 1.34)
TOC Surface

Production Lead: 500 sx EconoCem + 5# Gilsonite (wt 11.9, yld 2.48)
Tail: 1730 sx Halcem (wt 15.6, yld 1.19)
TOC 5000'

Fresh water zones will be protected by setting 13¾" casing at 575' and cementing to surface. Hydrocarbon zones will be protected by setting 9¾" casing at 5200' and cementing to surface, and by setting 5½" casing at 13882' and cementing to 5000'.

<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 13¾" 5000 PSI working pressure BOP tested to 3000 psi 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. From the base of the 20" surface pipe, the well will be equipped with a 2M diverter system with rotating head (see exhibit E-1). From the base of the 13¾" casing through the running of production casing, the well will be equipped with a 5000 psi BOP system tested to 3000 psi.

BOPS will be tested by an independent service company to 250 psi low and 3000 psi high. Hydril will be tested to 250 psi low and 1500 psi high.

Cimarex Energy Co. of Colorado (operator) requests a variance if Cactus 101 (rig name) is used to drill this well to use a co-flex line between the BOP and choke manifold.

Manufacturer: Midwest Hose & Specialty

Serial Number: 63270

Length: 35' Size: 4-1/16" Ends flanges/clamps

WP rating: 10,000 psi Anchors required by manufacturer – Yes/No

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Unit P, Section 15
T19S-R32E, Lea County, NM

- 12 Testing, Logging and Coring Program: *See COA*
- A. Mud logging program: 2 man unit from 5200' to TD
 - B. Electric logging program: CNL / LDT / CAL / GR, DLL / CAL / GR
 - C. No DSTs or cores are planned at this time.

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 **3000 psi** Estimated BHT **130°**

- 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.**



Cimarex Energy Co.

Location: Lea County, NM
Field: (East 15) Sec 15, T19S, R32E
Facility: East Lusk 15 Fed Com No. 1H

Slot: No. 1H SHL
Well: No. 1H
Wellbore: No. 1H PWB



Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	0.00	0.000	269.720	0.00	0.00	0.00	0.00	0.00
EST. KOP	9800.00	0.000	269.720	9800.00	0.00	0.00	0.00	0.00
END OF CURVE	10100.20	90.060	269.720	9990.99	-0.93	-191.18	30.00	191.19
No. 1H PWB	13881.97	90.060	269.720	9987.00	-19.38	-3972.91	0.00	3972.96

Plot reference wellpath is Prelim_2

True vertical depths are referenced to Rig on No. 1H SHL (GL)

Grid System: NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet

Measured depths are referenced to Rig on No. 1H SHL (GL)

North Reference: Grid north

Rig on No. 1H SHL (GL) to Mean Sea Level: 3615 feet

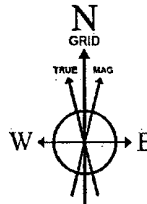
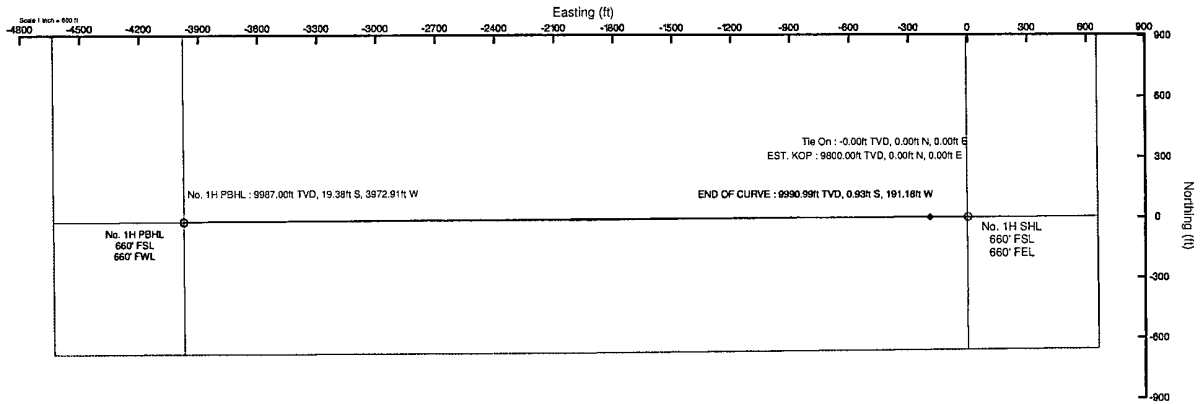
Scale: True distance

Mean Sea Level to Mud line (Facility: East Lusk 15 Fed Com No. 1H): -3615 feet

Depths are in feet

Coordinates are in feet referenced to SL

Created by: Victor Hernandez on 8/11/2010

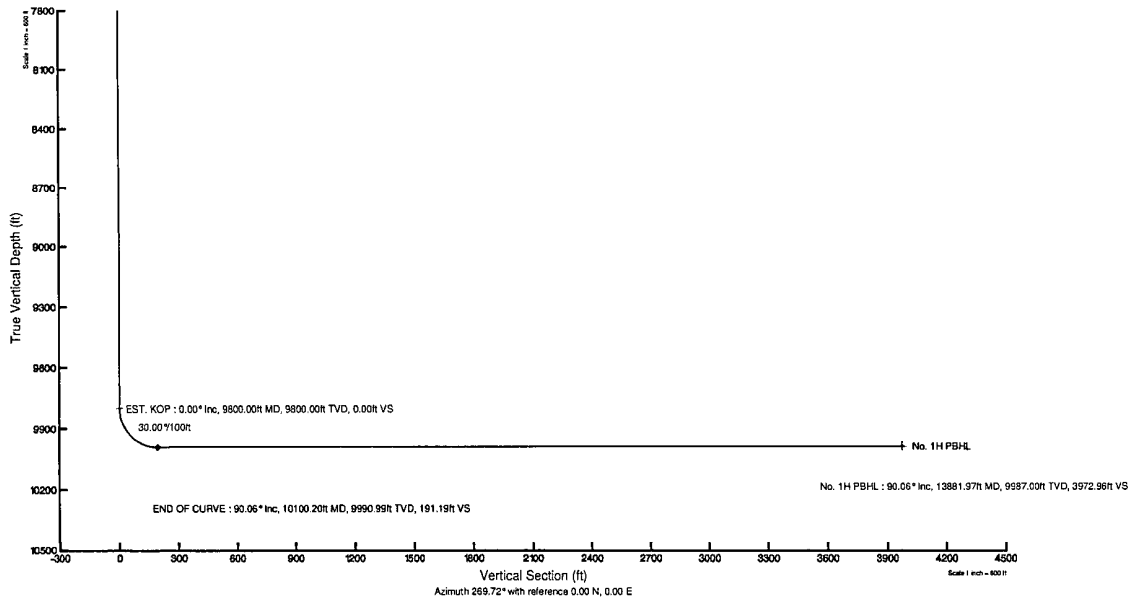


BGGM (1945.0 to 2011.0) Dip: 60.59° Field: 49008.9 nT
Magnetic North is 7.84 degrees East of True North (at 8/10/2010)
Grid North is 0.32 degrees East of True North

To correct azimuth from True to Grid subtract 0.32 degrees

To correct azimuth from Magnetic to Grid add 7.52 degrees

For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.52 = 97.52





Planned Wellpath Report

Prelim_2

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(East 15) Sec 15, T19S, R32E	Wellbore	No. 1H PWB
Facility	East Lusk 15 Fed Com No. 1H		

REPORT SETUP INFORMATION			
Projection System	NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Victor Hernandez
Scale	0.999946	Report Generated	8/11/2010 at 11:58:21 AM
Convergence at slot	0.32° East	Database/Source file	WA_Midland/No. 1H_PWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	721609.60	602497.70	32°39'17.807"N	103°44'51.325"W
Facility Reference Pt			721609.60	602497.70	32°39'17.807"N	103°44'51.325"W
Field Reference Pt			721939.70	602500.30	32°39'17.815"N	103°44'47.464"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No. 1H SHL (GL) to GL	0.00ft
Horizontal Reference Pt	SL	Rig on No. 1H SHL (GL) to Mean Sea Level	3615.00ft
Vertical Reference Pt	Rig on No. 1H SHL (GL)	GL to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 1H SHL (GL)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	269.72°



Planned Wellpath Report

Prelim 2
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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(East 15) Sec 15, T19S, R32E	Wellbore	No. 1H PWB
Facility	East Lusk 15 Fed Com No. 1H		

WELLPATH DATA (44 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00	0.000	269.720	0.00	0.00	0.00	0.00	721609.60	602497.70	32°39'17.807"N	103°44'51.325"W	0.00	Tie On
9800.00	0.000	269.720	9800.00	0.00	0.00	0.00	721609.60	602497.70	32°39'17.807"N	103°44'51.325"W	0.00	EST. KOP
9900.00†	30.000	269.720	9895.49	25.59	-0.12	-25.59	721584.01	602497.58	32°39'17.807"N	103°44'51.625"W	30.00	
10000.00†	60.000	269.720	9965.40	95.49	-0.47	-95.49	721514.11	602497.23	32°39'17.808"N	103°44'52.442"W	30.00	
10100.00†	90.000	269.720	9990.99	190.99	-0.93	-190.98	721418.63	602496.77	32°39'17.808"N	103°44'53.559"W	30.00	
10100.20	90.060	269.720	9990.99	191.19	-0.93	-191.18	721418.43	602496.77	32°39'17.808"N	103°44'53.562"W	30.00	END OF CURVE
10200.00†	90.060	269.720	9990.88	290.99	-1.42	-290.98	721318.63	602496.28	32°39'17.809"N	103°44'54.729"W	0.00	
10300.00†	90.060	269.720	9990.78	390.99	-1.91	-390.98	721218.64	602495.79	32°39'17.810"N	103°44'55.898"W	0.00	
10400.00†	90.060	269.720	9990.67	490.99	-2.40	-490.98	721118.65	602495.30	32°39'17.810"N	103°44'57.068"W	0.00	
10500.00†	90.060	269.720	9990.56	590.99	-2.88	-590.98	721018.65	602494.82	32°39'17.811"N	103°44'58.238"W	0.00	
10600.00†	90.060	269.720	9990.46	690.99	-3.37	-690.98	720918.66	602494.33	32°39'17.811"N	103°44'59.407"W	0.00	
10700.00†	90.060	269.720	9990.35	790.99	-3.86	-790.98	720818.67	602493.84	32°39'17.812"N	103°45'00.577"W	0.00	
10800.00†	90.060	269.720	9990.25	890.99	-4.35	-890.97	720718.67	602493.35	32°39'17.813"N	103°45'01.747"W	0.00	
10900.00†	90.060	269.720	9990.14	990.99	-4.83	-990.97	720618.68	602492.87	32°39'17.813"N	103°45'02.916"W	0.00	
11000.00†	90.060	269.720	9990.04	1090.99	-5.32	-1090.97	720518.69	602492.38	32°39'17.814"N	103°45'04.086"W	0.00	
11100.00†	90.060	269.720	9989.93	1190.99	-5.81	-1190.97	720418.70	602491.89	32°39'17.814"N	103°45'05.255"W	0.00	
11200.00†	90.060	269.720	9989.83	1290.99	-6.30	-1290.97	720318.70	602491.40	32°39'17.815"N	103°45'06.425"W	0.00	
11300.00†	90.060	269.720	9989.72	1390.99	-6.79	-1390.97	720218.71	602490.91	32°39'17.816"N	103°45'07.595"W	0.00	
11400.00†	90.060	269.720	9989.62	1490.99	-7.27	-1490.97	720118.72	602490.43	32°39'17.816"N	103°45'08.764"W	0.00	
11500.00†	90.060	269.720	9989.51	1590.99	-7.76	-1590.97	720018.72	602489.94	32°39'17.817"N	103°45'09.934"W	0.00	
11600.00†	90.060	269.720	9989.41	1690.99	-8.25	-1690.96	719918.73	602489.45	32°39'17.817"N	103°45'11.103"W	0.00	
11700.00†	90.060	269.720	9989.30	1790.99	-8.74	-1790.96	719818.74	602488.96	32°39'17.818"N	103°45'12.273"W	0.00	
11800.00†	90.060	269.720	9989.19	1890.98	-9.22	-1890.96	719718.75	602488.48	32°39'17.818"N	103°45'13.443"W	0.00	
11900.00†	90.060	269.720	9989.09	1990.98	-9.71	-1990.96	719618.75	602487.99	32°39'17.819"N	103°45'14.612"W	0.00	
12000.00†	90.060	269.720	9988.98	2090.98	-10.20	-2090.96	719518.76	602487.50	32°39'17.820"N	103°45'15.782"W	0.00	
12100.00†	90.060	269.720	9988.88	2190.98	-10.69	-2190.96	719418.76	602487.01	32°39'17.820"N	103°45'16.952"W	0.00	
12200.00†	90.060	269.720	9988.77	2290.98	-11.18	-2290.96	719318.77	602486.52	32°39'17.821"N	103°45'18.121"W	0.00	
12300.00†	90.060	269.720	9988.67	2390.98	-11.66	-2390.96	719218.78	602486.04	32°39'17.821"N	103°45'19.291"W	0.00	
12400.00†	90.060	269.720	9988.56	2490.98	-12.15	-2490.96	719118.78	602485.55	32°39'17.822"N	103°45'20.460"W	0.00	
12500.00†	90.060	269.720	9988.46	2590.98	-12.64	-2590.95	719018.79	602485.06	32°39'17.822"N	103°45'21.630"W	0.00	



Planned Wellpath Report

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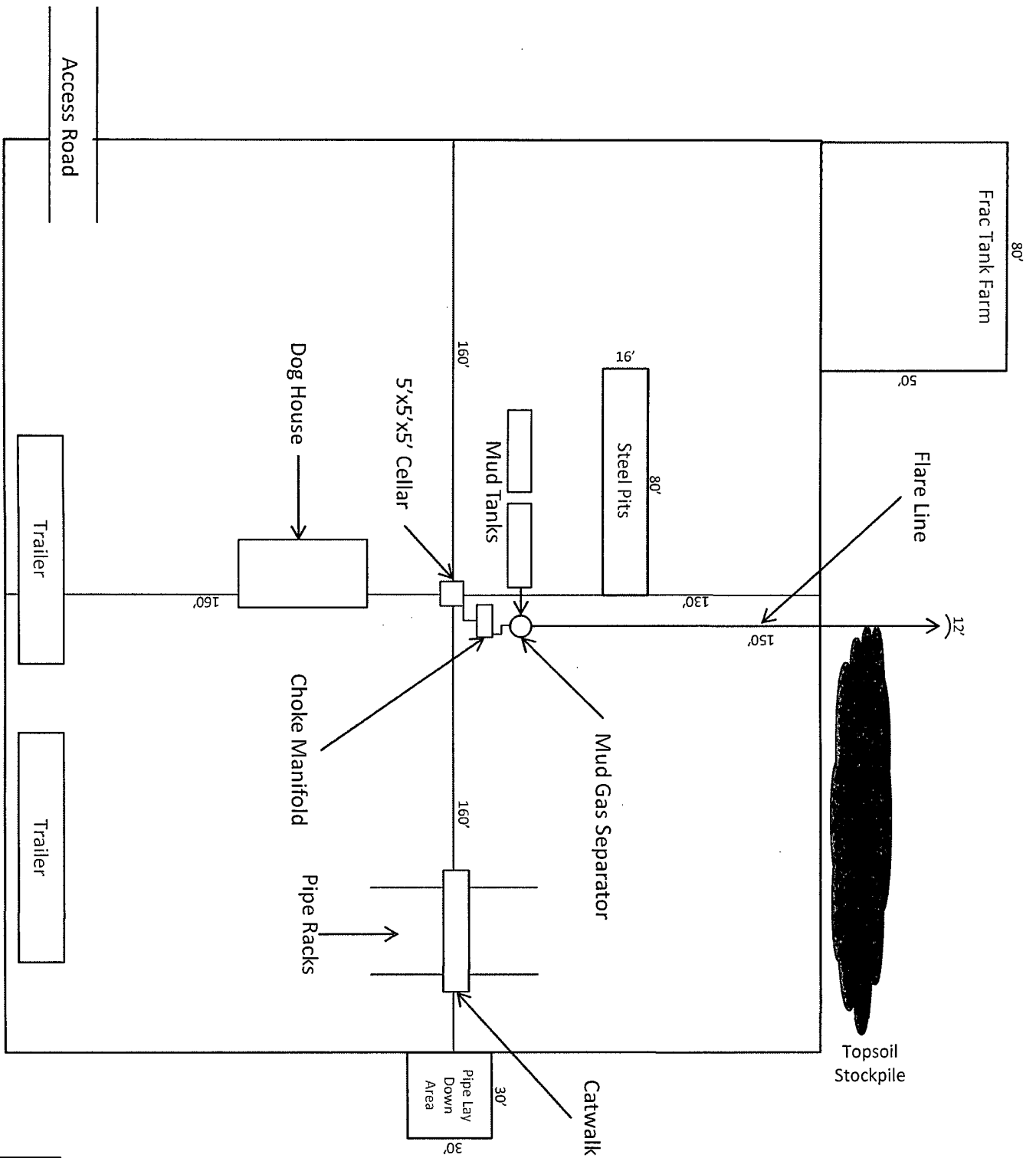


REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(East 15) Sec 15, T19S, R32E	Wellbore	No. 1H PWB
Facility	East Lusk 15 Fed Com No. 1H		

WELLPATH DATA (44 stations) † = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12600.00†	90.060	269.720	9988.35	2690.98	-13.13	-2690.95	718918.80	602484.57	32°39'17.823"N	103°45'22.800"W	0.00	
12700.00†	90.060	269.720	9988.25	2790.98	-13.62	-2790.95	718818.80	602484.09	32°39'17.824"N	103°45'23.969"W	0.00	
12800.00†	90.060	269.720	9988.14	2890.98	-14.10	-2890.95	718718.81	602483.60	32°39'17.824"N	103°45'25.139"W	0.00	
12900.00†	90.060	269.720	9988.03	2990.98	-14.59	-2990.95	718618.82	602483.11	32°39'17.825"N	103°45'26.309"W	0.00	
13000.00†	90.060	269.720	9987.93	3090.98	-15.08	-3090.95	718518.82	602482.62	32°39'17.825"N	103°45'27.478"W	0.00	
13100.00†	90.060	269.720	9987.82	3190.98	-15.57	-3190.95	718418.83	602482.13	32°39'17.826"N	103°45'28.648"W	0.00	
13200.00†	90.060	269.720	9987.72	3290.98	-16.05	-3290.95	718318.84	602481.65	32°39'17.826"N	103°45'29.817"W	0.00	
13300.00†	90.060	269.720	9987.61	3390.98	-16.54	-3390.94	718218.85	602481.16	32°39'17.827"N	103°45'30.987"W	0.00	
13400.00†	90.060	269.720	9987.51	3490.98	-17.03	-3490.94	718118.85	602480.67	32°39'17.827"N	103°45'32.157"W	0.00	
13500.00†	90.060	269.720	9987.40	3590.98	-17.52	-3590.94	718018.86	602480.18	32°39'17.828"N	103°45'33.326"W	0.00	
13600.00†	90.060	269.720	9987.30	3690.98	-18.01	-3690.94	717918.87	602479.70	32°39'17.828"N	103°45'34.496"W	0.00	
13700.00†	90.060	269.720	9987.19	3790.98	-18.49	-3790.94	717818.87	602479.21	32°39'17.829"N	103°45'35.665"W	0.00	
13800.00†	90.060	269.720	9987.09	3890.98	-18.98	-3890.94	717718.88	602478.72	32°39'17.829"N	103°45'36.835"W	0.00	
13881.97	90.060	269.720	9987.00†	3972.96	-19.38	-3972.91	717636.91	602478.32	32°39'17.830"N	103°45'37.794"W	0.00	No. 1H PBHL

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 1H PBHL	13881.97	9987.00	-19.38	-3972.91	717636.91	602478.32	32°39'17.830"N	103°45'37.794"W	point

SURVEY PROGRAM Ref Wellbore: No. 1H PWB Ref Wellpath: Prelim_2				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	13881.97	NaviTrak (Standard)		No. 1H PWB



1"=50'



Exhibit D – Rig Diagram
East Lusk 15 Federal Com No. 1
 Cimarex Energy Co. of Colorado
 15-19S-32E
 SHL 660 FSL & 660 FEL
 BHL 660 FSL & 660 FWL
 Lea County, NM

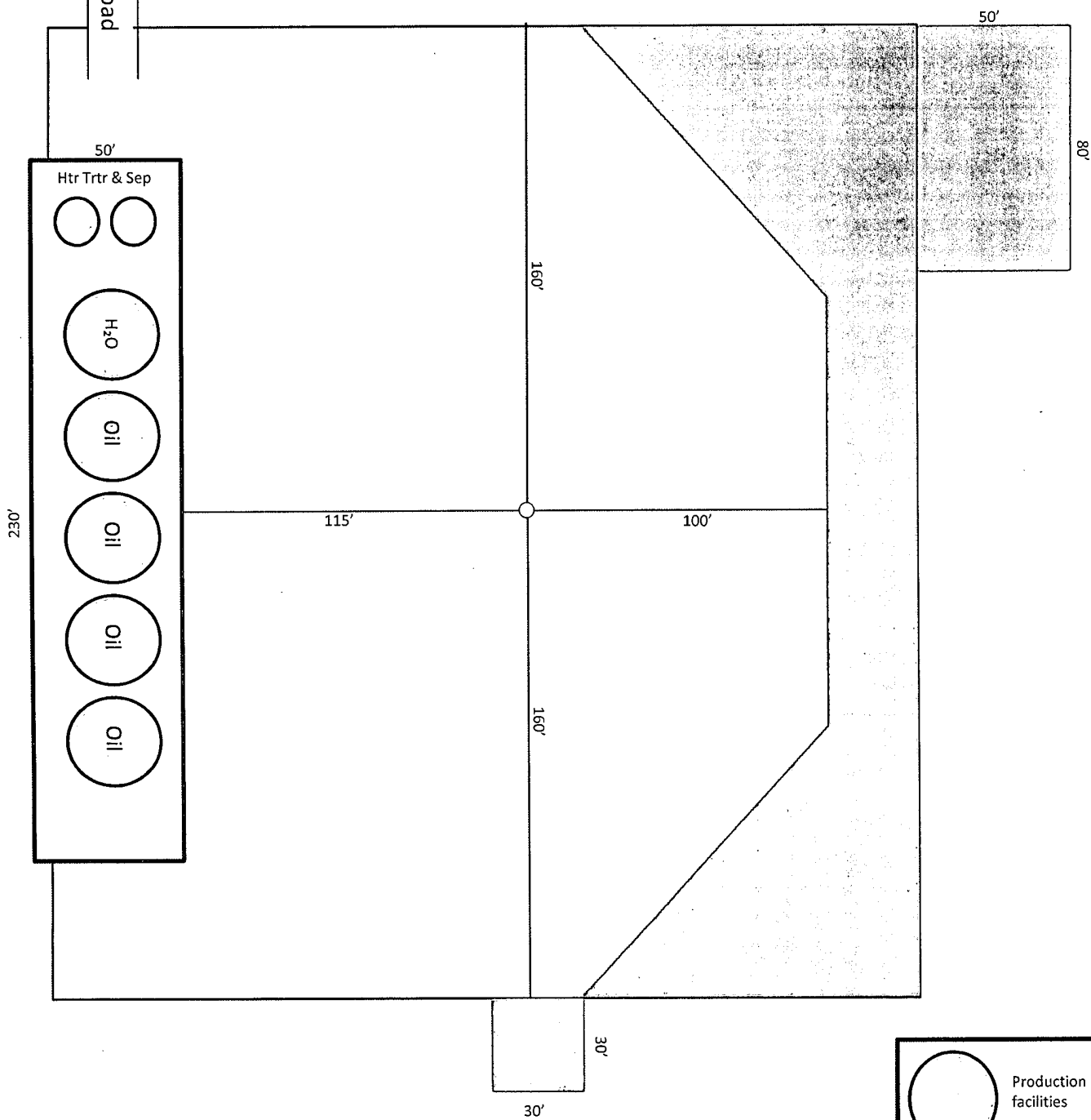
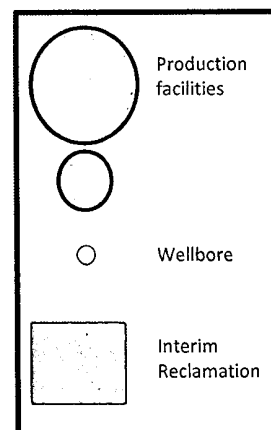


Exhibit D-1
 Production Facilities Layout Diagram
East Lusk 15 Federal Com No. 1
 Cimarex Energy Co. of Colorado
 15-19S-32E
 SHL 660 FSL & 660 FEL
 BHL 660 FSL & 660 FWL
 Lea County, NM



1"=50'

SR & A

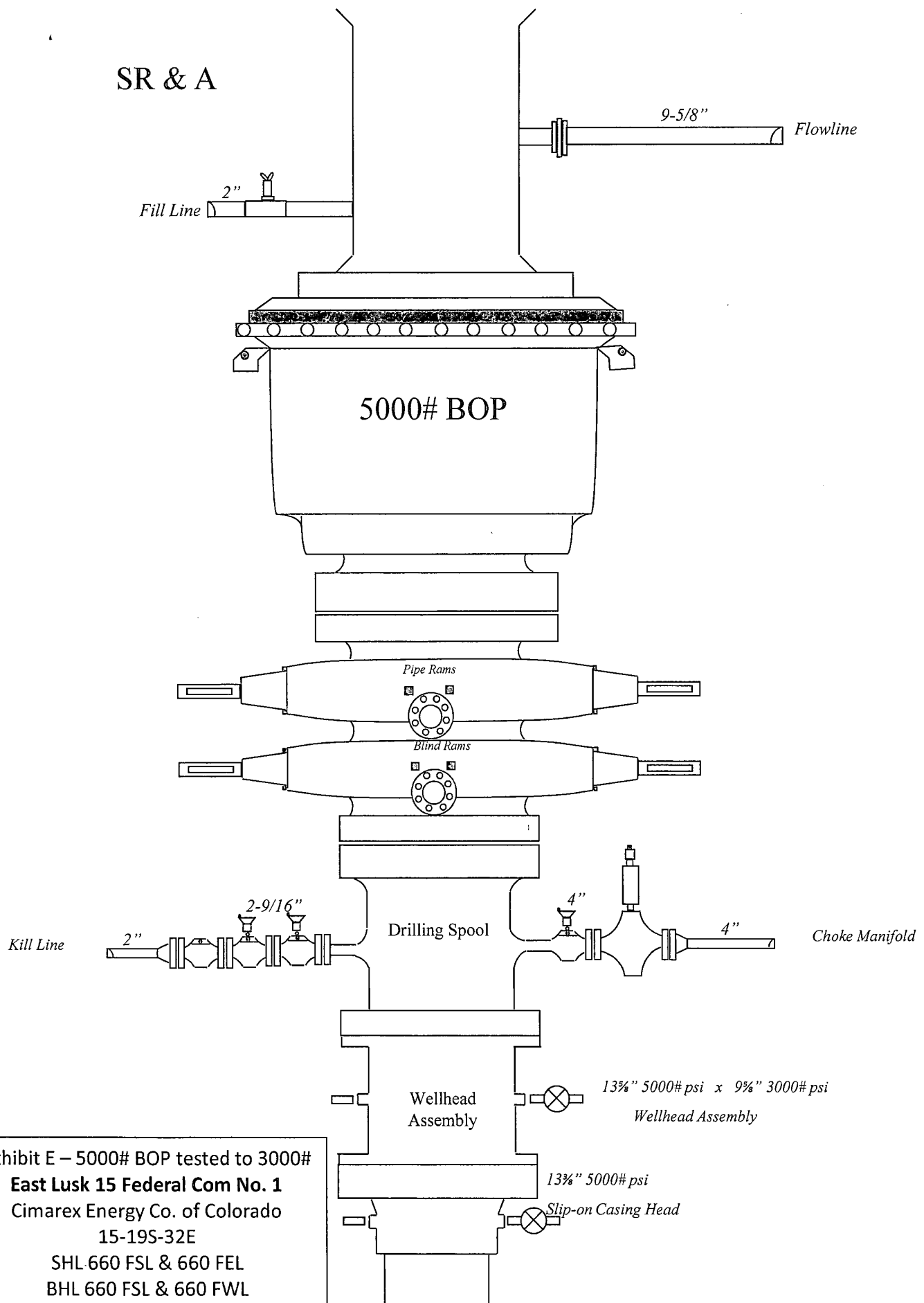
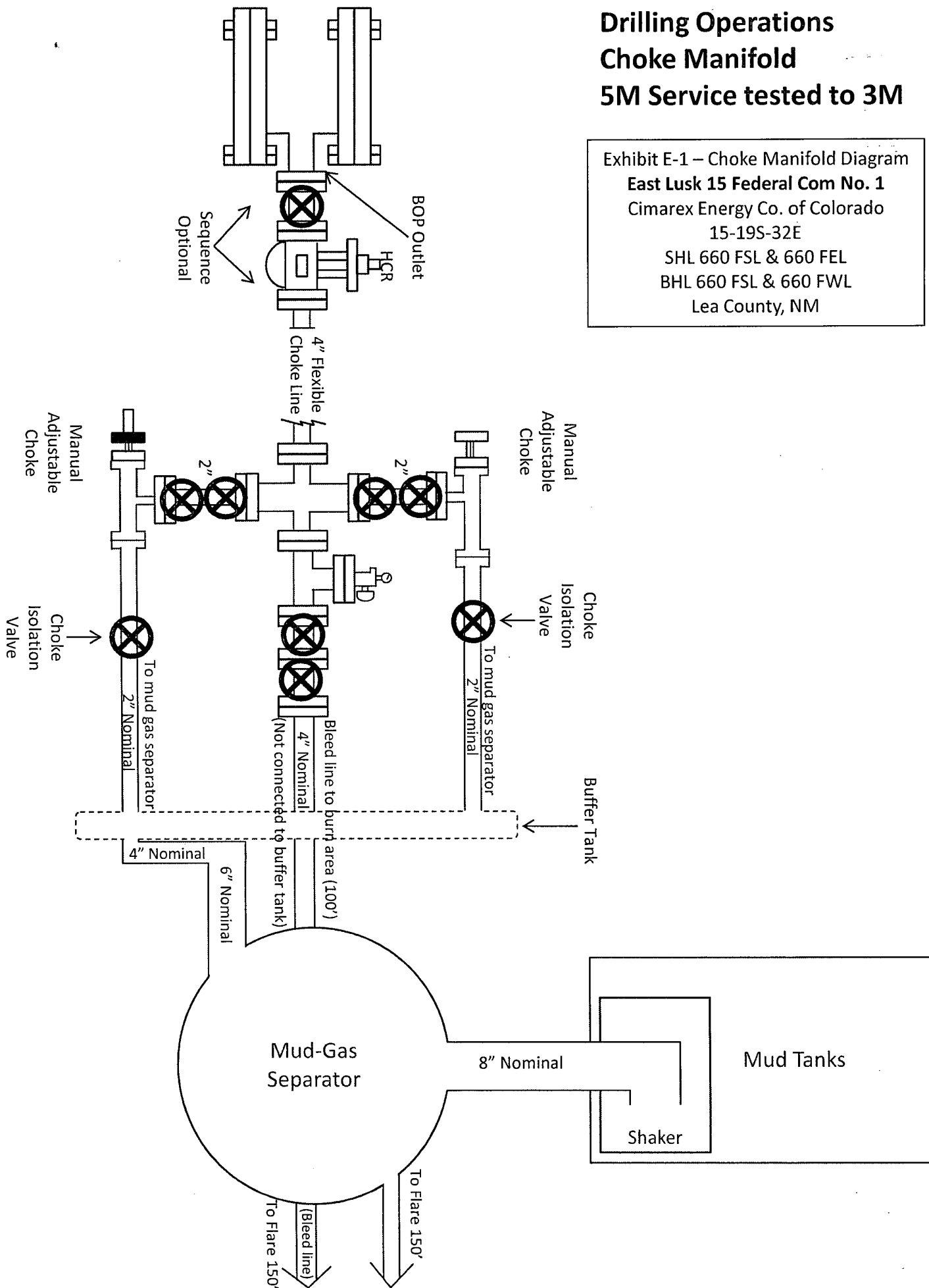


Exhibit E – 5000# BOP tested to 3000#
East Lusk 15 Federal Com No. 1
Cimarex Energy Co. of Colorado
15-19S-32E
SHL 660 FSL & 660 FEL
BHL 660 FSL & 660 FWL
Lea County, NM

Drilling Operations
Choke Manifold
5M Service tested to 3M

Exhibit E-1 – Choke Manifold Diagram
East Lusk 15 Federal Com No. 1
Cimarex Energy Co. of Colorado
15-19S-32E
SHL 660 FSL & 660 FEL
BHL 660 FSL & 660 FWL
Lea County, NM





Midwest Hose
& Specialty Inc.

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)