

ATS-12-472

HOBBS OCD

SECRETARY'S POTASH AND HOBBS

AUG 09 2012

Form 3160-3
(April 2004)

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Split Estate

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work. ☒ DRILL ☐ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator

Cimarex Energy Co.

3a. Address

600 N. Marienfeld St. Ste. 600 Midland Tx 79701

3b. Phone No. (include area code)

432-571-7800

4. Location of Well (Report location clearly and in accordance with any State requirements. *)

At Surface 1650 FSL & 330 FEL

At proposed prod. Zone 1980 FSL & 330 FWL Horizontal Bone Spring test

14. Distance in miles and direction from nearest town or post office*

5. Lease Serial No.

NM 066126

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No

8. Lease Name and Well No.

Lynch 25 Federal 1

9. API Well No

30-025-

10. Field and Pool, or Exploratory

Triple X, Bone Spring, West

11. Sec., T. R. M or Blk and Survey or Area

25-20S-34E

12. County or Parish

13. State

Lea

NM

15. Distance from proposed*

location to nearest
property or lease line, ft.
(Also to nearest drg. unit line if
any)

330'

16. No of acres in lease

800 acres

17. Spacing Unit dedicated to this well

N2S2 160 acres

18. Distance from proposed location*

to nearest well, drilling, completed,
applied for, on this lease, ft.

1700'

19. Proposed Depth

Pilot Hole TD 10900

20. BLM/BIA Bond No. on File

COB000011

21. Elevations (Show whether DF, KDB, RT, GL, etc)

3725' GR

22. Approximate date work will start*

08.01.12

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
2. A Drilling Plan
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)

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above)
5. Operator Certification
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

03.09.12

Title

Manager Operations Administration

Approved By (Signature)

/s/ Jesse J. Juen

Name (Printed/Typed)

/s/ Jesse J. Juen

Date

AUG - 1 2012

Title

STATE DIRECTOR

Office

NM STATE 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)

K2 08/15/12

Capitan Controlled Water Basin

Approval Subject to General Requirements
& Special Stipulations AttachedAUG 16 2012
CONDITIONS OF APPROVAL

Operator - Landowner Agreement

Company: Cimarex Energy Co.
Proposed Well: Lynch 25 Federal 1
Federal Lease Number: NM 066126

This is to advise that Cimarex Energy Co. of Colorado has an agreement with: Pat Sims S&S Inc. P.O. Box 1046, Eunice NM 88231, the surface owner, concerning entry and, surface restoration after completion of drilling operations at the above described well.

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

March 9, 2012
Date

Zeno Farris
Signature Zeno Farris
Manager, Operations Admini

Application to Drill
Lynch 25 Federal 1
 Cimarex Energy Co.
 Unit I, Section 25
 T20S-R34E, 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 1650 FSL & 330 FEL
 BHL 1980 FSL & 330 FWL

- 2 Elevation above sea level: 3725' 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 15414 TVD 11000

- 6 Estimated tops of geological markers:

Rustler	1800'
Top of Salt	2000'
Base of Salt	3020'
Seven Rivers	4100'
Capitan	4290'
Delaware	5840'
Brushy Canyon	8300'
Bone Spring	8600'
Avalon Shale	9050'
1st BSS	9740'
2nd BSS	10350'
3rd Carbonate	10830'

- 7 Possible mineral bearing formation:

Bone Spring	Oil
Delaware	Oil

8 Proposed Mud Circulating System:

Depth	Mud Wt	Visc	Fluid Loss	Type Mud
0' to 1825' 1805'	8.4 - 8.6	28	NC	FW
1825' to 5480'	10.0	30-32	NC	Brine
5480' to 10541'	8.4-9.0	28-29	NC	FW and brine, use hi-vis sweeps to keep hole clean
10541' to 15414'	8.5-9.5	27-45	NC	2% KCL

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 8¾" pilot hole to 10900 and log. Pump 30bbls MUDPUSHII 12ppg, followed by 495 sks Type H Cement, D080 (Dispersant) 0.080 gal/sk, D177 (Retarder) 0.045gal/sk 17.5 ppg yield 0.94 & 0% Excess from 10900 to 10541. Set whipstock and kick off 8¾" lateral @ 10541 and drill to TD @ 15414 MD, 11000 TVD. Run 5½" 17# P-110 LTC from 0-15414 and cement.

Application to Drill
Lynch 25 Federal 1
 Cimarex Energy Co.
 Unit I, Section 25
 T20S-R34E, Lea County, NM

9 Casing & Cementing Program:

See COA

String	Hole Size	Depth	Casing OD	Weight	Collar	Grade
Surface 1	17 1/2"	0' to 1825'	New 13 3/8"	54.5#	STC	J-55
Intermediate	12 1/4"	0' to 5480'	New 9 5/8"	40#	LTC	N-80
Production	8 3/4"	0' to 15414'	New 5 1/2"	17#	LTC	P-110

10 Cementing:

Surface

Lead:1125SKS Halcem C + 4% Bentomite + 2% CaCl 13.5ppg 1.75yield 100% Excess

Tail:315SKS Halcem C + 2% CaCl 14.2ppg 1.34 yield 50% Excess

TOC Surface Centralizers per Onshorder 2.III.B.1.f

Intermediate

Lead:1140SKS Econocem + 5% Salt + 5# Gilsonite 12.9ppg 1.88yield 70% Excess

Tail:350SKS Halcem C + 1% CaCl 14.8ppg 1.34 yield 50% Excess

TOC Surface

Production

Lead:800SKS Econocem H + 0.5% CFR-3 + 0.1% HR-601 11.9ppg 2.44 yield 50% Excess

Tail:1390SKS Versacem H + 0.5% Halad-344 + 0.4% CFR-3 + 1# Salt + 0.1% HR-601 14.5ppg 1.22 yield 25% Excess

TOC 4900' Centralizers every 3rd joint in lateral to provide adequate cement coverage every 100' unless lateral doglegs require greater spacing between centralizers.

According to the NM State Engineer, depth to ground water is 100 feet. Fresh water zones will be protected by setting 13 3/8" casing at 1825' and 9 5/8" casing at 5480' and cementing to surface. Hydrocarbon zones will be protected by setting 5 1/2" casing at 15414' and cementing to 4900'.

<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 3/8" 5000 PSI working pressure B.O.P. 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 below 5480'. 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. Mud gas separator will be available if drilling in H2S areas.

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.

Before drilling out of the surface casing BOPs will be tested to 250 psi low and 3000 psi high by an independent service company. Hydril will be tested to 250 psi low and 1500 psi high. Before drilling out of the intermediate casing BOPs will be tested to 250 psi low and 5000 psi high. Hydril will be tested to 250 psi low and 2500 high.

Cimarex Energy Co. (operator) requests a variance if Cactus 115 (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

Application to Drill
Lynch 25 Federal 1
Cimarex Energy Co.
Unit I, Section 25
T20S-R34E, Lea County, NM

12 Testing, Logging and Coring Program: *See COF*

- A. Mud logging program: 2 man unit from 5480 to TD
- B. Electric logging program: CNL / LDT / CAL / GR, DLL / CAL / GR Surface to TD
- 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 **4950 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.

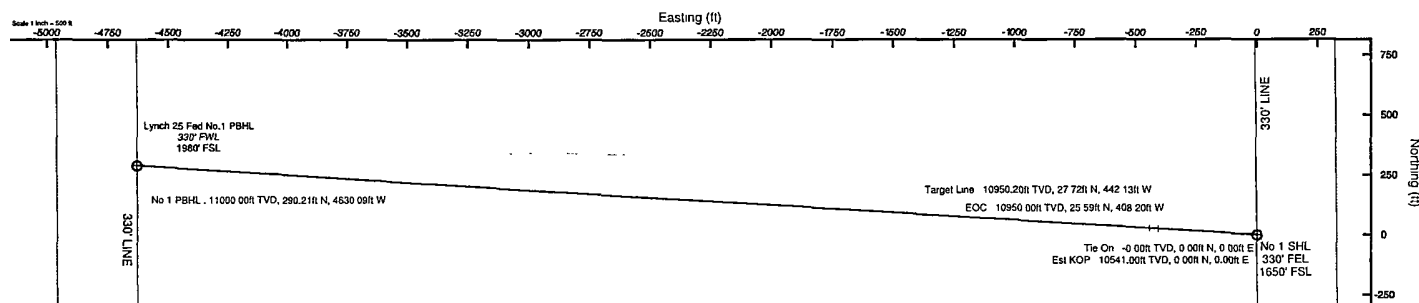
Location Lea County, NM
Field (Lynch) Sec 23, T20S, R34E
Facility Lynch 25 Federal No 1

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

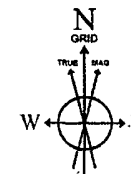


Well Profile Data

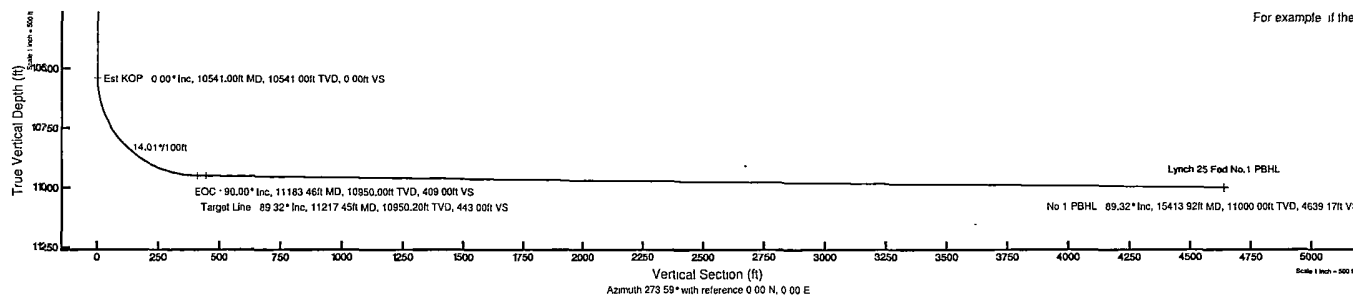
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	0.00	0.000	273.587	0.00	0.00	0.00	0.00	0.00
Est KOP	10541.00	0.000	273.587	10541.00	0.00	0.00	0.00	0.00
EOC	11183.46	90.000	273.587	10950.00	25.59	-408.20	14.01	409.00
Target Line	11217.45	89.320	273.586	10950.20	27.72	-442.13	2.00	443.00
No. 1 PBHL	15413.92	89.320	273.586	11000.00	290.21	-4630.09	0.00	4639.17



Plot reference wellpath is Prelim_1	Grid System: NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet
True vertical depths are referenced to Rig on No. 1H SHL (RT)	North Reference: Grid north
Measured depths are referenced to Rig on No. 1H SHL (RT)	Scale: True distance
Rig on No. 1H SHL (RT) to Mean Sea Level: 3725 feet	Depths are in feet
Mean Sea Level to Mud line (At Slot No 1 SHL) -3725 feet	Created by: genbry on 2/27/2012
Coordinates are in feet referenced to Slot	



BGGM (1945.0 to 2013.0) Dip: 60.44° Field 48752.7 nT
Magnetic North is 7.57 degrees East of True North (at 2/27/2012)
Grid North is 0.44 degrees East of True North
To correct azimuth from True to Grid subtract 0.44 degrees
To correct azimuth from Magnetic to Grid add 7.13 degrees
For example if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.13 = 97.13





Planned Wellpath Report

Prelim_1
Page 1 of 6



REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.1 SHL
Area	Lea County, NM	Well	No.1
Field	(Lynch) Sec 23, T20S, R34E	Wellbore	No.1 PWB
Facility	Lynch 25 Federal No.1		

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	Gentbry
Scale	0.999983	Report Generated	2/27/2012 at 10:20:06 AM
Convergence at slot	0.44° East	Database/Source file	WA Midland/No.1_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	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W
Facility Reference Pt			796211.60	561677.60	32°32'29.001"N	103°30'22.473"W
Field Reference Pt			789361.60	570203.60	32°33'53.881"N	103°31'41.737"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No.1H SHL (RT) to Facility Vertical Datum	0.00ft
Horizontal Reference Pt	Slot	Rig on No.1H SHL (RT) to Mean Sea Level	3725.00ft
Vertical Reference Pt	Rig on No.1H SHL (RT)	Rig on No.1H SHL (RT) to Mud Line at Slot (No.1 SHL)	0.00ft
MD Reference Pt	Rig on No.1H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	273.59°



Planned Wellpath Report

Prelim_1
Page 2 of 6



REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.1 SHL
Area	Lea County, NM	Well	No.1
Field	(Lynch) Sec 23, T20S, R34E	Wellbore	No.1 PWB
Facility	Lynch 25 Federal No.1		

WELLPATH DATA (163 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	273.587	0.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	Tie On
100.00†	0.000	273.587	100.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
200.00†	0.000	273.587	200.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
300.00†	0.000	273.587	300.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
400.00†	0.000	273.587	400.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
500.00†	0.000	273.587	500.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
600.00†	0.000	273.587	600.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
700.00†	0.000	273.587	700.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
800.00†	0.000	273.587	800.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
900.00†	0.000	273.587	900.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
1000.00†	0.000	273.587	1000.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
1100.00†	0.000	273.587	1100.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
1200.00†	0.000	273.587	1200.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
1300.00†	0.000	273.587	1300.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
1400.00†	0.000	273.587	1400.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
1500.00†	0.000	273.587	1500.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
1600.00†	0.000	273.587	1600.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
1700.00†	0.000	273.587	1700.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
1800.00†	0.000	273.587	1800.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
1900.00†	0.000	273.587	1900.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	Rustler
2000.00†	0.000	273.587	2000.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
2100.00†	0.000	273.587	2100.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	Salt
2200.00†	0.000	273.587	2200.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
2300.00†	0.000	273.587	2300.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
2400.00†	0.000	273.587	2400.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
2500.00†	0.000	273.587	2500.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
2600.00†	0.000	273.587	2600.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
2700.00†	0.000	273.587	2700.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
2800.00†	0.000	273.587	2800.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
2900.00†	0.000	273.587	2900.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
3000.00†	0.000	273.587	3000.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
3100.00†	0.000	273.587	3100.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
3200.00†	0.000	273.587	3200.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
3300.00†	0.000	273.587	3300.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
3400.00†	0.000	273.587	3400.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
3500.00†	0.000	273.587	3500.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
3600.00†	0.000	273.587	3600.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	Base Salt
3700.00†	0.000	273.587	3700.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
3800.00†	0.000	273.587	3800.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
3900.00†	0.000	273.587	3900.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
4000.00†	0.000	273.587	4000.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
4100.00†	0.000	273.587	4100.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
4150.00†	0.000	273.587	4150.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	Seven Rivers
4200.00†	0.000	273.587	4200.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
4300.00†	0.000	273.587	4300.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	



Planned Wellpath Report

Prelim_1
Page 3 of 6



REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.1 SHL
Area	Lea County, NM	Well	No.1
Field	(Lynch) Sec 23, T20S, R34E	Wellbore	No.1 PWB
Facility	Lynch 25 Federal No.1		

WELLPATH DATA (163 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
4400.00†	0.000	273.587	4400.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
4500.00†	0.000	273.587	4500.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
4600.00†	0.000	273.587	4600.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
4700.00†	0.000	273.587	4700.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
4800.00†	0.000	273.587	4800.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
4900.00†	0.000	273.587	4900.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
5000.00†	0.000	273.587	5000.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
5100.00†	0.000	273.587	5100.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
5200.00†	0.000	273.587	5200.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
5300.00†	0.000	273.587	5300.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
5400.00†	0.000	273.587	5400.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
5500.00†	0.000	273.587	5500.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
5600.00†	0.000	273.587	5600.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
5700.00†	0.000	273.587	5700.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
5800.00†	0.000	273.587	5800.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	Delaware Sands
5900.00†	0.000	273.587	5900.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
6000.00†	0.000	273.587	6000.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
6100.00†	0.000	273.587	6100.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
6200.00†	0.000	273.587	6200.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
6300.00†	0.000	273.587	6300.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
6400.00†	0.000	273.587	6400.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
6500.00†	0.000	273.587	6500.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
6600.00†	0.000	273.587	6600.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
6700.00†	0.000	273.587	6700.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
6800.00†	0.000	273.587	6800.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
6900.00†	0.000	273.587	6900.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
7000.00†	0.000	273.587	7000.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
7100.00†	0.000	273.587	7100.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
7200.00†	0.000	273.587	7200.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
7300.00†	0.000	273.587	7300.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
7400.00†	0.000	273.587	7400.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
7500.00†	0.000	273.587	7500.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
7600.00†	0.000	273.587	7600.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
7700.00†	0.000	273.587	7700.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
7800.00†	0.000	273.587	7800.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
7900.00†	0.000	273.587	7900.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
8000.00†	0.000	273.587	8000.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
8100.00†	0.000	273.587	8100.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
8200.00†	0.000	273.587	8200.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
8300.00†	0.000	273.587	8300.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
8330.00†	0.000	273.587	8330.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	Basal Brushy Canyon
8400.00†	0.000	273.587	8400.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
8500.00†	0.000	273.587	8500.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
8600.00†	0.000	273.587	8600.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
8700.00†	0.000	273.587	8700.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	Bone Spring



Planned Wellpath Report

Prelim_1
Page 4 of 6



REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.1 SHL
Area	Lea County, NM	Well	No.1
Field	(Lynch) Sec 23, T20S, R34E	Wellbore	No.1 PWB
Facility	Lynch 25 Federal No.1		

WELLPATH DATA (163 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	273.587	8800.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
8900.00†	0.000	273.587	8900.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
9000.00†	0.000	273.587	9000.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
9100.00†	0.000	273.587	9100.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
9200.00†	0.000	273.587	9200.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	Avalon Shale
9300.00†	0.000	273.587	9300.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
9400.00†	0.000	273.587	9400.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
9500.00†	0.000	273.587	9500.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
9600.00†	0.000	273.587	9600.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
9700.00†	0.000	273.587	9700.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
9800.00†	0.000	273.587	9800.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
9900.00†	0.000	273.587	9900.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
9950.00†	0.000	273.587	9950.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	1st BSS
10000.00†	0.000	273.587	10000.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
10100.00†	0.000	273.587	10100.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
10200.00†	0.000	273.587	10200.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
10300.00†	0.000	273.587	10300.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
10400.00†	0.000	273.587	10400.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
10500.00†	0.000	273.587	10500.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	
10541.00	0.000	273.587	10541.00	0.00	0.00	0.00	796211.60	561677.60	32°32'29.001"N	103°30'22.473"W	0.00	Est KOP
10600.00†	8.265	273.587	10599.80	4.25	0.27	-4.24	796207.36	561677.87	32°32'29.003"N	103°30'22.522"W	14.01	
10700.00†	22.274	273.587	10696.03	30.52	1.91	-30.46	796181.14	561679.51	32°32'29.022"N	103°30'22.829"W	14.01	
10704.30†	22.877	273.587	10700.00	32.17	2.01	-32.11	796179.49	561679.61	32°32'29.023"N	103°30'22.848"W	14.01	2nd BSS
10800.00†	36.283	273.587	10783.03	79.30	4.96	-79.15	796132.45	561682.56	32°32'29.056"N	103°30'23.397"W	14.01	
10900.00†	50.291	273.587	10855.65	147.70	9.24	-147.41	796064.20	561686.84	32°32'29.103"N	103°30'24.194"W	14.01	
11000.00†	64.300	273.587	10909.54	231.63	14.49	-231.18	795980.42	561692.09	32°32'29.162"N	103°30'25.172"W	14.01	
11100.00†	78.309	273.587	10941.52	326.12	20.40	-325.48	795886.12	561698.00	32°32'29.227"N	103°30'26.273"W	14.01	
11183.46	90.000	273.587	10950.00	409.00	25.59	-408.20	795803.41	561703.19	32°32'29.285"N	103°30'27.239"W	14.01	EOC
11200.00†	89.669	273.587	10950.05	425.54	26.62	-424.71	795786.90	561704.22	32°32'29.297"N	103°30'27.432"W	2.00	
11217.45	89.320	273.586	10950.20	443.00	27.72	-442.13	795769.48	561705.31	32°32'29.309"N	103°30'27.635"W	2.00	Target Line
11300.00†	89.320	273.586	10951.18	525.54	32.88	-524.51	795687.10	561710.48	32°32'29.366"N	103°30'28.597"W	0.00	
11400.00†	89.320	273.586	10952.37	625.53	39.13	-624.31	795587.31	561716.73	32°32'29.436"N	103°30'29.762"W	0.00	
11500.00†	89.320	273.586	10953.55	725.52	45.39	-724.10	795487.51	561722.99	32°32'29.505"N	103°30'30.927"W	0.00	
11600.00†	89.320	273.586	10954.74	825.52	51.64	-823.90	795387.72	561729.24	32°32'29.575"N	103°30'32.092"W	0.00	
11700.00†	89.320	273.586	10955.93	925.51	57.90	-923.70	795287.92	561735.50	32°32'29.644"N	103°30'33.258"W	0.00	
11800.00†	89.320	273.586	10957.11	1025.50	64.15	-1023.49	795188.13	561741.75	32°32'29.714"N	103°30'34.423"W	0.00	
11900.00†	89.320	273.586	10958.30	1125.50	70.41	-1123.29	795088.33	561748.01	32°32'29.783"N	103°30'35.588"W	0.00	
12000.00†	89.320	273.586	10959.49	1225.49	76.66	-1223.09	794988.53	561754.26	32°32'29.853"N	103°30'36.753"W	0.00	
12100.00†	89.320	273.586	10960.67	1325.48	82.92	-1322.89	794888.74	561760.52	32°32'29.922"N	103°30'37.918"W	0.00	
12200.00†	89.320	273.586	10961.86	1425.47	89.17	-1422.68	794788.94	561766.77	32°32'29.992"N	103°30'39.083"W	0.00	
12300.00†	89.320	273.586	10963.05	1525.47	95.43	-1522.48	794689.15	561773.03	32°32'30.061"N	103°30'40.249"W	0.00	
12400.00†	89.320	273.586	10964.23	1625.46	101.68	-1622.28	794589.35	561779.28	32°32'30.131"N	103°30'41.414"W	0.00	
12500.00†	89.320	273.586	10965.42	1725.45	107.94	-1722.07	794489.56	561785.54	32°32'30.200"N	103°30'42.579"W	0.00	
12600.00†	89.320	273.586	10966.61	1825.45	114.19	-1821.87	794389.76	561791.79	32°32'30.270"N	103°30'43.744"W	0.00	
12700.00†	89.320	273.586	10967.79	1925.44	120.45	-1921.67	794289.97	561798.05	32°32'30.339"N	103°30'44.909"W	0.00	



Planned Wellpath Report

Prelim_1
Page 5 of 6



REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.1 SHL
Area	Lea County, NM	Well	No.1
Field	(Lynch) Sec 23, T20S, R34E	Wellbore	No.1 PWB
Facility	Lynch 25 Federal No.1		

WELLPATH DATA (163 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
12800.00†	89.320	273.586	10968.98	2025.43	126.70	-2021.47	794190.17	561804.30	32°32'30.409"N	103°30'46.074"W	0.00	
12900.00†	89.320	273.586	10970.17	2125.43	132.96	-2121.26	794090.38	561810.56	32°32'30.478"N	103°30'47.240"W	0.00	
13000.00†	89.320	273.586	10971.35	2225.42	139.21	-2221.06	793990.58	561816.81	32°32'30.548"N	103°30'48.405"W	0.00	
13100.00†	89.320	273.586	10972.54	2325.41	145.47	-2320.86	793890.79	561823.07	32°32'30.617"N	103°30'49.570"W	0.00	
13200.00†	89.320	273.586	10973.73	2425.40	151.72	-2420.65	793790.99	561829.32	32°32'30.687"N	103°30'50.735"W	0.00	
13300.00†	89.320	273.586	10974.91	2525.40	157.98	-2520.45	793691.20	561835.58	32°32'30.756"N	103°30'51.900"W	0.00	
13400.00†	89.320	273.586	10976.10	2625.39	164.23	-2620.25	793591.40	561841.83	32°32'30.826"N	103°30'53.066"W	0.00	
13500.00†	89.320	273.586	10977.29	2725.38	170.49	-2720.04	793491.61	561848.09	32°32'30.895"N	103°30'54.231"W	0.00	
13600.00†	89.320	273.586	10978.47	2825.38	176.74	-2819.84	793391.81	561854.34	32°32'30.965"N	103°30'55.396"W	0.00	
13700.00†	89.320	273.586	10979.66	2925.37	183.00	-2919.64	793292.01	561860.60	32°32'31.034"N	103°30'56.561"W	0.00	
13800.00†	89.320	273.586	10980.85	3025.36	189.25	-3019.44	793192.22	561866.85	32°32'31.104"N	103°30'57.726"W	0.00	
13900.00†	89.320	273.586	10982.03	3125.35	195.51	-3119.23	793092.42	561873.11	32°32'31.173"N	103°30'58.892"W	0.00	
14000.00†	89.320	273.586	10983.22	3225.35	201.76	-3219.03	792992.63	561879.36	32°32'31.243"N	103°31'00.057"W	0.00	
14100.00†	89.320	273.586	10984.41	3325.34	208.02	-3318.83	792892.83	561885.62	32°32'31.312"N	103°31'01.222"W	0.00	
14200.00†	89.320	273.586	10985.59	3425.33	214.27	-3418.62	792793.04	561891.87	32°32'31.382"N	103°31'02.387"W	0.00	
14300.00†	89.320	273.586	10986.78	3525.33	220.53	-3518.42	792693.24	561898.13	32°32'31.451"N	103°31'03.552"W	0.00	
14400.00†	89.320	273.586	10987.97	3625.32	226.78	-3618.22	792593.45	561904.38	32°32'31.520"N	103°31'04.717"W	0.00	
14500.00†	89.320	273.586	10989.15	3725.31	233.04	-3718.02	792493.65	561910.64	32°32'31.590"N	103°31'05.883"W	0.00	
14600.00†	89.320	273.586	10990.34	3825.31	239.29	-3817.81	792393.86	561916.89	32°32'31.659"N	103°31'07.048"W	0.00	
14700.00†	89.320	273.586	10991.53	3925.30	245.55	-3917.61	792294.06	561923.14	32°32'31.729"N	103°31'08.213"W	0.00	
14800.00†	89.320	273.586	10992.71	4025.29	251.80	-4017.41	792194.27	561929.40	32°32'31.798"N	103°31'09.378"W	0.00	
14900.00†	89.320	273.586	10993.90	4125.28	258.06	-4117.20	792094.47	561935.65	32°32'31.868"N	103°31'10.543"W	0.00	
15000.00†	89.320	273.586	10995.09	4225.28	264.31	-4217.00	791994.68	561941.91	32°32'31.937"N	103°31'11.709"W	0.00	
15100.00†	89.320	273.586	10996.27	4325.27	270.57	-4316.80	791894.88	561948.16	32°32'32.007"N	103°31'12.874"W	0.00	
15200.00†	89.320	273.586	10997.46	4425.26	276.82	-4416.60	791795.09	561954.42	32°32'32.076"N	103°31'14.039"W	0.00	
15300.00†	89.320	273.586	10998.65	4525.26	283.08	-4516.39	791695.29	561960.67	32°32'32.145"N	103°31'15.204"W	0.00	
15400.00†	89.320	273.586	10999.83	4625.25	289.33	-4616.19	791595.50	561966.93	32°32'32.215"N	103°31'16.369"W	0.00	
15413.92	89.320	273.586	11000.00†	4639.17	290.21	-4630.09	791581.60	561967.80	32°32'32.224"N	103°31'16.532"W	0.00	No.1 PBHL



Planned Wellpath Report

Prelim_1
Page 6 of 6



REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.1 SHL
Area	Lea County, NM	Well	No.1
Field	(Lynch) Sec 23, T20S, R34E	Wellbore	No.1 PWB
Facility	Lynch 25 Federal No.1		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) Lynch 25 Fed No.1 PBHL	15413.92	11000.00	290:21	-4630.09	791581.60	561967.80	32°32'32.224"N	103°31'16.532"W	point

SURVEY PROGRAM - Ref Wellbore: No.1 PWB Ref Wellpath: Prelim_1				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	15413.92	NaviTrak (Standard)		No.1 PWB

SR & A

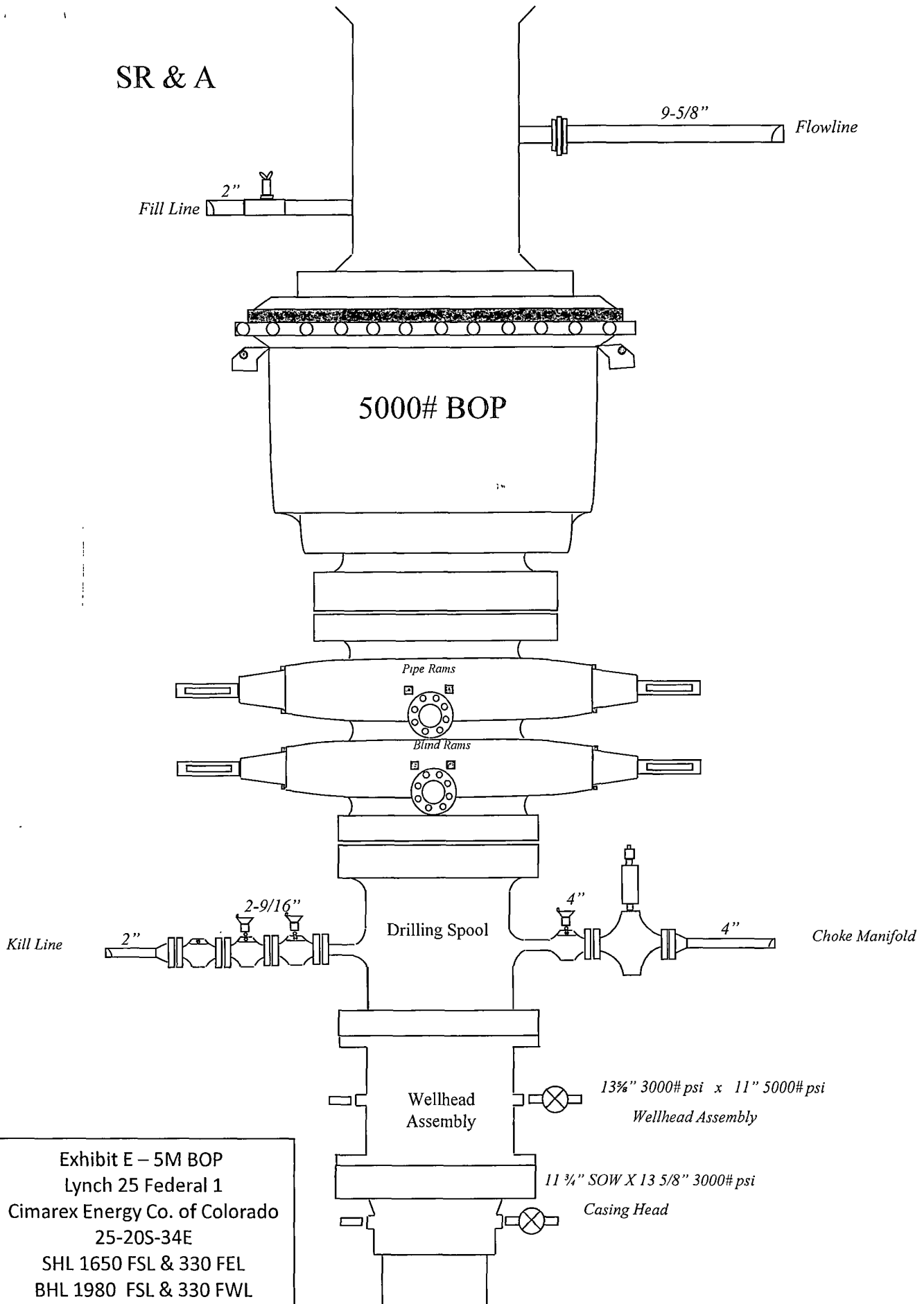
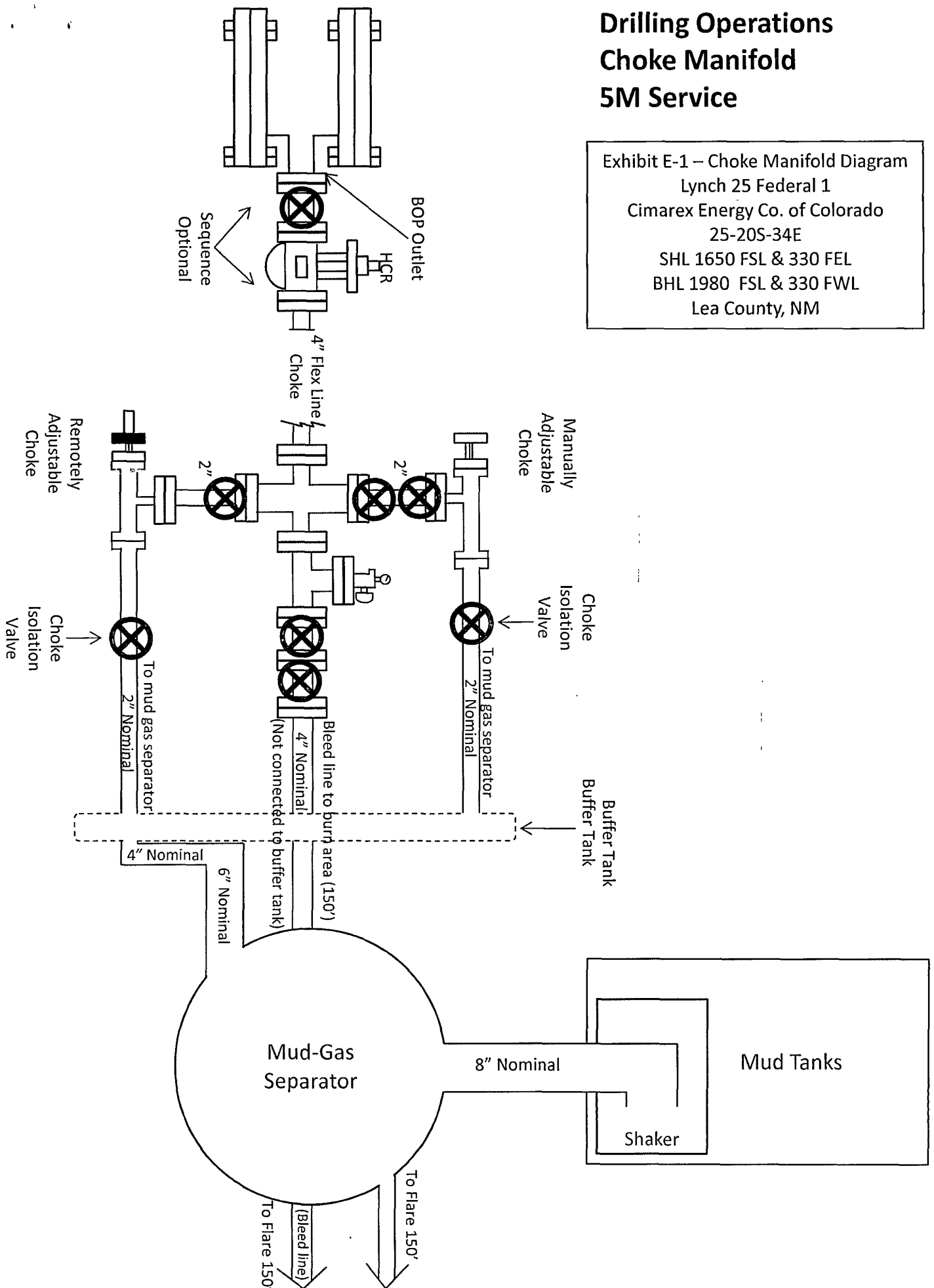
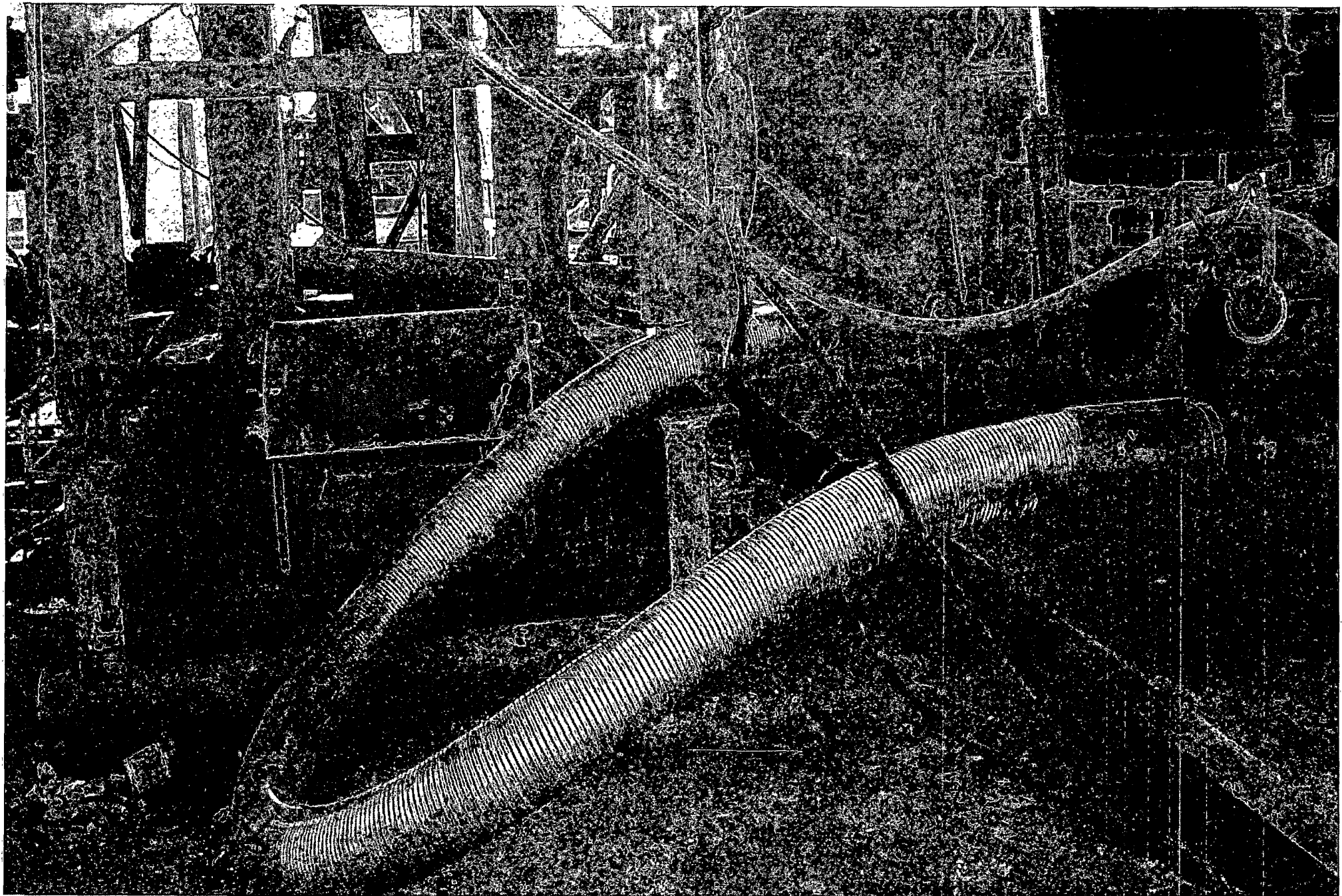


Exhibit E – 5M BOP
 Lynch 25 Federal 1
 Cimarex Energy Co. of Colorado
 25-20S-34E
 SHL 1650 FSL & 330 FEL
 BHL 1980 FSL & 330 FWL
 Lea County, NM

Drilling Operations Choke Manifold 5M Service

Exhibit E-1 – Choke Manifold Diagram
Lynch 25 Federal 1
Cimarex Energy Co. of Colorado
25-20S-34E
SHL 1650 FSL & 330 FEL
BHL 1980 FSL & 330 FWL
Lea County, NM





Cactus Rig 115
Serial # 63270

MIDWEST
HOSE AND SPECIALTY INC.

INTERNAL HYDROSTATIC TEST REPORT		
Customer: CACTUS DRILLING		P.O. Number: RIG#147
HOSE SPECIFICATIONS		
Type: CHOKE & KILL		Length: 35'
I.D. 4" INCHES		O.D. 8"
WORKING PRESSURE 10,000 PSI	TEST PRESSURE 15,000	BURST PRESSURE
COUPLINGS		
Stem Part No. E4.0X64WB		Ferrule No. FERRULE-128
Type of Coupling: 4-1/16 10K FLANGE(BX-155)		Die Size:
PROCEDURE		
<i>Hose assembly pressure tested with water at ambient temperature.</i>		
TIME HELD AT TEST PRESSURE 15 MIN.		ACTUAL BURST PRESSURE: 0 PSI
COMMENTS: SERIAL#63270		
Date: 7/14/2010	Tested By: BOBBY FINK	Approved: BRENT BURNETT



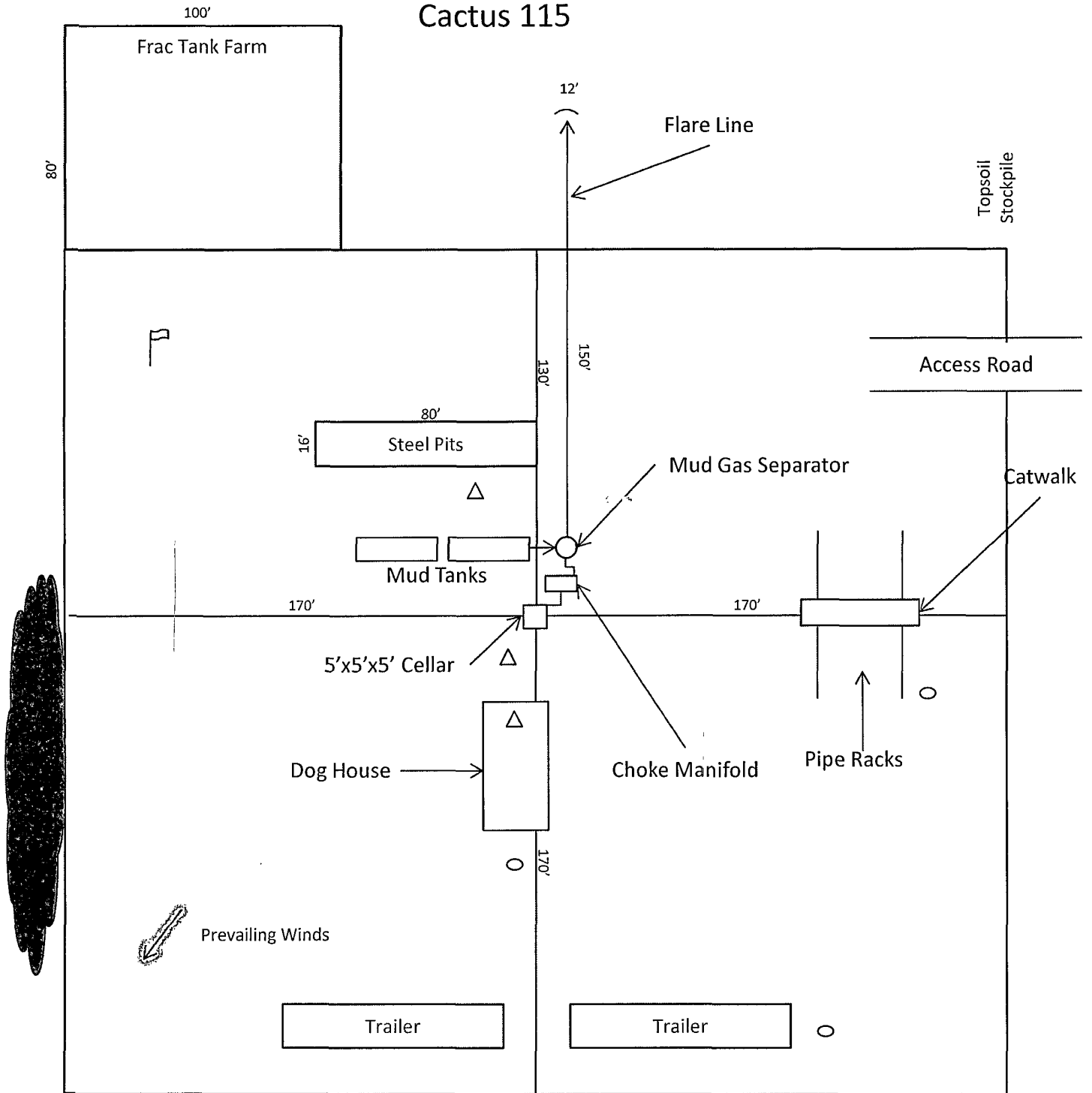
Midwest Hose
& Specialty, Inc.

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)

Cactus 115



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

Exhibit D – Rig Diagram
 Lynch 25 Federal 1
 Cimarex Energy Co. of Colorado
 25-20S-34E
 SHL 1650 FSL & 330 FEL
 BHL 1980 FSL & 330 FWL
 Lea County, NM



Hydrogen Sulfide Drilling Operations Plan
Lynch 25 Federal 1
Cimarex Energy Co.
Unit I, Section 25
T20S-R34E, Lea County, NM

- 1 All Company and Contract personnel admitted on location must be trained by a qualified H₂S safety instructor to the following:
 - A. Characteristics of H₂S
 - B. Physical effects and hazards
 - C. Proper use of safety equipment and life support systems.
 - D. Principle and operation of H₂S detectors, warning system and briefing areas.
 - E. Evacuation procedure, routes and first aid.
 - F. Proper use of 30 minute pressure demand air pack.
- 2 H₂S Detection and Alarm Systems:
 - A. H₂S detectors and audio alarm system to be located at bell nipple, end of flow line (mud pit) and on derrick floor or doghouse.
- 3 Windsock and/or wind streamers:
 - A. Windsock at mudpit area should be high enough to be visible.
 - B. Windsock at briefing area should be high enough to be visible.
- 4 Condition Flags and Signs:
 - A. Warning sign on access road to location.
 - B. Flags to be displayed on sign at entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates danger (H₂S present in dangerous concentration). Only emergency personnel admitted to location.
- 5 Well control equipment:
 - A. See exhibit "E"
- 6 Communication:
 - A. While working under masks chalkboards will be used for communication.
 - B. Hand signals will be used where chalk board is inappropriate.
 - C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.
- 7 Drillstem Testing:

No DSTs or cores are planned at this time.
- 8 Drilling contractor supervisor will be required to be familiar with the effects H₂S has on tubular goods and other mechanical equipment.
- 9 If H₂S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H₂S scavengers if necessary.