

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

OCD Hobbs
HOBBS

DEC 03 2014

RECEIVED

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

5. Lease Serial No.
SHL: NMLC0071986; BHL: NMNM015912

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.
Fuggles 14 Federal 1H

9. API Well No.
30025-42302

10. Field and Pool, or Exploratory
Wildcat Bone Spring

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

14, 25S, 32E

12. County or Parish

Lea

13. State

NM

1a. Type of Work ☒ DRILL ☐ REENTER

1b. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator

Cimarex Energy Co.

3a. Address

600 N. Marienfield St. Ste. 600 Midland Tx 79071

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 330 FSL 380 FEL

At proposed prod. Zone 330 FNL 380 FEL

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

25 Miles west of Jal, NM.

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line if any)

330'

16. No of acres in lease

NMNM015912=640.00 acres
NMLC0071986=440.00 acres

17. Spacing Unit dedicated to this well

160.00

18. Distance from proposed* location to nearest well, drilling, completed, applied for, on this lease, ft.

1600' to #2H

19. Proposed Depth

Pilot Hole TD: 10,000

13,897 MD

9,457 TVD

20. BLM/BIA Bond No. on File

NM2575; NMB000835

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

3445 GR

22. Approximate date work will start*

2/14/14

23. Estimated duration

35 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor
- A Drilling Plan
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator Certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature

Gloria Garza

Name (Printed/Typed)

Gloria Garza

Date

12/13/13

Title

Regulatory Compliance

Steve Caffey

Approved By (Signature)

Name (Printed/Typed)

CARLSBAD FIELD OFFICE

Date

NOV 20 2014

Title

FIELD MANAGER

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

Title 18 U.S.S. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

Approval Subject to General Requirements
& Special Stipulations Attached

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

DEC 04 2014

Carlsbad Controlled Water Basin

Operator Certification Statement

Fuggles 14 Federal 1H

Cimarex Energy Co.

UL: P, Sec. 14, 25S, 32E

Lea Co., NM

HOBBS OGD

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Operator's Representative

Cimarex Energy Co. of Colorado

600 N. Marienfeld St., Ste. 600

Midland, TX 79701

Office Phone: (432) 571-7800

CERTIFICATION: I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 13 day of December, 2013

NAME:

Gloria Garza
Gloria Garza

TITLE: Regulatory Compliance

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

TELEPHONE: 432-571-7800

EMAIL: ggarza@cimarex.com

Field Representative: Same as above

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8A. Casing Design and Casing Loading Assumptions:

Surface	Tension	A 1.8 design factor with effects of buoyancy: 8.30 ppg.
	Collapse	A 1.125 design factor with full internal evacuation and a collapse force equal to a 8.30 ppg mud gradient.
	Burst	A 1.125 design with a surface pressure equal to the fracture gradient at setting depth less gas gradient to surface.
Intermediate	Tension	A 1.8 design factor with effects of buoyancy: 10.00 ppg.
	Collapse	A 1.125 design factor evacuated 1/3 TVD of next casing string with a collapse force equal to a 10.00 ppg mud gradient.
	Burst	A 1.125 design with a surface pressure equal to the fracture gradient at setting depth less gas gradient to surface.
Production and/or Production Completion System	Tension	A 1.8 design factor with effects of buoyancy: 9.00 ppg.
	Collapse	A 1.125 design factor with full internal evacuation of next casing string with a collapse force equal to a 9.00 ppg mud gradient.
	Burst	A 1.125 design with a surface pressure equal to the fracture gradient at setting depth less gas gradient to surface.

9. Cementing Program:

Casing Type	Type	Sacks	Yield	Weight	Cubic Feet	Cement Blend
Surface	Lead	397	1.75	13.50	694	Class C + Bentonite + Calcium Chloride + LCM, 8.829 gps water
	Tail	195	1.34	14.80	260	Class C + LCM, 6.32 gps water
	TOC: 0	72% Excess				Centralizers per Onshore Order 2.III.B.1f
Intermediate	Lead	1107	1.88	12.90	2080	35:65 (poz/C) + Salt + Bentonite + LCM + retarder, 9.65 gps water
	Tail	272	1.34	14.80	364	Class C + retarder + LCM, 6.32 gps water
	TOC: 0	82% Excess				
Production <i>See COA</i>	Lead	525	2.40	11.90	1260	35:65 (poz/H) + salt + Sodium Metasilicate + Bentonite + Fluid Loss + Dispersant + LCM + Retarder, 13.80 gps water
	Tail	1380	1.24	14.50	1711	50:50 (poz/H) + Bentonite + Salt + Fluid Loss + Dispersant + LCM + Retarder, 5.55 gps water
	TOC: 4450	25% Excess				No centralizers planned in the lateral section. 1 every jt from EOC to KOP. 1 every 4th joint from KOP to 500' inside previous casing.

Cement volumes will be adjusted depending on hole size

9a. Proposed Drilling Plan:

Pilot Hole TD: 10,000' KOP: 8,980' EOC: 9,729'

Set OH mechanical whipstock w/ 970 ft of 2.875 tubing and pump 30 bbls of Mudpush @ 12 ppg, followed by 453 sks Type H cement, dispersant 0.080 gals/sk, retarder 0.045 gals/sk @ 17.50 ppg, 0.94 cuft/sk, & 0% excess from pilot hole TD to KOP. KO lateral and drill through the curve to TD. Run production csg to TD and cement.

Application to Drill
Fuggles 14 Federal 1H
Cimarex Energy Co.
UL: P, Sec. 14, 25S, 32E
Lea Co., NM

10. Pressure Control Equipment:

Exhibit "E-1". A BOP consisting of two rams with blind rams and pipe rams, and one annular preventer. Below the surface casing, a 2M system will be used. Below the intermediate casing, a 3M system will be used. See attachments for BOP and choke manifold diagrams. An accumulator that meets the requirements in Onshore Order #2 for the pressure rating of the BOP stack. A Rotating head may be installed as needed. A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

BOP and associated equipment will be installed, used, maintained, and tested in a manner necessary to assure well control and shall be in place and operational prior to drilling the surface casing shoe. The Annular Preventer shall be functioned at least weekly. The pipe and blind rams will be operated each trip. No abnormal pressure or temperature is expected while drilling.

BOPS will be tested by an independent service company. The ram preventers, choke manifold, and safety valves will be tested as follows: On the surface casing, pressure tests will be made to 250 psi low and 2000 psi high. On the intermediate casing, pressure tests will be made to 250 psi low and 3000 psi high.

The Annular Preventer will be tested to 250 psi low and 1000 psi high on the surface casing, and 250 low and 1500 high on the intermediate casing.

Cimarex Energy Co. of Colorado requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached (please see Exhibit F, F-1, F-2, F-3). The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used.

11. Proposed Mud Circulating System:

Depth	Mud Weight	Visc	Fluid Loss	Type Mud
0' to 800'	8.30	28	NC	FW Spud Mud
800' to 4650'	10.00	30-32	NC	Brine Water
4650' to 13897'	9.00	30-32	NC	FW/Cut Brine

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs.

The Mud Monitoring System is an electronic Pason System satisfying requirements of Onshore Order 1.

12. Testing, Logging and Coring Program:

- A. Mud logging program: 2 man unit from 4650 to TD
- B. Electric logging program: CNL / LDT / CAL / GR, DLL /GR -- Inter. Csg to TD
CNL /GR -- Surf to Inter. Csg
- C. No DSTs or cores are planned at this time
- D. CBL w/ CCL from as far as gravity will let it fall to TOC

13. Potential Hazards:

No abnormal pressures or temperatures are expected. In accordance with Onshore Order 6, Cimarex does not anticipate that there will be enough H₂S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of an "H₂S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H₂S Safety package on all wells, attached is an "H₂S Drilling Operations Plan." Adequate flare lines will be installed off the mud / gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

Estimated BHP: ^{4400 psi}~~4250~~ psi
T.S. 9-16-14

Estimated BHT: 156°

14. Construction and Drilling:

Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take: 35 days.

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

15. Other Facets of Operations:

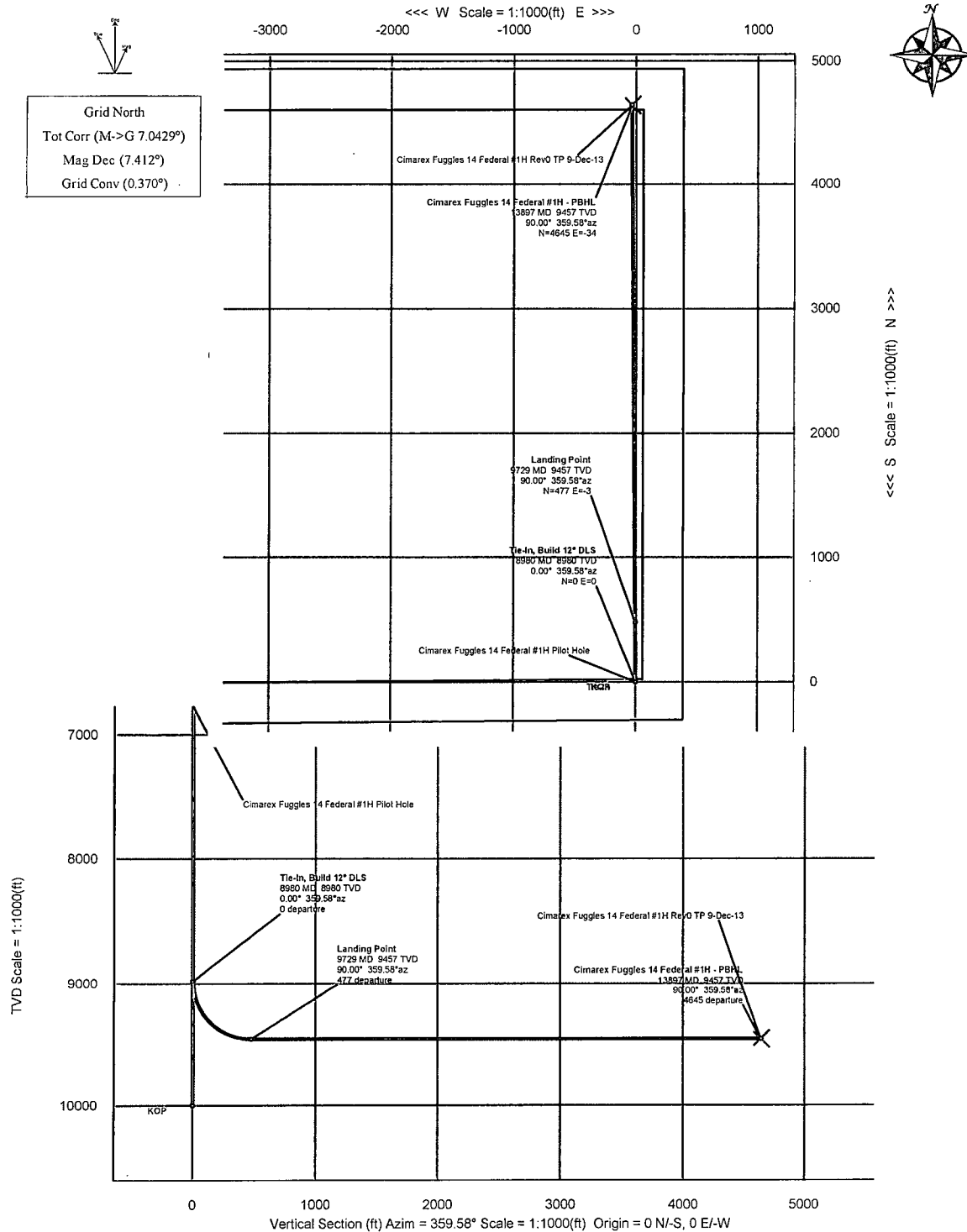
If production casing is run an additional 30 days will be required to complete and construct surface facilities.

Bone Spring "C" Shale pay will be perforated and stimulated.

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



WELL	Fuggles 14 Federal #1H		FIELD	NM Lea County (NAD 83)		STRUCTURE	Cimarex Cimarex Fuggles 14 F	
Magnetic Parameters Model: IIGM 2012	Dip: 59.97° Mag Dec: 7.412°	Date: December 09, 2013 PG: 48256.707	Surface Location Lat: N 32 7 28.832 Lon: W 103 38 17.602	NAD83 New Mexico State Plane, Eastern Zone, US Feet Harding: 409584 80 NUS Easting: 756507 80 NUS	Grid Cont: 6 370° Scale Fact: 0.9996212	Miscellaneous Sht: Fuggles 14 Federal #1H Plan: Cimarex Fuggles 14 Federal #1H Rev 0 9-Dec-2013	TVD Ref.: Ground Level (34455 above MSL)	



Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+) / S(-)	E(+) / W(-)	DLS
Tie-In, Build 12° DLS	8980.00	0.00	359.58	8980.00	0.00	0.00	0.00	
Landing Point	9729.27	90.00	359.58	9457.00	477.00	476.99	-3.50	12.01
Cimarex Fuggles 14 Federal #1H - PBHL	13897.48	90.00	359.58	9457.00	4645.21	4645.09	-34.10	0.00

Cimarex Fuggles 14 Federal #1H Rev0 TP 9-Dec-13 Proposal Report (Non-Def Plan)

Report Date:	December 09, 2013 - 02:02 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	NM Lea County (NAD 83)	Vertical Section Azimuth:	359.579 ° (Grid North)
Field:		Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Cimarex Fuggles 14 Federal #1H / Fuggles 14 Federal #1H	TVD Reference Datum:	Ground Level
Well:	Fuggles 14 Federal #1H	TVD Reference Elevation:	3445.000 ft above MSL
Borehole:	ST01	Seabed / Ground Elevation:	3445.000 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	7.412 °
Survey Name:	Cimarex Fuggles 14 Federal #1H Rev0 TP 9-Dec-13	Total Field Strength:	48256.696 nT
Survey Date:	December 09, 2013	Magnetic Dip Angle:	59.970 °
Tort / AHD / DDI / ERD Ratio:	90.001 ° / 4645.210 ft / 5.788 / 0.491	Declination Date:	December 09, 2013
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Declination Model:	BGGM 2012
Location Lat / Long:	N 32° 7' 26.83211", W 103° 38' 17.80212"	North Reference:	Grid North
Location Grid N/E Y/X:	N 409584.900 NUS, E 756507.800 NUS	Grid Convergence Used:	0.3696 °
CRS Grid Convergence Angle:	0.3696 °	Total Corr Mag North->Grid North:	7.0429 °
Grid Scale Factor:	0.99996212	Local Coord Referenced To:	Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (NUS)	Easting (EUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)
Tie-In, Build 12° DLS	8980.00	0.00	359.58	8980.00	0.00	0.00	0.00	409584.90	756507.80	N 32 7 26.83	W 103 38 17.80	0.00	0.00	N/A
	9000.00	2.40	359.58	8999.99	0.42	0.42	0.00	409585.32	756507.80	N 32 7 26.84	W 103 38 17.80	0.42	359.58	12.01
	9100.00	14.41	359.58	9098.74	15.01	15.01	-0.11	409599.91	756507.69	N 32 7 26.98	W 103 38 17.80	15.01	359.58	12.01
	9200.00	26.43	359.58	9182.28	49.84	49.84	-0.37	409634.74	756507.43	N 32 7 27.33	W 103 38 17.80	49.84	359.58	12.01
	9300.00	38.44	359.58	9276.53	103.37	103.37	-0.76	409688.26	756507.04	N 32 7 27.86	W 103 38 17.80	103.37	359.58	12.01
	9400.00	50.45	359.58	9347.80	173.26	173.26	-1.27	409758.15	756506.53	N 32 7 28.55	W 103 38 17.80	173.26	359.58	12.01
	9500.00	62.46	359.58	9402.95	256.45	256.45	-1.88	409841.34	756505.92	N 32 7 29.37	W 103 38 17.80	256.45	359.58	12.01
	9600.00	74.47	359.58	9439.59	349.31	349.30	-2.56	409934.18	756505.24	N 32 7 30.29	W 103 38 17.81	349.31	359.58	12.01
	9700.00	86.48	359.58	9456.10	447.75	447.74	-3.28	410032.62	756504.52	N 32 7 31.26	W 103 38 17.81	447.75	359.58	12.01
	9729.27	90.00	359.58	9457.00	477.00	476.99	-3.50	410061.87	756504.30	N 32 7 31.55	W 103 38 17.81	477.00	359.58	12.01
Landing Point	9800.00	90.00	359.58	9457.00	547.73	547.72	-4.02	410132.59	756503.79	N 32 7 32.25	W 103 38 17.81	547.73	359.58	0.00
	9900.00	90.00	359.58	9457.00	647.73	647.71	-4.75	410232.59	756503.05	N 32 7 33.24	W 103 38 17.81	647.73	359.58	0.00
	10000.00	90.00	359.58	9457.00	747.73	747.71	-5.48	410332.58	756502.32	N 32 7 34.23	W 103 38 17.81	747.73	359.58	0.00
	10100.00	90.00	359.58	9457.00	847.73	847.71	-6.21	410432.57	756501.59	N 32 7 35.22	W 103 38 17.81	847.73	359.58	0.00
	10200.00	90.00	359.58	9457.00	947.73	947.70	-6.95	410532.57	756500.85	N 32 7 36.21	W 103 38 17.81	947.73	359.58	0.00
	10300.00	90.00	359.58	9457.00	1047.73	1047.70	-7.68	410632.56	756500.12	N 32 7 37.20	W 103 38 17.81	1047.73	359.58	0.00
	10400.00	90.00	359.58	9457.00	1147.73	1147.70	-8.41	410732.55	756499.39	N 32 7 38.19	W 103 38 17.81	1147.73	359.58	0.00
	10500.00	90.00	359.58	9457.00	1247.73	1247.70	-9.15	410832.55	756498.65	N 32 7 39.18	W 103 38 17.81	1247.73	359.58	0.00
	10600.00	90.00	359.58	9457.00	1347.73	1347.69	-9.88	410932.54	756497.92	N 32 7 40.17	W 103 38 17.82	1347.73	359.58	0.00
	10700.00	90.00	359.58	9457.00	1447.73	1447.69	-10.62	411032.53	756497.19	N 32 7 41.16	W 103 38 17.82	1447.73	359.58	0.00
	10800.00	90.00	359.58	9457.00	1547.73	1547.69	-11.35	411132.53	756496.45	N 32 7 42.15	W 103 38 17.82	1547.73	359.58	0.00
	10900.00	90.00	359.58	9457.00	1647.73	1647.69	-12.08	411232.52	756495.72	N 32 7 43.14	W 103 38 17.82	1647.73	359.58	0.00
	11000.00	90.00	359.58	9457.00	1747.73	1747.68	-12.82	411332.51	756494.98	N 32 7 44.13	W 103 38 17.82	1747.73	359.58	0.00
	11100.00	90.00	359.58	9457.00	1847.73	1847.68	-13.55	411432.51	756494.25	N 32 7 45.12	W 103 38 17.82	1847.73	359.58	0.00
	11200.00	90.00	359.58	9457.00	1947.73	1947.68	-14.28	411532.50	756493.52	N 32 7 46.11	W 103 38 17.82	1947.73	359.58	0.00
	11300.00	90.00	359.58	9457.00	2047.73	2047.68	-15.02	411632.49	756492.78	N 32 7 47.09	W 103 38 17.82	2047.73	359.58	0.00
	11400.00	90.00	359.58	9457.00	2147.73	2147.67	-15.75	411732.49	756492.05	N 32 7 48.08	W 103 38 17.82	2147.73	359.58	0.00
	11500.00	90.00	359.58	9457.00	2247.73	2247.67	-16.49	411832.48	756491.31	N 32 7 49.07	W 103 38 17.83	2247.73	359.58	0.00
	11600.00	90.00	359.58	9457.00	2347.73	2347.67	-17.22	411932.47	756490.58	N 32 7 50.06	W 103 38 17.83	2347.73	359.58	0.00
	11700.00	90.00	359.58	9457.00	2447.73	2447.66	-17.95	412032.47	756489.85	N 32 7 51.05	W 103 38 17.83	2447.73	359.58	0.00
	11800.00	90.00	359.58	9457.00	2547.73	2547.66	-18.69	412132.46	756489.11	N 32 7 52.04	W 103 38 17.83	2547.73	359.58	0.00
	11900.00	90.00	359.58	9457.00	2647.73	2647.65	-19.42	412232.45	756488.38	N 32 7 53.03	W 103 38 17.83	2647.73	359.58	0.00
	12000.00	90.00	359.58	9457.00	2747.73	2747.66	-20.16	412332.45	756487.64	N 32 7 54.02	W 103 38 17.83	2747.73	359.58	0.00
	12100.00	90.00	359.58	9457.00	2847.73	2847.65	-20.89	412432.44	756486.91	N 32 7 55.01	W 103 38 17.83	2847.73	359.58	0.00
	12200.00	90.00	359.58	9457.00	2947.73	2947.65	-21.63	412532.43	756486.18	N 32 7 56.00	W 103 38 17.83	2947.73	359.58	0.00
	12300.00	90.00	359.58	9457.00	3047.73	3047.65	-22.36	412632.43	756485.44	N 32 7 56.99	W 103 38 17.83	3047.73	359.58	0.00
	12400.00	90.00	359.58	9457.00	3147.73	3147.65	-23.09	412732.42	756484.71	N 32 7 57.98	W 103 38 17.83	3147.73	359.58	0.00
	12500.00	90.00	359.58	9457.00	3247.73	3247.64	-23.83	412832.41	756483.97	N 32 7 58.97	W 103 38 17.84	3247.73	359.58	0.00
	12600.00	90.00	359.58	9457.00	3347.73	3347.64	-24.56	412932.41	756483.24	N 32 7 59.96	W 103 38 17.84	3347.73	359.58	0.00
	12700.00	90.00	359.58	9457.00	3447.73	3447.64	-25.30	413032.40	756482.50	N 32 8 0.95	W 103 38 17.84	3447.73	359.58	0.00
	12800.00	90.00	359.58	9457.00	3547.73	3547.63	-26.03	413132.39	756481.77	N 32 8 1.94	W 103 38 17.84	3547.73	359.58	0.00
	12900.00	90.00	359.58	9457.00	3647.73	3647.63	-26.77	413232.39	756481.03	N 32 8 2.93	W 103 38 17.84	3647.73	359.58	0.00
	13000.00	90.00	359.58	9457.00	3747.73	3747.63	-27.50	413332.38	756480.30	N 32 8 3.92	W 103 38 17.84	3747.73	359.58	0.00
	13100.00	90.00	359.58	9457.00	3847.73	3847.63	-28.24	413432.37	756479.56	N 32 8 4.91	W 103 38 17.84	3847.73	359.58	0.00
	13200.00	90.00	359.58	9457.00	3947.73	3947.62	-28.97	413532.37	756478.83	N 32 8 5.90	W 103 38 17.84	3947.73	359.58	0.00
	13300.00	90.00	359.58	9457.00	4047.73	4047.62	-29.71	413632.36	756478.09	N 32 8 6.89	W 103 38 17.84	4047.73	359.58	0.00
	13400.00	90.00	359.58	9457.00	4147.73	4147.62	-30.44	413732.35	756477.36	N 32 8 7.88	W 103 38 17.84	4147.73	359.58	0.00
	13500.00	90.00	359.58	9457.00	4247.73	4247.62	-31.18	413832.35	756476.62	N 32 8 8.86	W 103 38 17.85	4247.73	359.58	0.00
	13600.00	90.00	359.58	9457.00	4347.73	4347.61	-31.91	413932.34	756475.89	N 32 8 9.85	W 103 38 17.85	4347.73	359.58	0.00
	13700.00	90.00	359.58	9457.00	4447.73	4447.61	-32.65	414032.33	756475.15	N 32 8 10.84	W 103 38 17.85	4447.73	359.58	0.00
	13800.00	90.00	359.58	9457.00	4547.73	4547.61	-33.38	414132.33	756474.42	N 32 8 11.83	W 103 38 17.85	4547.73	359.58	0.00
Cimarex Fuggles 14 Federal #1H - PBHL	13897.48	90.00	359.58	9457.00	4645.21	4645.09	-34.10	414229.80	756473.70	N 32 8 12.80	W 103 38 17.85	4645.21	359.58	0.00

Survey Type: Non-Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma

Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	8980.000	1/100.000	30.000	30.000	SLB_MWD-STD	Pilot Hole / Cimarex Fuggles 14 Federal #1H Pilot Hole
	8980.000	13897.480	1/100.000	30.000	30.000	SLB_MWD-STD	ST01 / Cimarex Fuggles 14 Federal #1H Rev0 TP 9-Dec-13

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

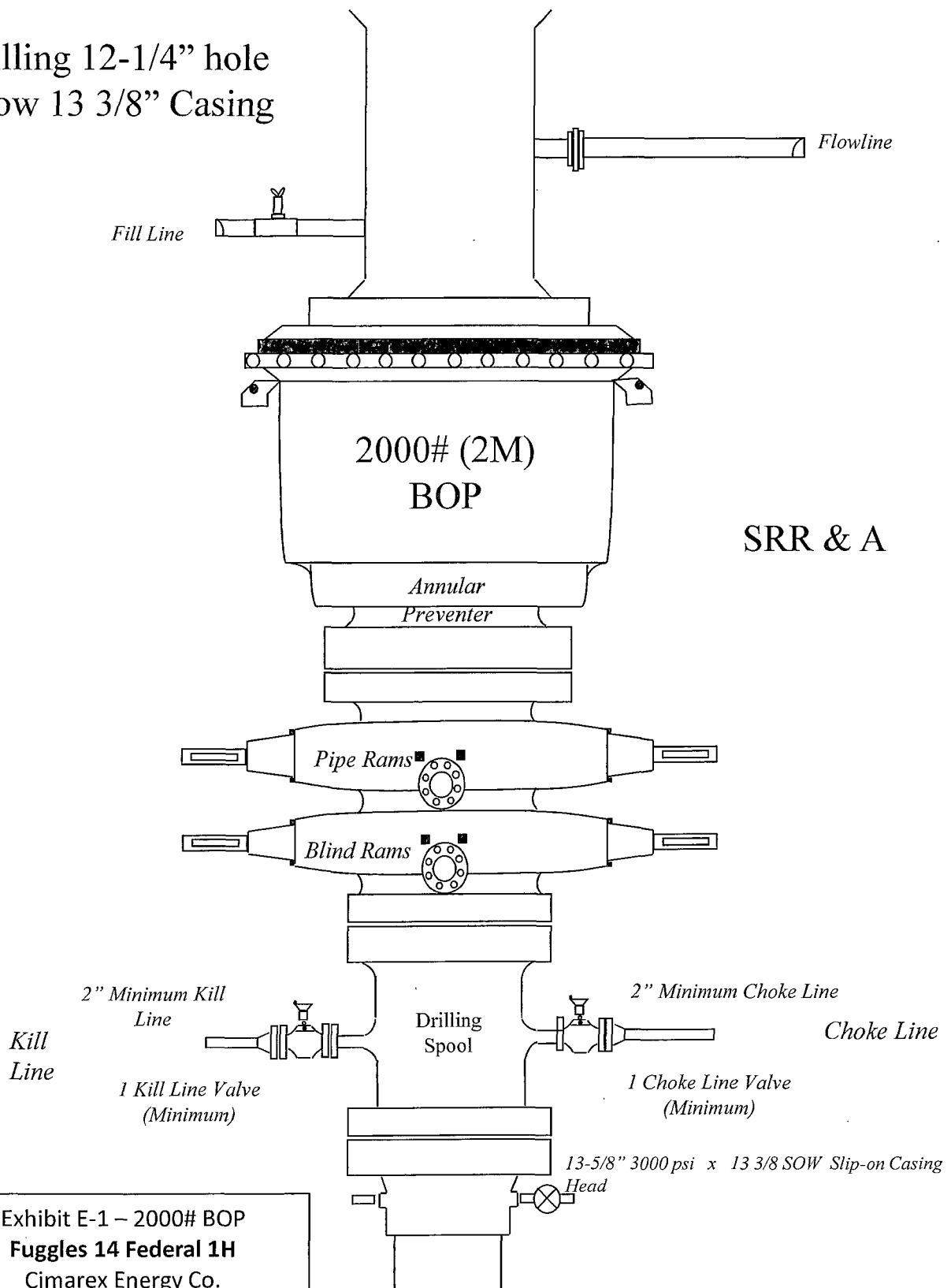


Exhibit E-1 – 2000# BOP
Fuggles 14 Federal 1H
Cimarex Energy Co.
14-25S-33E
SHL 330 FSL & 380 FEL
BHL 330 FNL & 380 FEL
Lea County, NM

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

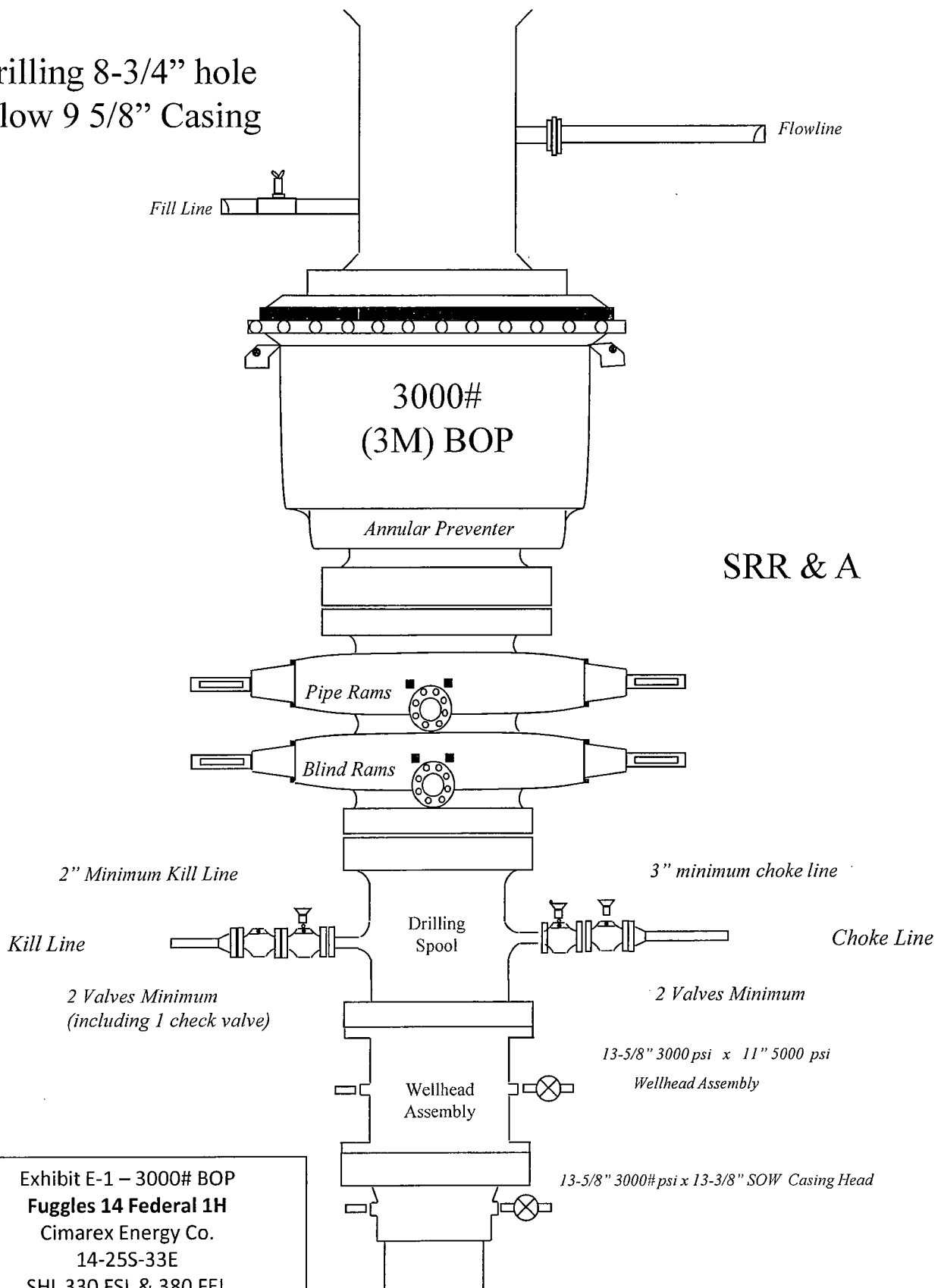
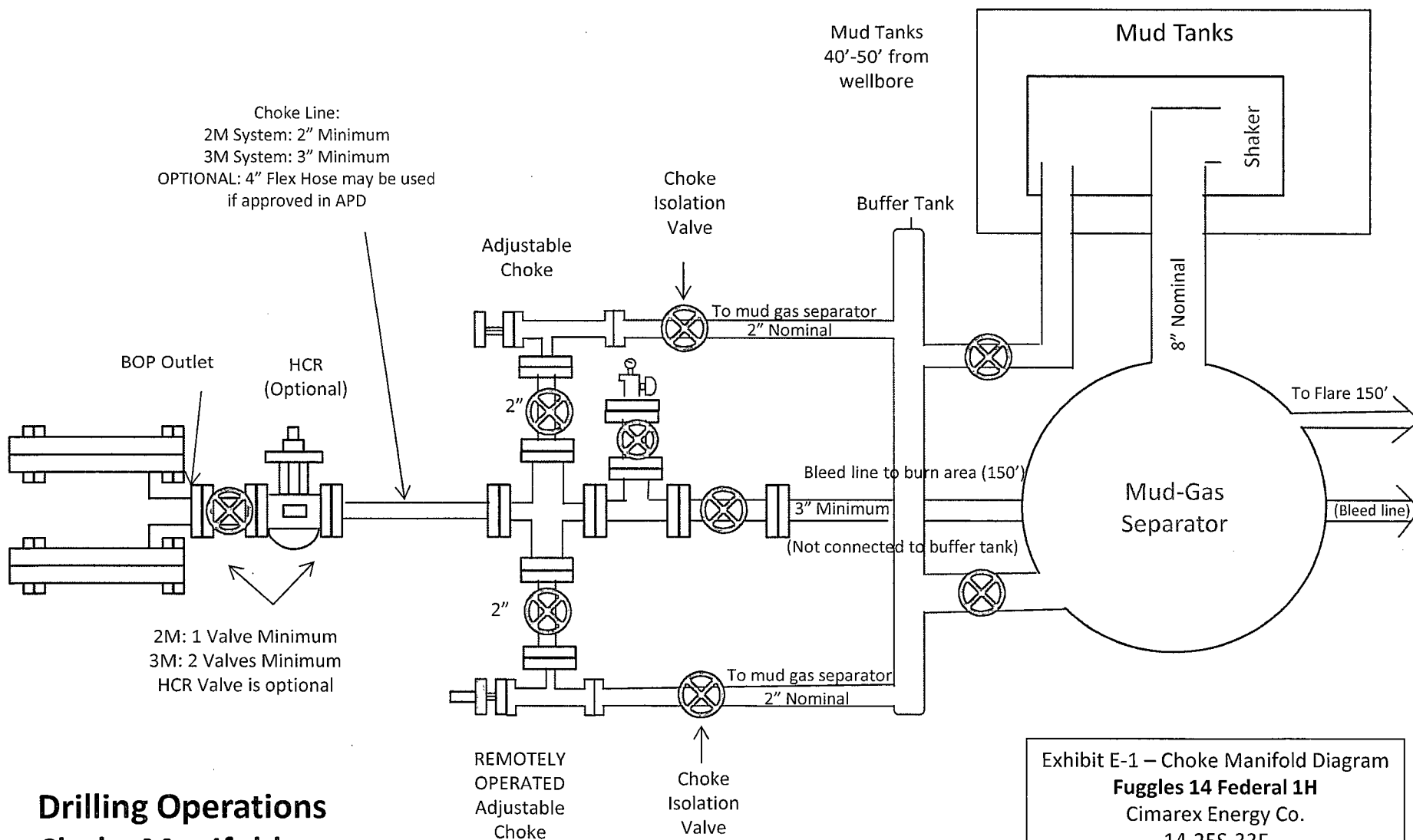


Exhibit E-1 – 3000# BOP
Fuggles 14 Federal 1H
Cimarex Energy Co.
14-25S-33E
SHL 330 FSL & 380 FEL
BHL 330 FNL & 380 FEL
Lea County, NM



Drilling Operations Choke Manifold 2M/3M Service

Exhibit E-1 – Choke Manifold Diagram
Fuggles 14 Federal 1H
 Cimarex Energy Co.
 14-25S-33E
 SHL 330 FSL & 380 FEL
 BHL 330 FNL & 380 FEL
 Lea County, NM

Exhibit F – Co-Flex Hose
Fuggles 14 Federal 1H
Cimarex Energy Co.
14-25S-33E
SHL 330 FSL & 380 FEL
BHL 330 FNL & 380 FEL
Lea County, NM

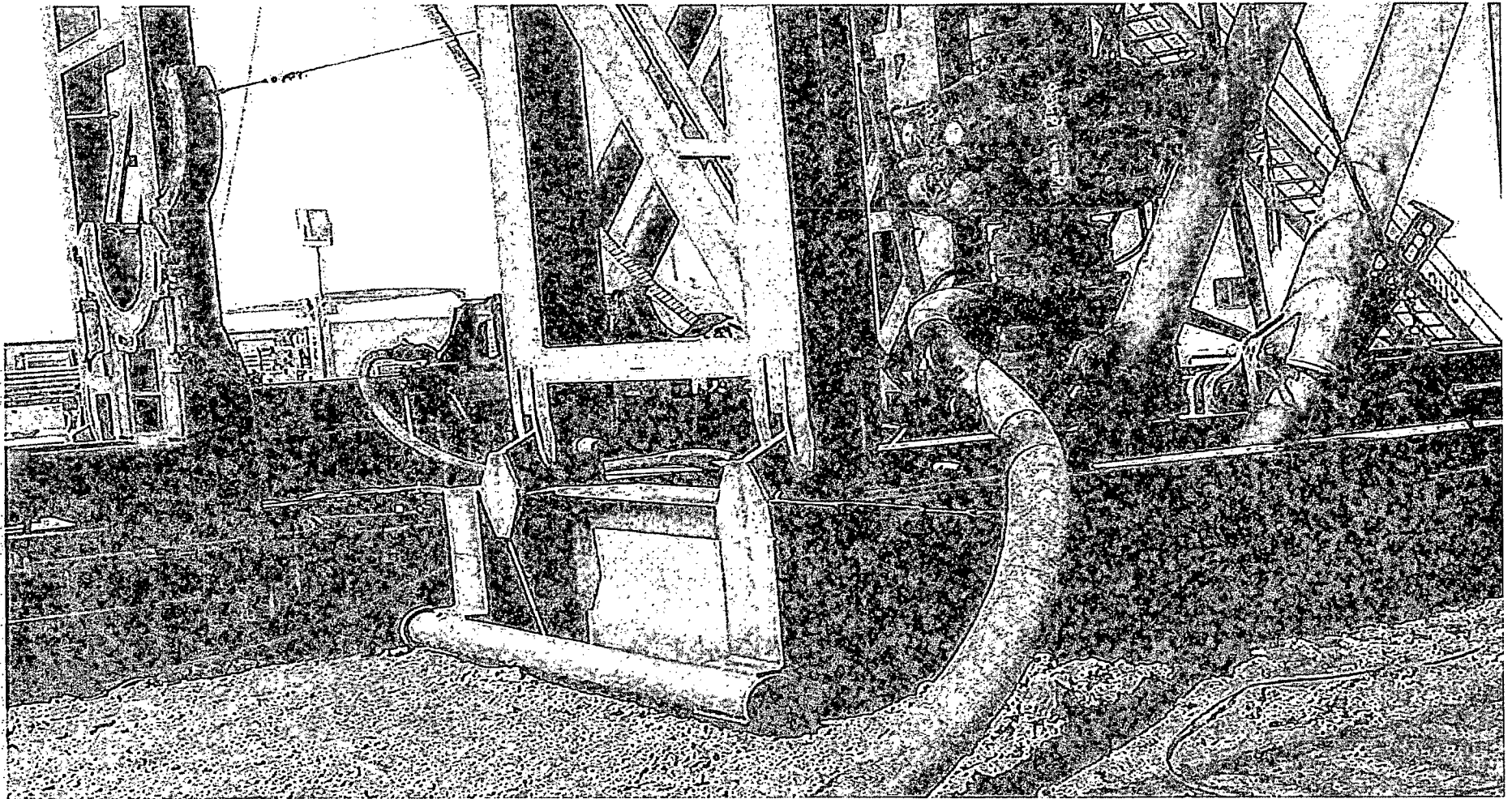


Exhibit F-1 – Co-Flex Hose Hydrostatic Test

Fuggles 14 Federal 1H

Cimarex Energy Co.

14-25S-33E

SHL 330 FSL & 380 FEL

BHL 330 FNL & 380 FEL

Lea County, NM



**Midwest Hose
& Specialty, Inc.**

INTERNAL HYDROSTATIC TEST REPORT

Customer:

Oderco Inc

P.O. Number:

odyd-271

HOSE SPECIFICATIONS

Type: Stainless Steel Armor
Choke & Kill Hose

Hose Length: 45'ft.

I.D. 4 INCHES

O.D. 9 INCHES

WORKING PRESSURE

10,000 PSI

TEST PRESSURE

15,000 PSI

BURST PRESSURE

0 PSI

COUPLINGS

Stem Part No.

OKC
OKC

Ferrule No.

OKC
OKC

Type of Coupling:

Swage-It

PROCEDURE

Hose assembly pressure tested with water at ambient temperature:

TIME HELD AT TEST PRESSURE

15 MIN.

ACTUAL BURST PRESSURE:

0 PSI

Hose Assembly Serial Number:

79793

Hose Serial Number:

OKC

Comments:

Date:

3/8/2011

Tested:

A. Jain

Approved:

Leah Jett



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

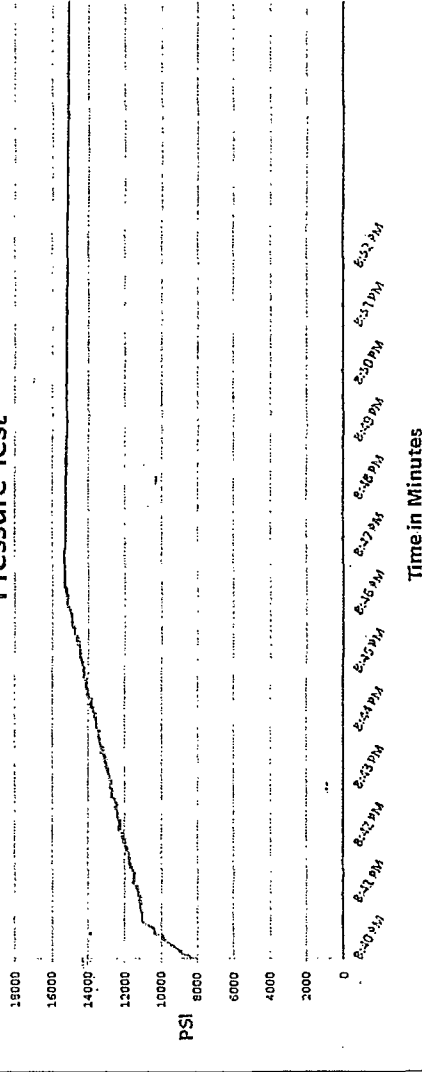
Customer: Houston

Pick Ticket #: 94260

March 3, 2011

<u>Hose Specifications</u>		<u>Verification</u>	
<u>Hose Type</u>	<u>Length</u>	<u>Type of Fittings</u>	<u>Coupling Method</u>
C&K	45'	41/16 10K	Swage
<u>I.D.</u>	<u>O.D.</u>	<u>Disc Size</u>	<u>Final O.D.</u>
4"	6.09"	6.38"	6.25"
<u>Working Pressure</u>	<u>Burst Pressure</u>	<u>Hose Serial #</u>	<u>Hose Assembly Serial #</u>
10000 PSI	Standard Safety Multiplier Applies	5544	79793

Pressure Test



<u>Test Pressure</u>	<u>Time Held at Test Pressure</u>	<u>Actual Burst Pressure</u>	<u>Peak Pressure</u>
15000 PSI	11 Minutes		15463 PSI

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

Tested By: Zac McConnell

Approved By: Kim Thomas

[Signature]

[Signature]

Exhibit F-2 - Co-Flex Hose
Fuggles 14 Federal 1H
Cimarex Energy Co.
14-25S-33E
SHL 330 FSL & 380 FEL
BHL 330 FNL & 380 FEL
Lea County, NM



Midwest Hose & Specialty, Inc.

Certificate of Conformity

Customer:

DEM

PO

ODYD-271

SPECIFICATIONS

Sales Order

79793

Dated:

3/8/2011

We hereby certify that the material supplied
for the referenced purchase order to be true
according to the requirements of the purchase
order and current industry standards

Supplier:

Midwest Hose & Specialty, Inc.
10640 Tanner Road
Houston, Texas 77041

Comments:

Approved:

Samuel Garcia

Date:

3/8/2011



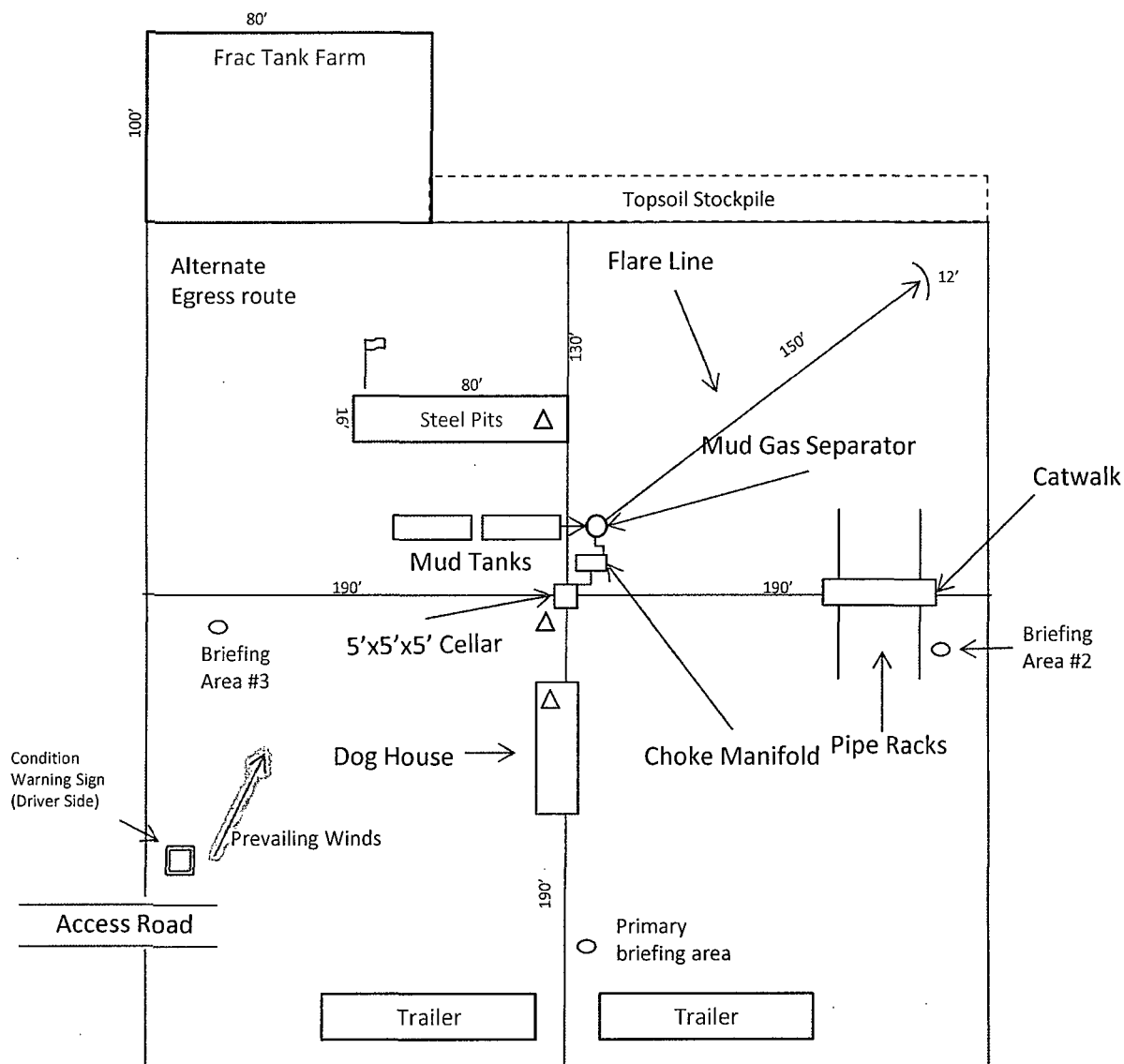
Midwest Hose
& Specialty, Inc.

Exhibit F -3- Co-Flex Hose
Fuggles 14 Federal 1H
Cimarex Energy Co.
14-25S-33E
SHL 330 FSL & 380 FEL
BHL 330 FNL & 380 FEL
Lea County, NM

Specification Sheet Choke & Kill Hose

The Midwest Hose & Specialty Choke & Kill hose is manufactured with only premium componets. 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)



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



Exhibit D – Rig Diagram
Fuggles 14 Federal 1H
 Cimarex Energy Co.
 14-25S-33E
 SHL 330 FSL & 380 FEL
 BHL 330 FNL & 380 FEL
 Lea County, NM