

OCD-Hobbs

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FEB 23 2015

RECEIVED

Form 3160-3
(March 2012)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 20145. Lease Serial No.
SHL: NM024368A; BHL: NM05792

6. If Indian, Allottee or Tribe Name

1a. Type of Work ☒ DRILL ☐ REENTER1b. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone2. Name of Operator
Cimarex Energy Co.7. If Unit or CA Agreement, Name and No.
NM71019X8. Lease Name and Well No.
Red Hills Unit 18H3a. Address
600 N. Marienfield St. Ste. 600 Midland Tx 790713b. Phone No. (include area code)
432-571-78009. API Well No.
30025

10. Field and Pool, or Exploratory

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

At Surface 150' FNL 1280' FWL

At proposed prod. Zone 330' FSL 440' FWL

Bone Spring

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

33, 25S, 33E

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

Approx 14 miles SW of Jal, NM

12. County or Parish

LEA

13. State

NM

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

150

16. No of acres in lease
NM024368A=160.00 acres
NM05792=680.00 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.

20

19. Proposed Depth
Pilot Hole TD: N/A
14,557 MD 9,875 TVD

20. BLM/BIA Bond No. on File

NM2575; NMB000835

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

3372 GR

22. Approximate date work will start*

4/7/14

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

Paula Brunson

Name (Printed/Typed)

Paula Brunson

Date

1/31/14

Title

Regulatory Compliance

Approved By (Signature) /S/ STEPHEN J. CAFFEY

Name (Printed/Typed)

Office

Date

FEB 18 2015

Title FIELD MANAGER

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.C. Section 1001 and Title 18 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)

GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED
ATTACHED

Carlsbad Controlled Water Basin

SEE ATTACHED FOR

CONDITIONS OF APPROVAL

FEB 24 2015

Application to Drill
Red Hills Unit 18H
 Cimarex Energy Co.
 UL: D, Sec. 33, 25S, 33E
 LEA Co., 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 150' FNL 1280' FWL
BHL 330' FSL 440FWL
2. **Elevation Above Sea Level:** 3,372' 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:** 14,557 MD 9,875 TVD Pilot Hole TD: N/A
6. **Estimated Tops of Geological Markers:**

Formation	Est Top	Bearing
Rustler	995	N/A
Salt	1140	N/A
Castille	3380	N/A
Lamar	4900	N/A
Bell Canyon	4945	N/A
Cherry Canyon	6190	N/A
Brushy Canyon	7485	N/A
Bone Spring	9045	Hydrocarbons
U. Avalon (Leonard)	9080	Hydrocarbons
L. Avalon	9680	Hydrocarbons

7. **Possible Mineral Bearing Formation:** Shown above

7A. **OSE Ground Water Estimated Depth:** 180'

8. **Casing Program:**

Name	Casing Depth From (ft)	Casing Setting Depth (ft) MD	Casing Setting Depth (ft) TVD	Open Hole Size (inches)	Casing Size (inches)	Casing Weight (lb/ft)	Casing Grade	Thread	Condition	BHP (psig)	Anticipated Mud Weight (ppg)	Collapse SF at Full Evacuation(1.125)	Collapse SF at 1/3 Evacuation(1.125)	Burst SF (1.125)	Cumulative Air Weight	Cumulative Bouyed Weight (lbs)	Bouyant Tension SF (1.8)
Surface	0	1000 1000	1000 1000	17 1/2	13-3/8"	48.00	H-40	ST&C	New	431	8.3	1.71		4.01	48,000	41,918	7.68
Intermediate	0	4920 4920	4920 4920	12 1/4	9-5/8"	40.00	J-55	LT&C	New	2558	10.0		1.50	1.54	196,800	166,754	3.12
Production	0	9398	8773	8 3/4	5-1/2"	17.00	L-80	LT&C	New	4105	9.0	1.53		1.89	157,250	135,643	2.49
Production	8773	14557 14557	9875	8 3/4	5-1/2"	17.00	L-80	BT&C	New	4621	9.0	1.36		1.67	8,109	6,995	56.76

15152

Note: Operator may drill a 8-1/2" OH from end of curve to TD of the well. This is to reduce the need to ream the conventionally drilled curve to run a RSS assembly into the lateral.

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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	556	1.75	13.50	972	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		78% Excess			Centralizers per Onshore Order 2.III.B.1f
Intermediate	Lead	1146	1.88	12.90	2153	35:65 (poz/C) + Salt + Bentonite + LCM + retarder, 9.65 gps water
	Tail	288	1.34	14.80	385	Class C + retarder + LCM, 6.32 gps water
	TOC: 0		82% Excess			
Production	Lead	545	2.40	11.90	1307	35:65 (poz/H) + salt + Sodium Metasilicate + Bentonite + Fluid Loss + Dispersant + LCM + Retarder, 13.80 gps water
	Tail	1442	1.24	14.50	1787	50:50 (poz/H) + Bentonite + Salt + Fluid Loss + Dispersant + LCM + Retarder, 5.55 gps water
	TOC: 4720		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: No Pilot KOP: 9,398' EOC: 10,148'

Set Surface and Intermediate casing strings. Drill production hole to KOP. Continue drilling lateral through the curve to TD. Run prod casing & cement.

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.

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11. Proposed Mud Circulating System:

Depth	Mud Weight	Visc	Fluid Loss	Type Mud
0' to 1000' 1040	8.30	28	NC	FW Spud Mud
1000' to 4920' 1050	10.00	30-32	NC	Brine Water
4920' to 13671'	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 4920 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: 4444 psi

Estimated BHT: 159°

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.

U. Avalon (Leonard) pay will be perforated and stimulated.

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



Cimarex

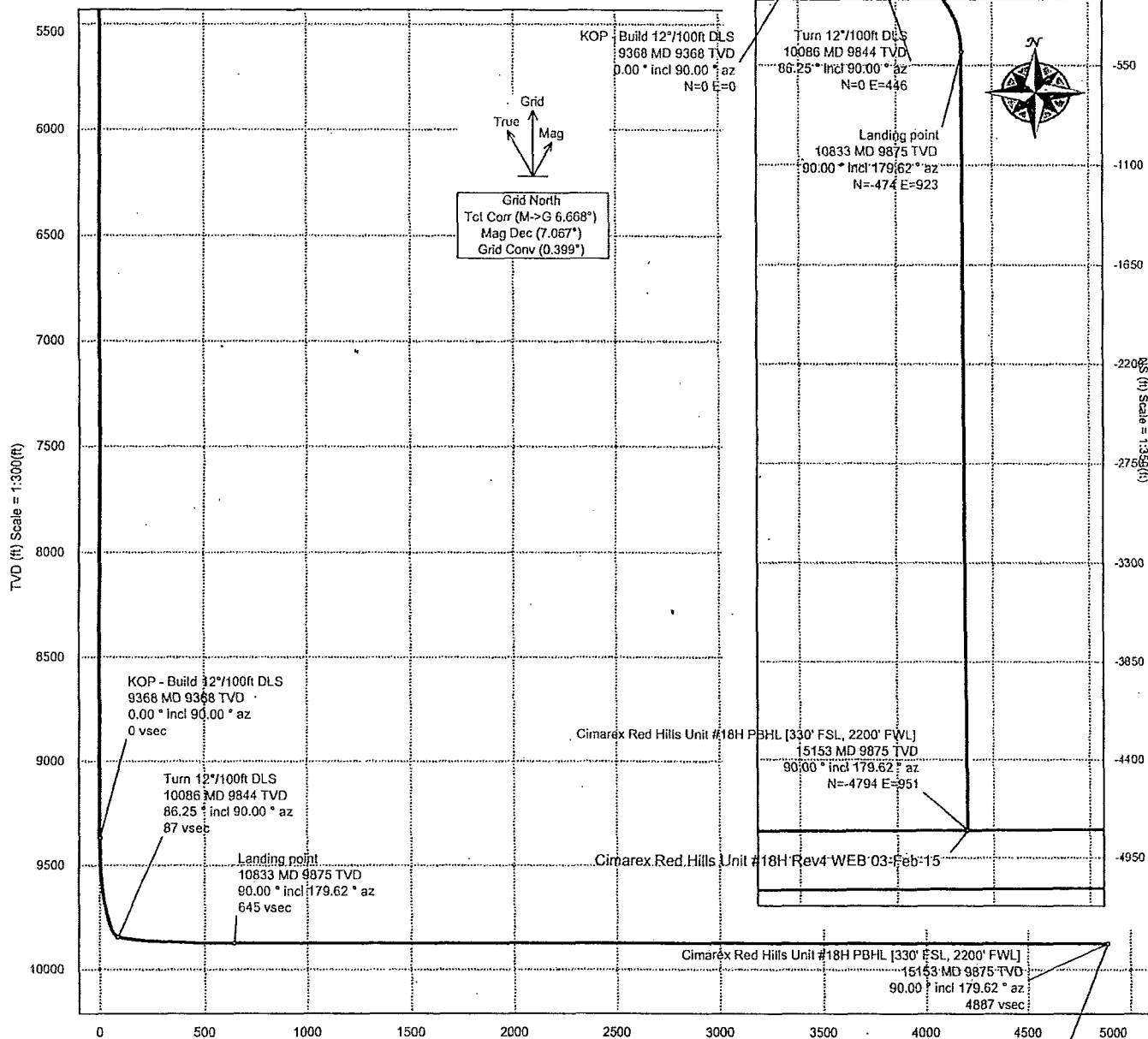


Borehole:	Well:	Field:	Structure:
Original Borehole	Red Hills Unit #18H	NM Lea County (NAD 83)	TBD

Gravity & Magnetic Parameters	Surface Location	Miscellaneous
Model: HDGM 2014 Dip: 59.849° Date: 03-Feb-2015	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Red Hills Unit
MagDec: 7.067° FS: 48195.233mT Gravity FS: 998.436mgm (9.80665 Based)	Lat: N 32 5 38.00 Northing: 398704.411US Grid Conv: 0.3994°	Slot: #18H TVD Ref: Ground Level (3372ft above MSL)
	Lon: W 103 34 53.91 Easting: 774117.711US Scale Fact: 0.99997115	Plan: Rev4 WEB 03-Feb-15

EW (ft) Scale = 1:350(ft)

SHL Cimarex Red Hills Unit #18 [150' FNL, 1280' FWL]
0 MD 0 TVD
0.00° incl 90.00° az
N=0 E=0



Vertical Section (ft) Azim = 168.776° Scale = 1:300(ft) Origin = ON/S, OE/W

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL Cimarex Red Hills Unit #18 [150' FNL, 1280' FWL]	0.00	0.00	90.00	0.00	0.00	0.00	0.00	
KOP - Build 12°/100ft DLS	9367.54	0.00	90.00	9367.54	0.00	0.00	0.00	0.00
KOP - Turn 12°/100ft DLS	10086.29	86.25	90.00	9843.98	86.86	0.00	446.24	12.00
Landing point	10833.13	90.00	179.62	9875.00	644.83	-474.30	922.68	12.00
Cimarex Red Hills Unit #18H PBHL [330' FSL, 2200' FWL]	15152.77	90.00	179.62	9875.00	4887.33	-4793.85	951.33	0.00

CONTROLLED	
Plan ref:	Rev4 WEB 03-Feb-15
Drawing ref:	
Copy number:	1 of 1
Date:	03-Feb-2015
1 Originator	W. Blackman
2 DE Sign-off	
3 Anticorrupt	
4 D&A Line Manager	
5 Client	
Copy number	for



Cimarex Red Hills Unit #18H Rev4 WEB 03-Feb-15 Proposal Geodetic Report 100' Interpolated (Non-Def Plan)



Report Date: February 03, 2015 - 04:07 PM
Client: Cimarex
Field: NM Lea County (NAD 83)
Structure / Slot: Cimarex Red Hills Unit #18H / Red Hills Unit #18H
Well: Cimarex Red Hills Unit #18H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Cimarex Red Hills Unit #18H Rev4 WEB 03-Feb-15
Survey Date: February 03, 2015
Tort / AHD / DDI / ERD Ratio: 175.871 ° / 5511.919 ft / 6.172 / 0.558
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 5' 37.99517", W 103° 34' 53.91489"
Location Grid N/E Y/X: N 398704.400 ftUS, E 774117.700 ftUS
CRS Grid Convergence Angle: 0.3994 °
Grid Scale Factor: 0.99997115
Version / Patch: 2.7.1043.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 168.776 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: Ground Level
TVD Reference Elevation: 3372.000 ft above MSL
Seabed / Ground Elevation: 3372.000 ft above MSL
Magnetic Declination: 7.067 °
Total Gravity Field Strength: 998.4363mgm (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48195.233 nT
Magnetic Dip Angle: 59.849 °
Declination Date: February 03, 2015
Magnetic Declination Model: HDGM 2014
North Reference: Grid North
Grid Convergence Used: 0.3994 °
Total Corr Mag North->Grid North: 6.6674 °
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL Cimarex Red Hills Unit #18 [150' FNL, 1280' FWL]	0.00	0.00	90.00	0.00	0.00	0.00	0.00	N/A	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	100.00	0.00	90.00	100.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	200.00	0.00	90.00	200.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	300.00	0.00	90.00	300.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	400.00	0.00	90.00	400.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	500.00	0.00	90.00	500.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	600.00	0.00	90.00	600.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	700.00	0.00	90.00	700.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	800.00	0.00	90.00	800.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	900.00	0.00	90.00	900.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	1000.00	0.00	90.00	1000.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	1100.00	0.00	90.00	1100.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	1200.00	0.00	90.00	1200.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	1300.00	0.00	90.00	1300.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	1400.00	0.00	90.00	1400.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	1500.00	0.00	90.00	1500.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	1600.00	0.00	90.00	1600.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	1700.00	0.00	90.00	1700.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	1800.00	0.00	90.00	1800.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	1900.00	0.00	90.00	1900.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	2000.00	0.00	90.00	2000.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	2100.00	0.00	90.00	2100.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	2200.00	0.00	90.00	2200.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	2300.00	0.00	90.00	2300.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	2400.00	0.00	90.00	2400.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	2500.00	0.00	90.00	2500.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	2600.00	0.00	90.00	2600.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	2700.00	0.00	90.00	2700.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	2800.00	0.00	90.00	2800.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	2900.00	0.00	90.00	2900.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	3000.00	0.00	90.00	3000.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	3100.00	0.00	90.00	3100.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	3200.00	0.00	90.00	3200.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	3300.00	0.00	90.00	3300.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	3400.00	0.00	90.00	3400.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	3500.00	0.00	90.00	3500.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	3600.00	0.00	90.00	3600.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	3700.00	0.00	90.00	3700.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	3800.00	0.00	90.00	3800.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	3900.00	0.00	90.00	3900.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	4000.00	0.00	90.00	4000.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	4100.00	0.00	90.00	4100.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	4200.00	0.00	90.00	4200.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	4300.00	0.00	90.00	4300.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	4400.00	0.00	90.00	4400.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	4500.00	0.00	90.00	4500.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	4600.00	0.00	90.00	4600.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	4700.00	0.00	90.00	4700.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	4800.00	0.00	90.00	4800.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	4900.00	0.00	90.00	4900.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	5000.00	0.00	90.00	5000.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	5100.00	0.00	90.00	5100.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	5200.00	0.00	90.00	5200.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	5300.00	0.00	90.00	5300.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	5400.00	0.00	90.00	5400.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	5500.00	0.00	90.00	5500.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	5600.00	0.00	90.00	5600.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	5700.00	0.00	90.00	5700.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	5800.00	0.00	90.00	5800.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	5900.00	0.00	90.00	5900.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	6000.00	0.00	90.00	6000.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	6100.00	0.00	90.00	6100.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	6200.00	0.00	90.00	6200.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	6300.00	0.00	90.00	6300.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	6400.00	0.00	90.00	6400.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	6500.00	0.00	90.00	6500.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	6600.00	0.00	90.00	6600.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	6700.00	0.00	90.00	6700.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	6800.00	0.00	90.00	6800.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	6900.00	0.00	90.00	6900.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	7000.00	0.00	90.00	7000.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	7100.00	0.00	90.00	7100.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	7200.00	0.00	90.00	7200.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	7300.00	0.00	90.00	7300.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	7400.00	0.00	90.00	7400.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	7500.00	0.00	90.00	7500.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	7600.00	0.00	90.00	7600.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	7700.00	0.00	90.00	7700.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	7800.00	0.00	90.00	7800.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	7900.00	0.00	90.00	7900.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	8000.00	0.00	90.00	8000.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	8100.00	0.00	90.00	8100.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	8200.00	0.00	90.00	8200.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	8300.00	0.00	90.00	8300.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	8400.00	0.00	90.00	8400.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	8500.00	0.00	90.00	8500.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	8600.00	0.00	90.00	8600.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	8700.00	0.00	90.00	8700.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	8800.00	0.00	90.00	8800.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	8900.00	0.00	90.00	8900.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	9000.00	0.00	90.00	9000.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	9100.00	0.00	90.00	9100.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	9200.00	0.00	90.00	9200.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	9300.00	0.00	90.00	9300.00	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
KOP - Build 12°/100ft DLS	9367.54	0.00	90.00	9367.54	0.00	0.00	0.00	0.00	398704.40	774117.70	N 32 5 38.00	W 103 34 53.91
	9400.00	3.90	90.00	9399.98	0.21	0.00	1.10	12.00	398704.40	774118.80	N 32 5 38.00	W 103 34 53.90
	9500.00	15.90	90.00	9498.31	3.55	0.00	18.26	12.00	398704.40	774135.96	N 32 5 37.99	W 103 34 53.70
	9600.00	27.90	90.00	9590.92	10.80	0.00	55.48	12.00	398704.40	774173.18	N 32 5 37.99	W 103 34 53.27
	9700.00	39.90	90.00	9673.78	21.63	0.00	111.14	12.00	398704.40	774228.84	N 32 5 37.99	W 103 34 52.62
	9800.00	51.90	90.00	9743.25	35.59	0.00	182.82	12.00	398704.40	774300.51	N 32 5 37.98	W 103 34 51.79
	9900.00	63.90	90.00	9796.30	52.04	0.00	267.37	12.00	398704.40	774385.07	N 32 5 37.98	W 103 34 50.81
	10000.00	75.90	90.00	9830.61	70.29	0.00	361.11	12.00	398704.40	774478.80	N 32 5 37.97	W 103 34 49.72
Turn 12°/100ft DLS	10086.29	86.25	90.00	9843.98	86.86	0.00	446.24	12.00	398704.40	774563.92	N 32 5 37.96	W 103 34 48.73
	10100.00	86.25	91.65	9844.88	89.72	-0.20	459.92	12.00	398704.20	774577.60	N 32 5 37.96	W 103 34 48.57
	10200.00	86.36	103.67	9851.34	121.96	-13.48	558.63	12.00	398690.92	774676.32	N 32 5 37.82	W 103 34 47.42
	10300.00	86.63	115.69	9857.48	173.13	-47.03	652.44	12.00	398657.37	774770.12	N 32 5 37.48	W 103 34 46.33
	10400.00	87.05	127.70	9863.01	241.01	-99.40	737.24	12.00	398605.00	774854.91	N 32 5 36.96	W 103 34 45.35
	10500.00	87.59	139.70	9867.71	322.61	-168.30	809.31	12.00	398536.11	774926.99	N 32 5 36.27	W 103 34 44.52
	10600.00	88.24	151.70	9871.36	414.38	-250.70	865.52	12.00	398453.71	774983.20	N 32 5 35.45	W 103 34 43.87
	10700.00	88.97	163.68	9873.80	512.31	-343.02	903.41	12.00	398361.39	775021.08	N 32 5 34.54	W 103 34 43.44
	10800.00	89.74	175.65	9874.93	612.11	-441.21	921.32	12.00	398263.20	775038.99	N 32 5 33.57	W 103 34 43.24
Landing point	10833.13	90.00	179.62	9875.00	644.83	-474.30	922.68	12.00	398230.11	775040.35	N 32 5 33.24	W 103 34 43.23
	10900.00	90.00	179.62	9875.00	710.51	-541.17	923.13	0.00	398163.24	775040.80	N 32 5 32.58	W 103 34 43.23
	11000.00	90.00	179.62	9875.00	808.72	-641.17	923.79	0.00	398063.25	775041.46	N 32 5 31.59	W 103 34 43.23

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	11100.00	90.00	179.62	9875.00	906.94	-741.17	924.45	0.00	397963.25	775042.12	N 32 5 30.60	W 103 34 43.23
	11200.00	90.00	179.62	9875.00	1005.15	-841.17	925.12	0.00	397863.26	775042.79	N 32 5 29.61	W 103 34 43.23
	11300.00	90.00	179.62	9875.00	1103.37	-941.16	925.78	0.00	397763.26	775043.45	N 32 5 28.62	W 103 34 43.23
	11400.00	90.00	179.62	9875.00	1201.58	-1041.16	926.44	0.00	397663.27	775044.11	N 32 5 27.63	W 103 34 43.23
	11500.00	90.00	179.62	9875.00	1299.80	-1141.16	927.11	0.00	397563.28	775044.78	N 32 5 26.64	W 103 34 43.23
	11600.00	90.00	179.62	9875.00	1398.01	-1241.16	927.77	0.00	397463.28	775045.44	N 32 5 25.65	W 103 34 43.23
	11700.00	90.00	179.62	9875.00	1496.22	-1341.16	928.43	0.00	397363.29	775046.10	N 32 5 24.66	W 103 34 43.23
	11800.00	90.00	179.62	9875.00	1594.44	-1441.15	929.09	0.00	397263.29	775046.77	N 32 5 23.67	W 103 34 43.23
	11900.00	90.00	179.62	9875.00	1692.65	-1541.15	929.76	0.00	397163.30	775047.43	N 32 5 22.68	W 103 34 43.23
	12000.00	90.00	179.62	9875.00	1790.87	-1641.15	930.42	0.00	397063.30	775048.09	N 32 5 21.69	W 103 34 43.23
	12100.00	90.00	179.62	9875.00	1889.08	-1741.15	931.08	0.00	396963.31	775048.76	N 32 5 20.70	W 103 34 43.23
	12200.00	90.00	179.62	9875.00	1987.29	-1841.14	931.75	0.00	396863.31	775049.42	N 32 5 19.71	W 103 34 43.23
	12300.00	90.00	179.62	9875.00	2085.51	-1941.14	932.41	0.00	396763.32	775050.08	N 32 5 18.72	W 103 34 43.23
	12400.00	90.00	179.62	9875.00	2183.72	-2041.14	933.07	0.00	396663.32	775050.74	N 32 5 17.73	W 103 34 43.24
	12500.00	90.00	179.62	9875.00	2281.94	-2141.14	933.74	0.00	396563.33	775051.41	N 32 5 16.74	W 103 34 43.24
	12600.00	90.00	179.62	9875.00	2380.15	-2241.14	934.40	0.00	396463.33	775052.07	N 32 5 15.75	W 103 34 43.24
	12700.00	90.00	179.62	9875.00	2478.37	-2341.13	935.06	0.00	396363.34	775052.73	N 32 5 14.76	W 103 34 43.24
	12800.00	90.00	179.62	9875.00	2576.58	-2441.13	935.73	0.00	396263.34	775053.40	N 32 5 13.78	W 103 34 43.24
	12900.00	90.00	179.62	9875.00	2674.79	-2541.13	936.39	0.00	396163.35	775054.06	N 32 5 12.79	W 103 34 43.24
	13000.00	90.00	179.62	9875.00	2773.01	-2641.13	937.05	0.00	396063.35	775054.72	N 32 5 11.80	W 103 34 43.24
	13100.00	90.00	179.62	9875.00	2871.22	-2741.12	937.72	0.00	395963.36	775055.39	N 32 5 10.81	W 103 34 43.24
	13200.00	90.00	179.62	9875.00	2969.44	-2841.12	938.38	0.00	395863.36	775056.05	N 32 5 9.82	W 103 34 43.24
	13300.00	90.00	179.62	9875.00	3067.65	-2941.12	939.04	0.00	395763.37	775056.71	N 32 5 8.83	W 103 34 43.24
	13400.00	90.00	179.62	9875.00	3165.86	-3041.12	939.71	0.00	395663.38	775057.38	N 32 5 7.84	W 103 34 43.24
	13500.00	90.00	179.62	9875.00	3264.08	-3141.12	940.37	0.00	395563.38	775058.04	N 32 5 6.85	W 103 34 43.24
	13600.00	90.00	179.62	9875.00	3362.29	-3241.11	941.03	0.00	395463.39	775058.70	N 32 5 5.86	W 103 34 43.24
	13700.00	90.00	179.62	9875.00	3460.51	-3341.11	941.69	0.00	395363.39	775059.37	N 32 5 4.87	W 103 34 43.24
	13800.00	90.00	179.62	9875.00	3558.72	-3441.11	942.36	0.00	395263.40	775060.03	N 32 5 3.88	W 103 34 43.24
	13900.00	90.00	179.62	9875.00	3656.94	-3541.11	943.02	0.00	395163.40	775060.69	N 32 5 2.89	W 103 34 43.24
	14000.00	90.00	179.62	9875.00	3755.15	-3641.11	943.68	0.00	395063.41	775061.36	N 32 5 1.90	W 103 34 43.24
	14100.00	90.00	179.62	9875.00	3853.36	-3741.10	944.35	0.00	394963.41	775062.02	N 32 5 0.91	W 103 34 43.24
	14200.00	90.00	179.62	9875.00	3951.58	-3841.10	945.01	0.00	394863.42	775062.68	N 32 4 59.92	W 103 34 43.24
	14300.00	90.00	179.62	9875.00	4049.79	-3941.10	945.67	0.00	394763.42	775063.34	N 32 4 58.93	W 103 34 43.24
	14400.00	90.00	179.62	9875.00	4148.01	-4041.10	946.34	0.00	394663.43	775064.01	N 32 4 57.94	W 103 34 43.24
	14500.00	90.00	179.62	9875.00	4246.22	-4141.09	947.00	0.00	394563.43	775064.67	N 32 4 56.95	W 103 34 43.24
	14600.00	90.00	179.62	9875.00	4344.43	-4241.09	947.66	0.00	394463.44	775065.33	N 32 4 55.96	W 103 34 43.24
	14700.00	90.00	179.62	9875.00	4442.65	-4341.09	948.33	0.00	394363.44	775066.00	N 32 4 54.97	W 103 34 43.24
	14800.00	90.00	179.62	9875.00	4540.86	-4441.09	948.99	0.00	394263.45	775066.66	N 32 4 53.98	W 103 34 43.25
	14900.00	90.00	179.62	9875.00	4639.08	-4541.09	949.65	0.00	394163.45	775067.32	N 32 4 52.99	W 103 34 43.25
	15000.00	90.00	179.62	9875.00	4737.29	-4641.08	950.32	0.00	394063.46	775067.99	N 32 4 52.01	W 103 34 43.25
	15100.00	90.00	179.62	9875.00	4835.51	-4741.08	950.98	0.00	393963.47	775068.65	N 32 4 51.02	W 103 34 43.25
Cimarex Red Hills Unit #18H PBHL [330' FSL, 2200' FWL]	15152.77	90.00	179.62	9875.00	4887.33	-4793.85	951.33	0.00	393910.70	775069.00	N 32 4 50.49	W 103 34 43.25

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
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Survey Type: Non-Def Plan

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

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	15152.768	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Red Hills Unit #18H Rev4 WEB 03-Feb-

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

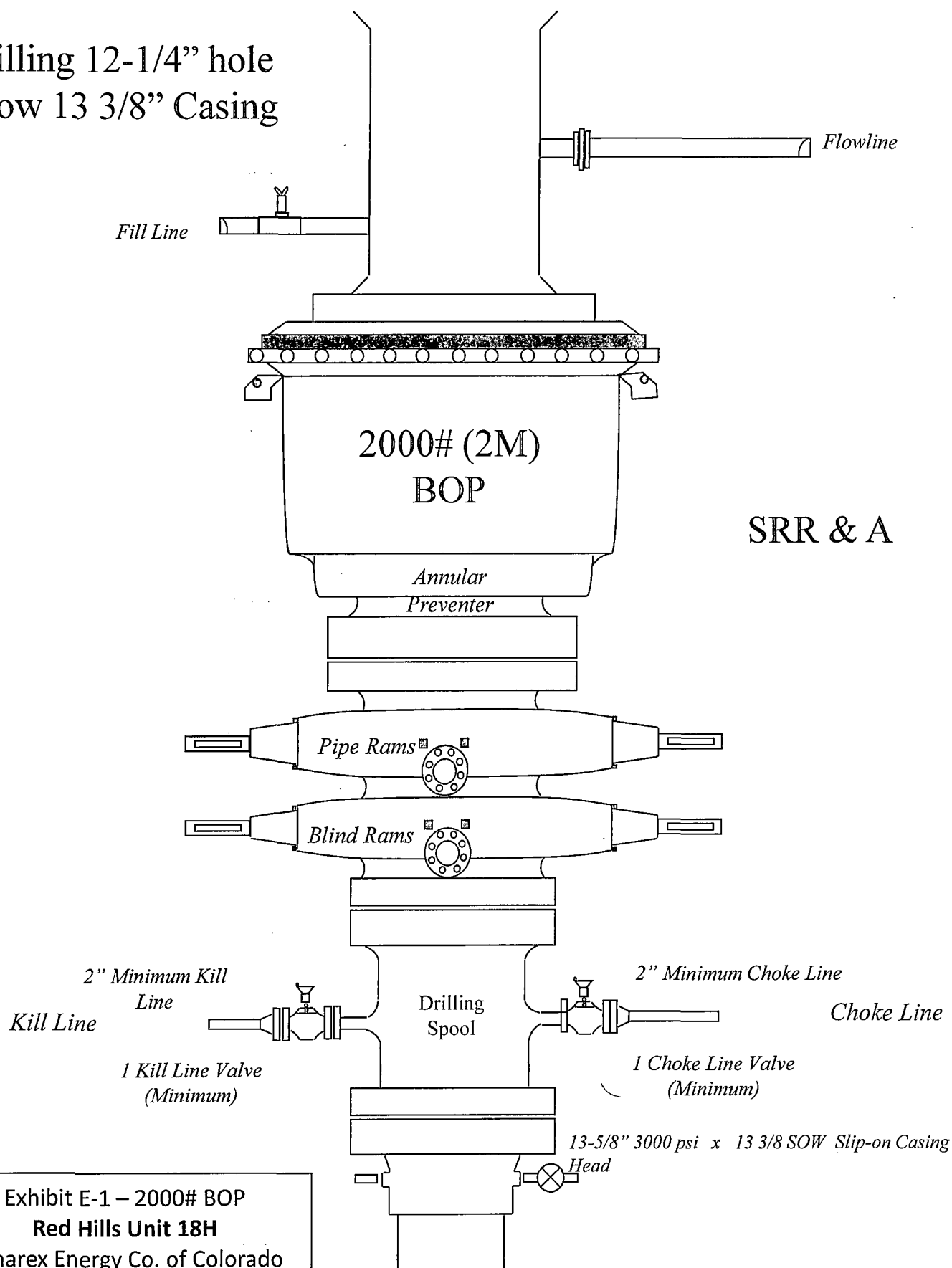


Exhibit E-1 – 2000# BOP
Red Hills Unit 18H
Cimarex Energy Co. of Colorado
33-25S-33E
SHL 150 FNL & 1280 FWL
BHL 330 FSL & 440 FWL
Lea County, NM

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

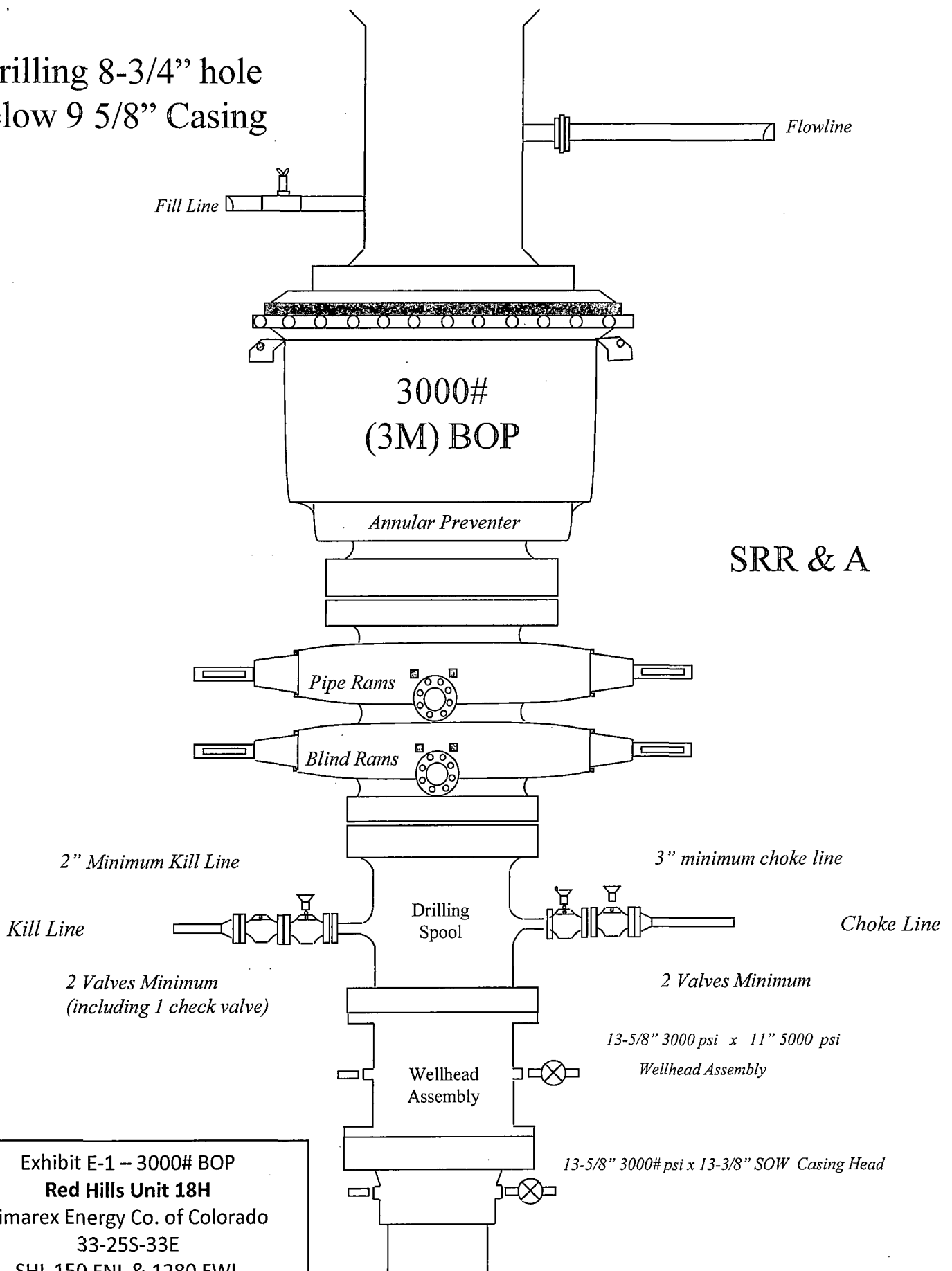
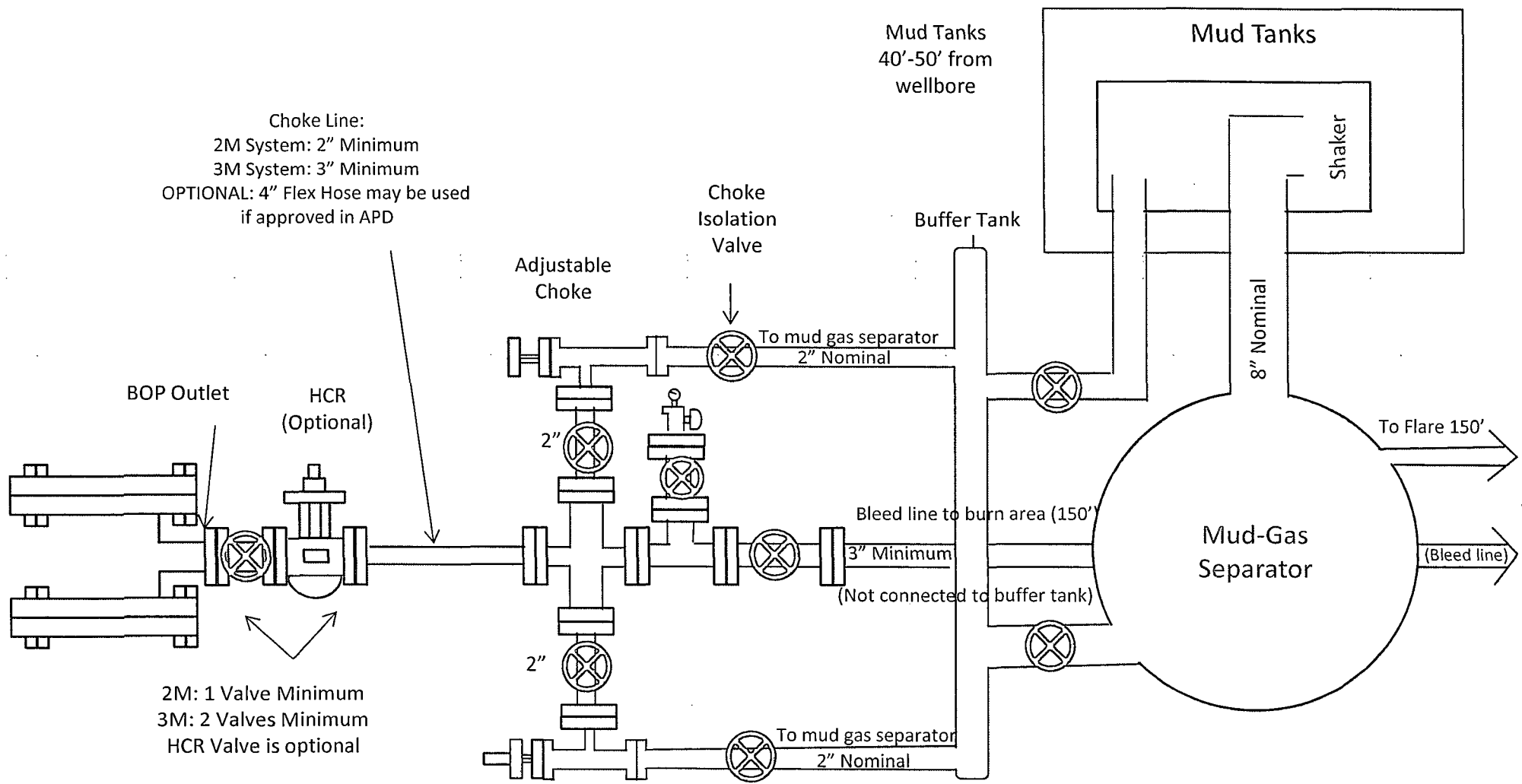


Exhibit E-1 – 3000# BOP
Red Hills Unit 18H
Cimarex Energy Co. of Colorado
33-25S-33E
SHL 150 FNL & 1280 FWL
BHL 330 FSL & 440 FWL
Lea County, NM



Drilling Operations Choke Manifold 2M/3M Service

Exhibit E-1 – Choke Manifold
Diagram
Red Hills Unit 18H
Cimarex Energy Co. of Colorado
33-25S-33E
SHL 150 FNL & 1280 FWL
BHL 330 FSL & 440 FWL
Lea County, NM

Exhibit F – Co-Flex Hose
Red Hills Unit 18H
Cimarex Energy Co. of Colorado
33-25S-33E
SHL 150 FNL & 1280 FWL
BHL 330 FSL & 440 FWL
Lea County, NM

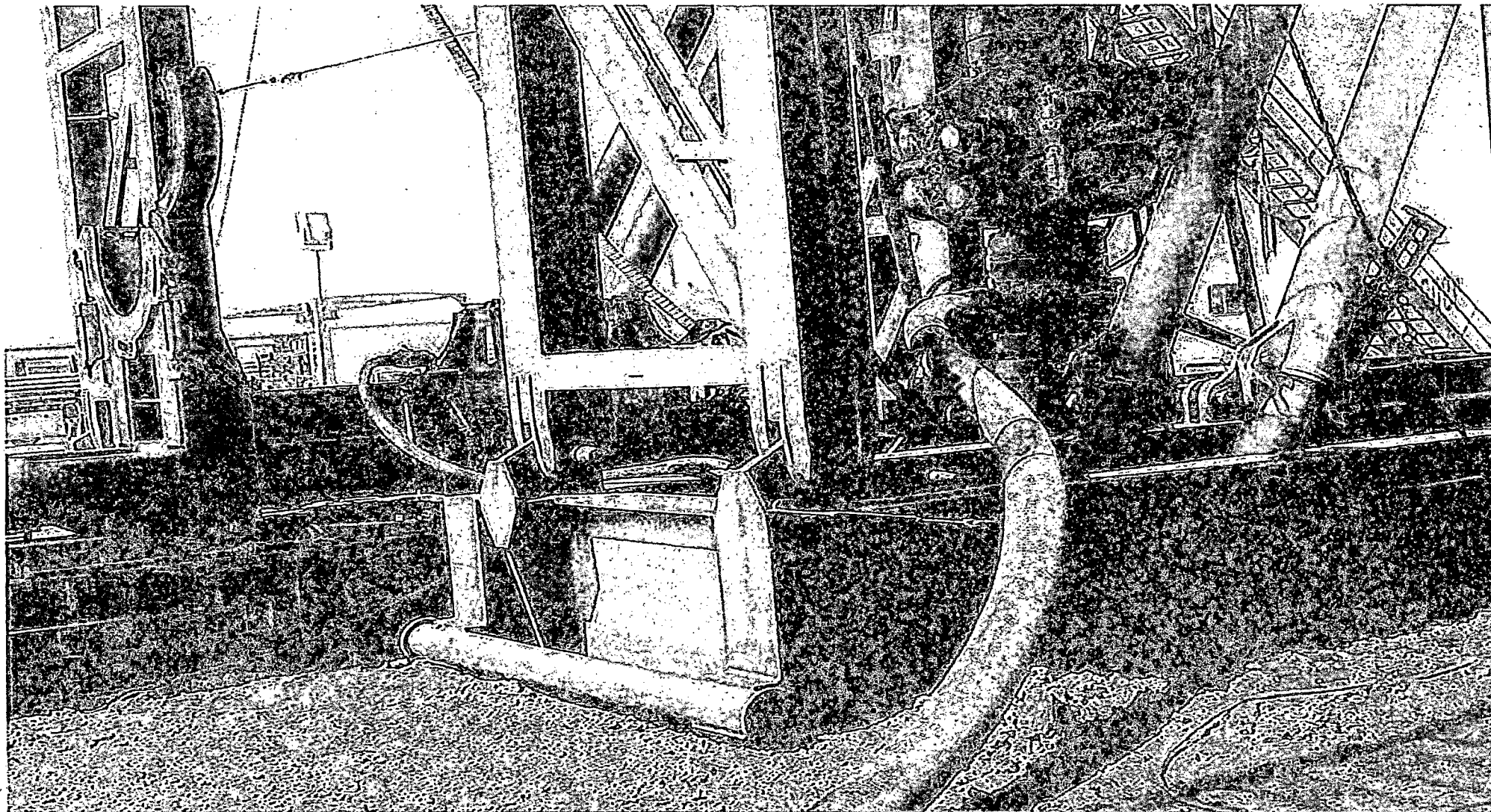


Exhibit F-1 – Co-Flex Hose Hydrostatic Test

Red Hills Unit 18H

Cimarex Energy Co. of Colorado

33-25S-33E

SHL 150 FNL & 1280 FWL

BHL 330 FSL & 440 FWL

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		
<u>Hose assembly pressure tested with water at ambient temperature.</u>		
TIME HELD AT TEST PRESSURE: 15 MIN.		ACTUAL BURST PRESSURE: 0 PSI
Hose Assembly Serial Number: 79793		Hose Serial Number: OKC
Comments:		
Date: 3/8/2011	Tested: <i>A. Jaime Garcia</i>	Approved: <i>Kevin [Signature]</i>



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

Customer: Houston

Pick Ticket #: 94260

Hose Specifications

Hose Type

C&K

Length

45'

I.D.

4"

O.D.

6.09"

Type of Fittings

41/1610K

Die Size

6.39"

Coupling Method

Swage

Final O.D.

6.25"

Hose Serial #

5544

Hose Assembly Serial #

79793

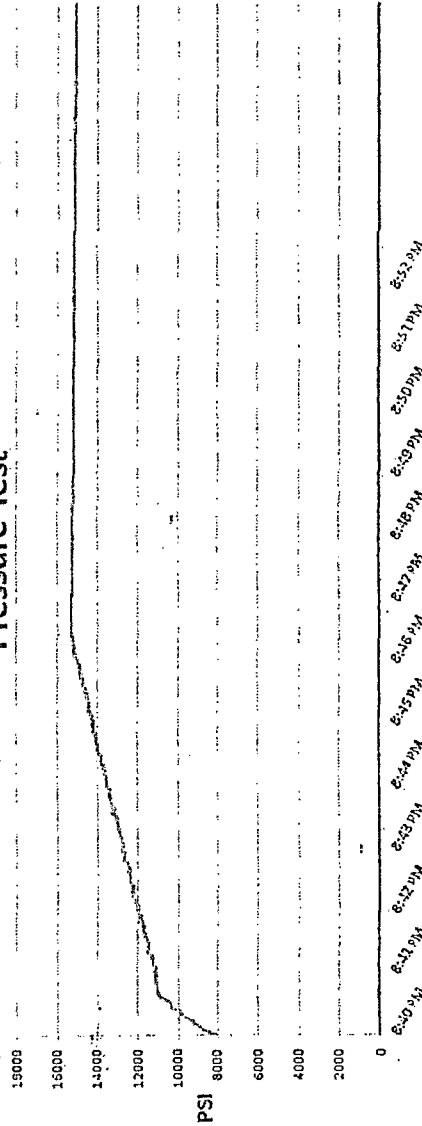
Working Pressure

10000 PSI

Burst Pressure

Standard Safety Multiplier Applies

Pressure Test



Test Pressure
15000 PSI

Time Held at Test Pressure
11 Minutes

Actual Burst Pressure

Peak Pressure
15483 PSI

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

Tested By: Zac McConnell

Approved By: Kim Thomas

Zac McConnell

Kim Thomas

March 3, 2011

Exhibit F-1 – Co-Flex Hose Hydrostatic Test
Red Hills Unit 18H
Cimarex Energy Co. of Colorado
33-25S-33E
SHL 150 FNL & 1280 FWL
BHL 330 FSL & 440 FWL
Lea County, NM

Exhibit F-2 – Co-Flex Hose
Red Hills Unit 18H
Cimarex Energy Co. of Colorado
33-25S-33E
SHL 150 FNL & 1280 FWL
BHL 330 FSL & 440 FWL
Lea County, NM



Midwest Hose & Specialty, Inc.

Certificate of Conformity

Customer:		PO	
DEM		ODYD-271	
SPECIFICATIONS			
Sales Order		Dated:	
79793		3/8/2011	
We hereby certify that the material supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards Supplier: Midwest Hose & Specialty, Inc. 10640 Tanner Road Houston, Texas 77041			
Comments:			
Approved:		Date:	
<i>James Garcia</i>		3/8/2011	

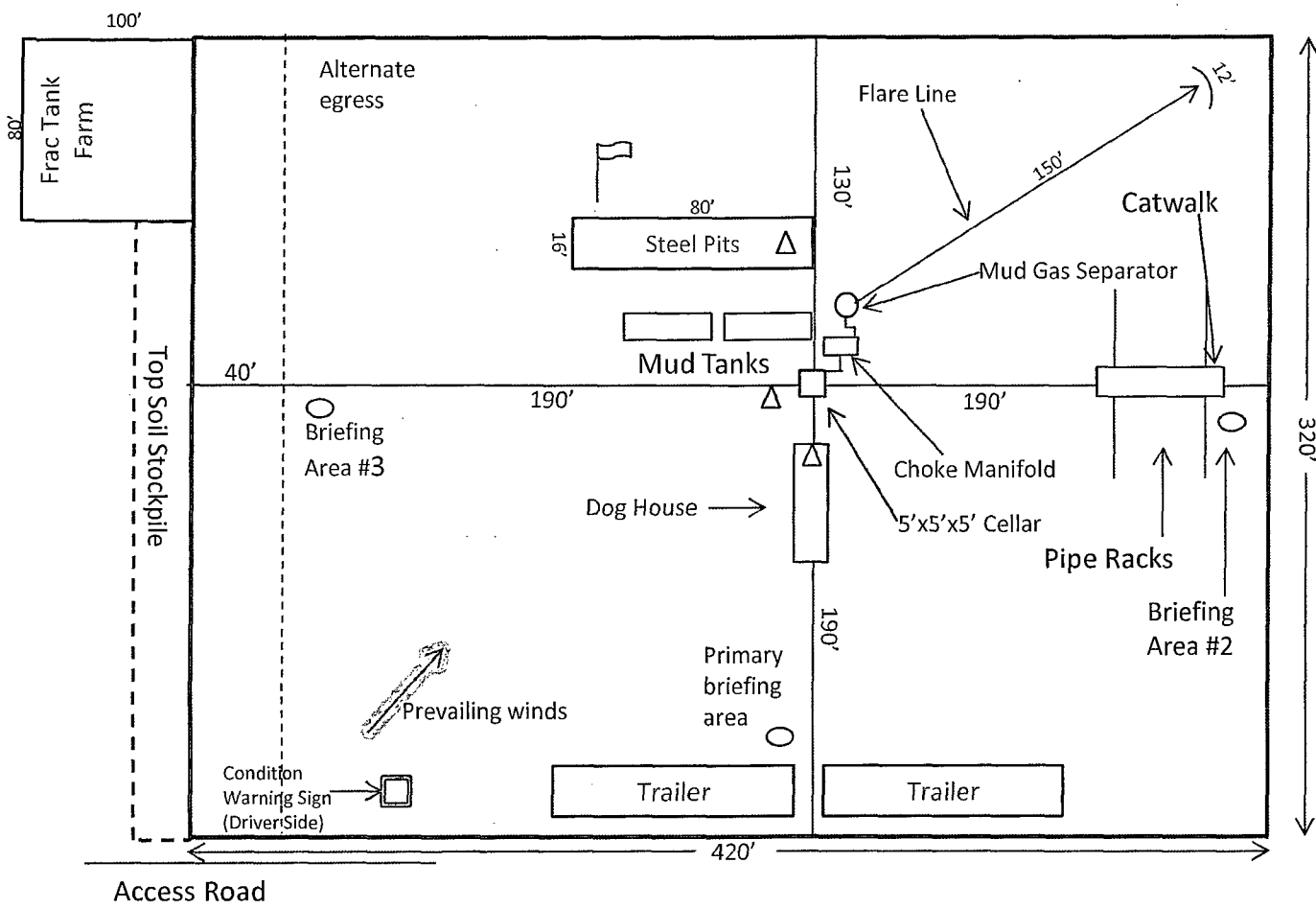


Exhibit F -3- Co-Flex Hose
Red Hills Unit 18H
Cimarex Energy Co. of Colorado
33-25S-33E
SHL 150 FNL & 1280 FWL
BHL 330 FSL & 440 FWL
Lea County, NM

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)



Wind Direction Indicators
(wind sock or streamers)



• H2S Monitors
(alarms at bell nipple and shale shaker)



Briefing Areas



Exhibit D – Rig Diagram
Red Hills Unit 18H
 Cimarex Energy Co. of Colorado.
 33-25S-33E
 SHL 150 FNL & 1280 FWL
 BHL 330 FSL & 440 FWL
 Lea County, NM