

HOBBS OCD

OCD Hobbs

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Form 3160-3
(March 2012)

NOV 02 2014

HOBBS OCD

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCT 31 2014

APPLICATION FOR PERMIT TO DRILL OR REENTER

RECEIVED

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 20145. Lease Serial No.
SHLABHL: NMNM085939

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No. **<313792>**
Colibri Federal #24H

9. API Well No.

30-025-42220

10. Field and Pool, or Exploratory
Barn Spring, Wildcat

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

10, 23S, 32E

12. County or Parish
Lea13. 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

202 S. Cheyenne Ave., Ste 1000, Tulsa, OK 74103

3b. Phone No. (include area code)

918-585-1100

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

At Surface

326' FNL 1749' FWL

Unit C

At proposed prod. Zone

330' FSL 1330' FWL

Unit A

Bone Spring

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

Malaga NM is 24.8 miles southwesterly

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

326

16. No of acres in lease

NMNM085939=640.00 acres

17. Spacing Unit dedicated to this well

200.00

18. Distance from proposed* location to
nearest well, drilling, completed,
applied for, on this lease, ft.30' to the #
25H

19. Proposed Depth

Pilot Hole TD: N/A

14,140 MD

9,700 TVD

20. BLM/BIA Bond No. on File

NM2575: NMB000835

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

3711 GR

22. Approximate date work will start*

7/14/14

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:

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

Name (Printed/Typed)

Terri Stathem

Date

3/19/14

Title

Regulatory Compliance

Approved By (Signature)

James A. Amos

Name (Printed/Typed)

Title

FIELD MANAGER

Office

CARLSBAD FIELD OFFICE

Date

OCT 30 2014

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)

Carlsbad Controlled Water Basin

Approval Subject to General Requirements
& Special Stipulations AttachedSEE ATTACHED FOR
CONDITIONS OF APPROVAL

NOV 01 2014

OCT 31 2014

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In response to questions asked under Section II B of Bulletin NTL-6, the following information is provided for your consideration:

1. Location: SHL 326' FNL 1749' FWL

BHL 330' FSL 1330' FWL

2. Elevation Above Sea Level: 3,711' 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: 14,140 MD 9,700 TVD Pilot Hole TD: N/A

6. Estimated Tops of Geological Markers:

Formation	Est Top	Bearing
Rustler	1160	N/A
Salt	1340	N/A
Castille	3450	N/A
Base Salt	4600	N/A
Lamar	4840	N/A
Bell Canyon	4880	N/A
Cherry Canyon	7025	N/A
Brushy Canyon	7180	N/A
Basal Brushy Canyon	8500	N/A
Bone Spring	8725	Hydrocarbons
Avalon Shale	9490	Hydrocarbons
1st BSS	9885	Hydrocarbons

7. Possible Mineral Bearing Formation: Shown above

7A. OSE Ground Water Estimated Depth: 475'

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	1210	1210	17 1/2	13-3/8"	48.00	H-40	ST&C	New	553	8.8	1.34		3.12	58,080	50,277	6.40
Intermediate	0	4860	4860	12 1/4	9-5/8"	36.00	J-55	LT&C	New	2552	10.1		1.19	1.38	174,960	147,981	3.06
Production	0	9223	9223	8 3/4	5-1/2"	17.00	L-80	LT&C	New	4412	9.2	1.43		1.75	164,900	141,738	2.38
Production	9223	14140	9700	8 3/4	5-1/2"	17.00	L-80	BT&C	New	4640	9.2	1.36		1.67	8,109	6,970	56.96

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.

Application to Drill
Colibri Federal #24H
 Cimarex Energy Co.
 UL: C, Sec. 10, 23S, 32E
 Lea Co., NM

8A. Casing Design and Casing Loading Assumptions:

Surface	Tension	A 1.8 design factor with effects of buoyancy: 8.80 ppg.
	Collapse	A 1.125 design factor with full internal evacuation and a collapse force equal to a 8.80 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: 10.10 ppg.
	Collapse	A 1.125 design factor evacuated 1/3 TVD of next casing string with a collapse force equal to a 10.10 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: 9.20 ppg.
	Collapse	A 1.125 design factor with full internal evacuation of next casing string with a collapse force equal to a 9.20 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	576	1.75	13.50	1008	Class C + Bentonite + Calcium Chloride + LCM, 8.829 gps water
	Tail	157	1.34	14.80	210	Class C + LCM, 6.32 gps water
	TOC: 0		45% Excess		Centralizers per Onshore Order 2.III.B.1f	
Intermediate <i>See COA</i>	Lead	872	1.88	12.90	1638	35:65 (poz/C) + Salt + Bentonite + LCM + retarder, 9.65 gps water
	Tail	284	1.34	14.80	380	Class C + retarder + LCM, 6.32 gps water
	TOC: 0		44% Excess			
Production <i>See COA</i>	Lead	530	2.40	11.90	1271	35:65 (poz/H) + salt + Sodium Metasilicate + Bentonite + Fluid Loss + Dispersant + LCM + Retarder, 13.80 gps water
	Tail	1215	1.24	14.50	1506	50:50 (poz/H) + Bentonite + Salt + Fluid Loss + Dispersant + LCM + Retarder, 5.55 gps water
	TOC: 4660		16% 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: 9,223' EOC: 9,973'

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.

See COA 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.

Application to Drill
Colibri Federal #24H
Cimarex Energy Co.
UL: C, Sec. 10, 23S, 32E
Lea Co., NM

See COA

11. Proposed Mud Circulating System:

Depth	Mud Weight	Visc	Fluid Loss	Type Mud
0' to 1250'	8.30 - 8.80	28	NC	FW Spud Mud
1210' to 4860'	9.60 - 10.10	30-32	NC	Brine Water
4860' to 14140'	8.70 - 9.20	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 4860 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: 4365 psi

Estimated BHT: 158°

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:

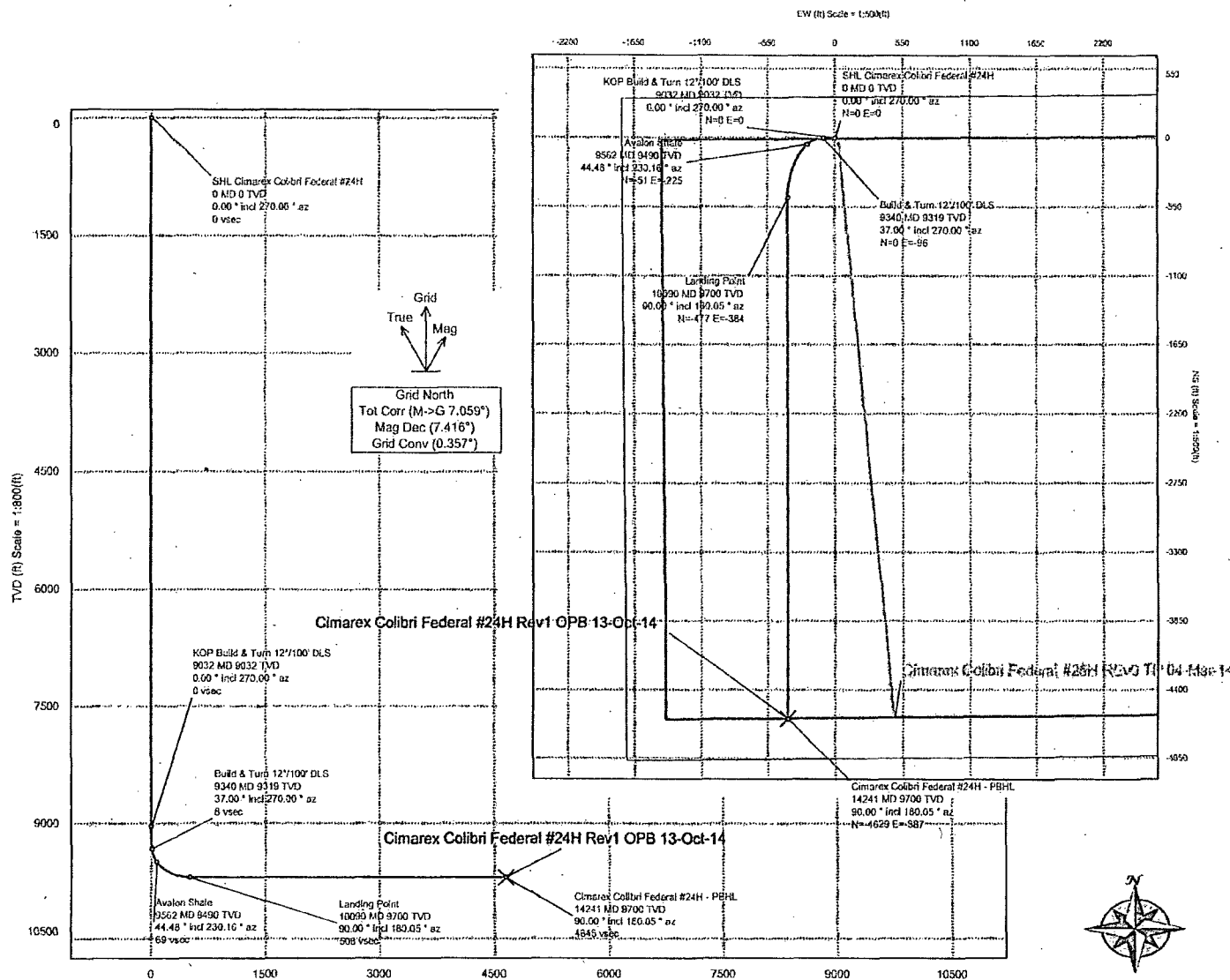
If production casing is run an additional 30 days will be required to complete and construct surface facilities.

Bone Spring pay will be perforated and stimulated.

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

Borehole:	Well:	Field:	Structure:
Original Borehole	Colibri Federal #24H	NM Lea County (NAD 83)	TBD

Gravity & Magnetic Parameters	Surface Location	Miscellaneous
Model: BGGM 2013 Dip: 68.183° Date: 04-Mar-2014	Lat: N 32 10 31.92 Northings: 482804.1810 US Grid Conv: 0.3572°	Slot: Colibri Federal #24H TVD Ref: Unknown (3711ft above NSL)
MagDec: 7.416° FS: 45173.461nT Gravity FS: 938.694mgals (9.86655 Based)	Long: W 193 39 55.51 Eastings: 747650.3800 US Scale Fact: 0.99995784	Plan: Cimarex Colibri Federal #24H Rev1 OPB 13-Oct-14



Vertical Section (ft) Azim = 184.78° Scale = 1:800 (ft) Origin = QN-S, 0E-W

Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL Cimarex Colibri Federal #24H	0.00	0.00	270.00	0.00	0.00	0.00	0.00	
KOP Build & Turn 12°/100' DLS	9031.50	0.00	270.00	9031.50	0.00	0.00	0.00	0.00
Build & Turn 12°/100' DLS	9339.83	37.00	270.00	9318.85	8.01	0.00	-96.14	12.00
Avalon Shale	9562.11	44.48	230.16	9490.00	69.39	-50.81	-225.16	12.00
Landing Point	10089.64	90.00	180.04	9700.00	507.57	-477.26	-383.74	12.00
Cimarex Colibri Federal #24H - PBHL	14241.47	90.00	180.05	9700.00	4645.25	-4629.09	-387.07	0.00



Cimarex Colibri Federal #24H Rev1 OPB 13-Oct-14 Proposal Report

(Non-Def Plan)

Report Date: October 13, 2014 - 11:41 AM
Client: NM Lea County (NAD 83)
Field: TBD / Colibri Federal #24H
Structure / Slot: Colibri Federal #24H
Well: Original Borehole
Borehole: Unknown / Unknown
UWI / API#: Cimarex Colibri Federal #24H Rev1 OPB 13-Oct-14
Survey Name: March 04, 2014
Survey Date: 126.975 * / 4857.867 ft / 5.957 / 0.501
Tort / AHD / DDI / ERD Ratio: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Coordinate Reference System: N 32° 19' 31.91926", W 103° 39' 55.50544"
Location Lat / Long: N 482804.180 ftUS, E 747650.380 ftUS
Location Grid N/E Y/X: 0.3572 °
CRS Grid Convergence Angle: 0.99995784
Grid Scale Factor: 2.7.1043.0
Version / Patch:

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 184.780 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: Unknown
TVD Reference Elevation: 3711.000 ft above MSL
Seabed / Ground Elevation: 3711.000 ft above MSL
Magnetic Declination: 7.416 °
Total Gravity Field Strength: 998.6945mgn (9.80665 Based)
Gravity Model: DOX
Total Magnetic Field Strength: 48373.461 nT
Magnetic Dip Angle: 60.183 °
Declination Date: March 04, 2014
Magnetic Declination Model: BGGM 2013
North Reference: Grid North
Grid Convergence Used: 0.3572 °
Total Corr Mag North->Grid North: 7.0585 °
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	DLS (°/100ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL Cimarex Colibri Federal #24H	0.00	0.00	270.00	0.00	-3711.00	0.00	N/A	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	100.00	0.00	270.00	100.00	-3811.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	200.00	0.00	270.00	200.00	-3511.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	300.00	0.00	270.00	300.00	-3411.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	400.00	0.00	270.00	400.00	-3311.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	500.00	0.00	270.00	500.00	-3211.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	600.00	0.00	270.00	600.00	-3111.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	700.00	0.00	270.00	700.00	-3011.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	800.00	0.00	270.00	800.00	-2911.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	900.00	0.00	270.00	900.00	-2811.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	1000.00	0.00	270.00	1000.00	-2711.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	1100.00	0.00	270.00	1100.00	-2611.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	1200.00	0.00	270.00	1200.00	-2511.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	1300.00	0.00	270.00	1300.00	-2411.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	1400.00	0.00	270.00	1400.00	-2311.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	1500.00	0.00	270.00	1500.00	-2211.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	1600.00	0.00	270.00	1600.00	-2111.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	1700.00	0.00	270.00	1700.00	-2011.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	1800.00	0.00	270.00	1800.00	-1911.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	1900.00	0.00	270.00	1900.00	-1811.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	2000.00	0.00	270.00	2000.00	-1711.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	2100.00	0.00	270.00	2100.00	-1611.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	2200.00	0.00	270.00	2200.00	-1511.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	2300.00	0.00	270.00	2300.00	-1411.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	2400.00	0.00	270.00	2400.00	-1311.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	2500.00	0.00	270.00	2500.00	-1211.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	DLS (*/100ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	2600.00	0.00	270.00	2600.00	-1111.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	2700.00	0.00	270.00	2700.00	-1011.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	2800.00	0.00	270.00	2800.00	-911.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	2900.00	0.00	270.00	2900.00	-811.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	3000.00	0.00	270.00	3000.00	-711.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	3100.00	0.00	270.00	3100.00	-611.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	3200.00	0.00	270.00	3200.00	-511.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	3300.00	0.00	270.00	3300.00	-411.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	3400.00	0.00	270.00	3400.00	-311.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	3500.00	0.00	270.00	3500.00	-211.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	3600.00	0.00	270.00	3600.00	-111.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	3700.00	0.00	270.00	3700.00	-11.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	3800.00	0.00	270.00	3800.00	89.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	3900.00	0.00	270.00	3900.00	189.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	4000.00	0.00	270.00	4000.00	289.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	4100.00	0.00	270.00	4100.00	389.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	4200.00	0.00	270.00	4200.00	489.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	4300.00	0.00	270.00	4300.00	589.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	4400.00	0.00	270.00	4400.00	689.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	4500.00	0.00	270.00	4500.00	789.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	4600.00	0.00	270.00	4600.00	889.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	4700.00	0.00	270.00	4700.00	989.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	4800.00	0.00	270.00	4800.00	1089.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	4900.00	0.00	270.00	4900.00	1189.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	5000.00	0.00	270.00	5000.00	1289.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	5100.00	0.00	270.00	5100.00	1389.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	5200.00	0.00	270.00	5200.00	1489.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	5300.00	0.00	270.00	5300.00	1589.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	5400.00	0.00	270.00	5400.00	1689.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	5500.00	0.00	270.00	5500.00	1789.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	5600.00	0.00	270.00	5600.00	1889.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	5700.00	0.00	270.00	5700.00	1989.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	5800.00	0.00	270.00	5800.00	2089.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	5900.00	0.00	270.00	5900.00	2189.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	6000.00	0.00	270.00	6000.00	2289.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	6100.00	0.00	270.00	6100.00	2389.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	6200.00	0.00	270.00	6200.00	2489.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	6300.00	0.00	270.00	6300.00	2589.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	6400.00	0.00	270.00	6400.00	2689.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	6500.00	0.00	270.00	6500.00	2789.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	6600.00	0.00	270.00	6600.00	2889.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	6700.00	0.00	270.00	6700.00	2989.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	6800.00	0.00	270.00	6800.00	3089.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	6900.00	0.00	270.00	6900.00	3189.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	7000.00	0.00	270.00	7000.00	3289.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	7100.00	0.00	270.00	7100.00	3389.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	7200.00	0.00	270.00	7200.00	3489.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	7300.00	0.00	270.00	7300.00	3589.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	7400.00	0.00	270.00	7400.00	3689.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	7500.00	0.00	270.00	7500.00	3789.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	7600.00	0.00	270.00	7600.00	3889.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	7700.00	0.00	270.00	7700.00	3989.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	7800.00	0.00	270.00	7800.00	4089.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	DLS (°/100ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	7900.00	0.00	270.00	7900.00	4189.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	8000.00	0.00	270.00	8000.00	4289.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	8100.00	0.00	270.00	8100.00	4389.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	8200.00	0.00	270.00	8200.00	4489.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	8300.00	0.00	270.00	8300.00	4589.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	8400.00	0.00	270.00	8400.00	4689.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	8500.00	0.00	270.00	8500.00	4789.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	8600.00	0.00	270.00	8600.00	4889.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	8700.00	0.00	270.00	8700.00	4989.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	8800.00	0.00	270.00	8800.00	5089.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	8900.00	0.00	270.00	8900.00	5189.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	9000.00	0.00	270.00	9000.00	5289.00	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
KOP Build & Turn 12°/100' DLS	9031.50	0.00	270.00	9031.50	5320.50	0.00	0.00	0.00	0.00	482804.18	747650.38	N 32 19 31.92	W 103 39 55.51
	9100.00	8.22	270.00	9099.77	5388.77	0.41	12.00	0.00	-4.91	482804.18	747645.47	N 32 19 31.92	W 103 39 55.56
	9200.00	20.22	270.00	9196.52	5485.52	2.45	12.00	0.00	-29.42	482804.18	747620.96	N 32 19 31.92	W 103 39 55.85
	9300.00	32.22	270.00	9286.07	5575.07	6.13	12.00	0.00	-73.53	482804.18	747576.86	N 32 19 31.92	W 103 39 56.36
Build & Turn 12°/100' DLS	9339.83	37.00	270.00	9318.85	5607.85	8.01	12.00	0.00	-96.14	482804.18	747554.24	N 32 19 31.93	W 103 39 56.63
	9400.00	37.60	258.11	9366.77	5655.77	14.79	12.00	-3.79	-132.26	482800.39	747518.13	N 32 19 31.89	W 103 39 57.05
	9500.00	41.06	239.92	9444.36	5733.36	42.41	12.00	-26.61	-190.75	482777.57	747459.64	N 32 19 31.67	W 103 39 57.73
Avalon Shale	9562.11	44.48	230.16	9490.00	5779.00	69.39	12.00	-50.81	-225.16	482753.37	747425.23	N 32 19 31.43	W 103 39 58.13
	9600.00	46.94	224.81	9518.47	5805.47	89.33	12.00	-69.14	-245.12	482735.04	747405.27	N 32 19 31.25	W 103 39 58.37
	9700.00	54.43	212.66	9579.93	5868.93	153.48	12.00	-129.52	-292.99	482674.67	747357.41	N 32 19 30.66	W 103 39 58.93
	9800.00	62.92	202.71	9631.97	5920.97	232.07	12.00	-205.10	-332.26	482599.09	747318.13	N 32 19 29.91	W 103 39 59.39
	9900.00	72.01	194.21	9670.32	5959.32	321.67	12.00	-292.58	-361.23	482511.61	747289.17	N 32 19 29.05	W 103 39 59.74
	10000.00	81.43	186.57	9693.30	5982.30	418.35	12.00	-388.15	-378.62	482416.05	747271.78	N 32 19 28.10	W 103 39 59.95
Landing Point	10089.64	90.00	180.05	9700.00	5989.00	507.57	12.00	-477.26	-383.74	482326.94	747266.66	N 32 19 27.22	W 103 40 0.01
	10100.00	90.00	180.05	9700.00	5989.00	517.90	0.00	-487.62	-383.75	482316.58	747266.65	N 32 19 27.12	W 103 40 0.01
	10200.00	90.00	180.05	9700.00	5989.00	617.56	0.00	-587.62	-383.83	482216.58	747266.57	N 32 19 26.13	W 103 40 0.02
	10300.00	90.00	180.05	9700.00	5989.00	717.22	0.00	-687.62	-383.91	482116.59	747266.49	N 32 19 25.14	W 103 40 0.03
	10400.00	90.00	180.05	9700.00	5989.00	816.88	0.00	-787.62	-383.98	482016.59	747266.41	N 32 19 24.15	W 103 40 0.04
	10500.00	90.00	180.05	9700.00	5989.00	916.54	0.00	-887.62	-384.06	481916.60	747266.33	N 32 19 23.16	W 103 40 0.05
	10600.00	90.00	180.05	9700.00	5989.00	1016.20	0.00	-987.62	-384.14	481816.60	747266.26	N 32 19 22.17	W 103 40 0.05
	10700.00	90.00	180.05	9700.00	5989.00	1115.85	0.00	-1087.62	-384.22	481716.61	747266.18	N 32 19 21.18	W 103 40 0.06
	10800.00	90.00	180.05	9700.00	5989.00	1215.51	0.00	-1187.62	-384.30	481616.61	747266.10	N 32 19 20.19	W 103 40 0.07
	10900.00	90.00	180.05	9700.00	5989.00	1315.17	0.00	-1287.62	-384.38	481516.62	747266.02	N 32 19 19.20	W 103 40 0.08
	11000.00	90.00	180.05	9700.00	5989.00	1414.83	0.00	-1387.62	-384.46	481416.62	747265.94	N 32 19 18.21	W 103 40 0.09
	11100.00	90.00	180.05	9700.00	5989.00	1514.49	0.00	-1487.62	-384.54	481316.62	747265.86	N 32 19 17.22	W 103 40 0.09
	11200.00	90.00	180.05	9700.00	5989.00	1614.15	0.00	-1587.62	-384.62	481216.63	747265.78	N 32 19 16.23	W 103 40 0.10
	11300.00	90.00	180.05	9700.00	5989.00	1713.81	0.00	-1687.62	-384.70	481116.63	747265.70	N 32 19 15.24	W 103 40 0.11
	11400.00	90.00	180.05	9700.00	5989.00	1813.47	0.00	-1787.62	-384.78	481016.64	747265.62	N 32 19 14.25	W 103 40 0.12
	11500.00	90.00	180.05	9700.00	5989.00	1913.12	0.00	-1887.62	-384.86	480916.64	747265.54	N 32 19 13.27	W 103 40 0.13
	11600.00	90.00	180.05	9700.00	5989.00	2012.78	0.00	-1987.62	-384.93	480816.65	747265.46	N 32 19 12.28	W 103 40 0.14
	11700.00	90.00	180.05	9700.00	5989.00	2112.44	0.00	-2087.62	-385.01	480716.65	747265.38	N 32 19 11.29	W 103 40 0.14
	11800.00	90.00	180.05	9700.00	5989.00	2212.10	0.00	-2187.62	-385.09	480616.66	747265.30	N 32 19 10.30	W 103 40 0.15
	11900.00	90.00	180.05	9700.00	5989.00	2311.76	0.00	-2287.62	-385.17	480516.66	747265.22	N 32 19 9.31	W 103 40 0.16
	12000.00	90.00	180.05	9700.00	5989.00	2411.42	0.00	-2387.62	-385.25	480416.66	747265.14	N 32 19 8.32	W 103 40 0.17
	12100.00	90.00	180.05	9700.00	5989.00	2511.08	0.00	-2487.62	-385.33	480316.67	747265.06	N 32 19 7.33	W 103 40 0.18
	12200.00	90.00	180.05	9700.00	5989.00	2610.74	0.00	-2587.62	-385.41	480216.67	747264.98	N 32 19 6.34	W 103 40 0.18
	12300.00	90.00	180.05	9700.00	5989.00	2710.40	0.00	-2687.62	-385.49	480116.68	747264.90	N 32 19 5.35	W 103 40 0.19
	12400.00	90.00	180.05	9700.00	5989.00	2810.05	0.00	-2787.62	-385.57	480016.68	747264.82	N 32 19 4.36	W 103 40 0.20

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	DLS (°/100ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	12500.00	90.00	180.05	9700.00	5989.00	2909.71	0.00	-2887.62	-385.66	479916.69	747264.74	N 32 19 3.37	W 103 40 0.21
	12600.00	90.00	180.05	9700.00	5989.00	3009.37	0.00	-2987.62	-385.74	479816.69	747264.66	N 32 19 2.38	W 103 40 0.22
	12700.00	90.00	180.05	9700.00	5989.00	3109.03	0.00	-3087.62	-385.82	479716.70	747264.58	N 32 19 1.39	W 103 40 0.23
	12800.00	90.00	180.05	9700.00	5989.00	3208.69	0.00	-3187.62	-385.90	479616.70	747264.50	N 32 19 0.40	W 103 40 0.23
	12900.00	90.00	180.05	9700.00	5989.00	3308.35	0.00	-3287.62	-385.98	479516.70	747264.42	N 32 18 59.41	W 103 40 0.24
	13000.00	90.00	180.05	9700.00	5989.00	3408.01	0.00	-3387.62	-386.06	479416.71	747264.34	N 32 18 58.42	W 103 40 0.25
	13100.00	90.00	180.05	9700.00	5989.00	3507.67	0.00	-3487.62	-386.14	479316.71	747264.26	N 32 18 57.43	W 103 40 0.26
	13200.00	90.00	180.05	9700.00	5989.00	3607.33	0.00	-3587.62	-386.22	479216.72	747264.18	N 32 18 56.44	W 103 40 0.27
	13300.00	90.00	180.05	9700.00	5989.00	3706.98	0.00	-3687.62	-386.30	479116.72	747264.10	N 32 18 55.45	W 103 40 0.27
	13400.00	90.00	180.05	9700.00	5989.00	3806.64	0.00	-3787.62	-386.38	479016.73	747264.02	N 32 18 54.47	W 103 40 0.28
	13500.00	90.00	180.05	9700.00	5989.00	3906.30	0.00	-3887.62	-386.46	478916.73	747263.93	N 32 18 53.48	W 103 40 0.29
	13600.00	90.00	180.05	9700.00	5989.00	4005.96	0.00	-3987.62	-386.54	478816.74	747263.85	N 32 18 52.49	W 103 40 0.30
	13700.00	90.00	180.05	9700.00	5989.00	4105.62	0.00	-4087.62	-386.63	478716.74	747263.77	N 32 18 51.50	W 103 40 0.31
	13800.00	90.00	180.05	9700.00	5989.00	4205.28	0.00	-4187.62	-386.71	478616.74	747263.69	N 32 18 50.51	W 103 40 0.32
	13900.00	90.00	180.05	9700.00	5989.00	4304.94	0.00	-4287.62	-386.79	478516.75	747263.61	N 32 18 49.52	W 103 40 0.32
	14000.00	90.00	180.05	9700.00	5989.00	4404.60	0.00	-4387.62	-386.87	478416.75	747263.53	N 32 18 48.53	W 103 40 0.33
	14100.00	90.00	180.05	9700.00	5989.00	4504.26	0.00	-4487.62	-386.95	478316.76	747263.45	N 32 18 47.54	W 103 40 0.34
	14200.00	90.00	180.05	9700.00	5989.00	4603.92	0.00	-4587.62	-387.03	478216.76	747263.36	N 32 18 46.55	W 103 40 0.35
Cimarex Colibri Federal #24H - PBHL	14241.47	90.00	180.05	9700.00	5989.00	4645.25	0.00	-4629.09	-387.07	478175.29	747263.33	N 32 18 46.14	W 103 40 0.35

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	9506.436	1/100.000	30.000	30.000	SLB_MWD-POOR	Original Borehole / Cimarex Colibri Federal #24H Rev1 OPB 13-Oct-
	1	9506.436	14241.475	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Colibri Federal #24H Rev1 OPB 13-Oct-

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

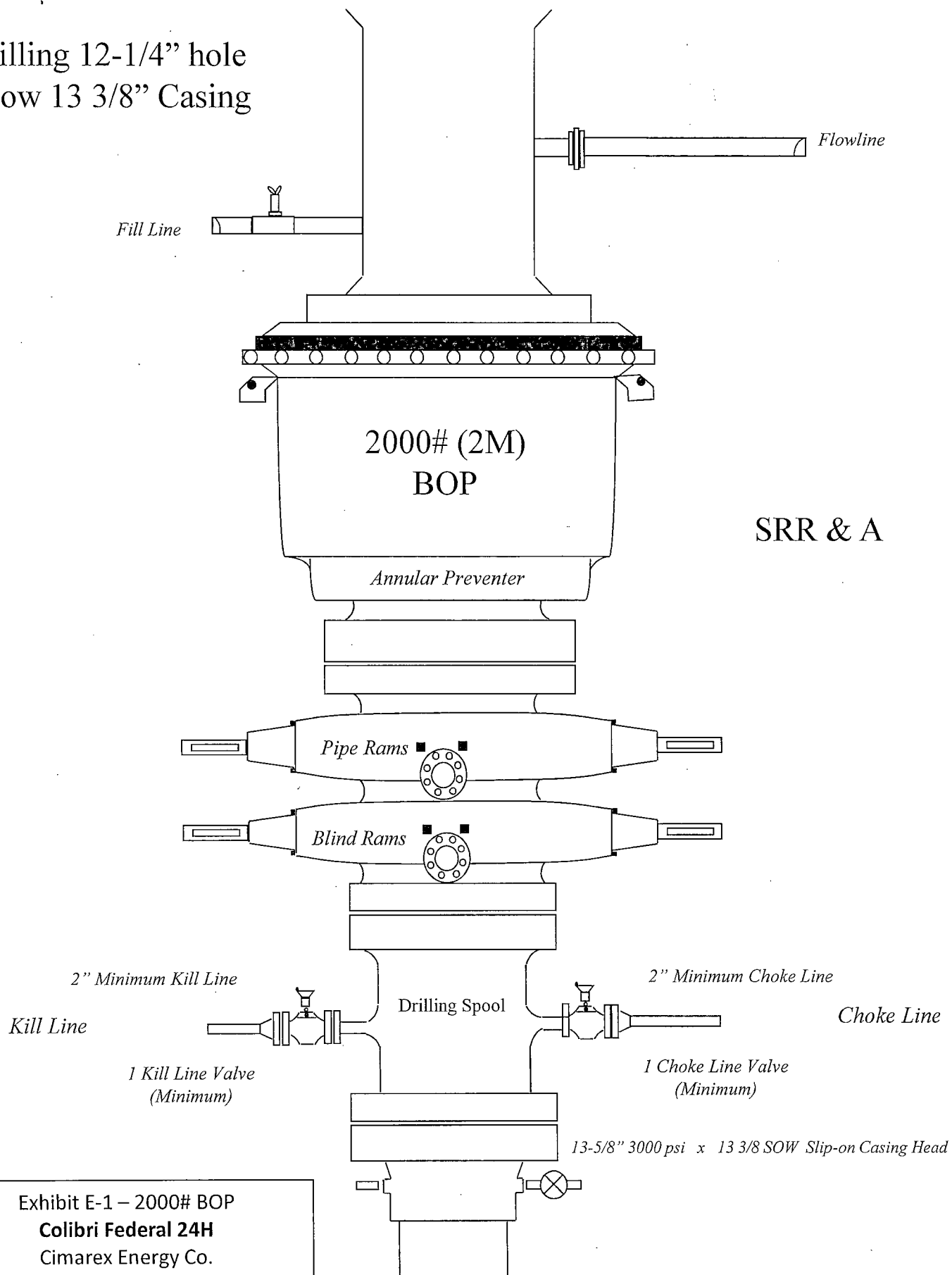


Exhibit E-1 – 2000# BOP
Colibri Federal 24H
Cimarex Energy Co.
10-23S-32E
SHL 326 FNL & 1749 FWL
BHL 330 FSL & 1330FWL
Lea County, NM

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

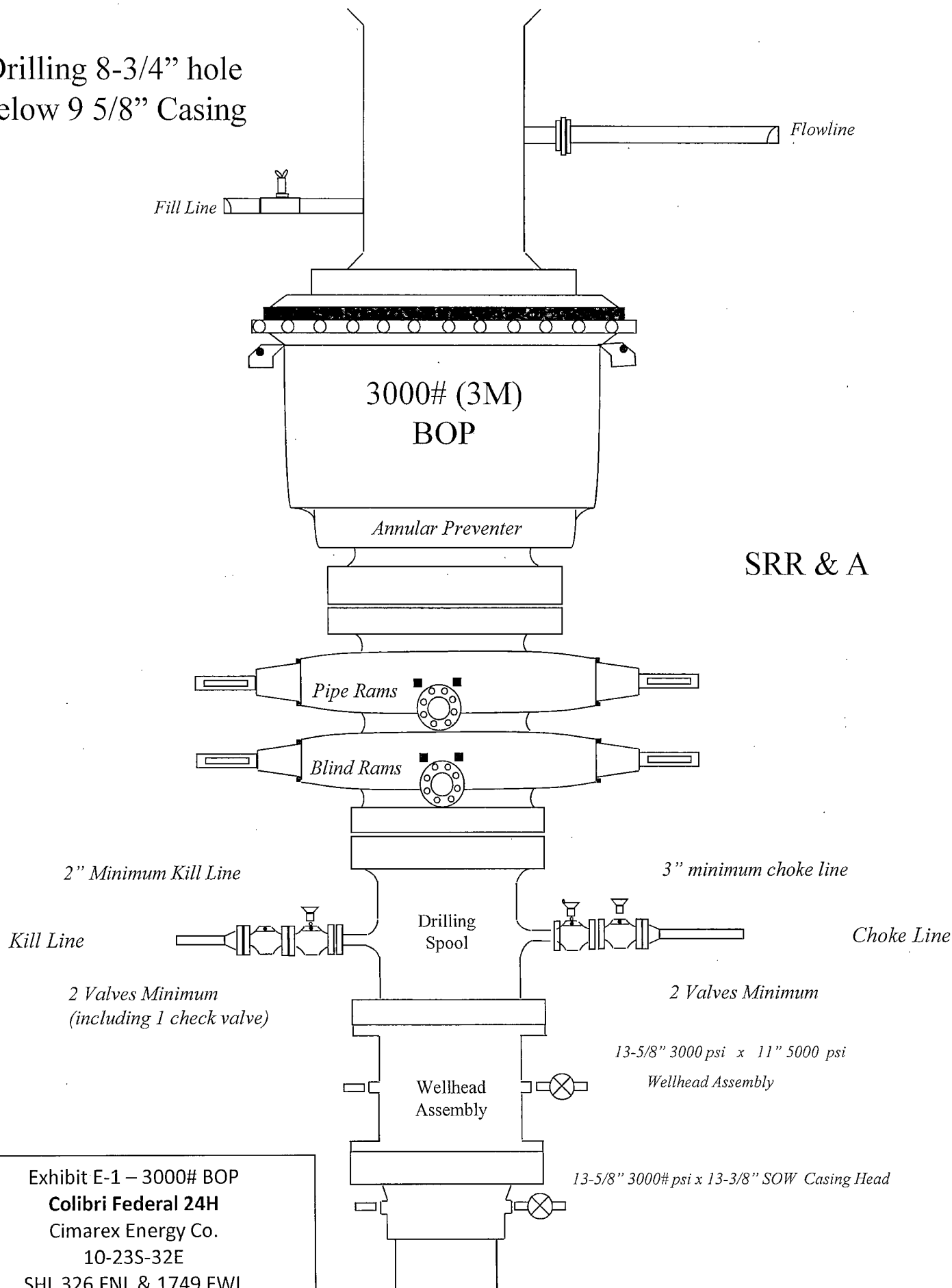
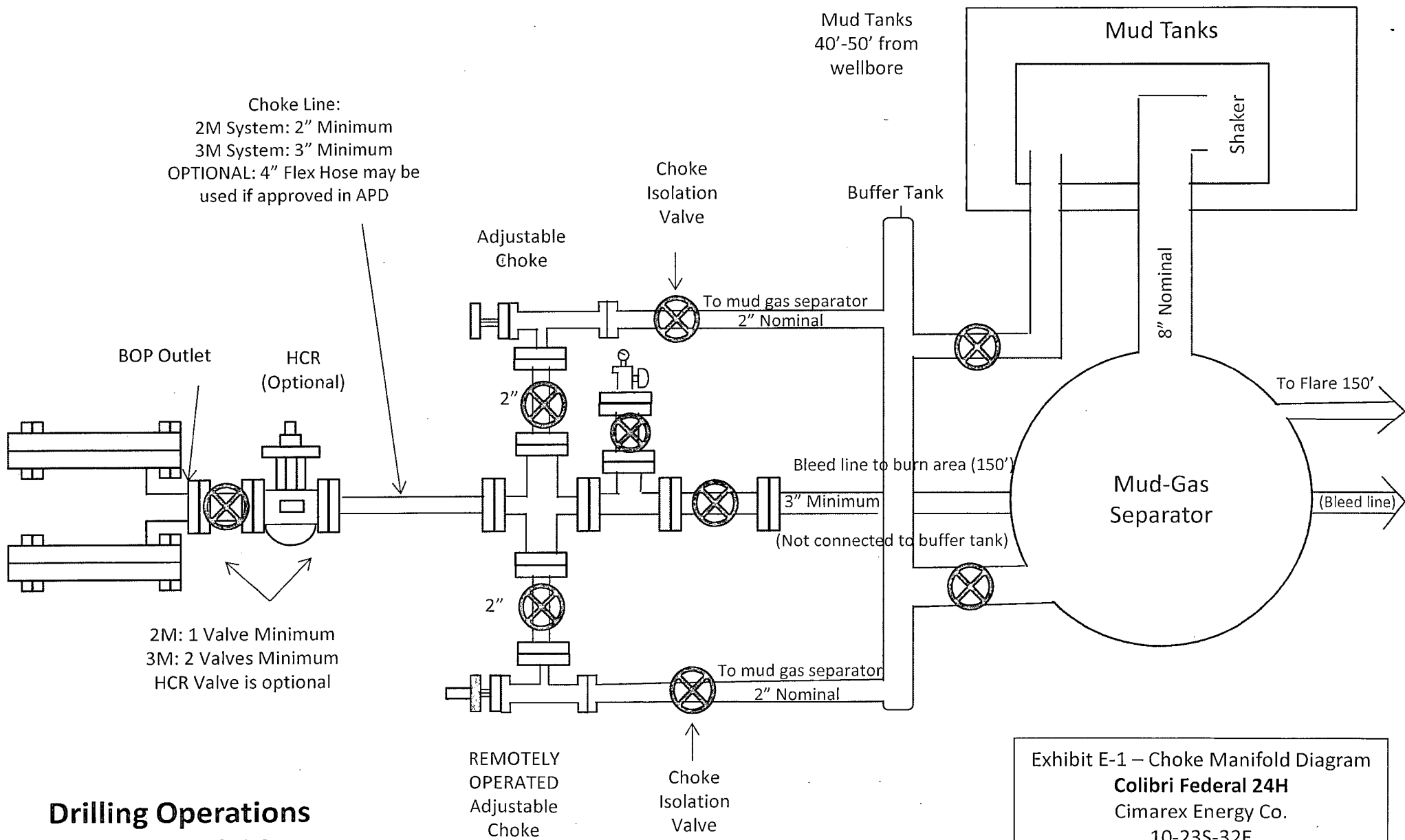


Exhibit E-1 – 3000# BOP
Colibri Federal 24H
Cimarex Energy Co.
10-23S-32E
SHL 326 FNL & 1749 FWL
BHL 330 FSL & 1330FWL
Lea County, NM

Choke Line:
 2M System: 2" Minimum
 3M System: 3" Minimum
 OPTIONAL: 4" Flex Hose may be
 used if approved in APD



Drilling Operations Choke Manifold 2M/3M Service

Exhibit E-1 – Choke Manifold Diagram
Colibri Federal 24H
 Cimarex Energy Co.
 10-23S-32E
 SHL 326 FNL & 1749 FWL
 BHL 330 FSL & 1330FWL
 Lea County, NM

Exhibit F-1 – Co-Flex Hose Hydrostatic Test

Colibri Federal 24H

Cimarex Energy Co.

10-23S-32E

SHL 326 FNL & 1749 FWL

BHL 330 FSL & 1330FWL

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. Garcia</i>		Approved: <i>Kevin</i>

March 3, 2011

Internal Hydrostatic Test Graph

Customer: Houston

Pick Ticket #: 94260



Midwest Hose
& Specialty, Inc.

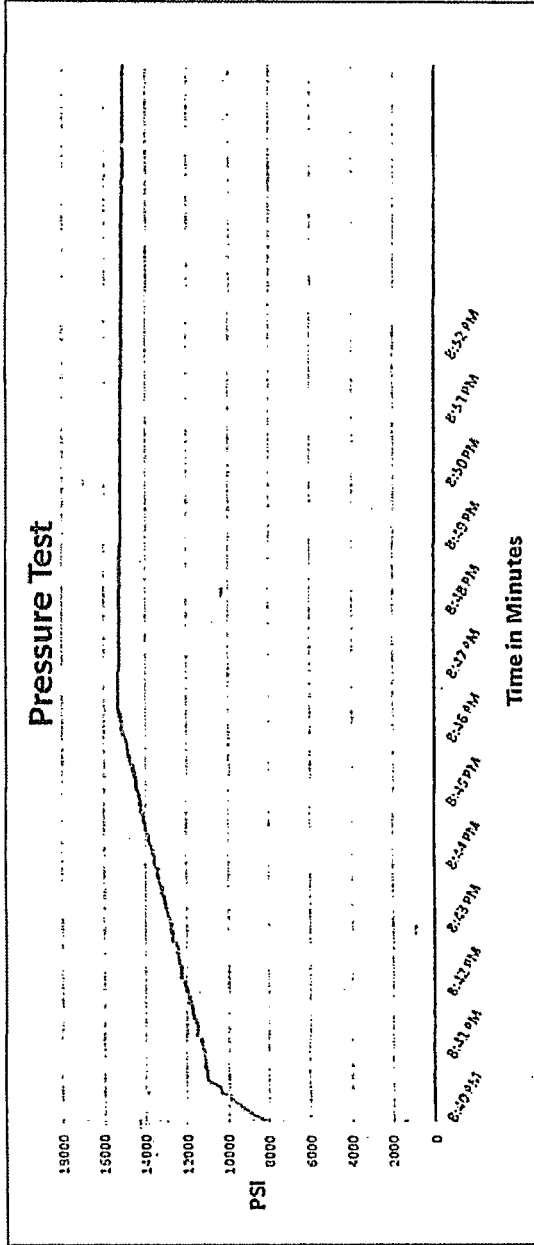
Hose Specifications

Hose Type: C&K
Length: 25'
ID: 4"
OD: 6.09"
Working Pressure: 10000 PSI
Burst Pressure: Standard Safety Multiplier Applies

Verification

Type of Fittings: 41/16 10K
Die Size: 6.38"
Hose Serial #: 5544
Coupling Method: Swage
Final O.D.: 6.25"
Hose Assembly Serial #: 79793

Exhibit F-1 – Co-Flex Hose Hydrostatic Test
Colibri Federal 24H
Cimarex Energy Co.
10-23S-32E
SHL 326 FNL & 1749 FWL
BHL 330 FSL & 1330FWL
Lea County, NM



Test Pressure: 15000 PSI
Time Held at Test Pressure: 11 Minutes
Actual Burst Pressure: 15483 PSI
Peak Pressure: 15483 PSI

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

Tested By: Zac McConnell

Approved By: Kim Thomas

[Signature]

[Signature]

Lea County, NM



Midwest Hose & Specialty, Inc.

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: <i>James Garcia</i>	Date: 3/8/2011	



Midwest Hose
& Specialty, Inc.

Exhibit F -3- Co-Flex Hose
Colibri Federal 24H
Cimarex Energy Co.
10-23S-32E
SHL 326 FNL & 1749 FWL
BHL 330 FSL & 1330FWL
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)

Exhibit F – Co-Flex Hose

Colibri Federal 24H

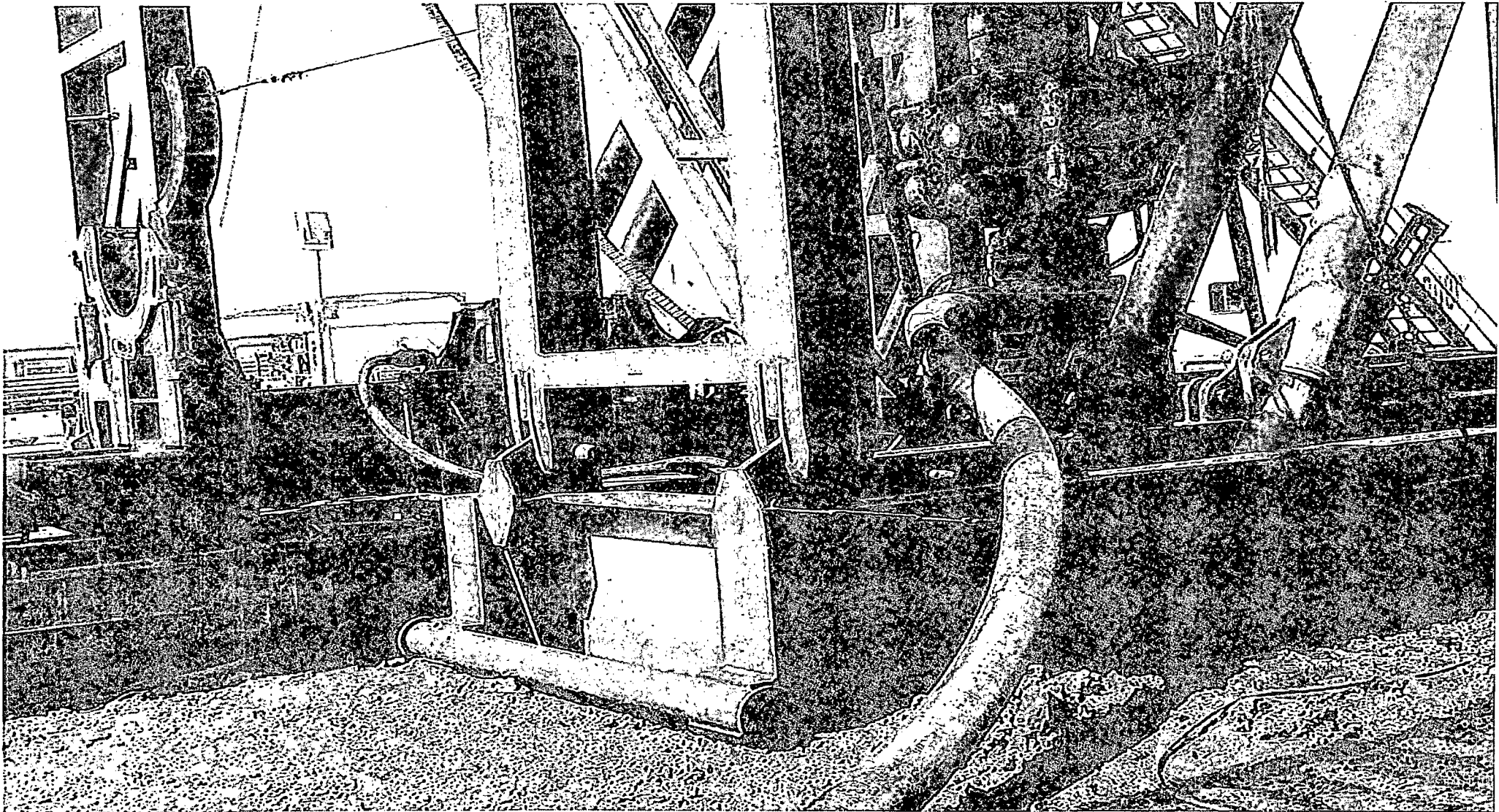
Cimarex Energy Co.

10-23S-32E

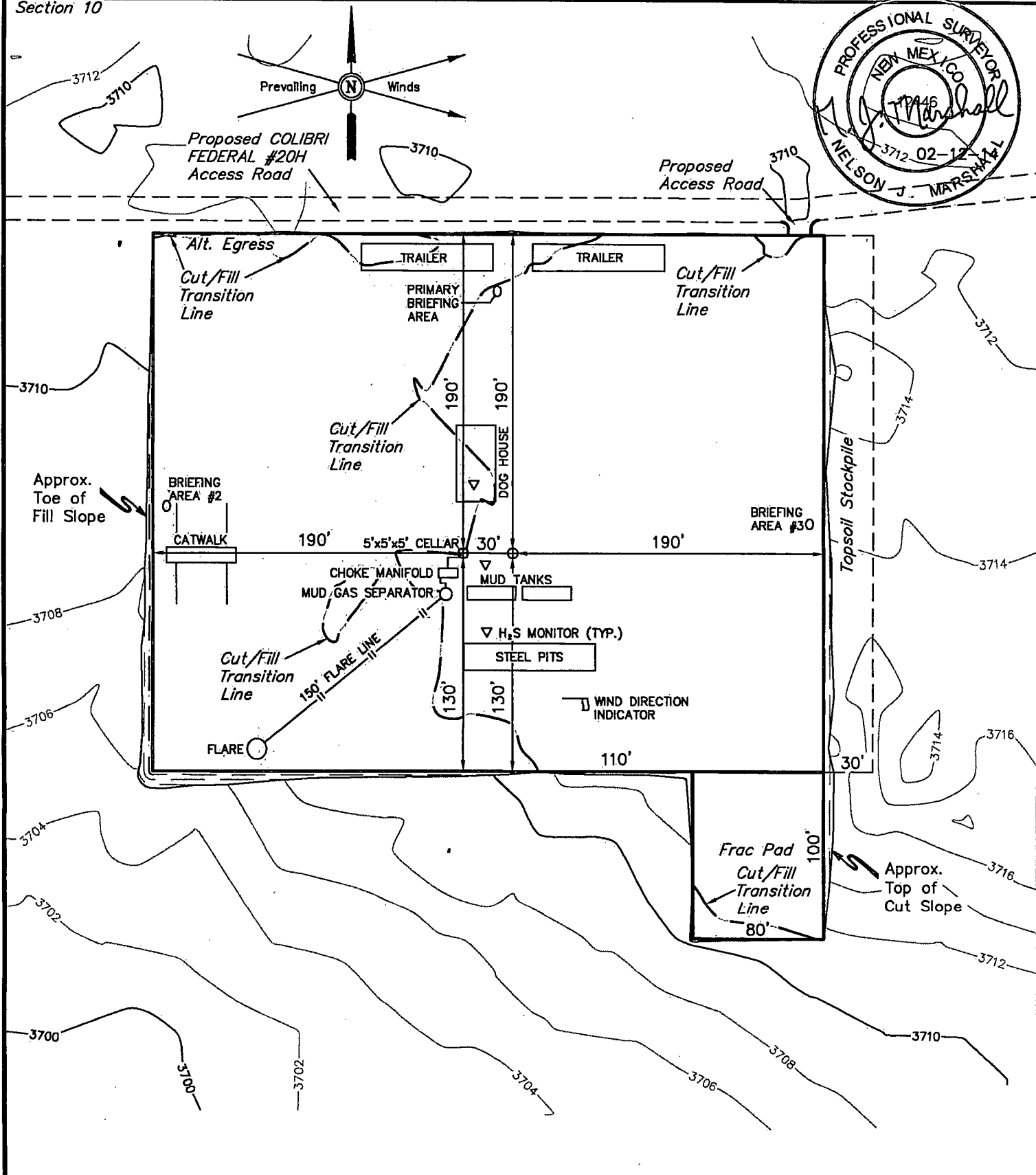
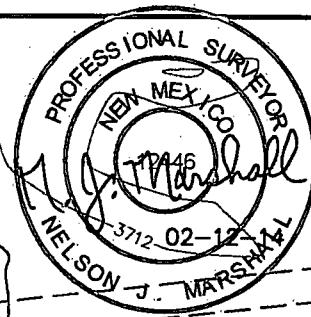
SHL 326 FNL & 1749 FWL

BHL 330 FSL & 1330FWL

Lea County, NM



Section 3
Section 10



NOTES:

- Flare pit is to be located a min. of 160' from the well head.



CIMAREX ENERGY CO.

COLIBRI FEDERAL #24H
SECTION 10, T23S, R32E, N.M.P.M.
NE 1/4 NW 1/4

DRAWN BY: B.D.H.

SCALE: 1" = 80'

DATE: 01-13-14

REVISED: 02-12-14

TYPICAL RIG LAYOUT

EXHIBIT D



Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

Operator Certification Statement

Colibri Federal #24H

Cimarex Energy Co.
UL: C, Sec. 10, 23S, 32E
Lea Co., NM

HOBBS OCD

OCT 31 2014

RECEIVED

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 19 day of March, 2014

NAME:

Aricka Easterling
Aricka Easterling

TITLE: Regulatory Compliance

ADDRESS: 202 S. Cheyenne Ave., Ste 1000, Tulsa, OK 74103

TELEPHONE: 918-585-1100

EMAIL: AEasterling@cimarex.com

Field Representative: Same as above