

HOBBS OCD

OCD Hobbs

JUL 07 2014

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

RECEIVED

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 20145. Lease Serial No.
SHL: NMNM077062; BHL: NMNM058940

85940

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No.

Urraca Federal Com 22H

(313460)

9. API Well No.

30-025-41948

10. Field and Pool, or Exploratory
Bone Spring

(17644)

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

11, 23S, 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.

<215099>

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

440' FNL 1643' FWL

(C)

At proposed prod. Zone

330' FSL 2200' FWL

(N)

Bone Spring

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

Malaga, NM is +/- 25.7 miles Southwesterly

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

440

16. No of acres in lease

NMNM077062=280.00 acres
NMNM058940=240.00 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.29' to the #
21H

19. Proposed Depth

Pilot Hole TD: N/A

14,042 MD

9,700 TVD

20. BLM/BIA Bond No. on File

NM2575; NMB000835

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

3714 GR

22. Approximate date work will start*

4/15/14

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

Aricka Easterling

Name (Printed/Typed)

Aricka Easterling

Date

2/26/14

Title

Regulatory Compliance

Approved By (Signature)

Steve Caffey

Name (Printed/Typed)

CARLSBAD FIELD OFFICE

Date

JUL 2 - 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)

Carlsbad Controlled Water Basin

Approval Subject to General Requirements
& Special Stipulations AttachedSEE ATTACHED FOR
CONDITIONS OF APPROVAL
JUL 09 2014

Pm

Operator Certification Statement

Urraca Federal Com 22H

Cimarex Energy Co.

UL: C, Sec. 11, 23S, 32E

Lea Co., NM

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 26 day of February, 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

BEGINNING AT THE INTERSECTION OF JAL HIGHWAY/ HWY 128 AND AN EXISTING ROAD TO THE NORTHEAST LOCATED IN THE SE 1/4 OF SECTION 1, T24S, R31E, N.M.P.M. PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 5.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 1.4 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY, THEN NORTHERLY DIRECTION APPROXIMATELY 1.5 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE CULIBRI FEDERAL #20H TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 1,345' TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY DIRECTION APPROXIMATELY 15' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM THE INTERSECTION OF JAL HIGHWAY/ HWY 128 AND AN EXISTING ROAD TO THE NORTHEAST LOCATED IN THE SE 1/4 OF SECTION 1, T24S, R31E, HIGHWAY/ HWY 128 TO THE PROPOSED LOCATION IS APPROXIMATELY 8.8 MILES.

DRAWN BY: L.S.	REVISED: 00-00-00	
DATE DRAWN: 12-09-13		



URRACA FEDERAL COM #21H & #22H
SECTION 11, T23S, R32E, N.M.P.M.
NE 1/4 NW 1/4

ROAD DESCRIPTION

EXHIBIT J



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

Application to Drill
Urraca Federal Com 22H
 Cimarex Energy Co.
 UL: C, Sec. 11, 23S, 32E
 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 440' FNL 1643' FWL
 BHL 330' FSL 2200' FWL

2. Elevation Above Sea Level: 3,714' 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: 14,042 MD 9,700 TVD Pilot Hole TD: N/A

6. Estimated Tops of Geological Markers:

Formation	Est Top	Bearing
Rustler	1180	N/A
Salt	1410	N/A
Castille	3550	N/A
Base Last Salt	4635	N/A
Lamar	4900	N/A
Bell Canyon	4955	N/A
Cherry Canyon	5865	N/A
Brushy Canyon	7150	N/A
Bone Spring	8800	Hydrocarbons
Avalon Shale	9330	Hydrocarbons

7. Possible Mineral Bearing Formation: Shown above

7A. OSE Ground Water Estimated Depth: 550'

8. Casing Program:

See COA

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	12230	12750	17 1/2	13-3/8"	48.00	H-40	ST&C	New	530	8.3	1.39		3.26	59,040	51,559	6.25
Intermediate	0	4920	4920	12 1/4	9-5/8"	40.00	J-55	LT&C	New	2558	10.0		1.53	1.54	196,800	166,754	3.12
Production	0	9223	9223	8 3/4	5-1/2"	17.00	L-80	LT&C	New	4316	9.0	1.46		1.79	164,900	142,242	2.38
Production	9223	14042	9700	8 3/4	5-1/2"	17.00	L-80	BT&C	New	4539	9.0	1.39		1.71	8,109	6,995	56.76

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
Urraca Federal Com 22H
 Cimarex Energy Co.
 UL: C, Sec. 11, 23S, 32E
 Lea Co., NM

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	586	1.75	13.50	1025	Class C + Bentonite + Calcium Chloride + LCM, 8.829 gps water
	Tail	159	1.34	14.80	213	Class C + LCM, 6.32 gps water
	TOC: 0		45% Excess			Centralizers per Onshore Order 2.III.B.1f
Intermediate	Lead	882	1.88	12.90	1657	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		44% Excess			
Production	Lead	522	2.40	11.90	1252	35:65 (poz/H) + salt + Sodium Metasilicate + Bentonite + Fluid Loss + Dispersant + LCM + Retarder, 13.80 gps water
	Tail	1192	1.24	14.50	1478	50:50 (poz/H) + Bentonite + Salt + Fluid Loss + Dispersant + LCM + Retarder, 5.55 gps water
	TOC: 4720' 4875'		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
Urraca Federal Com 22H
Cimarex Energy Co.
UL: C, Sec. 11, 23S, 32E
Lea Co., NM

See COA

11. Proposed Mud Circulating System:

Depth	Mud Weight	Visc	Fluid Loss	Type Mud
0' to 1275'	7.80 - 8.30	28	NC	FW Spud Mud
1275' to 4875'	9.50 - 10.00	30-32	NC	Brine Water
4875' to 14042'	8.50 - 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: 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 potential as **Oil**

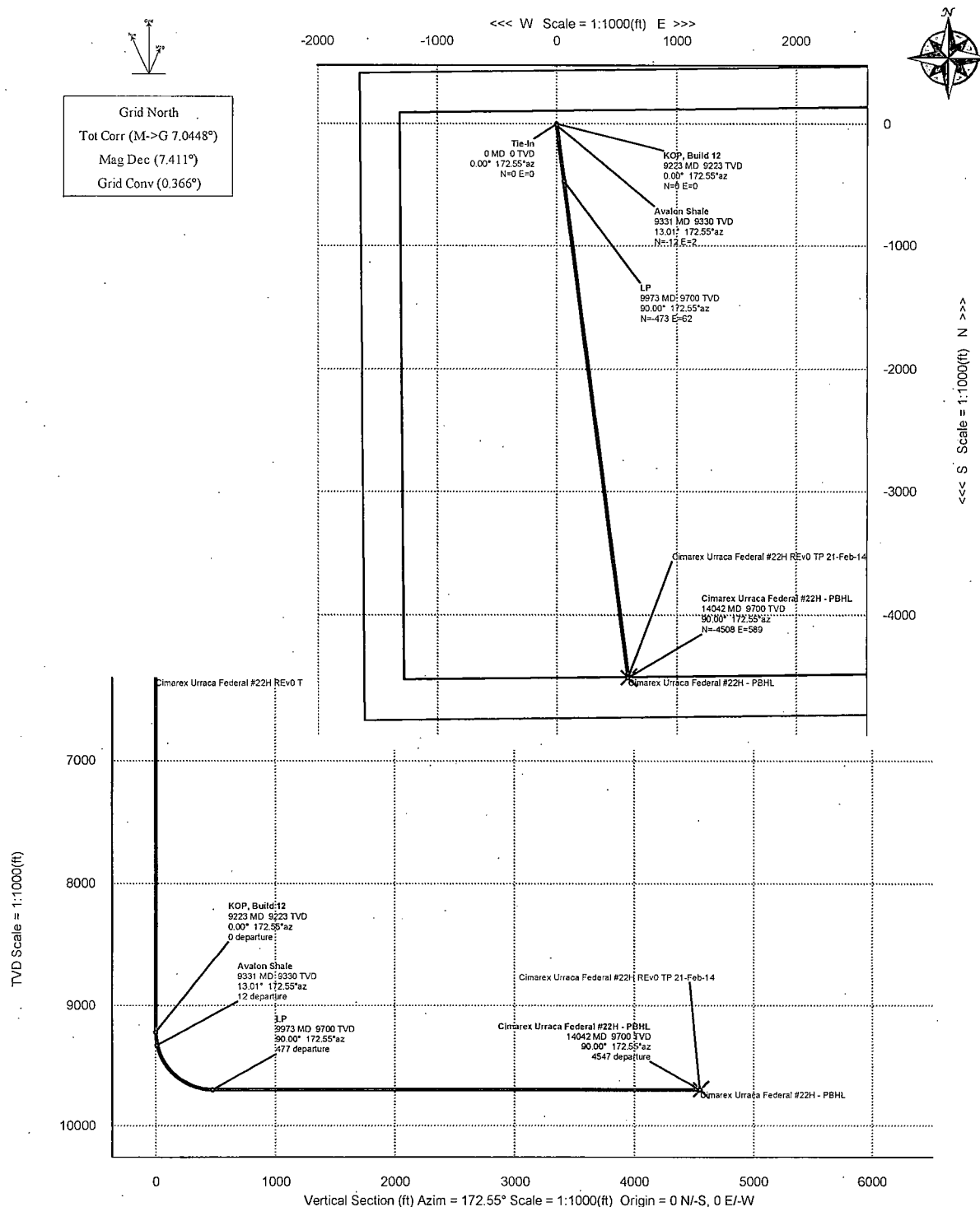
See COA



Cimarex

PATHFINDER
A Schlumberger Company

WELL	Urraca Federal #22H		FIELD	NM Lea County (NAD 83)		STRUCTURE	Cimarex Urraca Federal #22H	
Magnetic Parameters	Model	BOGHA 2013	Dip	60.18°	Date	February 21, 2014	Surface Location	NAD83 New Mexico State Plane, Eastern Zone, US Feet
			Mag Dec	7.411°			Lat	N 32 19 30.924
							Lon	W 103 38 55.171
							Northing	482736.29 MJUS
							Easting	752827.96 MJUS
							Grid Conv	0.366°
							Scale Fact	0.99996032
Miscellaneous	Skc	Urraca Federal #22H	TVD Ref	Unknown (37.161 above MSL)				
	Plan	Cimarex Urraca Federal #22H (REV0) TP 21-Feb-14						



Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+) / S(-)	E(+) / W(-)	DLS
Tie-In	0.00	0.00	172.55	0.00	0.00	0.00	0.00	
KOP, Build 12	9222.54	0.00	172.55	9222.54	0.00	0.00	0.00	0.00
Avalon Shale	9330.93	13.01	172.55	9330.00	12.25	-12.15	1.59	12.00
LP	9972.54	90.00	172.55	9700.00	477.46	-473.44	61.88	12.00
Cimarex Urraca Federal #22H - PBHL	14041.92	90.00	172.55	9700.00	4546.84	-4508.50	589.27	0.00

Cimarex Urraca Federal #22H Rev0 TP 21-Feb-14 Proposal Report

(Non-Def Plan)

Report Date: February 25, 2014 - 02:02 PM
Client: Cimarex
Field: NM Lea County (NAD 83)
Structure / Slot: Cimarex Urraca Federal #22H / Urraca Federal #22H
Well: Urraca Federal #22H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Cimarex Urraca Federal #22H Rev0 TP 21-Feb-14
Survey Date: February 21, 2014
Tort / AHD / DDI / ERD Ratio: 90.000 * / 4546.845 ft / 5.773 / 0.469
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 19' 30.92409", W 103° 38' 55.17129"
Location Grid N/E Y/X: N 482736.290 ftUS, E 752827.980 ftUS
CRS Grid Convergence Angle: 0.3661 °
Grid Scale Factor: 0.99996032

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 172.553 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: Unknown
TVD Reference Elevation: 3716.000 ft above MSL
Seabed / Ground Elevation: 3716.000 ft above MSL
Magnetic Declination: 7.411 °
Total Field Strength: 48378.808 nT
Magnetic Dip Angle: 60.187 °
Declination Date: February 21, 2014
Magnetic Declination Model: BGGM 2013
North Reference: Grid North
Grid Convergence Used: 0.3661 °
Total Corr Mag North->Grid North: 7.0448 °
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)
Tie-In	0.00	0.00	172.55	0.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	N/A
	100.00	0.00	172.55	100.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	200.00	0.00	172.55	200.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	300.00	0.00	172.55	300.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	400.00	0.00	172.55	400.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	500.00	0.00	172.55	500.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	600.00	0.00	172.55	600.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	700.00	0.00	172.55	700.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	800.00	0.00	172.55	800.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	900.00	0.00	172.55	900.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	1000.00	0.00	172.55	1000.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	1100.00	0.00	172.55	1100.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	1200.00	0.00	172.55	1200.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	1300.00	0.00	172.55	1300.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	1400.00	0.00	172.55	1400.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	1500.00	0.00	172.55	1500.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	1600.00	0.00	172.55	1600.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	1700.00	0.00	172.55	1700.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	1800.00	0.00	172.55	1800.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	1900.00	0.00	172.55	1900.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	2000.00	0.00	172.55	2000.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	2100.00	0.00	172.55	2100.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	2200.00	0.00	172.55	2200.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	2300.00	0.00	172.55	2300.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	2400.00	0.00	172.55	2400.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	2500.00	0.00	172.55	2500.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	2600.00	0.00	172.55	2600.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	2700.00	0.00	172.55	2700.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	2800.00	0.00	172.55	2800.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	2900.00	0.00	172.55	2900.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	3000.00	0.00	172.55	3000.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	3100.00	0.00	172.55	3100.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	3200.00	0.00	172.55	3200.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	Closure (ft)	Closure Azimuth (°)	DLS (%/100ft)
	3300.00	0.00	172.55	3300.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	3400.00	0.00	172.55	3400.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	3500.00	0.00	172.55	3500.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	3600.00	0.00	172.55	3600.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	3700.00	0.00	172.55	3700.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	3800.00	0.00	172.55	3800.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	3900.00	0.00	172.55	3900.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	4000.00	0.00	172.55	4000.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	4100.00	0.00	172.55	4100.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	4200.00	0.00	172.55	4200.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	4300.00	0.00	172.55	4300.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	4400.00	0.00	172.55	4400.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	4500.00	0.00	172.55	4500.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	4600.00	0.00	172.55	4600.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	4700.00	0.00	172.55	4700.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	4800.00	0.00	172.55	4800.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	4900.00	0.00	172.55	4900.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	5000.00	0.00	172.55	5000.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	5100.00	0.00	172.55	5100.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	5200.00	0.00	172.55	5200.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	5300.00	0.00	172.55	5300.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	5400.00	0.00	172.55	5400.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	5500.00	0.00	172.55	5500.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	5600.00	0.00	172.55	5600.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	5700.00	0.00	172.55	5700.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	5800.00	0.00	172.55	5800.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	5900.00	0.00	172.55	5900.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	6000.00	0.00	172.55	6000.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	6100.00	0.00	172.55	6100.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	6200.00	0.00	172.55	6200.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	6300.00	0.00	172.55	6300.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	6400.00	0.00	172.55	6400.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	6500.00	0.00	172.55	6500.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	6600.00	0.00	172.55	6600.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	6700.00	0.00	172.55	6700.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	6800.00	0.00	172.55	6800.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	6900.00	0.00	172.55	6900.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	7000.00	0.00	172.55	7000.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	7100.00	0.00	172.55	7100.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	7200.00	0.00	172.55	7200.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	7300.00	0.00	172.55	7300.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	7400.00	0.00	172.55	7400.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	7500.00	0.00	172.55	7500.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	7600.00	0.00	172.55	7600.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	7700.00	0.00	172.55	7700.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	7800.00	0.00	172.55	7800.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	7900.00	0.00	172.55	7900.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	8000.00	0.00	172.55	8000.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	8100.00	0.00	172.55	8100.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	8200.00	0.00	172.55	8200.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	8300.00	0.00	172.55	8300.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	8400.00	0.00	172.55	8400.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	8500.00	0.00	172.55	8500.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	8600.00	0.00	172.55	8600.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	8700.00	0.00	172.55	8700.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	Closure (ft)	Closure Azimuth (°)	DLS ("/100ft)
	8800.00	0.00	172.55	8800.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	8900.00	0.00	172.55	8900.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	9000.00	0.00	172.55	9000.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	9100.00	0.00	172.55	9100.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
KOP, Build 12	9200.00	0.00	172.55	9200.00	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	9222.54	0.00	172.55	9222.54	0.00	0.00	0.00	482736.29	752827.98	N 32 19 30.92	W 103 38 55.17	0.00	0.00	0.00
	9300.00	9.30	172.55	9299.66	6.27	-6.22	0.81	482730.07	752828.79	N 32 19 30.86	W 103 38 55.16	6.27	172.55	12.00
Avalon Shale	9330.93	13.01	172.55	9330.00	12.25	-12.15	1.59	482724.14	752829.57	N 32 19 30.80	W 103 38 55.15	12.25	172.55	12.00
	9400.00	21.30	172.55	9395.94	32.60	-32.33	4.23	482703.96	752832.21	N 32 19 30.60	W 103 38 55.12	32.60	172.55	12.00
	9500.00	33.30	172.55	9484.64	78.38	-77.72	10.16	482658.58	752838.14	N 32 19 30.15	W 103 38 55.06	78.38	172.55	12.00
	9600.00	45.30	172.55	9561.89	141.59	-140.40	18.35	482595.90	752846.33	N 32 19 29.53	W 103 38 54.97	141.59	172.55	12.00
	9700.00	57.30	172.55	9624.31	219.49	-217.64	28.45	482518.66	752856.42	N 32 19 28.77	W 103 38 54.86	219.49	172.55	12.00
	9800.00	69.30	172.55	9669.16	308.66	-306.06	40.00	482430.25	752867.98	N 32 19 27.89	W 103 38 54.73	308.66	172.55	12.00
LP	9900.00	81.30	172.55	9694.50	405.21	-401.79	52.52	482334.52	752880.49	N 32 19 26.95	W 103 38 54.59	405.21	172.55	12.00
	9972.54	90.00	172.55	9700.00	477.46	-473.44	61.88	482262.87	752889.86	N 32 19 26.24	W 103 38 54.49	477.46	172.55	12.00
	10000.00	90.00	172.55	9700.00	504.93	-500.67	65.44	482235.64	752893.42	N 32 19 25.97	W 103 38 54.45	504.93	172.55	0.00
	10100.00	90.00	172.55	9700.00	604.93	-599.83	78.40	482136.49	752906.38	N 32 19 24.98	W 103 38 54.30	604.93	172.55	0.00
	10200.00	90.00	172.55	9700.00	704.93	-698.98	91.36	482037.33	752919.34	N 32 19 24.00	W 103 38 54.16	704.93	172.55	0.00
	10300.00	90.00	172.55	9700.00	804.93	-798.14	104.32	481938.18	752932.30	N 32 19 23.02	W 103 38 54.02	804.93	172.55	0.00
	10400.00	90.00	172.55	9700.00	904.93	-897.30	117.28	481839.03	752945.25	N 32 19 22.04	W 103 38 53.87	904.93	172.55	0.00
	10500.00	90.00	172.55	9700.00	1004.93	-996.45	130.24	481739.88	752958.21	N 32 19 21.06	W 103 38 53.73	1004.93	172.55	0.00
	10600.00	90.00	172.55	9700.00	1104.93	-1095.61	143.20	481640.72	752971.17	N 32 19 20.07	W 103 38 53.58	1104.93	172.55	0.00
	10700.00	90.00	172.55	9700.00	1204.93	-1194.77	156.16	481541.57	752984.13	N 32 19 19.09	W 103 38 53.44	1204.93	172.55	0.00
	10800.00	90.00	172.55	9700.00	1304.93	-1293.92	169.12	481442.42	752997.09	N 32 19 18.11	W 103 38 53.30	1304.93	172.55	0.00
	10900.00	90.00	172.55	9700.00	1404.93	-1393.08	182.08	481343.27	753010.05	N 32 19 17.13	W 103 38 53.15	1404.93	172.55	0.00
	11000.00	90.00	172.55	9700.00	1504.93	-1492.24	195.04	481244.11	753023.01	N 32 19 16.15	W 103 38 53.01	1504.93	172.55	0.00
	11100.00	90.00	172.55	9700.00	1604.93	-1591.39	208.00	481144.96	753035.97	N 32 19 15.16	W 103 38 52.87	1604.93	172.55	0.00
	11200.00	90.00	172.55	9700.00	1704.93	-1690.55	220.96	481045.81	753048.93	N 32 19 14.18	W 103 38 52.72	1704.93	172.55	0.00
	11300.00	90.00	172.55	9700.00	1804.93	-1789.71	233.92	480946.66	753061.89	N 32 19 13.20	W 103 38 52.58	1804.93	172.55	0.00
	11400.00	90.00	172.55	9700.00	1904.93	-1888.86	246.88	480847.50	753074.85	N 32 19 12.22	W 103 38 52.44	1904.93	172.55	0.00
	11500.00	90.00	172.55	9700.00	2004.93	-1988.02	259.84	480748.35	753087.81	N 32 19 11.24	W 103 38 52.29	2004.93	172.55	0.00
	11600.00	90.00	172.55	9700.00	2104.93	-2087.18	272.80	480649.20	753100.77	N 32 19 10.25	W 103 38 52.15	2104.93	172.55	0.00
	11700.00	90.00	172.55	9700.00	2204.93	-2186.33	285.76	480550.05	753113.73	N 32 19 9.27	W 103 38 52.00	2204.93	172.55	0.00
	11800.00	90.00	172.55	9700.00	2304.93	-2285.49	298.72	480450.89	753126.69	N 32 19 8.29	W 103 38 51.86	2304.93	172.55	0.00
	11900.00	90.00	172.55	9700.00	2404.93	-2384.65	311.68	480351.74	753139.65	N 32 19 7.31	W 103 38 51.72	2404.93	172.55	0.00
	12000.00	90.00	172.55	9700.00	2504.93	-2483.80	324.64	480252.59	753152.61	N 32 19 6.33	W 103 38 51.57	2504.93	172.55	0.00
	12100.00	90.00	172.55	9700.00	2604.93	-2582.96	337.60	480153.44	753165.57	N 32 19 5.34	W 103 38 51.43	2604.93	172.55	0.00
	12200.00	90.00	172.55	9700.00	2704.93	-2682.12	350.56	480054.28	753178.53	N 32 19 4.36	W 103 38 51.29	2704.93	172.55	0.00
	12300.00	90.00	172.55	9700.00	2804.93	-2781.27	363.52	479955.13	753191.49	N 32 19 3.38	W 103 38 51.14	2804.93	172.55	0.00
	12400.00	90.00	172.55	9700.00	2904.93	-2880.43	376.48	479855.98	753204.45	N 32 19 2.40	W 103 38 51.00	2904.93	172.55	0.00
	12500.00	90.00	172.55	9700.00	3004.93	-2979.59	389.44	479756.83	753217.40	N 32 19 1.42	W 103 38 50.86	3004.93	172.55	0.00
	12600.00	90.00	172.55	9700.00	3104.93	-3078.74	402.40	479657.67	753230.36	N 32 19 0.44	W 103 38 50.71	3104.93	172.55	0.00
	12700.00	90.00	172.55	9700.00	3204.93	-3177.90	415.36	479558.52	753243.32	N 32 18 59.45	W 103 38 50.57	3204.93	172.55	0.00
	12800.00	90.00	172.55	9700.00	3304.93	-3277.06	428.32	479459.37	753256.28	N 32 18 58.47	W 103 38 50.42	3304.93	172.55	0.00
	12900.00	90.00	172.55	9700.00	3404.93	-3376.21	441.28	479360.22	753269.24	N 32 18 57.49	W 103 38 50.28	3404.93	172.55	0.00
	13000.00	90.00	172.55	9700.00	3504.93	-3475.37	454.24	479261.06	753282.20	N 32 18 56.51	W 103 38 50.14	3504.93	172.55	0.00
	13100.00	90.00	172.55	9700.00	3604.93	-3574.53	467.20	479161.91	753295.16	N 32 18 55.53	W 103 38 49.99	3604.93	172.55	0.00
	13200.00	90.00	172.55	9700.00	3704.93	-3673.68	480.16	479062.76	753308.12	N 32 18 54.54	W 103 38 49.85	3704.93	172.55	0.00
	13300.00	90.00	172.55	9700.00	3804.93	-3772.84	493.12	478963.61	753321.08	N 32 18 53.56	W 103 38 49.71	3804.93	172.55	0.00
	13400.00	90.00	172.55	9700.00	3904.93	-3872.00	506.08	478864.45	753334.04	N 32 18 52.58	W 103 38 49.56	3904.93	172.55	0.00
	13500.00	90.00	172.55	9700.00	4004.93	-3971.15	519.04	478765.30	753347.00	N 32 18 51.60	W 103 38 49.42	4004.93	172.55	0.00
	13600.00	90.00	172.55	9700.00	4104.93	-4070.31	532.00	478666.15	753359.96	N 32 18 50.62	W 103 38 49.28	4104.93	172.55	0.00
	13700.00	90.00	172.55	9700.00	4204.93	-4169.47	544.96	478567.00	753372.92	N 32 18 49.63	W 103 38 49.13	4204.93	172.55	0.00
	13800.00	90.00	172.55	9700.00	4304.93	-4268.62	557.92	478467.84	753385.88	N 32 18 48.65	W 103 38 48.99	4304.93	172.55	0.00
	13900.00	90.00	172.55	9700.00	4404.93	-4367.78	570.88	478368.69	753398.84	N 32 18 47.67	W 103 38 48.84	4404.93	172.55	0.00

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	Closure (ft)	Closure Azimuth (°)	DLS ("/100ft)
Cimarex Urraca	14000.00	90.00	172.55	9700.00	4504.93	-4466.94	583.84	478269.54	753411.80	N 32 18 46.69	W 103 38 48.70	4504.93	172.55	0.00
Federal #22H - PBHL	14041.92	90.00	172.55	9700.00	4546.84	-4508.50	589.27	478227.98	753417.23	N 32 18 46.28	W 103 38 48.64	4546.84	172.55	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	14041.915	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Urraca Federal #22H REv0 TP 21-

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

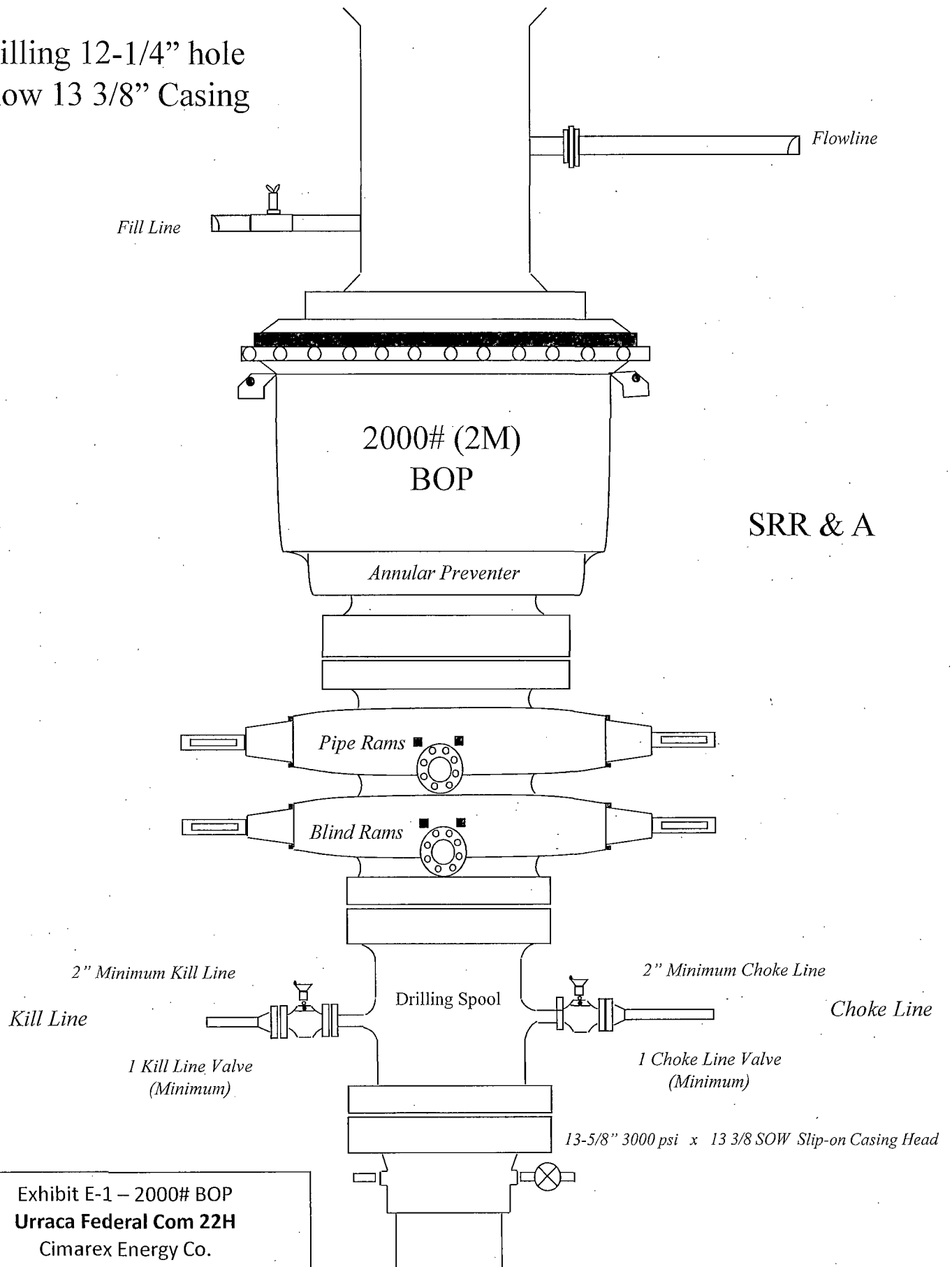
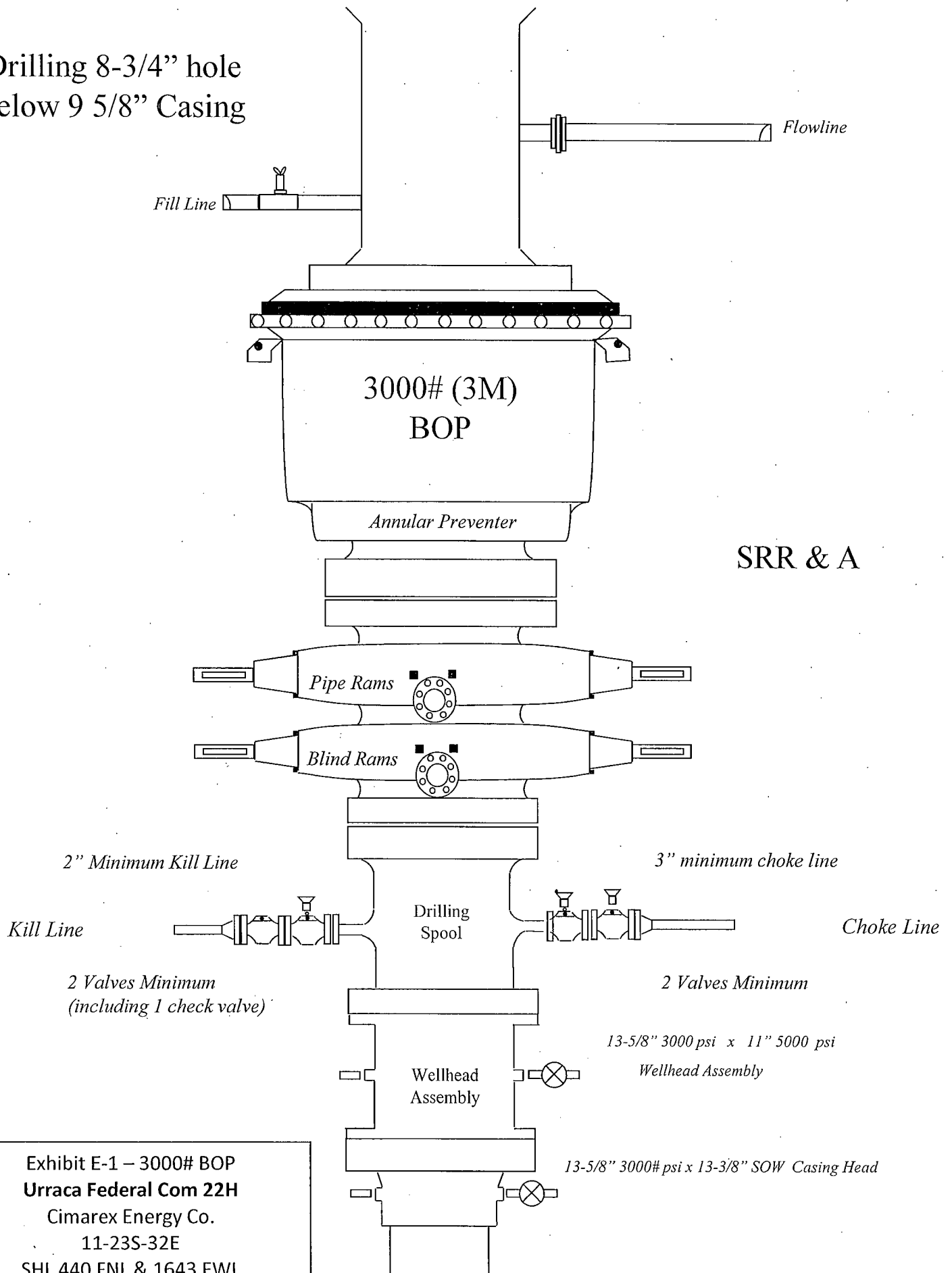


Exhibit E-1 – 2000# BOP
Urraca Federal Com 22H
Cimarex Energy Co.
11-23S-32E
SHL 440 FNL & 1643 FWL
BHL 330 FSL & 2200 FWL
Lea County, NM

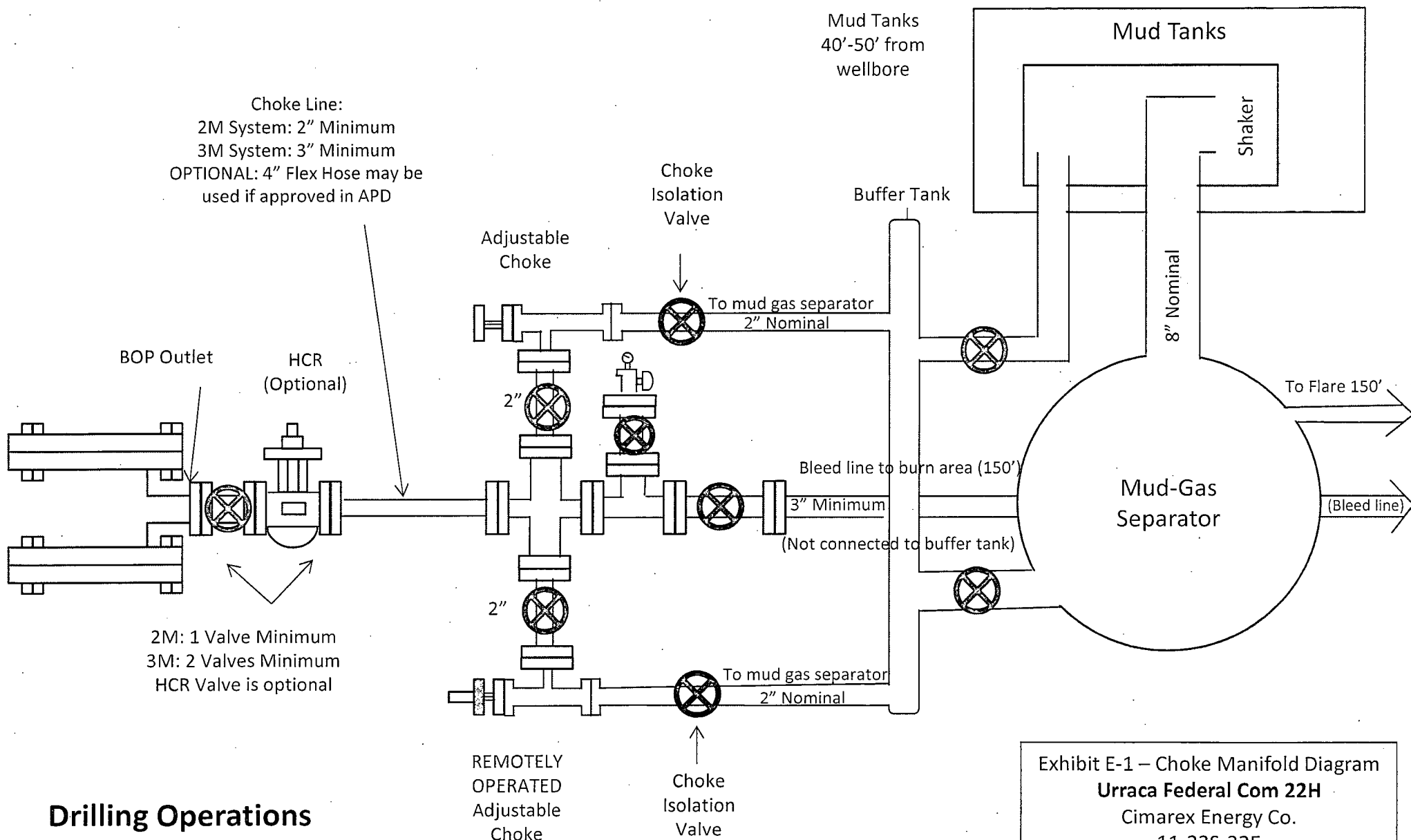
Drilling 8-3/4" hole
below 9 5/8" Casing



SRR & A

Exhibit E-1 – 3000# BOP
Urraca Federal Com 22H
Cimarex Energy Co.
11-23S-32E
SHL 440 FNL & 1643 FWL
BHL 330 FSL & 2200 FWL
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
Urraca Federal Com 22H
 Cimarex Energy Co.
 11-23S-32E
 SHL 440 FNL & 1643 FWL
 BHL 330 FSL & 2200 FWL
 Lea County, NM

Exhibit F-1 – Co-Flex Hose Hydrostatic Test

Urraca Federal Com 22H

Cimarex Energy Co.

11-23S-32E

SHL 440 FNL & 1643 FWL

BHL 330 FSL & 2200 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 Sosa</i>		Approved: <i>[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

41/16 10K

Die Size

6.38"

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

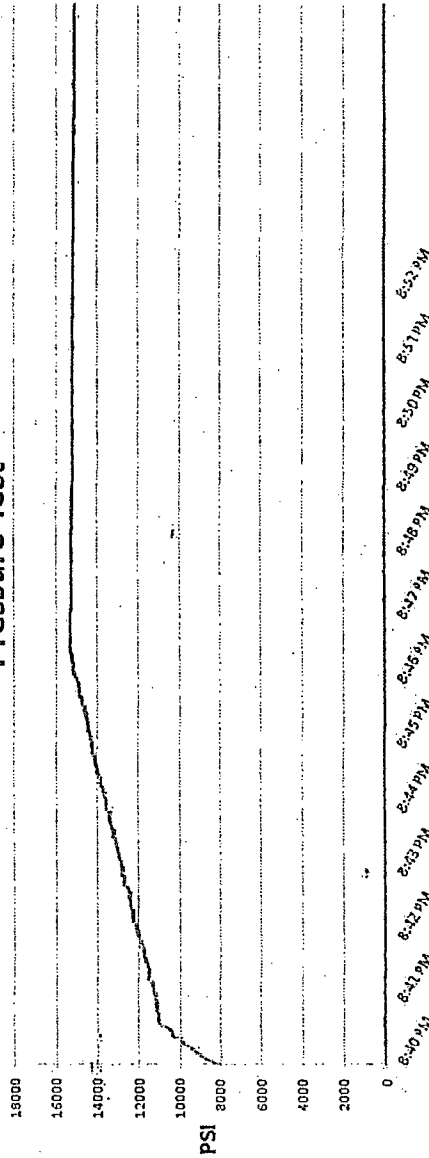


Exhibit F-2 – Co-Flex Hose
Urraca Federal Com 22H
Cimarex Energy Co.
11-23S-32E
SHL 440 FNL & 1643 FWL
BHL 330 FSL & 2200 FWL
Lea County, NM



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>Samuel Garcia</i>		3/8/2011



Midwest Hose
& Specialty, Inc.

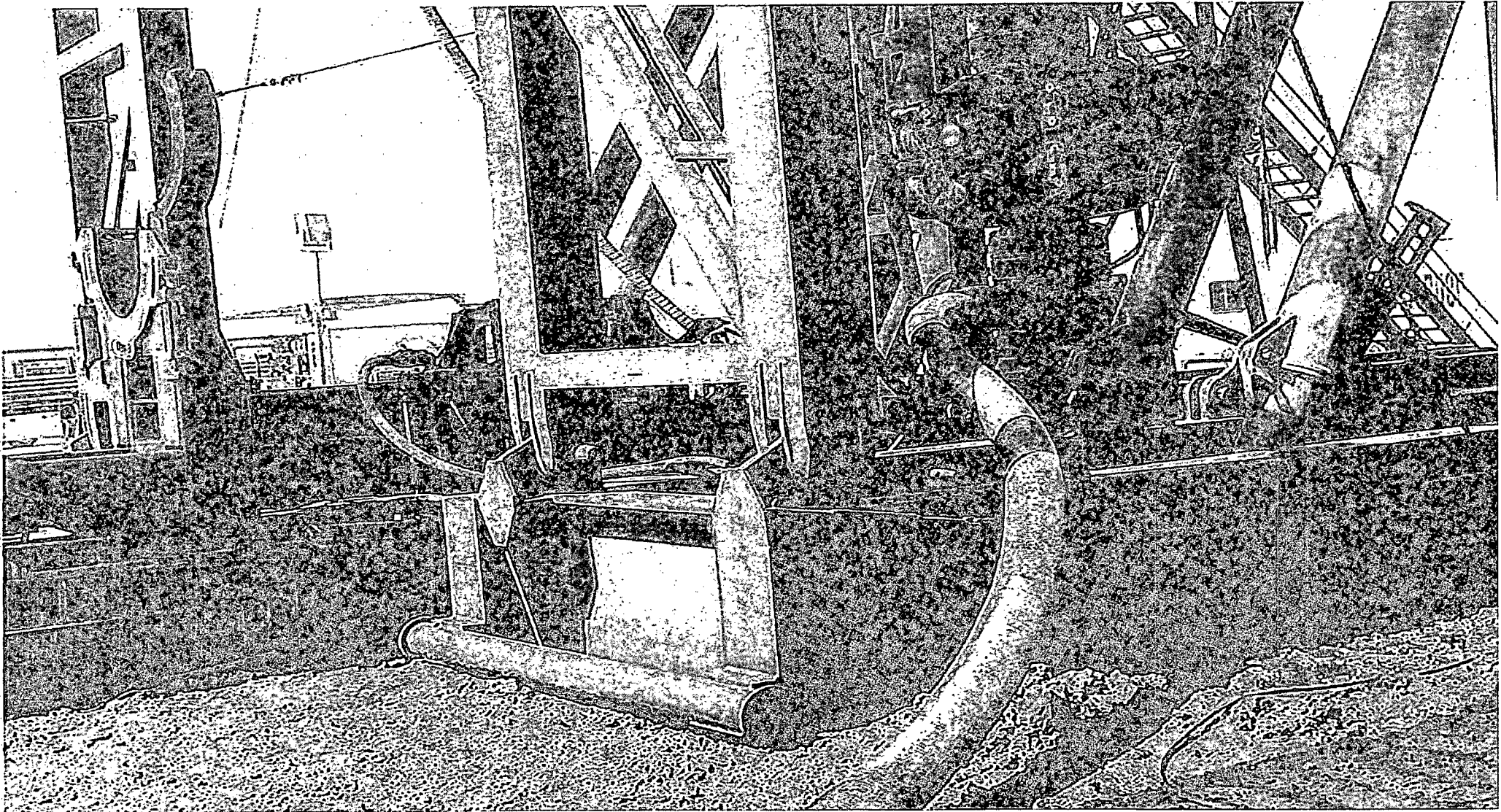
Exhibit F -3-- Co-Flex Hose
Urraca Federal Com 22H
Cimarex Energy Co.
11-23S-32E
SHL 440 FNL & 1643 FWL
BHL 330 FSL & 2200 FWL
Lea County, NM

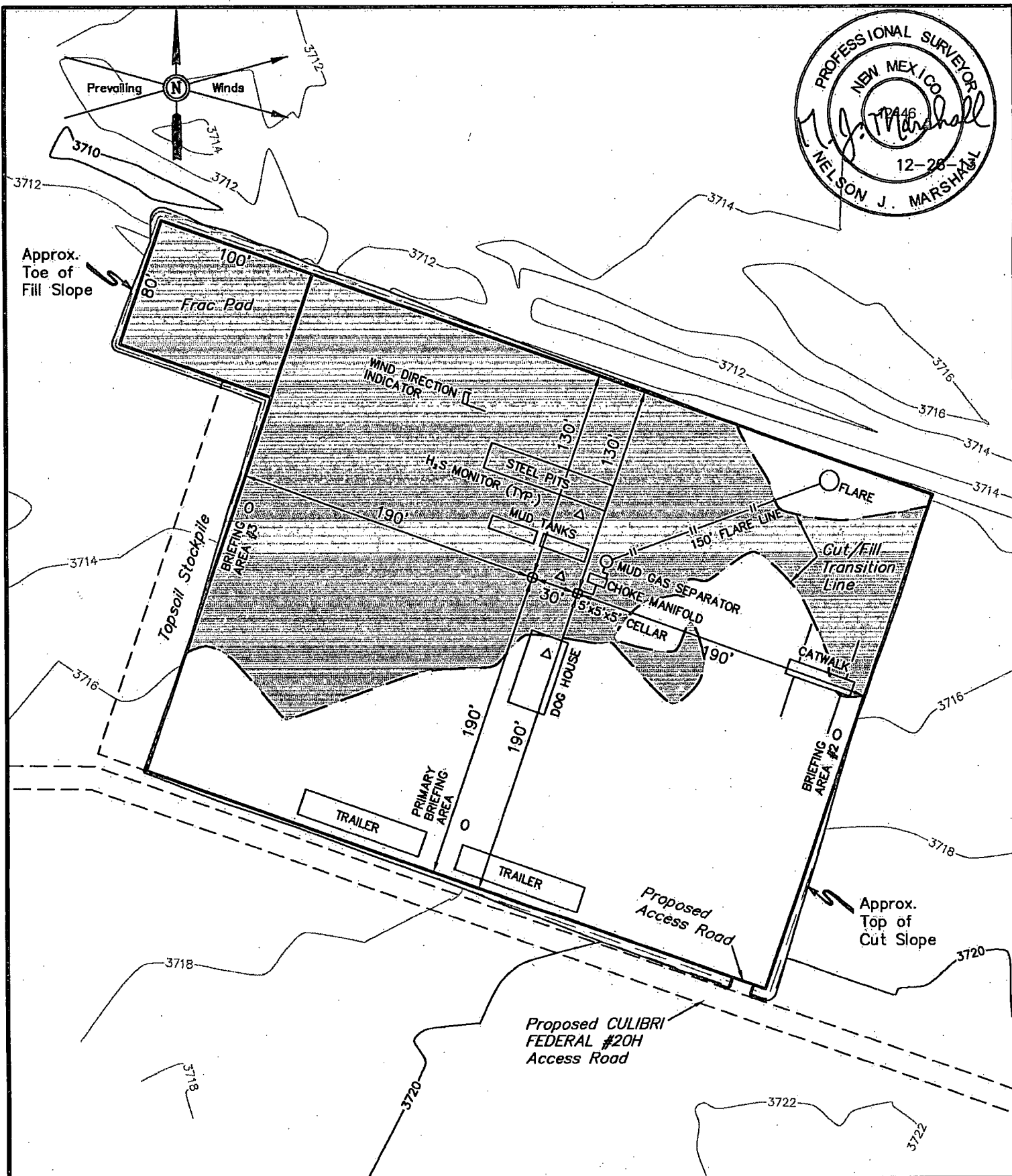
Specification Sheet Choke & Kill Hose

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)

Exhibit F – Co-Flex Hose
Urraca Federal Com 22H
Cimarex Energy Co.
11-23S-32E
SHL 440 FNL & 1643 FWL
BHL 330 FSL & 2200 FWL
Lea County, NM





NOTES:

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

CIMAREX

CIMAREX ENERGY CO.

URRACA FEDERAL COM #22H
SECTION 11, T23S, R32E, N.M.P.M.
NE 1/4 NW 1/4

DRAWN BY: B.D.H.

SCALE: 1" = 80'

DATE: 12-17-13

REVISED:

TYPICAL RIG LAYOUT

EXHIBIT D



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