

RECEIVED

☐ **AMENDED REPORT**

ELG 1-29-2013

Operator Name/Number:	OXY USA WTP LP	192463
Lease Name/Number:	East Eumont Unit #203	27941 Fee
Pool Name/Number:	Eumont Yates 7R Qn (Oil)	22800
Surface Location:	10 FSL 120 FWL M Sec 3 T19S R37E	

C-102 Plats: 1/10/13 1/11/13 1/14/13 Elevation: 3674.3' GL

Proposed TD: 4100' TVD

Lat: 32.6819169 Long: 103.2470186 X= 834244.2 Y= 613503.5 NAD - 1927

Casing Program:

<u>Hole Size</u>	<u>Interval</u>	<u>OD Csg</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>	<u>Condition</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
11"	0-1620'	8-5/8"	24	ST&C	J-55	New	2.51	2.14	11.24
				Hole filled with 8.4# Mud			1370#	2950#	
7-7/8"	0-4100'	5-1/2"	17	LT&C	J-55	New	2.4	3.25	4.15
				Hole filled with 9.6# Mud			4910#	5320#	

Collapse and burst loads calculated using Stress Check with anticipated loads

Cement Program:

- a. 8-5/8" Surface Circulate cement to surface w/ 450sx PP cmt w/ 4% Bentonite + 1% CaCl₂ + .125#/sx Poly-E-Flake, 13.5ppg 1.73 yield 810# 24hr CS 150% Excess followed by 200sx PP cmt w/ 1% CaCl₂, 14.8ppg 1.34 yield 2500# 24hr CS 150% Excess
- b. 5-1/2" Production Cement w/ 470sx IFH w/ 3#/sx Kol-Seal + .2% HR-601 + .25#/sx D-Air 5000 + .125 #/sx Poly-E-Flake, 11.9ppg 2.47 yield 426# 24hr (574# 48hr) CS 150% Excess followed by 130sx PP cmt w/ 0.5 Halad R-344 + 0.3% CFR 3 + .2% WellLife 734 + 5#/sx Microbond + .3% Econolite, 14.2ppg 1.55 yield 1914# 24hr CS 75% Excess

Description of Cement Additives: Calcium Chloride (Accelerator), WellLife-734 (Cement Enhancer), D-Air 5000 (Defoamer), CFR-3 (Dispersant), Microbond (Expander), Bentonite, Econolite (Light Weight Additive), Kol-Seal, Poly-E-Flake (Lost Circulation Additive), Halad R-344 (Low Fluid Loss Control), HR-601 (Retarder).

Proposed Mud Circulation System:

<u>Depth</u>	<u>Mud Wt.</u> <u>ppg</u>	<u>Visc</u> <u>sec</u>	<u>Fluid Loss</u>	<u>Type System</u>
0 - 1620'	8.4-8.8	27-38	NC	Fresh Water/Spud Mud
1620 - 4100'	9.6-10.0	28-40	10 - 20	Brine Water/salt Gel

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times.

BOP Program (1):

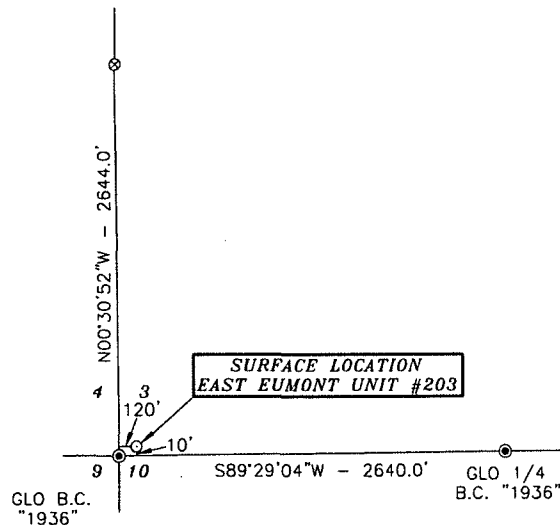
Surface None
Production 11" X 5M two ram stack, 11" X 3M Annular, 5M Choke Manifold

Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas:

<u>Geological Marker</u>	<u>Depth</u>
a. Rustler	1591'
b. Top Salado/Salt	1721'
c. Bottom Salt	2706'
d. Yates	2831'
e. Seven Rivers	3101'
f. Queen	3641'
g. Penrose	3901'
h. Grayburg	4100'

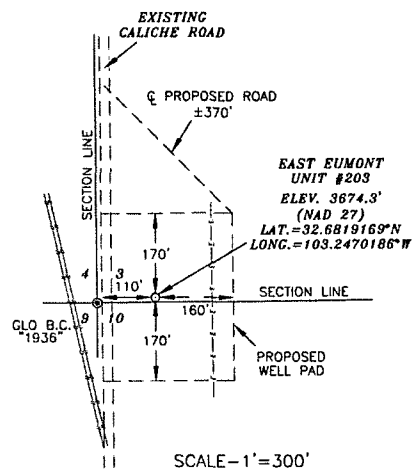
Based on the NMOSE nearby water wells have been drilled to a depth of less than 180'. Based on offset wells casing programs the surface casing set @ 1620' should cover any possible fresh water zones above the Salado.

SECTION 3, TOWNSHIP 19 SOUTH, RANGE 37 EAST, N.M.P.M.,
LEA COUNTY NEW MEXICO



Basis of Bearings - CPS Geodetic Measurements
 NM East Zone (83) North American Datum of 1983

DRIVING DIRECTIONS:
 BEGINNING IN HOBBS AT THE
 INTERSECTION OF U.S. HWY.
 #62/180 AND WEST COUNTY ROAD,
 GO WEST ON U.S. HWY. #62/180
 FOR 4.0 MILES, TURN LEFT ON
 CALICHE ROAD AND GO SOUTH FOR
 1.0 MILES, TURN LEFT ON
 PROPOSED ROAD AND GO
 SOUTHEAST FOR ±370 FEET TO
 LOCATION.



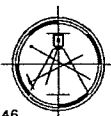
SURVEYORS CERTIFICATE

I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL SURVEYOR
 NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM
 RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS
 TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND
 BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR
 SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW
 MEXICO STATE BOARD OF REGISTRATION FOR
 PROFESSIONAL ENGINEERS AND SURVEYORS.

Terry J. Asel 1/4/2013
 Terry J. Asel, N.M. R.P.L.S. No. 15079

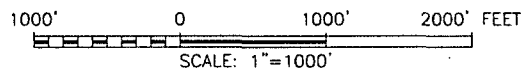
Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR
 HOBBS, NEW MEXICO - 575-393-9146



LEGEND

- ⊙ - DENOTES FOUND MONUMENT AS NOTED
- ⊗ - DENOTES CALCULATED CORNER

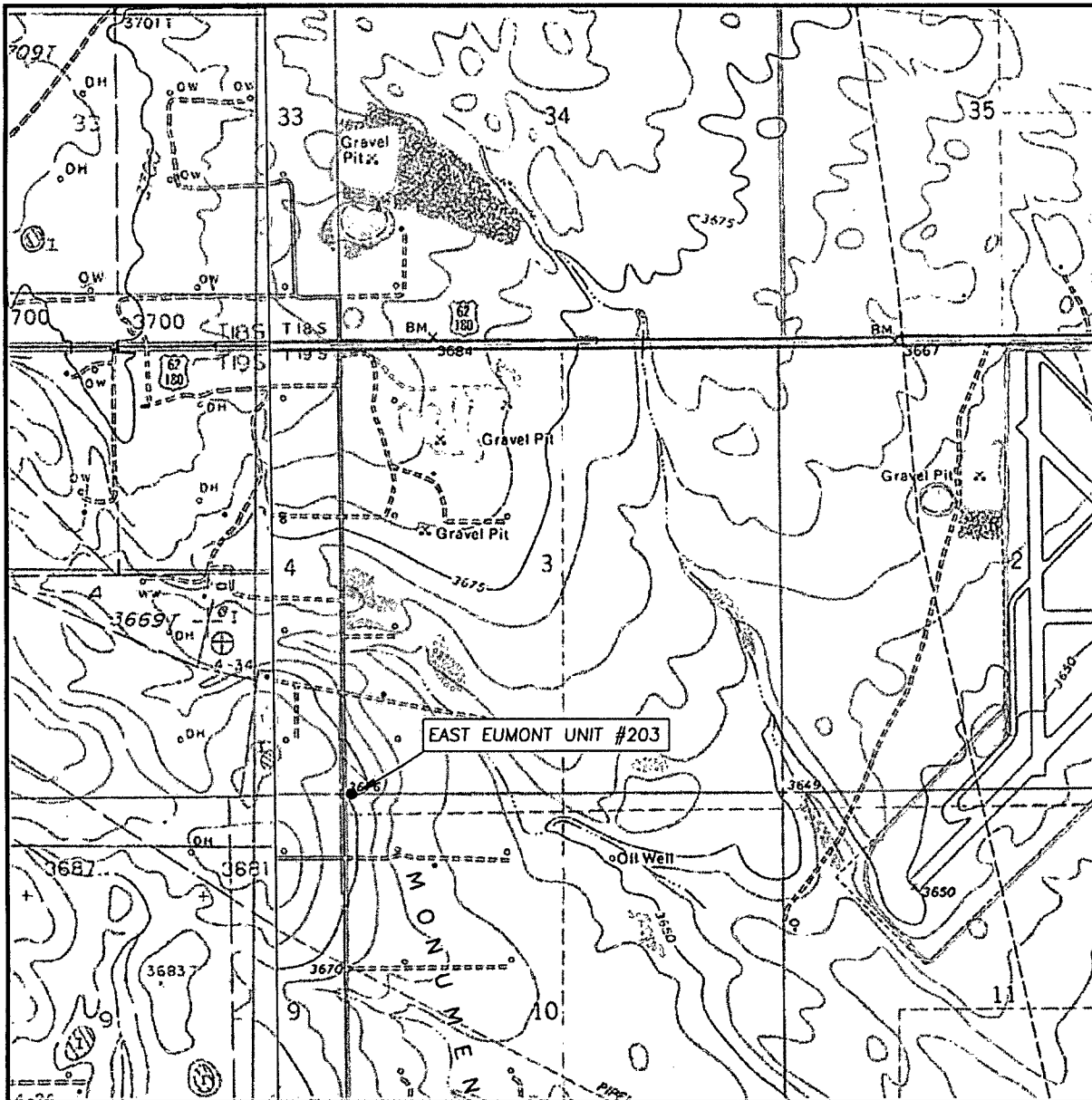


OXY USA WTP LP

EAST EUMONT UNIT #203 LOCATED AT
 10' FSL & 120' FWL IN SECTION 3,
 TOWNSHIP 19 SOUTH, RANGE 37 EAST,
 N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 01/10/13	Sheet 1 of 1 Sheets
W.O. Number: 120906WL-c (Rev. B)	Drawn By: KA Rev: B
Date: 01/11/13	120906WL-c Scale: 1"=1000'

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'

SEC. 3 TWP. 19-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 10' FSL & 120' FWL

ELEVATION 3674.3'

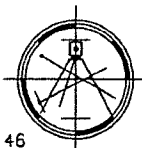
OPERATOR OXY USA WTP LP

LEASE EAST EUMONT UNIT #203

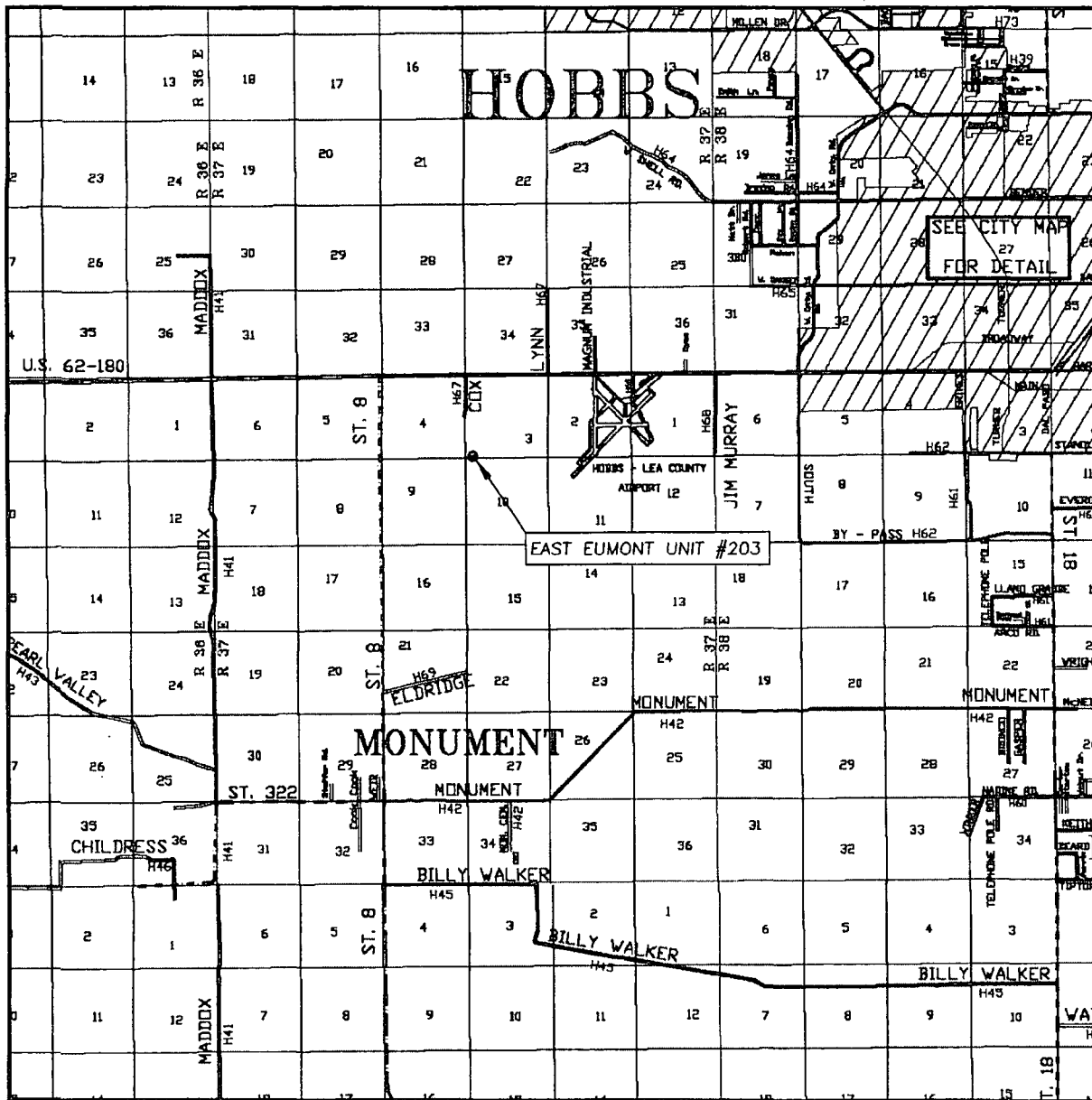
U.S.G.S. TOPOGRAPHIC MAP
HOBBS WEST, N.M.

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VICINITY MAP

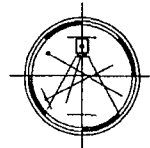


SEC. 3 TWP. 19-S RGE. 37-E
 SURVEY N.M.P.M.
 COUNTY LEA
 DESCRIPTION 10' FSL & 120' FWL
 ELEVATION 3674.3'
 OPERATOR OXY USA WTP LP
 LEASE EAST EUMONT UNIT #203

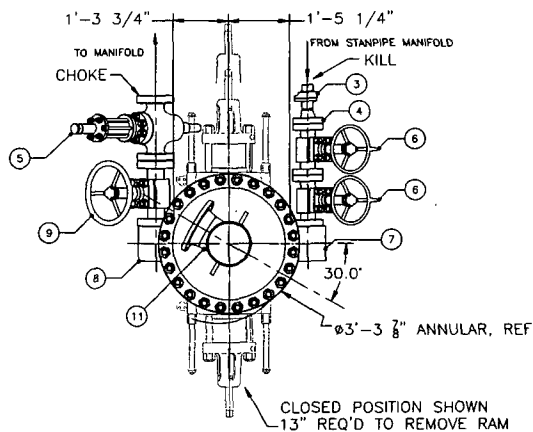
SCALE: 1" = 2 MILES

Asel Surveying

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 HOBBS, NEW MEXICO - 575-393-9146



DIRECTIONS BEGINNING IN HOBBS AT THE INTERSECTION OF U.S. HWY. #62/180 AND WEST COUNTY ROAD, GO WEST ON U.S. HWY. #62/180 FOR 4.0 MILES, TURN LEFT ON CALICHE ROAD AND GO SOUTH FOR 1.0 MILES, TURN LEFT ON PROPOSED ROAD AND GO SOUTHEAST FOR 370 FEET TO LOCATION.

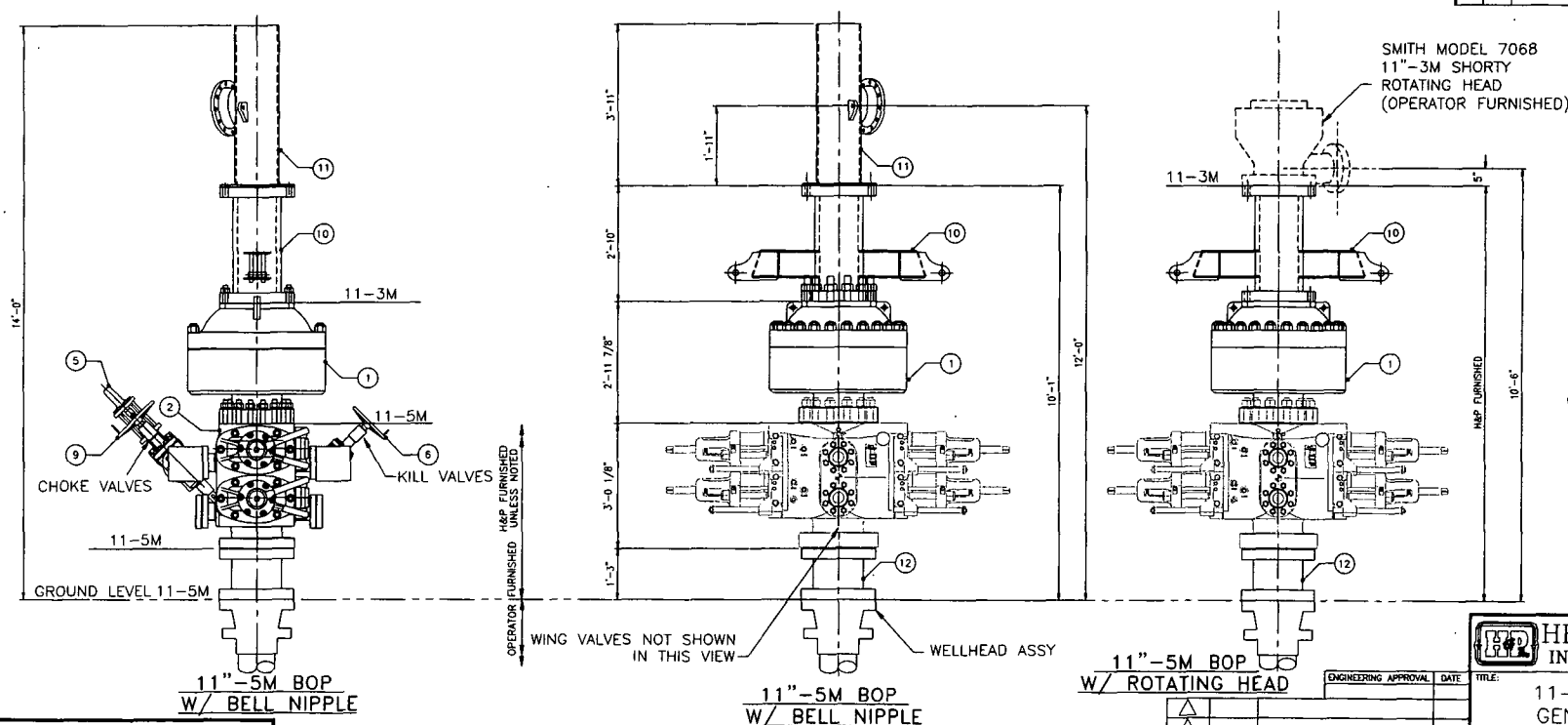


PROPER TORQUE FOR BOLTS				
COMPONENT	FLANGE SIZE & RATING	BOLT SIZE	TORQUE	
			CF=0.07	CF=0.13
SPOOLS, ANNULAR & RAMS	11"x5M	1 7/8" DIA.	1890	3330
BLOCKS	3 1/8x5M	1 1/8" DIA.	401	686
CHOKE VALVES	3 1/8x5M	1 1/8" DIA.	401	686
KILL VALVES	2 1/16x5M	7/8" DIA.	188	319

BILL OF MATERIAL				
ITEM NO.	QUAN.	DESCRIPTION	PART NUMBER	WEIGHT
1	1	11"-5M BOP ASSEMBLY		6005
2	1	ANNULAR, 11x3M BOLTED TYPE		7600
4	4	BOP DOUBLE RAM		444
3	1	RAM ELEMENTS		5
4	1	HAMMER UNION, 2-1502J XXH (BW)		42
5	1	FLANGE, WN 2 1/16-5M AP		396
6	2	VALVE, GATE FLS-HCR 3 1/8-5M		350
7	1	VALVE, GATE 2 1/16-5M		240
8	1	90° STUDDED BLOCK, 3 1/8-5M X 2 1/16-5M		250
9	2	90° STUDDED BLOCK, 3 1/8-5M X 3 1/8-5M		720
10	1	VALVE, GATE 3 1/8-5M		780
11	1	BELL NIPPLE BOP LIFTING SECTION	ML F4M-H-318.01A	398
12	1	BELL NIPPLE EXTENSION	ML F4M-H-318.01A	600
		SPOOL - WORKING PRESSURE 5000 PSI		

HARDWARE				
ITEM NO.	QUAN.	DESCRIPTION	PART NUMBER	WEIGHT
		RINGS AND BOLTS		400

APPROX. TOTAL WEIGHT = 18,228 LBS.



ISSUED FOR FABRICATION
August-08-2008
DRAFTSMAN
ENGINEER

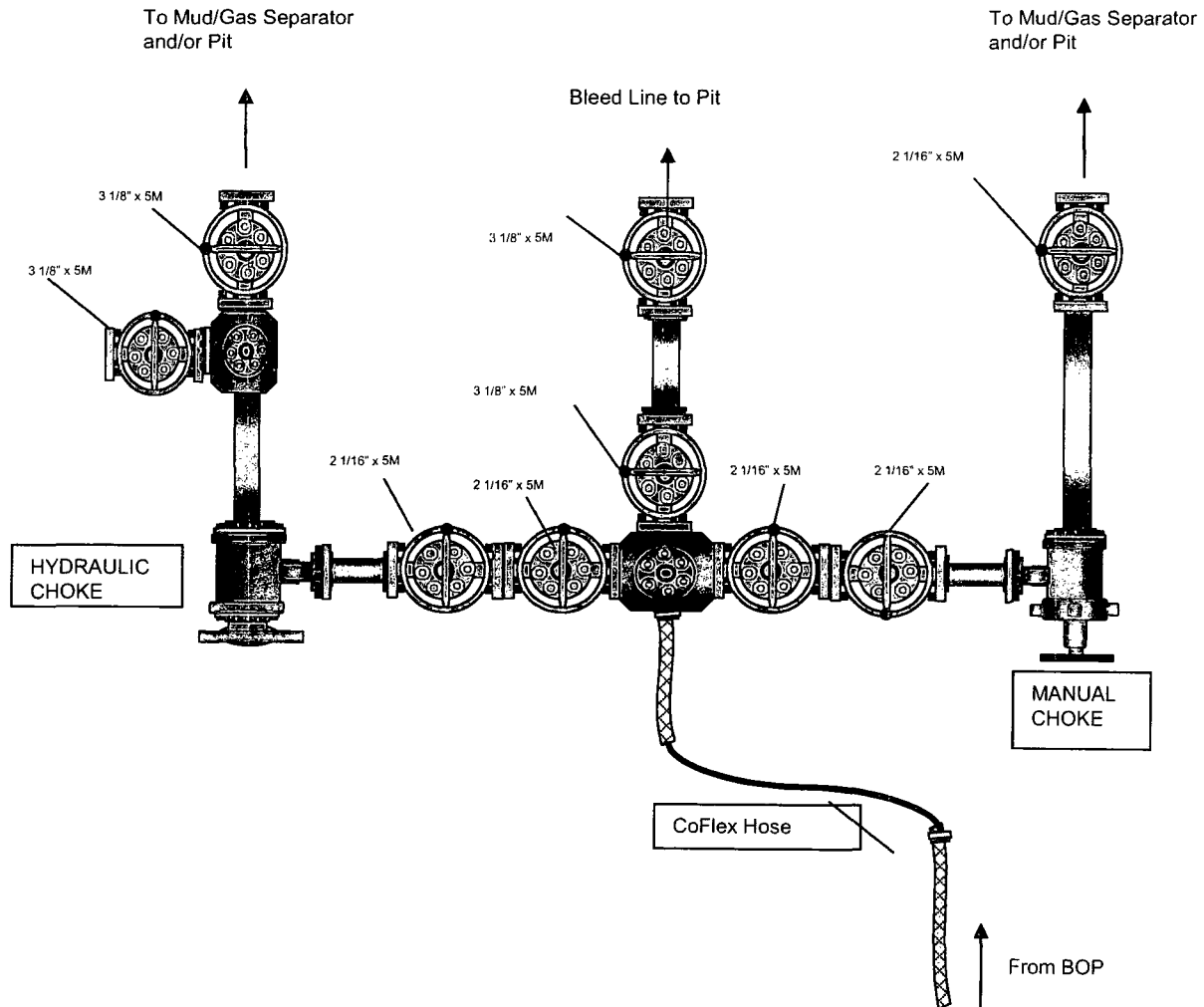
PROPRIETARY
THIS DRAWING AND THE IDEAS AND INFORMATION INCLUDED IN THIS DRAWING ARE PROPRIETARY AND ARE NOT TO BE REPRODUCED, DISTRIBUTED OR DISCLOSED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF A QUAL AUTHORIZED OFFICER OF HELMERICH & PAYNE INT'L DRILLING CO.

NOTES:
1. ALL BOP RAMS SHOWN ARE SHAFFER MODEL LXT
11-5M PSI WP - FLANGED BOTTOM AND STUDDED TOP

11"-5M BOP W/ ROTATING HEAD		ENGINEERING APPROVAL	DATE
△			
△			
△	08/08/08	ADDED 1 OF 4 SHTS WAS 1 OF 3	DRJ
△	07/28/08	SHEET 1 OF 3 WAS 1 OF 5	DRJ
REV	DATE	DESCRIPTION	BY

HELMERICH & PAYNE INTERNATIONAL DRILLING CO.	
TITLE: 11-5M BOP EQUIPMENT GENERAL ARRANGEMENT	
CUSTOMER: OXY-PERMAN	
PROJECT: F4M	
DRAWN: DJOHNSON	DATE: 07/14/08
SCALE: NTS	SHEET: 1 OF 4
REV: F4M-H-320 B	

5M CHOKE MANIFOLD CONFIGURATION



5M REMOTE KILL LINE SCHEMATIC

