

Operator Name/Number: OXY USA WTP LP 192463
 Lease Name/Number: Anderson 35 #6H 40222
 Pool Name/Number: Red Tank Bone Spring 51683
 Surface Location: 330 FSL 100 FWL M Sec 35 T21S R32E Fee
 Top Perf: 335 FSL 330 FWL M Sec 35 T21S R32E
 Bottom Perf: 446 FSL 330 FEL P Sec 35 T21S R32E
 Bottom Hole Location: 450 FSL 180 FEL P Sec 35 T21S R32E

C-102 Plats: 5/5/14 5/15/14 3/24/15 Elevation: 3691.9' GL Objective: 2nd Bone Spring

Proposed TD: Horizontal Lateral 10700' TVD 15457' TMD
 SL - Lat: 32.4288036 Long: 103.6532494 X=709837.5 Y=520380.6 NAD - 1927
 TP - Lat: 32.4288217 Long: 103.6525040 X=710067.4 Y=520388.6 NAD - 1927
 BP - Lat: 32.4291846 Long: 103.6375274 X=714687.7 Y=520550.4 NAD - 1927
 BH - Lat: 32.4291964 Long: 103.6370413 X=714837.6 Y=520555.6 NAD - 1927

Casing Program:

Hole Size	Interval	OD Csg	Weight	Collar	Grade	Condition	Collapse Design Factor	Burst Design Factor	Tension Design Factor
14-3/4"	0-1000'	11-3/4"	47	BT&C	J55	New	4.7	1.42	5.52
10-5/8"	0-4800'	8-5/8"	32	BT&C	J-55	New	2.58	1.25	2.19
7-7/8"	0-15457'	5-1/2"	17	BT&C	P-110	New	2.35	1.24	2.26

Collapse and burst loads calculated using Stress Check with anticipated loads

Cement Program:

- a. 11-3/4" Surface Circulate cement to surface w/ 400sx PPC cmt w/ 1% CaCl₂ + 4% Bentonite + .25#/sx Poly-E-Flake, 13.5ppg 1.73 yield 500# in 11.42 hrs CS 125% Excess followed by 240sx PPC cmt w/ 1% CaCl₂, 14.8ppg 1.34 yield 500# in 7.1 hrs CS 125% Excess
- b. 8-5/8" Intermediate Circulate cement to surface w/ 970sx HES Light PPC cmt w/ 5% salt + .5% HR-800, 12.9ppg 1.85 yield 500# in 12.44 hrs CS 125% Excess followed by 230sx PPC cmt, 14.8ppg 1.33 yield 500# in 6.31 hrs CS 125% Excess
- c. 5-1/2" Production Cement w/ 570sx Tuned Light cmt w/ 1#/sx Kol-Seal + .10#/sx Poly-E-Flake + .35% SCR-601, 10.2ppg 3.06 yield 500# in 15.07 hrs CS 400% Excess followed by 800sx Super H cmt w/ 3#/sx salt + .3% CFR-3 + .5% Halad-344 + 2#/sx Kol-Seal, 13.2ppg 1.65 yield 500# in 15.38 hrs CS 100% Excess, Calc TOC 3800'

Description of Cement Additives: Calcium Chloride, Salt (Accelerator); CFR-3 (Dispersant); Kol-Seal, Poly-E-Flake (Lost Circulation Additive); Halad-344 (Low Fluid Loss Control); SCR-601, HR-800 (Retarder)

The above cement volumes could be revised pending the caliper measurement.

Proposed Mud Circulation System:

Depth	Mud Wt. ppg	Visc sec	Fluid Loss	Type System
0 - 1000'	8.4-8.8	28-38	NC	Fresh Water/Spud Mud
1000 - 4800'	10.0-10.2	28-32	NC	Fresh water/NaCl Brine
4800 - TD	8.9-9.6	28-34	NC	Cut Brine/Sweeps

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:

Surface None
 Intermediate/Production 13-5/8" 10M three ram stack w/ 5M annular preventer, 5M Choke Manifold

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

Geological Marker	Depth	Type
a. Rustler	940'	Formation
b. Top Salt	2400'	Formation
c. Delaware	4775'	Formation
d. Delaware-Bell Canyon	4850'	Oil/Gas
e. Delaware-Cherry Canyon	5710'	Oil/Gas
f. Delaware-Brushy Canyon	6920'	Oil/Gas
g. Bone Spring	8700'	Oil/Gas
h. 1st Bone Spring	9850'	Oil/Gas
i. 2nd Bone Spring	10100'	Oil/Gas

Fresh water may be present above the Rustler formation. Surface casing will be set below the top of the Rustler, which will cover potential fresh water sources.

A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins. Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility.

SPACING UNIT:

The wells listed below are either permitted, drilled and/or completed in the following pools.

- Anderson 35 #2H - 30-025-41498 - TVD-8602' - Units M-N-O-P - Bilbry Delaware (Brushy Canyon)
- Anderson 35 #5H - 30-025-42123 - TVD-9897' - Units M-N-O-P - Red Tank Bone Spring (1st Bone Spring)



Anderson 35 6H
Lea County, New Mexico
Northing: 520380.60
Easting: 709837.50
Plan #1



Azimuths to Grid North
True North: -0.36°
Magnetic North: 6.80°
Magnetic Field
Strength: 48510.2snT
Dip Angle: 60.35°
Date: 3/18/2015
Model: HDGM

KB @ 3716.90usft
Gr@ 3691.90

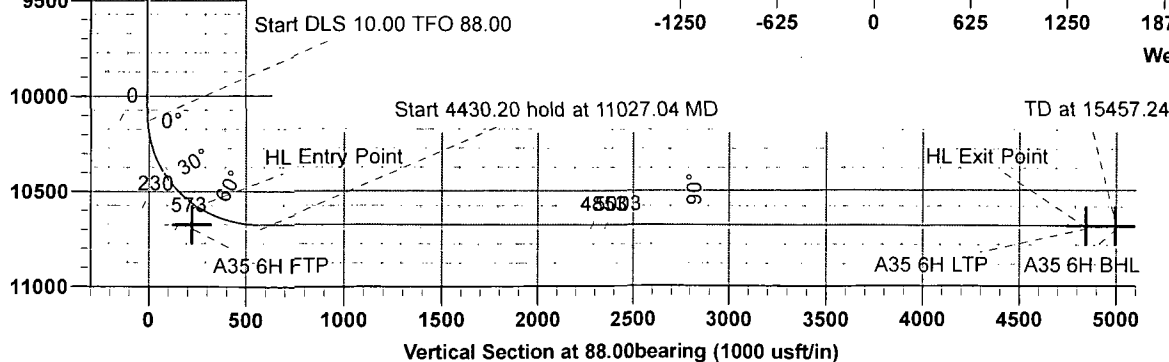
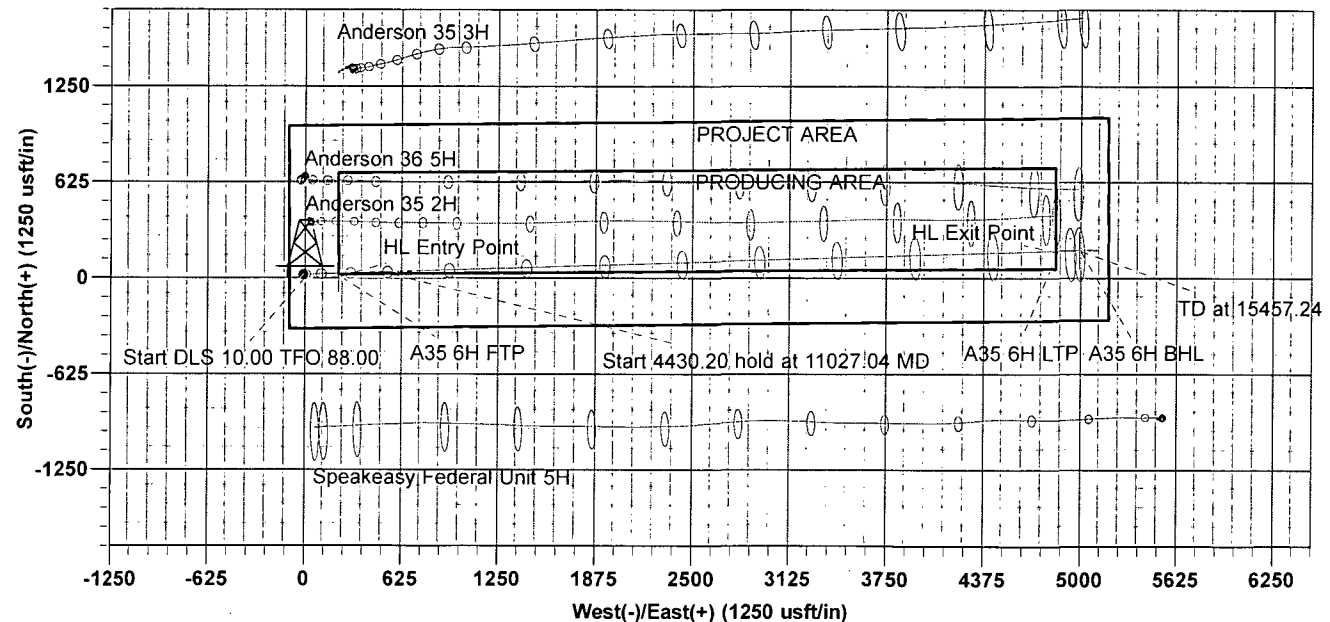
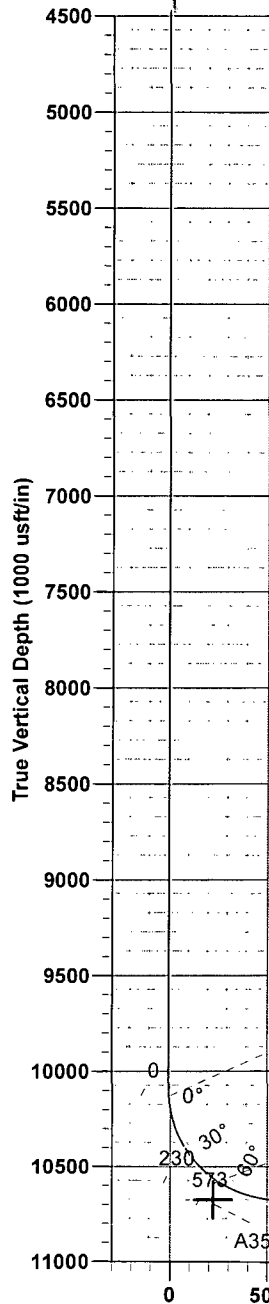
WELL DETAILS Anderson 35 6H					
Ground Level: 3691.90					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	520380.60	709837.50	32° 25' 43.694 N	103° 39' 11.698 W

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
A35 6H BHL	10700.00	175.00	5000.10	520555.60	714837.60
A35 6H FTP	10700.00	8.00	229.90	520388.60	710067.40
A35 6H LTP	10700.00	169.80	4850.20	520550.40	714687.70

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10127.04	0.00	0.00	0127.04	0.00	0.00	0.00	0.00	0.00	
11027.04	90.00	88.00	0700.00	20.04	572.61	10.00	88.00	572.96	
15457.24	90.00	88.00	0700.00	175.00	5000.10	0.00	0.00	5003.16	A35 6H BHL

PROJECT DETAILS:	
Lea County, New Mexico	
Geodetic System: US State Plane 1927 (Exact solution)	
Datum: NAD 1927 (NADCON CONUS)	
Ellipsoid: Clarke 1866	
Zone: New Mexico East 3001	
System Datum: Mean Sea Level	

SITE DETAILS:	
Anderson 35 6H	
Site Centre Northing: 520380.60	
Easting: 709837.50	
Positional Uncertainty: 0.00	
Convergence: 0.36	
Local North: Grid	



Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well Anderson 35 6H
Company:	OXY	TVD Reference:	KB @ 3716.9usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3716.9usft
Site:	Anderson 35 6H	North Reference:	Grid
Well:	Anderson 35 6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project		Lea County, New Mexico	
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		Anderson 35 6H			
Site Position:		Northing:	520,380.60 usft	Latitude:	32° 25' 43.694 N
From:	Map	Easting:	709,837.50 usft	Longitude:	103° 39' 11.698 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.36 °

Well	Anderson 35 6H					
Well Position	+N/-S	0.0 usft	Northing:	520,380.60 usft	Latitude:	32° 25' 43.694 N
	+E/-W	0.0 usft	Easting:	709,837.50 usft	Longitude:	103° 39' 11.698 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,691.9 usft

Wellbore	OH				
Magnetics	Model/Name	Sample Date	Declination (°)	Dip/Angle (°)	Field Strength (nT)
	HDGM	3/18/2015	7.17	60.35	48,510

Design		Plan #1		
Audit Notes:				
Version:		Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	88.00

Plan Sections										
(Measured			Vertical			(Dogleg	(Build	(Turn		
Depth	Inclination	Azimuth	Depth	+N/S	+E/W	Rate	Rate	Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
10,127.0	0.00	0.00	10,127.0	0.0	0.0	0.00	0.00	0.00	0.00	
11,027.0	90.00	88.00	10,700.0	20.0	572.6	10.00	10.00	9.78	88.00	
15,457.2	90.00	88.00	10,700.0	175.0	5,000.1	0.00	0.00	0.00	0.00	A35 6H BHL

Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well Anderson 35 6H
Company:	OXY	TVD Reference:	KB @ 3716.9usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3716.9usft
Site:	Anderson 35 6H	North Reference:	Grid
Well:	Anderson 35 6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well Anderson 35 6H
Company:	OXY	TVD Reference:	KB @ 3716.9usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3716.9usft
Site:	Anderson 35 6H	North Reference:	Grid
Well:	Anderson 35 6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,600.0	0.0	0.0	0.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,900.0	0.0	0.0	0.0	0.00	0.00	0.00
10,000.0	0.00	0.00	10,000.0	0.0	0.0	0.0	0.00	0.00	0.00
10,100.0	0.00	0.00	10,100.0	0.0	0.0	0.0	0.00	0.00	0.00
10,127.0	0.00	0.00	10,127.0	0.0	0.0	0.0	0.00	0.00	0.00
Start DLS 10.00 TFO 88.00									
10,150.0	2.30	88.00	10,150.0	0.0	0.5	0.5	10.00	10.00	0.00
10,200.0	7.30	88.00	10,199.8	0.2	4.6	4.6	10.00	10.00	0.00
10,250.0	12.30	88.00	10,249.1	0.5	13.1	13.1	10.00	10.00	0.00

Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well Anderson 35 6H
Company:	OXY	TVD Reference:	KB @ 3716.9usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3716.9usft
Site:	Anderson 35 6H	North Reference:	Grid
Well:	Anderson 35 6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,300.0	17.30	88.00	10,297.4	0.9	25.9	25.9	10.00	10.00	0.00
10,350.0	22.30	88.00	10,344.4	1.5	42.8	42.8	10.00	10.00	0.00
10,400.0	27.30	88.00	10,389.8	2.2	63.8	63.8	10.00	10.00	0.00
10,450.0	32.30	88.00	10,433.2	3.1	88.6	88.6	10.00	10.00	0.00
10,500.0	37.30	88.00	10,474.2	4.1	117.1	117.2	10.00	10.00	0.00
10,550.0	42.30	88.00	10,512.6	5.2	149.1	149.2	10.00	10.00	0.00
10,600.0	47.30	88.00	10,548.1	6.4	184.3	184.4	10.00	10.00	0.00
10,650.0	52.30	88.00	10,580.4	7.8	222.4	222.5	10.00	10.00	0.00
10,659.5	53.25	88.00	10,586.1	8.0	230.0	230.1	10.00	10.00	0.00
HL Entry Point									
10,700.0	57.30	88.00	10,609.2	9.2	263.2	263.4	10.00	10.00	0.00
10,750.0	62.30	88.00	10,634.3	10.7	306.4	306.6	10.00	10.00	0.00
10,800.0	67.30	88.00	10,655.6	12.3	351.6	351.8	10.00	10.00	0.00
10,850.0	72.30	88.00	10,672.9	13.9	398.5	398.7	10.00	10.00	0.00
10,900.0	77.30	88.00	10,686.0	15.6	446.7	447.0	10.00	10.00	0.00
10,950.0	82.30	88.00	10,694.8	17.4	495.8	496.1	10.00	10.00	0.00
11,000.0	87.30	88.00	10,699.4	19.1	545.6	545.9	10.00	10.00	0.00
11,027.0	90.00	88.00	10,700.0	20.0	572.6	573.0	10.00	10.00	0.00
Start 4430.20 hold at 11027.04 MD									
11,100.0	90.00	88.00	10,700.0	22.6	645.5	645.9	0.00	0.00	0.00
11,200.0	90.00	88.00	10,700.0	26.1	745.5	745.9	0.00	0.00	0.00
11,300.0	90.00	88.00	10,700.0	29.6	845.4	845.9	0.00	0.00	0.00
11,400.0	90.00	88.00	10,700.0	33.1	945.3	945.9	0.00	0.00	0.00
11,500.0	90.00	88.00	10,700.0	36.6	1,045.3	1,045.9	0.00	0.00	0.00
11,600.0	90.00	88.00	10,700.0	40.1	1,145.2	1,145.9	0.00	0.00	0.00
11,700.0	90.00	88.00	10,700.0	43.6	1,245.2	1,245.9	0.00	0.00	0.00
11,800.0	90.00	88.00	10,700.0	47.1	1,345.1	1,345.9	0.00	0.00	0.00
11,900.0	90.00	88.00	10,700.0	50.6	1,445.0	1,445.9	0.00	0.00	0.00
12,000.0	90.00	88.00	10,700.0	54.1	1,545.0	1,545.9	0.00	0.00	0.00
12,100.0	90.00	88.00	10,700.0	57.6	1,644.9	1,645.9	0.00	0.00	0.00
12,200.0	90.00	88.00	10,700.0	61.1	1,744.8	1,745.9	0.00	0.00	0.00
12,300.0	90.00	88.00	10,700.0	64.6	1,844.8	1,845.9	0.00	0.00	0.00
12,400.0	90.00	88.00	10,700.0	68.1	1,944.7	1,945.9	0.00	0.00	0.00
12,500.0	90.00	88.00	10,700.0	71.6	2,044.7	2,045.9	0.00	0.00	0.00
12,600.0	90.00	88.00	10,700.0	75.1	2,144.6	2,145.9	0.00	0.00	0.00
12,700.0	90.00	88.00	10,700.0	78.6	2,244.5	2,245.9	0.00	0.00	0.00
12,800.0	90.00	88.00	10,700.0	82.1	2,344.5	2,345.9	0.00	0.00	0.00
12,900.0	90.00	88.00	10,700.0	85.6	2,444.4	2,445.9	0.00	0.00	0.00
13,000.0	90.00	88.00	10,700.0	89.1	2,544.4	2,545.9	0.00	0.00	0.00
13,100.0	90.00	88.00	10,700.0	92.5	2,644.3	2,645.9	0.00	0.00	0.00
13,200.0	90.00	88.00	10,700.0	96.0	2,744.2	2,745.9	0.00	0.00	0.00
13,300.0	90.00	88.00	10,700.0	99.5	2,844.2	2,845.9	0.00	0.00	0.00
13,400.0	90.00	88.00	10,700.0	103.0	2,944.1	2,945.9	0.00	0.00	0.00
13,500.0	90.00	88.00	10,700.0	106.5	3,044.1	3,045.9	0.00	0.00	0.00
13,600.0	90.00	88.00	10,700.0	110.0	3,144.0	3,145.9	0.00	0.00	0.00
13,700.0	90.00	88.00	10,700.0	113.5	3,243.9	3,245.9	0.00	0.00	0.00
13,800.0	90.00	88.00	10,700.0	117.0	3,343.9	3,345.9	0.00	0.00	0.00
13,900.0	90.00	88.00	10,700.0	120.5	3,443.8	3,445.9	0.00	0.00	0.00
14,000.0	90.00	88.00	10,700.0	124.0	3,543.7	3,545.9	0.00	0.00	0.00
14,100.0	90.00	88.00	10,700.0	127.5	3,643.7	3,645.9	0.00	0.00	0.00
14,200.0	90.00	88.00	10,700.0	131.0	3,743.6	3,745.9	0.00	0.00	0.00
14,300.0	90.00	88.00	10,700.0	134.5	3,843.6	3,845.9	0.00	0.00	0.00
14,400.0	90.00	88.00	10,700.0	138.0	3,943.5	3,945.9	0.00	0.00	0.00
14,500.0	90.00	88.00	10,700.0	141.5	4,043.4	4,045.9	0.00	0.00	0.00

Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well Anderson 35 6H
Company:	OXY	TVD Reference:	KB @ 3716.9usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3716.9usft
Site:	Anderson 35 6H	North Reference:	Grid
Well:	Anderson 35 6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
14,600.0	90.00	88.00	10,700.0	145.0	4,143.4	4,145.9	0.00	0.00	0.00	
14,700.0	90.00	88.00	10,700.0	148.5	4,243.3	4,245.9	0.00	0.00	0.00	
14,800.0	90.00	88.00	10,700.0	152.0	4,343.3	4,345.9	0.00	0.00	0.00	
14,900.0	90.00	88.00	10,700.0	155.5	4,443.2	4,445.9	0.00	0.00	0.00	
15,000.0	90.00	88.00	10,700.0	159.0	4,543.1	4,545.9	0.00	0.00	0.00	
15,100.0	90.00	88.00	10,700.0	162.5	4,643.1	4,645.9	0.00	0.00	0.00	
15,200.0	90.00	88.00	10,700.0	166.0	4,743.0	4,745.9	0.00	0.00	0.00	
15,300.0	90.00	88.00	10,700.0	169.5	4,843.0	4,845.9	0.00	0.00	0.00	
15,307.2	90.00	88.00	10,700.0	169.8	4,850.1	4,853.1	0.00	0.00	0.00	
HL Exit Point										
15,400.0	90.00	88.00	10,700.0	173.0	4,942.9	4,945.9	0.00	0.00	0.00	
15,457.2	90.00	88.00	10,700.0	175.0	5,000.1	5,003.2	0.00	0.00	0.00	
TD at 15457.24										

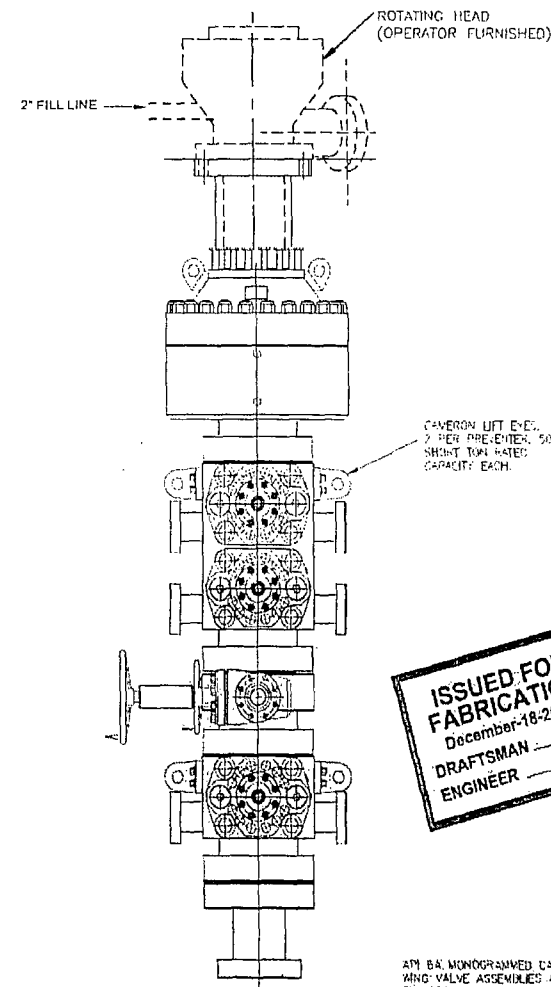
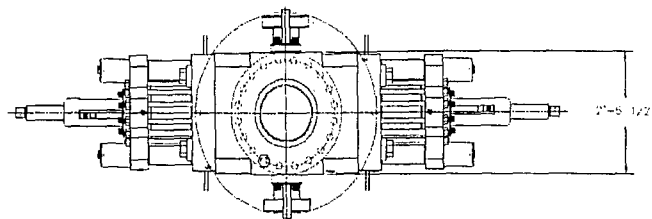
Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
A35 6H BHL	0.00	0.00	10,700.0	175.0	5,000.1	520,555.60	714,837.60	32° 25' 45.106 N	103° 38' 13.349 W	
- plan hits target center										
- Point										
A35 6H LTP	0.00	0.00	10,700.0	169.8	4,850.2	520,550.40	714,687.70	32° 25' 45.065 N	103° 38' 15.098 W	
- plan hits target center										
- Point										
A35 6H FTP	0.00	0.00	10,700.0	8.0	229.9	520,388.60	710,067.40	32° 25' 43.758 N	103° 39' 9.015 W	
- plan misses target center by 94.8usft at 10716.9usft MD (10618.1 TVD, 9.7 N, 277.6 E)										
- Point										

Plan/Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
10,127.0	10,127.0	0.0	0.0	Start DLS 10.00 TFO 88.00	
10,659.5	10,586.1	8.0	230.0	HL Entry Point	
11,027.0	10,700.0	20.0	572.6	Start 4430.20 hold at 11027.04 MD	
15,307.2	10,700.0	169.8	4,850.1	HL Exit Point	
15,457.2	10,700.0	175.0	5,000.1	TD at 15457.24	



Terry J. Asell 3/15/2014
Terry J. Asell R.P.I.S. No. 15079

Scale: 1"=200'



- LEGEND:
- ① - 4 1/16"-10M FLANGED END GATE VALVE
 - ② - 4 1/16"-10M FLANGED END GATE VALVE WITH DOUBLE ACTING HYDRAULIC ACTUATOR
 - ③ - 2 1/16"-10M FLANGED END GATE VALVE
 - ④ - 2 1/16"-10M FLANGED END CHECK VALVE
 - ⑤ - DOUBLE STUDDED ADAPTER

SHAFFER PATENT-COVER SPHERICAL ANNULAR PREVENTER (API 16A MONOGRAMMED, 13 5/8"-10M WP), 10M BOTTOM FLANGE & 5M STUDDED TOP (WEIGHT = 14,300 LBS WITH SHAFFER API 16A HOT OIL RESISTANT ADJUSTABLE ELEMENT)

CAMERON 10M DOUBLE RAM-TYPE PREVENTER (API 16A MONOGRAMMED, 13 5/8"-10M WP), WITH 5" CAMERON PIPE RAMS (CAMRAM FRONT PACKERS & TOP SEALS) IN TOP CAVITY AND CAMERON 10M SHEARING HUNG RAMS IN BOTTOM CAVITY. BOTTOM FLANGE & STUDDED TOP (WEIGHT = 21,100 LBS WITH RAMS)

13 5/8"-10M WP CAMERON DRILLING SPOOL (API 16A MONOGRAMMED), STUDDED TOP & FLANGED BOTTOM, WITH 4 1/16"-10M WP FLANGED OUTLETS (WEIGHT APPROXIMATELY 6,000 LBS)

CAMERON 10M SINGLE RAM-TYPE PREVENTER (API 16A MONOGRAMMED, 13 5/8"-10M WP), WITH 5" CAMERON PIPE RAMS (CAMRAM FRONT PACKERS & TOP SEALS) BOTTOM FLANGE & STUDDED TOP (WEIGHT = 10,900 LBS)

H&P FURNISHED
13 5/8"-10M x 13 5/8"-5M
ADAPTER SPOOL 2'-0" LONG

13 5/8"-10M BOP STACK
WITH 13 5/8"-5M ANNULAR

PROPRIETARY

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

ISSUED FOR
FABRICATION
December-18-2007
DRAFTSMAN
ENGINEER

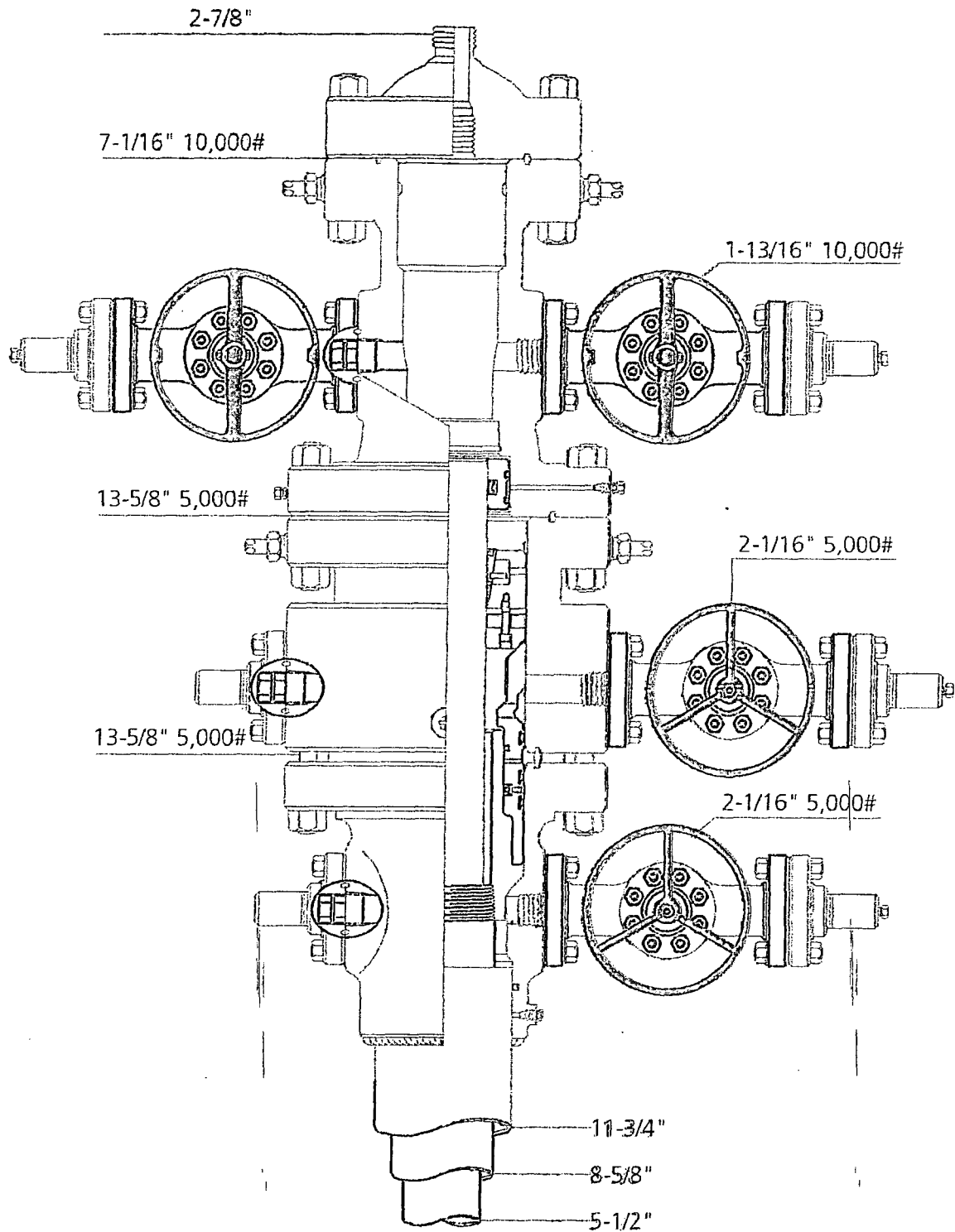
API 16A MONOGRAMMED CAMERON CHOKER AND KILLING VALVE ASSEMBLIES ARE NOT SHOWN FOR CLARITY
HEIGHTS DO NOT INCLUDE HOSES, ADAPTER SPOOLS OR QUICK CONNECT FITTINGS

HELMERICH & PAYNE
INTERNATIONAL DRILLING CO.

13 5/8"-10M BOP 3 RAM STACK
'FLEXRIG'

ENGINEERING APPROVAL		DATE	TITLE
12/18/07	ADDED SHEET 01	JAV	
4-10-07	UNCHANGED ADDED DOUBLE STUDDED ADAPTER SPOOLS 1, 2, & 3 AND 40 DIETS WERE ADDED	JAV	
4-04-07	ADDED TO 'SPACER' ADAPTER SPOOL	JAV	
03-07-07	ADDED 'ADAPTER' SPOOL	JAV	
06-13-02	CORRECTED 'BOP' STACK	JAV	
REV	DATE	DESCRIPTION	BY
1	12/18/07	ADDED SHEET 01	JAV
2	4-10-07	UNCHANGED ADDED DOUBLE STUDDED ADAPTER SPOOLS 1, 2, & 3 AND 40 DIETS WERE ADDED	JAV
3	4-04-07	ADDED TO 'SPACER' ADAPTER SPOOL	JAV
4	03-07-07	ADDED 'ADAPTER' SPOOL	JAV
5	06-13-02	CORRECTED 'BOP' STACK	JAV

CUSTOMER: H&P
PROJECT: FLEXRIG
DRAWING: MTS
DATE: 8-5-02
SCALE: 3/4"=1'
SHEET: 1 OF 1
210-P1-07
REV: E

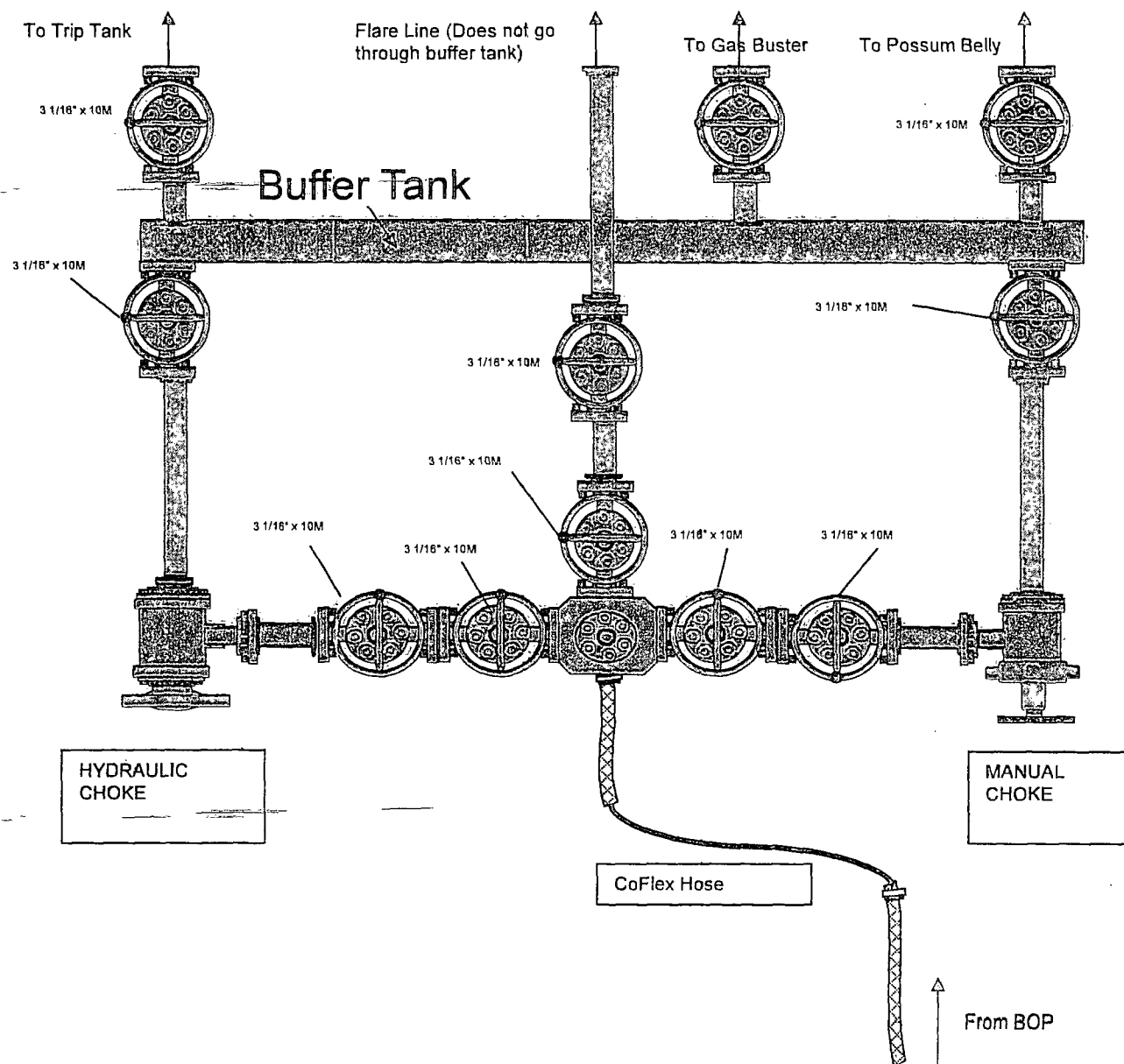


Permian Basin
MBS

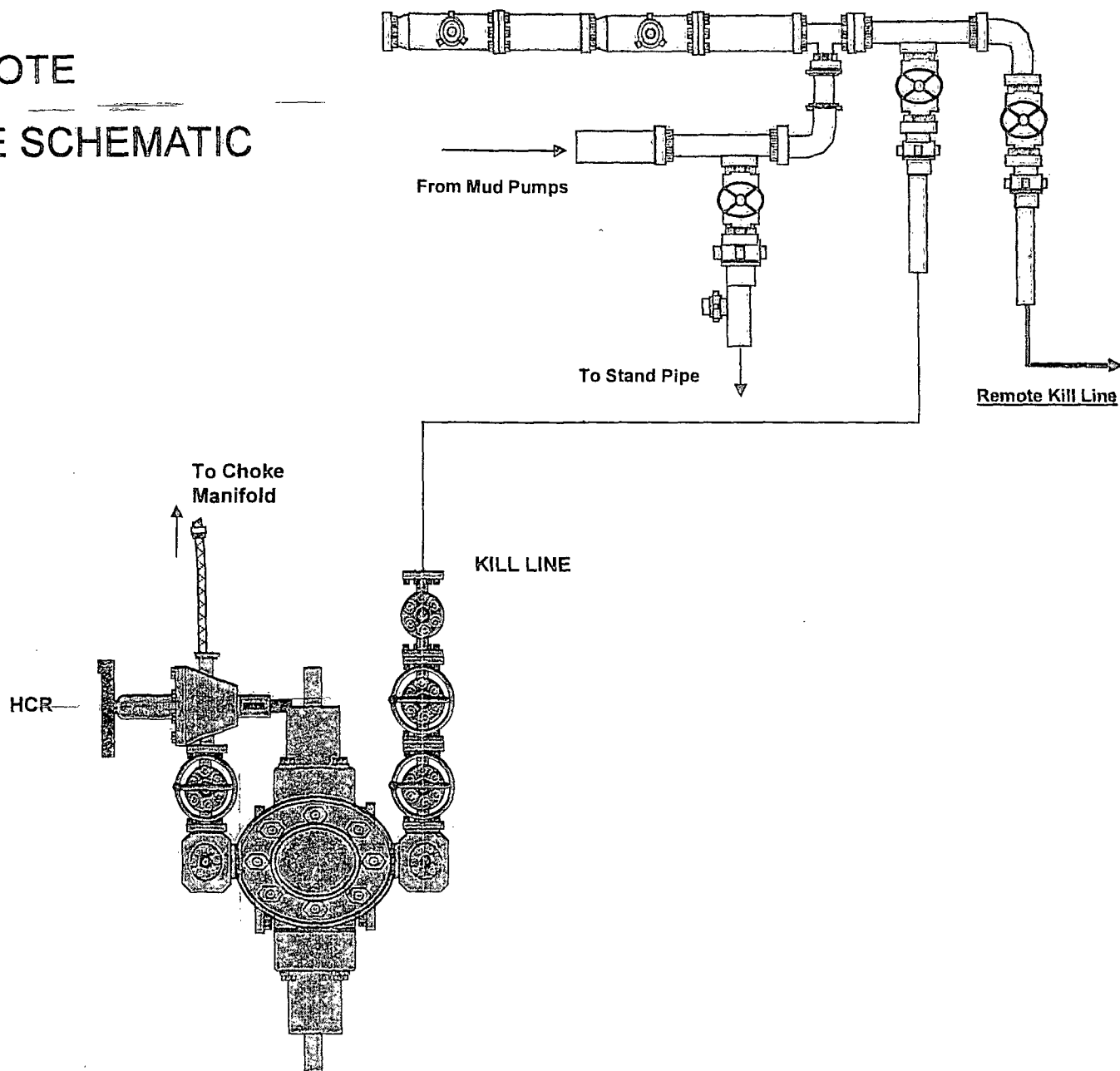
CAMERON

Part	Jeanette	1-31-13	#	21073221
------	----------	---------	---	----------

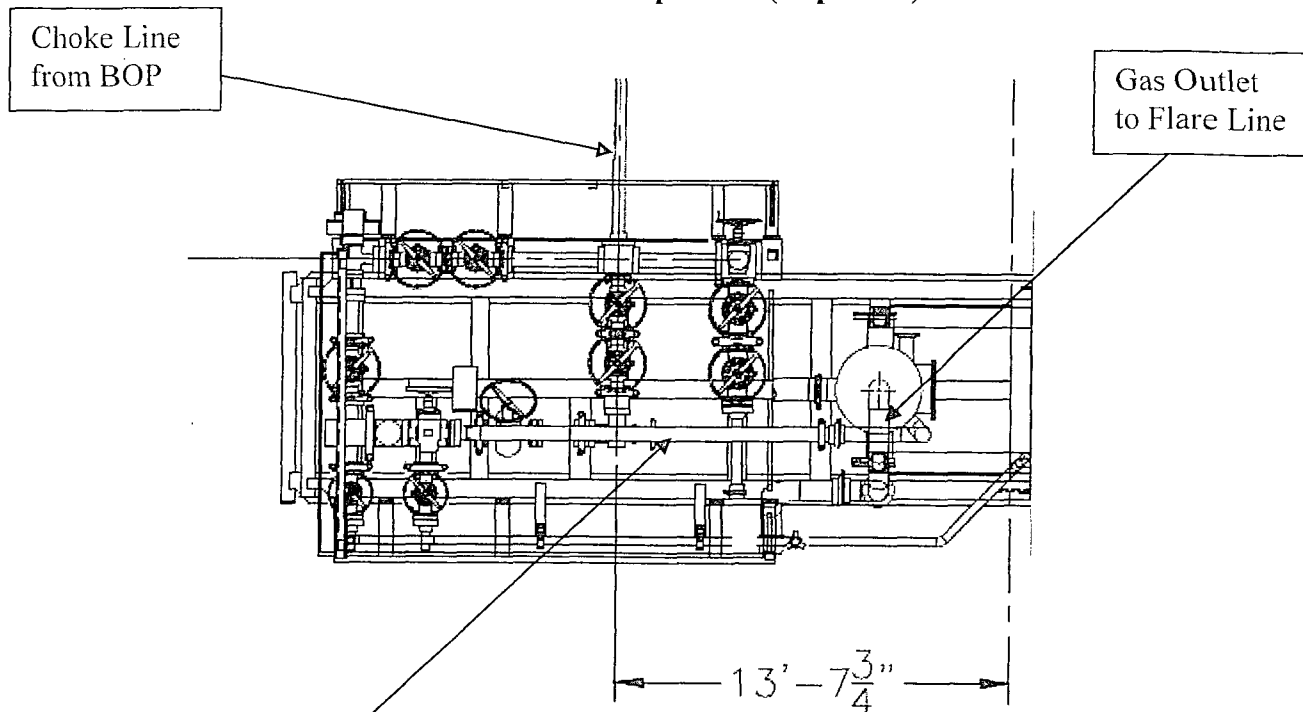
FLEX3 STD CHOKE MANIFOLD (COMPREHENSIVE)



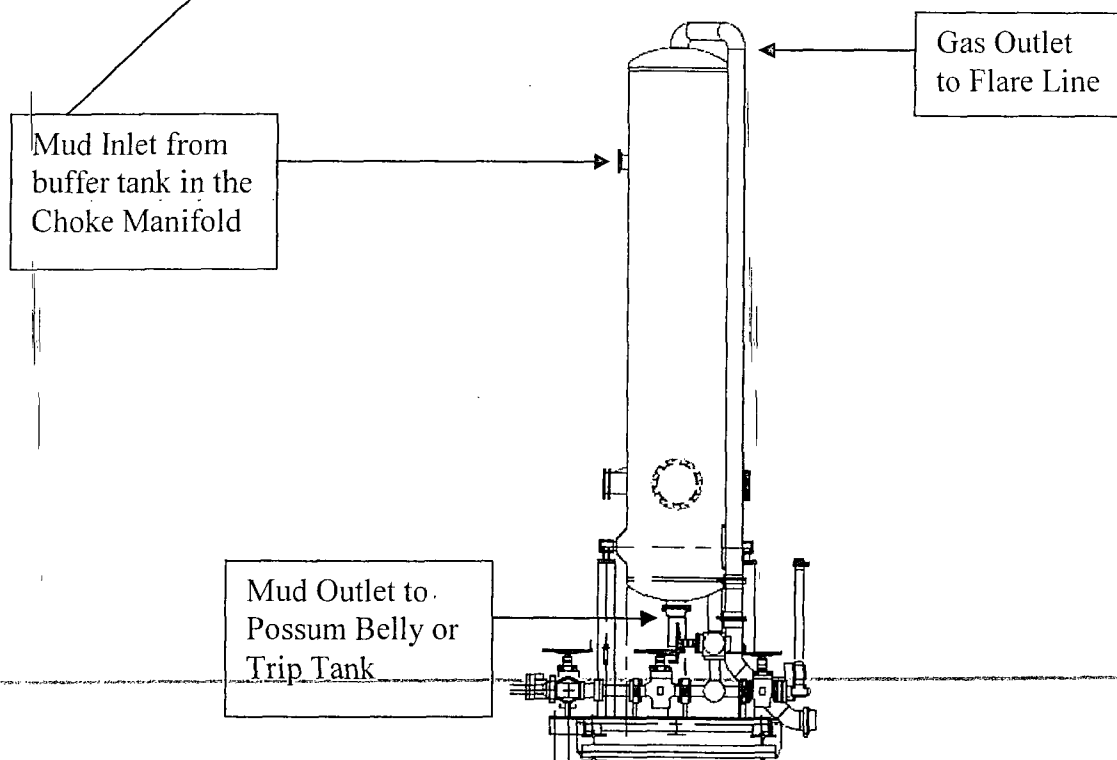
10M REMOTE KILL LINE SCHEMATIC



Choke Manifold – Gas Separator (Top View)

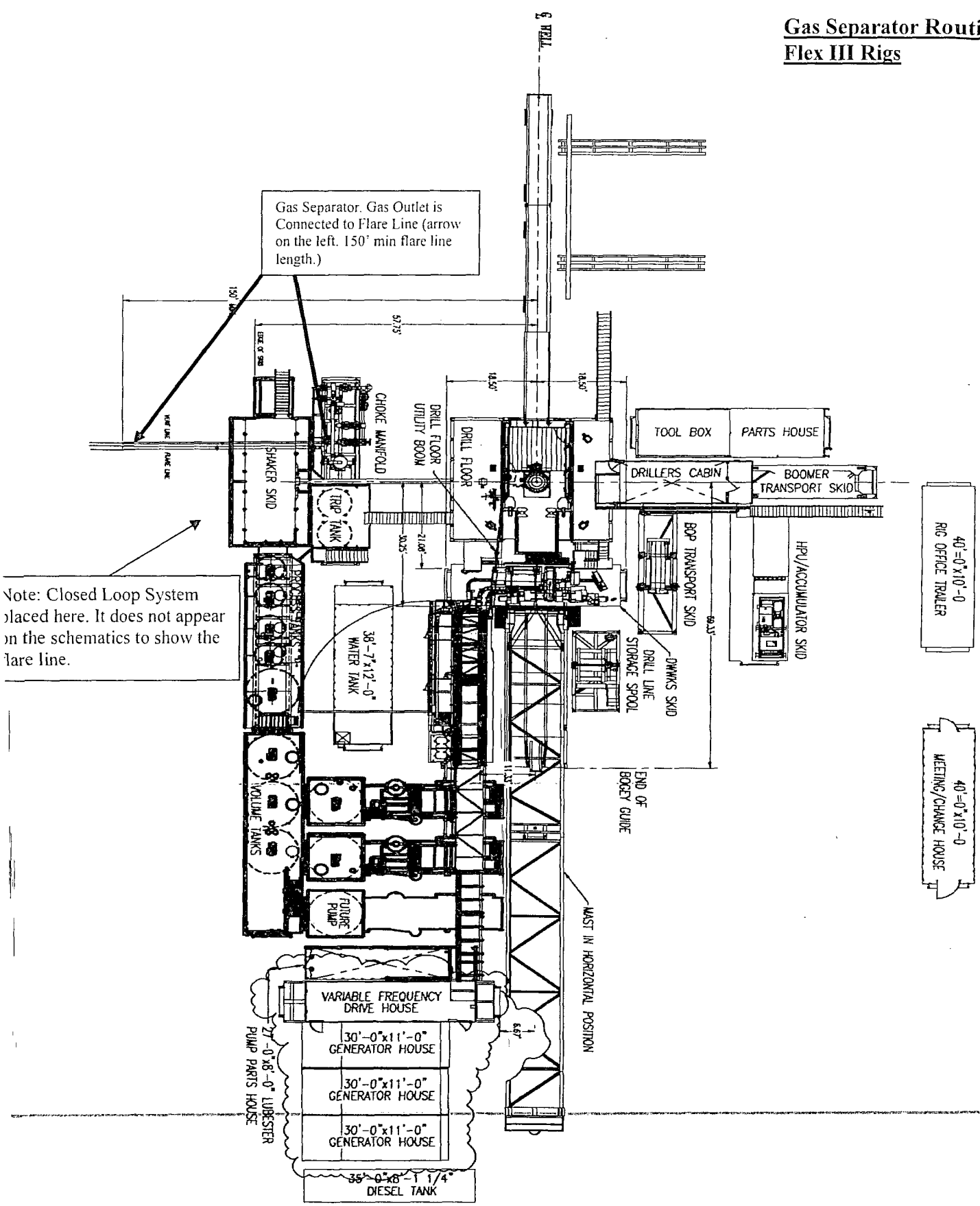


Choke Manifold – Gas Separator (Side View)



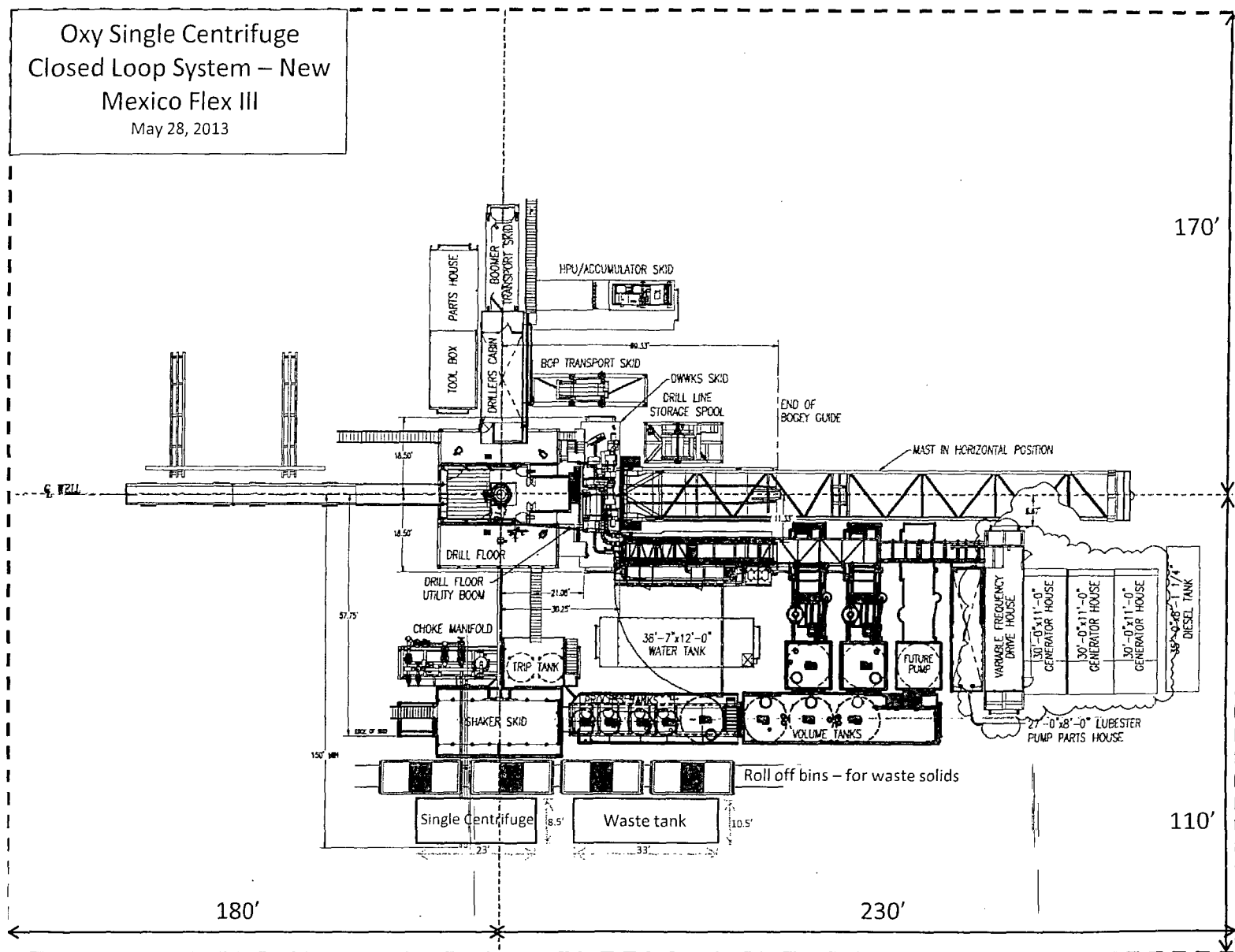
CM-4

Gas Separator Routing Flex III Rigs

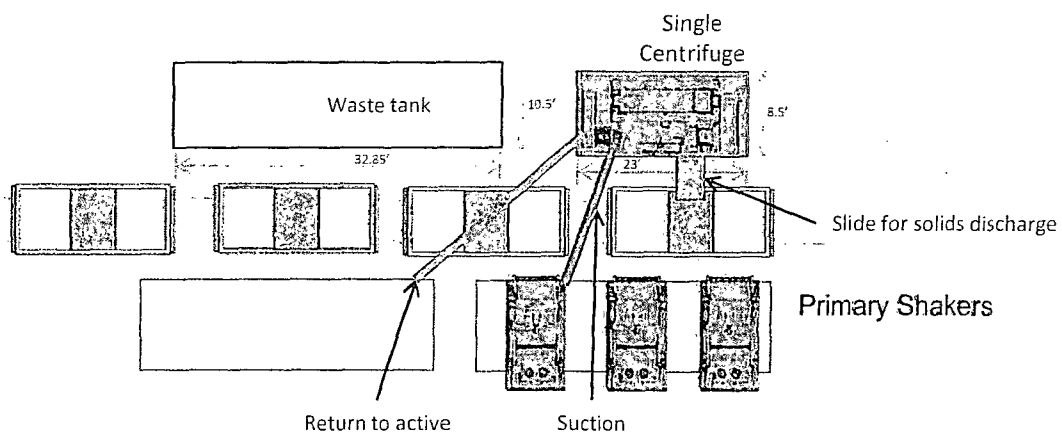


Oxy Single Centrifuge
Closed Loop System – New
Mexico Flex III

May 28, 2013



Oxy



Well Head



Oxy Single Centrifuge
Closed Loop System – New
Mexico Flex III
May 28, 2013