

OCD Hobbs
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS

FEB 29 2016

RECEIVED

ATS-15-537

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM113970
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator OXY USA INC. (16696)		7. If Unit or CA Agreement, Name and No.
Contact: DAVID STEWART E-Mail: david_stewart@oxy.com		8. Lease Name and Well No. MAMMOTH 1 FEDERAL 1H (316014)
3a. Address P.O. BOX 50250 MIDLAND, TX 79710	3b. Phone No. (include area code) Ph: 432-685-5717 Fx: 432-685-5717	9. API Well No. 30-025-43095
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SESE 220FSL 380FEL 32.065611 N Lat, 103.415891 W Lon At proposed prod. zone NENE 180FNL 380FEL 32.079027 N Lat, 103.415893 W Lon		10. Field and Pool, or Exploratory JABALINA DELAWARE, SW 97597
14. Distance in miles and direction from nearest town or post office* 12 MILES SOUTHWEST FROM JAL, NM		11. Sec., T., R., M., or Blk. and Survey or Area Sec 1 T26S R34E Mer
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 180'	16. No. of Acres in Lease 640.00	12. County or Parish LEA
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 380'	19. Proposed Depth 13635 MD 9000 TVD	13. State NM
21. Elevations (Show whether DF, KB, RT, GL, etc.) 3280 GL	22. Approximate date work will start 06/01/2016	17. Spacing Unit dedicated to this well 160.00
		20. BLM/BIA Bond No. on file ESB00226
		23. Estimated duration 35

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. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 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). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature (Electronic Submission) 	Name (Printed/Typed) DAVID STEWART Ph: 432-685-5717	Date 03/27/2015
Title SR. REGULATORY ADVISOR		
Approved by (Signature) James A. Amos	Name (Printed/Typed)	FEB 23 2016
Title FIELD MANAGER	Office CARLSBAD FIELD OFFICE	

Application approval does not warrant or certify 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.C. 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.

Additional Operator Remarks (see next page)

Electronic Submission #296480 verified by the BLM Well Information System
For OXY USA INC., sent to the Hobbs

Carlsbad Controlled Water Basin

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

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

HOBBS OCDOPERATOR NAME / NUMBER: OXY USA INC16696

FEB 29 2016

LEASE NAME / NUMBER: Mammoth 1 Federal #1HFederal Lease No. NMNM113970**RECEIVED**STATE: NMCOUNTY: LeaPOOL NAME/NUMBER: Jabalina Delaware, Southwest97597

SURFACE LOCATION:

220 FSL 380 FEL SESE (P) Sec 1 T26S R34E

SL: LAT: 32.0656112N LONG:103.4158908W X:784204.93 Y:388802.04 NAD: 27

TOP PERFORATION:

340 FSL 380 FEL SESE(P) Sec 1 T26S R34E

TP: LAT: 32.0659411N LONG:103.4158909W X:784203.89 Y:388922.03 NAD: 27

BOTTOM PERFORATION:

340 FNL 380 FEL NENE (A) Sec 1 T26S R34E

BP: LAT: 32.0785872N LONG:103.4158932W X:784164.05 Y:393522.45 NAD: 27

BOTTOM HOLE LOCATION:

180 FNL 380 FEL NENE(A) Sec 1 T26S R34E

BHL: LAT: 32.0790270N LONG:103.4158933W X:784162.66 Y:393682.44 NAD: 27

APPROX GR ELEV: 3280.4'EST KB ELEV: 3305.4' (25' KB-GL)COMPANY PERSONNEL:

<u>Name</u>	<u>Title</u>	<u>Office Phone</u>	<u>Mobile Phone</u>
Linsay Earle	Drilling Engineer	713-350-4921	832-596-5507
Sebastian Millan	Drilling Engineer Supervisor	713-350-4950	832-528-3268
Roger Allen	Drilling Superintendent	713-215-7617	281-682-3919

SPACING UNITS:

No Wells

OPERATOR NAME / NUMBER: OXY USA INC

16696

LEASE NAME / NUMBER: Mammoth 1 Federal #1H

Federal Lease No. NMNM113970

STATE: NM

COUNTY: Lea

POOL NAME/NUMBER: Jabalina Delaware, Southwest

97597

SURFACE LOCATION: 220 FSL 380 FEL SESE (P) Sec 1 T26S R34E

SL: LAT: 32.0656112N LONG:103.4158908W X:784204.93 Y:388802.04 NAD: 27

TOP PERFORATION: 340 FSL 380 FEL SESE(P) Sec 1 T26S R34E

TP: LAT: 32.0659411N LONG:103.4158909W X:784203.89 Y:388922.03 NAD: 27

BOTTOM PERFORATION: 340 FNL 380 FEL NENE (A) Sec 1 T26S R34E

BP: LAT: 32.0785872N LONG:103.4158932W X:784164.05 Y:393522.45 NAD: 27

BOTTOM HOLE LOCATION: 180 FNL 380 FEL NENE(A) Sec 1 T26S R34E

BHL: LAT: 32.0790270N LONG:103.4158933W X:784162.66 Y:393682.44 NAD: 27

APPROX GR ELEV: 3280.4'

EST KB ELEV: 3305.4' (25' KB-GL)

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<u>Name</u>	<u>Title</u>	<u>Office Phone</u>	<u>Mobile Phone</u>
Linsay Earle	Drilling Engineer	713-350-4921	832-596-5507
Sebastian Millan	Drilling Engineer Supervisor	713-350-4950	832-528-3268
Roger Allen	Drilling Superintendent	713-215-7617	281-682-3919

SPACING UNITS:

No Wells

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
14.75"	0	1,100	11.75"	47	J55	BTC	1.42	4.15	5.12
10.625"	0	5,375	8.625"	32	J55	BTC	1.24	2.32	2.05
7.875"	0	13,635	5.5"	17	P-110	BTC	1.20	1.88	2.36
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	N/A
Is well within the designated 4 string boundary.	N/A
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	N/A
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	N/A
Is 2 nd string set 100' to 600' below the base of salt?	N/A
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	N/A
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	N/A
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	N/A

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	460	13.5	1.73	9.11	11:42	Premium Plus Cement, with 4% Bentonite (Light Weight Additive), 1% Calcium Chloride (Accelerator), 0.25lbm Poly-E-Flake (Lost Circulation Additive)
	240	14.8	1.34	6.36	07:10	Premium Plus cement with 1% Calcium Chloride
Inter.	1110	12.9	1.85	9.86	12:44	Light Premium Plus Cement, with 5% Salt (Accelerator), 0.50% HR-800 (Retarder)
	230	14.8	1.33	6.34	06:31	Premium Plus cement
	DV/ECP Tool N/A					
	N/A					
	N/A					
Prod.	520	10.2	3.06	15.65	15:07	Tuned Light, 1 lbm/sk Kol-Seal (Lost Circulation Additive), 0.10 lbm/sk Poly-E-Flake, 0.35 % HR-601 (Retarder)
	780	13.2	1.65	8.46	15:38	Super H Cement, 2 lbm/sk Kol-Seal, 3 lbm/sk Salt, 0.3 % CFR-3 (Dispersant) & 0.5% Halad-344 (Low Fluid Loss Control)
	DV/ECP Tool N/A					
	N/A					
	N/A					

Casing String	TOC	% Excess (Tail/Lead)
Surface	0'	125%
Intermediate	0'	125%
Production	4,375'	40% / 100%

Include Pilot Hole Cementing specs:

Pilot hole depth N/A**KOP 8427'**

Plug top	Plug Bottom	% Excess	No. Sacks	Wt. lb/gal	Yld ft3/sack	Water gal/sk	Slurry Description and Cement Type
N/A							
N/A							

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
10.625" Intermediate	13-5/8"	5M	Annular	✓	70% of working pressure
			Blind Ram	✓	250/5000psi
			Pipe Ram		
			Double Ram	✓	
			Other*		
			Annular		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other		
			Annular		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other		

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
Y	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. See attached schematic.

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. shoe	FW Gel	8.4-8.8	28-38	N/C
Surf csg	Int shoe	Saturated Brine	10.0-10.2	28-32	N/C
Int shoe	TD	Cut Brine	8.9-9.6	28-34	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT
---	-----

6. Logging and Testing Procedures

Logging, Coring and Testing.	
No	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
Yes	No Logs are planned based on well control or offset log information.
No	Drill stem test? If yes, explain
No	Coring? If yes, explain

Additional logs planned		Interval
No	Resistivity	
No	Density	
No	CBL	
No	Mud log	
No	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4400 psi
Abnormal Temperature	No

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. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.

Hydrogen Sulfide (H ₂ S) monitors will be installed prior to drilling out the surface shoe. If H ₂ S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H ₂ S is present
Y	H ₂ S Plan attached

8. Other facets of operation

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe.	No
Will more than one drilling rig be used for drilling operations? If yes, describe.	No

Attachments

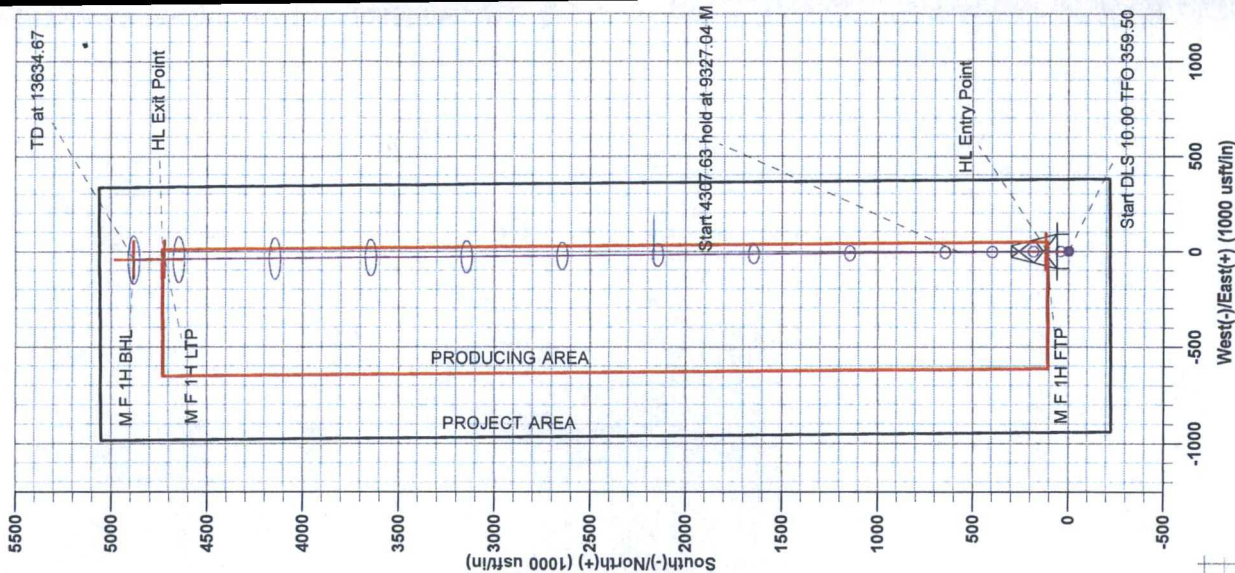
☒ Directional Plan☒ H2S Contingency Plan☒ Flex III Attachments (Including BOPE Diagram, Flexible Choke line Certs)

Azimuths to Grid North
 True North: -0.49°
 Magnetic North: 6.51°

Magnetic Field
 Strength: 48136.25nT
 Dip Angle: 59.83°
 Date: 3/11/2015
 Model: HDGM

Magnetic Field
Strength: 48136.2nT
Dip Angle: 59.83°
Date: 3/11/2015
Model: HDGM

To convert Magnetic North to Grid, Add 6.51°
To convert True North to Grid, Subtract 0.49°

KB @ 3305.40usft
Gr @ 3280.40

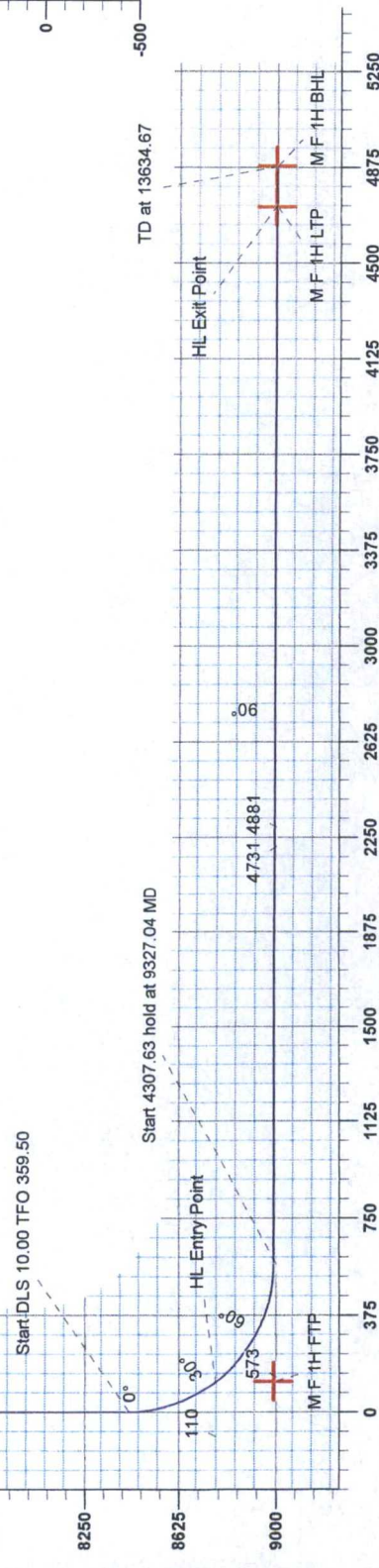
DP-1

WELL DETAILS						Mammoth Federal 1H	
				Northing	388802.04	Ground Level: 3280.40	
+N/S	0.00	+E/W	0.00	Easting	784204.93		
				Latitude	32° 3' 56.200 N		
						Longitude	103° 24' 57.207 W

SECTION DETAILS							Target
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Vsect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8427.04	0.00	0.00	8427.04	0.00	0.00	0.00	0.00
9327.04	90.00	359.50	9000.00	572.94	-4.96	10.00	572.96
13634.67	90.00	359.50	9000.00	4880.40	-42.27	0.00	4880.58

DESIGN TARGET DETAILS					
Name	TVD	+N/S	+E/W	Northing	Easting
M F 1H BHL	9000.00	4880.40	-42.27	393892.44	7841162.66
M F 1H FTP	9000.00	1119.99	-1.04	388922.03	7842203.89
M F 1H LTP	9000.00	4720.41	-40.88	393522.45	7841164.00

SITE DETAILS:	
Mammoth Federal 1H	
Site Centre Northing:	389802.04
Easting:	784204.93
Positional Uncertainty:	0.00
Convergence:	0.49
Local North:	Grid



Planning Report

DP-2

Database:	Midland District	Local Co-ordinate Reference:	Well Mammoth Federal 1H
Company:	OXY	TVD Reference:	KB @ 3305.40usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3305.40usft
Site:	Mammoth Federal 1H	North Reference:	Grid
Well:	Mammoth Federal 1H	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		Mammoth Federal 1H			
Site Position:		Northing:	388,802.04 usft	Latitude:	32° 3' 56.200 N
From:	Map	Easting:	784,204.93 usft	Longitude:	103° 24' 57.207 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.49 °

Well	Mammoth Federal 1H					
Well Position	+N/-S	0.00 usft	Northing:	388,802.04 usft	Latitude:	32° 3' 56.200 N
	+E/-W	0.00 usft	Easting:	784,204.93 usft	Longitude:	103° 24' 57.207 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,280.40 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	3/11/2015	7.00	59.83	48,136

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (bearing)
	0.00	0.00	0.00	359.50

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,427.04	0.00	0.00	8,427.04	0.00	0.00	0.00	0.00	0.00	0.00	
9,327.04	90.00	359.50	9,000.00	572.94	-4.96	10.00	10.00	-0.06	359.50	
13,634.67	90.00	359.50	9,000.00	4,880.40	-42.27	0.00	0.00	0.00	0.00	M F 1H BHL

Planning Report

DP-3

Database:	Midland District	Local Co-ordinate Reference:	Well Mammoth Federal 1H
Company:	OXY	TVD Reference:	KB @ 3305.40usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3305.40usft
Site:	Mammoth Federal 1H	North Reference:	Grid
Well:	Mammoth Federal 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

Planning Report

DP-4

Database:	Midland District	Local Co-ordinate Reference:	Well Mammoth Federal 1H
Company:	OXY	TVD Reference:	KB @ 3305.40usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3305.40usft
Site:	Mammoth Federal 1H	North Reference:	Grid
Well:	Mammoth Federal 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,427.04	0.00	0.00	8,427.04	0.00	0.00	0.00	0.00	0.00	0.00
Start DLS 10.00 TFO 359.50									
8,450.00	2.30	359.50	8,449.99	0.46	0.00	0.46	10.00	10.00	0.00
8,500.00	7.30	359.50	8,499.80	4.64	-0.04	4.64	10.00	10.00	0.00
8,550.00	12.30	359.50	8,549.06	13.14	-0.11	13.14	10.00	10.00	0.00
8,600.00	17.30	359.50	8,597.39	25.91	-0.22	25.91	10.00	10.00	0.00
8,650.00	22.30	359.50	8,644.42	42.83	-0.37	42.84	10.00	10.00	0.00
8,700.00	27.30	359.50	8,689.79	63.80	-0.55	63.80	10.00	10.00	0.00
8,750.00	32.30	359.50	8,733.17	88.63	-0.77	88.64	10.00	10.00	0.00
8,788.04	36.10	359.50	8,764.62	110.01	-0.95	110.01	10.00	10.00	0.00
HL Entry Point									
8,800.00	37.30	359.50	8,774.21	117.16	-1.01	117.16	10.00	10.00	0.00
8,850.00	42.30	359.50	8,812.62	149.15	-1.29	149.15	10.00	10.00	0.00
8,900.00	47.30	359.50	8,848.09	184.36	-1.60	184.37	10.00	10.00	0.00
8,950.00	52.30	359.50	8,880.35	222.54	-1.93	222.55	10.00	10.00	0.00
9,000.00	57.30	359.50	8,909.17	263.38	-2.28	263.39	10.00	10.00	0.00
9,050.00	62.30	359.50	8,934.31	306.58	-2.66	306.59	10.00	10.00	0.00
9,100.00	67.30	359.50	8,955.60	351.80	-3.05	351.81	10.00	10.00	0.00
9,150.00	72.30	359.50	8,972.86	398.71	-3.45	398.72	10.00	10.00	0.00
9,200.00	77.30	359.50	8,985.97	446.94	-3.87	446.96	10.00	10.00	0.00
9,250.00	82.30	359.50	8,994.83	496.13	-4.30	496.15	10.00	10.00	0.00
9,300.00	87.30	359.50	8,999.36	545.91	-4.73	545.93	10.00	10.00	0.00

Planning Report

DP-5

Database:	Midland District	Local Co-ordinate Reference:	Well Mammoth Federal 1H
Company:	OXY	TVD Reference:	KB @ 3305.40usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3305.40usft
Site:	Mammoth Federal 1H	North Reference:	Grid
Well:	Mammoth Federal 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,327.04	90.00	359.50	9,000.00	572.94	-4.96	572.96	10.00	10.00	0.00
Start 4307.63 hold at 9327.04 MD									
9,400.00	90.00	359.50	9,000.00	645.89	-5.59	645.92	0.00	0.00	0.00
9,500.00	90.00	359.50	9,000.00	745.89	-6.46	745.92	0.00	0.00	0.00
9,600.00	90.00	359.50	9,000.00	845.89	-7.33	845.92	0.00	0.00	0.00
9,700.00	90.00	359.50	9,000.00	945.88	-8.19	945.92	0.00	0.00	0.00
9,800.00	90.00	359.50	9,000.00	1,045.88	-9.06	1,045.92	0.00	0.00	0.00
9,900.00	90.00	359.50	9,000.00	1,145.87	-9.92	1,145.92	0.00	0.00	0.00
10,000.00	90.00	359.50	9,000.00	1,245.87	-10.79	1,245.92	0.00	0.00	0.00
10,100.00	90.00	359.50	9,000.00	1,345.87	-11.66	1,345.92	0.00	0.00	0.00
10,200.00	90.00	359.50	9,000.00	1,445.86	-12.52	1,445.92	0.00	0.00	0.00
10,300.00	90.00	359.50	9,000.00	1,545.86	-13.39	1,545.92	0.00	0.00	0.00
10,400.00	90.00	359.50	9,000.00	1,645.86	-14.26	1,645.92	0.00	0.00	0.00
10,500.00	90.00	359.50	9,000.00	1,745.85	-15.12	1,745.92	0.00	0.00	0.00
10,600.00	90.00	359.50	9,000.00	1,845.85	-15.99	1,845.92	0.00	0.00	0.00
10,700.00	90.00	359.50	9,000.00	1,945.84	-16.85	1,945.92	0.00	0.00	0.00
10,800.00	90.00	359.50	9,000.00	2,045.84	-17.72	2,045.92	0.00	0.00	0.00
10,900.00	90.00	359.50	9,000.00	2,145.84	-18.59	2,145.92	0.00	0.00	0.00
11,000.00	90.00	359.50	9,000.00	2,245.83	-19.45	2,245.92	0.00	0.00	0.00
11,100.00	90.00	359.50	9,000.00	2,345.83	-20.32	2,345.92	0.00	0.00	0.00
11,200.00	90.00	359.50	9,000.00	2,445.83	-21.18	2,445.92	0.00	0.00	0.00
11,300.00	90.00	359.50	9,000.00	2,545.82	-22.05	2,545.92	0.00	0.00	0.00
11,400.00	90.00	359.50	9,000.00	2,645.82	-22.92	2,645.92	0.00	0.00	0.00
11,500.00	90.00	359.50	9,000.00	2,745.81	-23.78	2,745.92	0.00	0.00	0.00
11,600.00	90.00	359.50	9,000.00	2,845.81	-24.65	2,845.92	0.00	0.00	0.00
11,700.00	90.00	359.50	9,000.00	2,945.81	-25.51	2,945.92	0.00	0.00	0.00
11,800.00	90.00	359.50	9,000.00	3,045.80	-26.38	3,045.92	0.00	0.00	0.00
11,900.00	90.00	359.50	9,000.00	3,145.80	-27.25	3,145.92	0.00	0.00	0.00
12,000.00	90.00	359.50	9,000.00	3,245.80	-28.11	3,245.92	0.00	0.00	0.00
12,100.00	90.00	359.50	9,000.00	3,345.79	-28.98	3,345.92	0.00	0.00	0.00
12,200.00	90.00	359.50	9,000.00	3,445.79	-29.84	3,445.92	0.00	0.00	0.00
12,300.00	90.00	359.50	9,000.00	3,545.78	-30.71	3,545.92	0.00	0.00	0.00
12,400.00	90.00	359.50	9,000.00	3,645.78	-31.58	3,645.92	0.00	0.00	0.00
12,500.00	90.00	359.50	9,000.00	3,745.78	-32.44	3,745.92	0.00	0.00	0.00
12,600.00	90.00	359.50	9,000.00	3,845.77	-33.31	3,845.92	0.00	0.00	0.00
12,700.00	90.00	359.50	9,000.00	3,945.77	-34.18	3,945.92	0.00	0.00	0.00
12,800.00	90.00	359.50	9,000.00	4,045.77	-35.04	4,045.92	0.00	0.00	0.00
12,900.00	90.00	359.50	9,000.00	4,145.76	-35.91	4,145.92	0.00	0.00	0.00
13,000.00	90.00	359.50	9,000.00	4,245.76	-36.77	4,245.92	0.00	0.00	0.00
13,100.00	90.00	359.50	9,000.00	4,345.75	-37.64	4,345.92	0.00	0.00	0.00
13,200.00	90.00	359.50	9,000.00	4,445.75	-38.51	4,445.92	0.00	0.00	0.00
13,300.00	90.00	359.50	9,000.00	4,545.75	-39.37	4,545.92	0.00	0.00	0.00
13,400.00	90.00	359.50	9,000.00	4,645.74	-40.24	4,645.92	0.00	0.00	0.00
13,484.66	90.00	359.50	9,000.00	4,730.40	-40.97	4,730.58	0.00	0.00	0.00
HL Exit Point									
13,500.00	90.00	359.50	9,000.00	4,745.74	-41.10	4,745.92	0.00	0.00	0.00
13,600.00	90.00	359.50	9,000.00	4,845.74	-41.97	4,845.92	0.00	0.00	0.00
13,634.67	90.00	359.50	9,000.00	4,880.40	-42.27	4,880.58	0.00	0.00	0.00
TD at 13634.67									

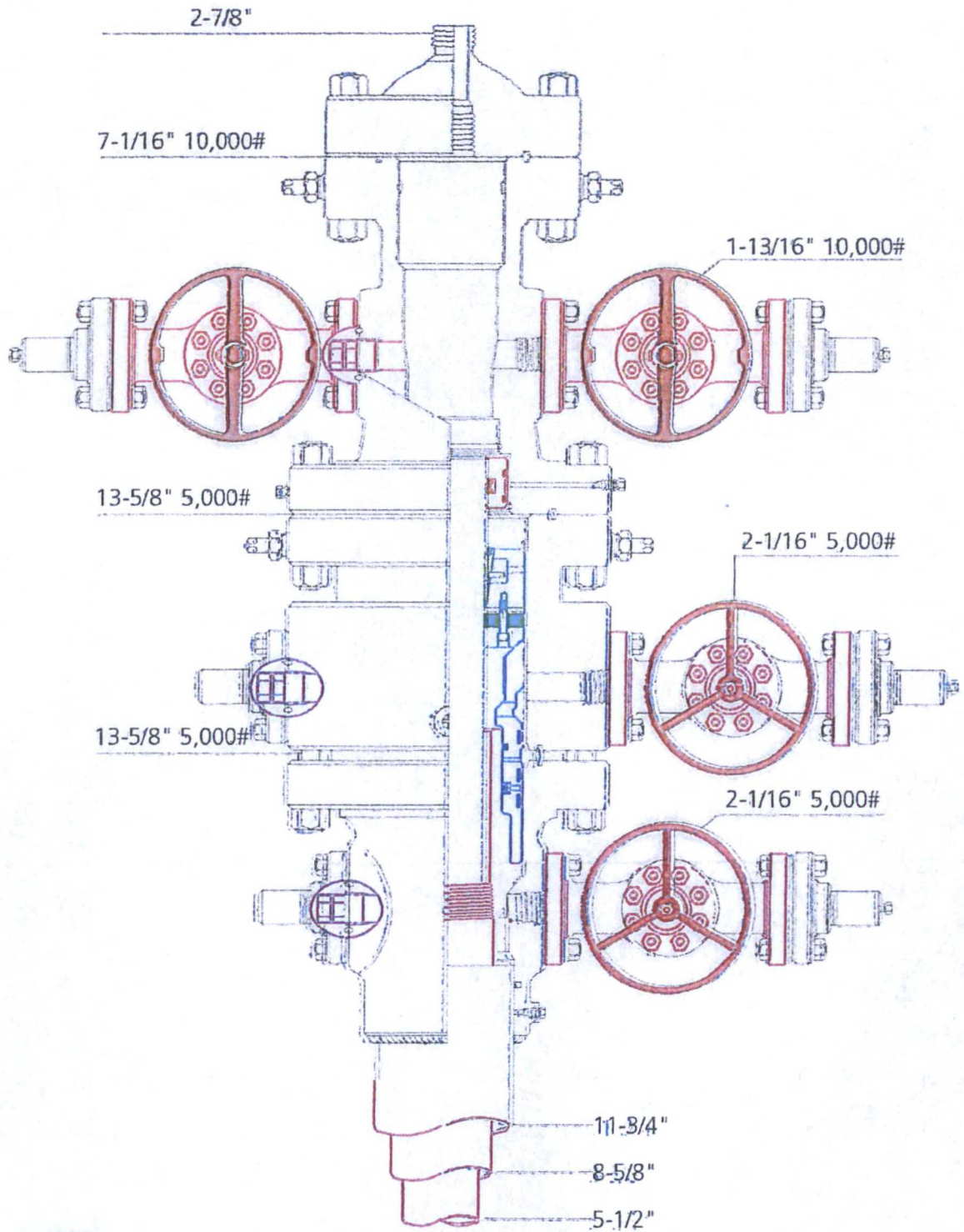
Planning Report

DP-6

Database:	Midland District	Local Co-ordinate Reference:	Well Mammoth Federal 1H
Company:	OXY	TVD Reference:	KB @ 3305.40usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3305.40usft
Site:	Mammoth Federal 1H	North Reference:	Grid
Well:	Mammoth Federal 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(bearing)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
M F 1H FTP	0.00	0.00	9,000.00	119.99	-1.04	388,922.03	784,203.89	32° 3' 57.388 N	103° 24' 57.207 W
- plan misses target center by 157.53usft at 8948.91usft MD (8879.68 TVD, 221.68 N, -1.92 E)									
- Point									
M F 1H LTP	0.00	0.00	9,000.00	4,720.41	-40.88	393,522.45	784,164.05	32° 4' 42.914 N	103° 24' 57.216 W
- plan hits target center									
- Point									
M F 1H BHL	0.00	0.00	9,000.00	4,880.40	-42.27	393,682.44	784,162.66	32° 4' 44.497 N	103° 24' 57.216 W
- plan hits target center									
- Point									

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W		
		(usft)	(usft)	Comment	
8,427.04	8,427.04	0.00	0.00	Start DLS 10.00 TFO 359.50	
8,788.04	8,764.62	110.01	-0.95	HL Entry Point	
9,327.04	9,000.00	572.94	-4.96	Start 4307.63 hold at 9327.04 MD	
13,484.66	9,000.00	4,730.40	-40.97	HL Exit Point	
13,634.67	9,000.00	4,880.40	-42.27	TD at 13634.67	

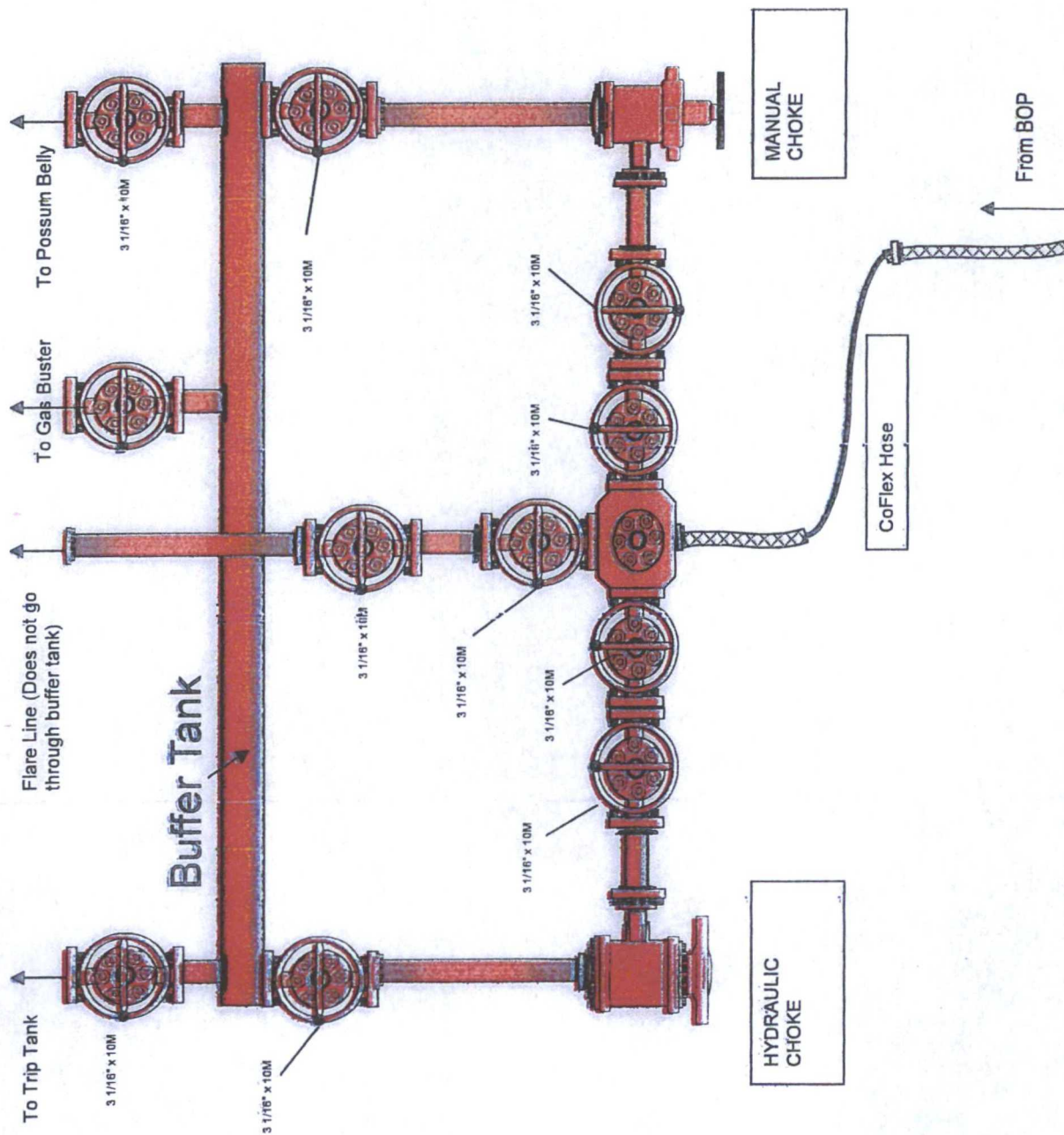


Permian Basin
MBS

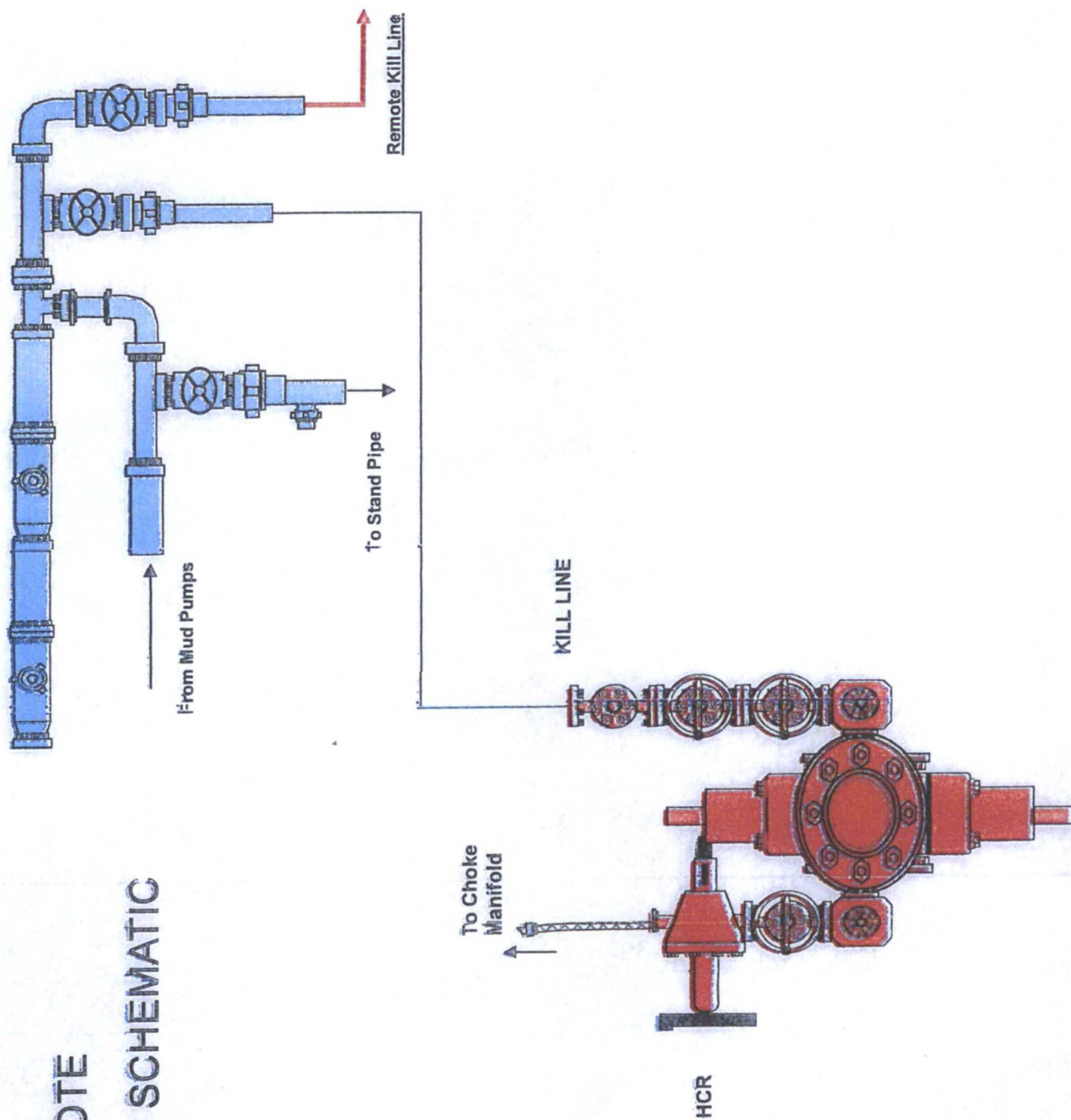


Model	Leanette	Size	11-31-113	Part Number	#	21073221
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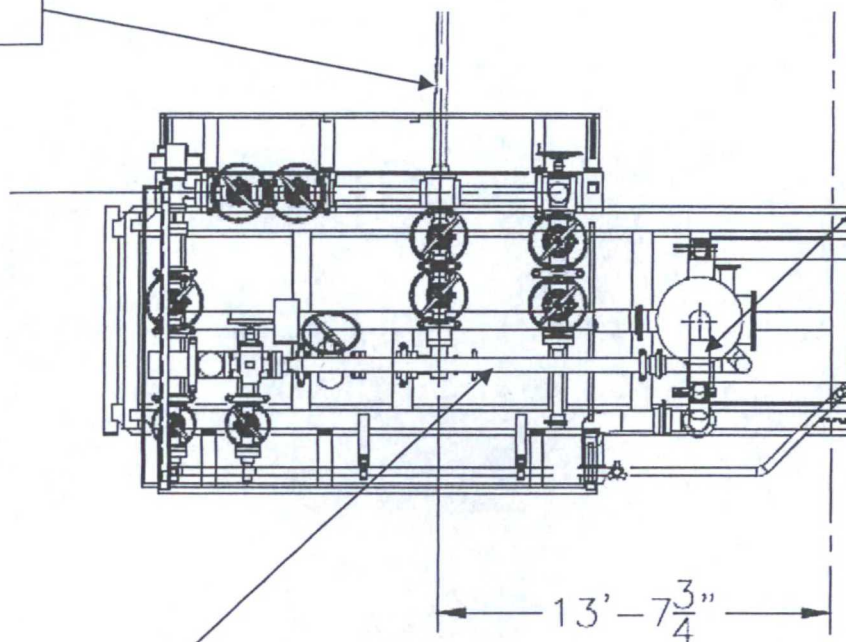
FLEX3 STD CHOKE MANIFOLD (COMPREHENSIVE)



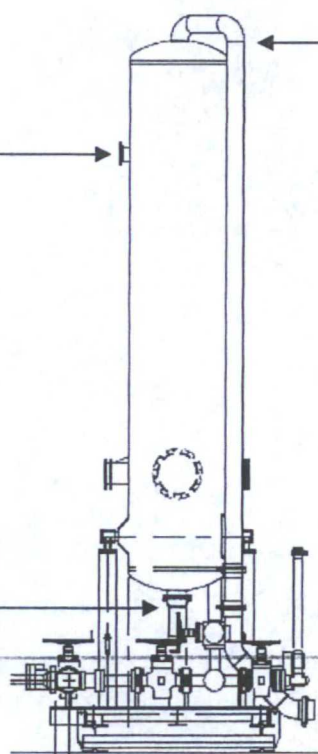
10M REMOTE KILL LINE SCHEMATIC



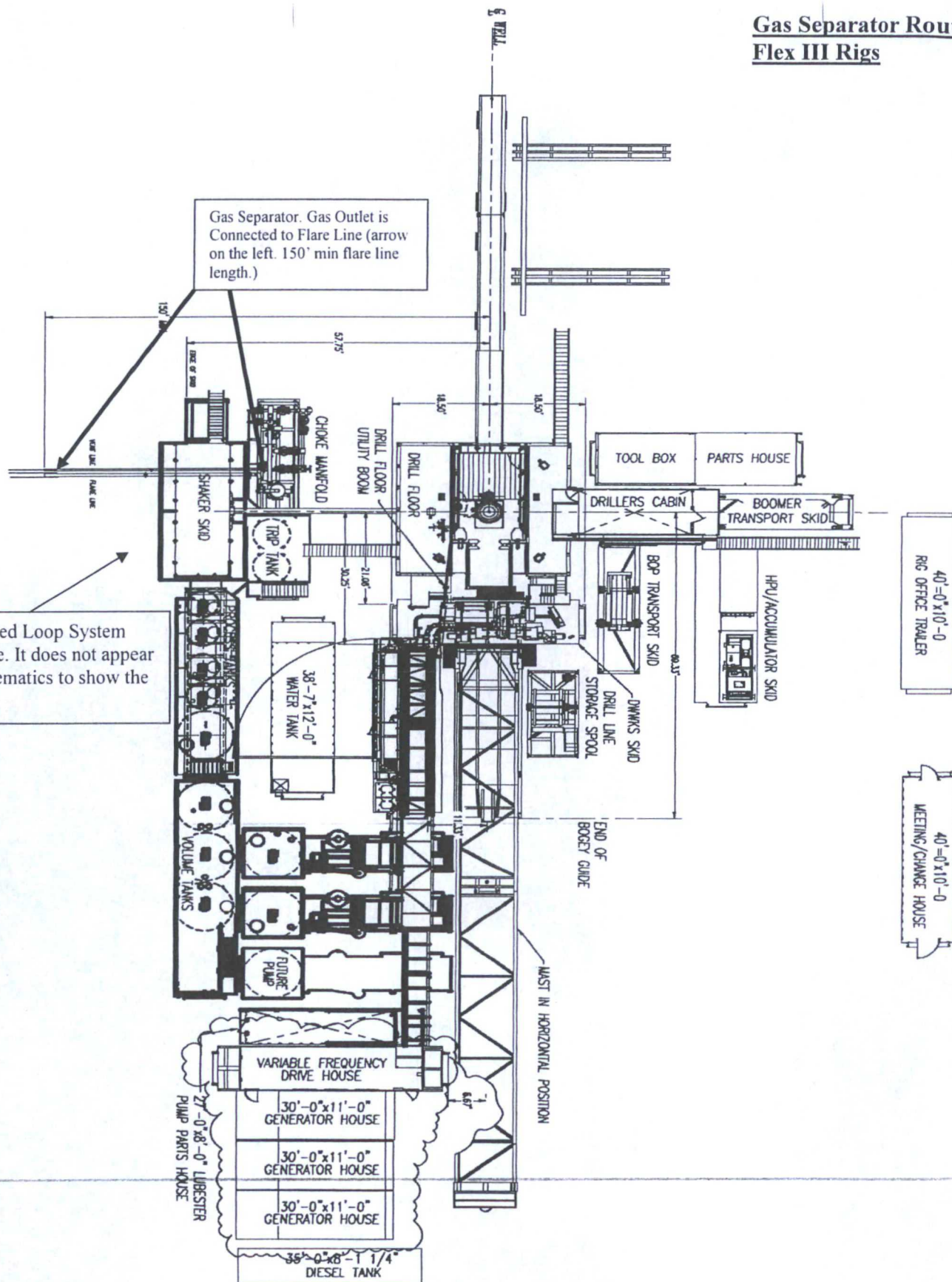
Choke Manifold – Gas Separator (Top View)

Choke Line
from BOPGas Outlet
to Flare Line

Choke Manifold – Gas Separator (Side View)

Mud Inlet from
buffer tank in the
Choke ManifoldGas Outlet
to Flare LineMud Outlet to
Possum Belly or
Trip Tank

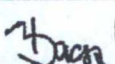
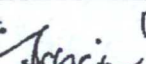
Gas Separator Routing Flex III Rigs





Fluid Technology

Quality Document

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 746	
PURCHASER: Phoenix Beattie Co.			P.O. N°: 002491		
CONTITECH ORDER N°: 412638		HOSE TYPE: 3" ID Choke and Kill Hose			
HOSE SERIAL N°: 52777		NOMINAL / ACTUAL LENGTH: 10,67 m			
W.P. 68,96 MPa 10000 psi		T.P. 103,4 MPa 15000 psi		Duration: 60 ~ min.	
Pressure test with water at ambient temperature See attachment. (1 page) ↑ 10 mm = 10 Min. → 10 mm = 25 MPa					
COUPLINGS					
Type	Serial N°		Quality	Heat N°	
3" coupling with 4 1/16" Flange end	917	913	AISI 4130	T7998A	
			AISI 4130	26984	
INFOCHIP INSTALLED			API Spec 16 C Temperature rate: "B"		
All metal parts are flawless					
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.					
Date:	Inspector		Quality Control		
04. April. 2008			ContiTech Rubber Industrial Kft. Quality Control Dept. (1)  		

Coflex Hose Certification

Page: 1/1

24	23	22	21	20	19	18	17	16	15
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
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991	992	993	994	995	996	997	998	999	1000

ConfTech Rubber
Industrial Kft.
Quality Control Dept.
(2)

FH-3

Coflex Hose Certification

Form No 100/12

**Phoenix Beattie Corp**

11535 Brittmoore Park Drive
Houston, TX 77041
Tel: (832) 327-0141
Fax: (832) 327-0148
E-mail: mail@phoenixbeattie.com
www.phoenixbeattie.com

Delivery Note

Customer Order Number	370-369-001	Delivery Note Number	003078	Page	1
Customer / Invoice Address HELMERICH & PAYNE INT'L DRILLING CO 1437 SOUTH BOULDER TULSA, OK 74119		Delivery / Address HELMERICH & PAYNE IDC ATTN: JOE STEPHENSON - RIG 370 13609 INDUSTRIAL ROAD HOUSTON, TX 77015			

Customer Acc No	Phoenix Beattie Contract Manager	Phoenix Beattie Reference	Date
H01	JJL	006330	05/23/2008

Item No	Beattie Part Number / Description	Qty Ordered	Qty Sent	Qty To Follow
1	HP10CK3A-35-4F1 3" 10K 16C C&K HOSE x 35ft OAL CW 4.1/16" API SPEC FLANGE E/ End 1: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange End 2: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange c/w BX155 Standard ring groove at each end Suitable for H2S Service Working pressure: 10,000psi Test pressure: 15,000psi Standard: API 16C Full specification Armor Guarding: Included Fire Rating: Not Included Temperature rating: -20 Deg C to +100 Deg C	1	1	0
2	SECK3-HPF3 LIFTING & SAFETY EQUIPMENT TO SUIT HP10CK3-35-F1 2 x 160mm ID Safety Clamps 2 x 244mm ID Lifting Collars & element C's 2 x 7ft Stainless Steel wire rope 3/4" OD 4 x 7.75t Shackles	1	1	0
3	SC725-200CS SAFETY CLAMP 200MM 7.25T C/S GALVANISED	1	1	0

Continued...

All goods remain the property of Phoenix Beattie until paid for in full. Any damage or shortage on this delivery must be advised within 5 days.
Returns may be subject to a handling charge.



Phoenix Beattie Corp

11535 Brittmoore Park Drive
Houston, TX 77041
Tel: (832) 327-0141
Fax: (832) 327-0148
E-mail: mail@phoenixbeattie.com
www.phoenixbeattie.com

Delivery Note

Customer Order Number	370-369-001	Delivery Note Number	003078	Page	2
Customer / Invoice Address HELMERICH & PAYNE INT'L DRILLING CO 1437 SOUTH BOULDER TULSA, OK 74119		Delivery / Address HELMERICH & PAYNE IDC ATTN: JOE STEPHENSON - RIG 370 13609 INDUSTRIAL ROAD HOUSTON, TX 77015			

Customer Acc'No	Phoenix Beattie Contract Manager	Phoenix Beattie Reference	Date
H01	JJL	006330	05/23/2008

Item No	Beattie Part Number / Description	Qty Ordered	Qty Sent	Qty To Follow
4	SC725-132CS SAFETY CLAMP 132MM 7.25T C/S GALVANIZED C/W BOLTS	1	1	0
5	00CERT-HYDRO HYDROSTATIC PRESSURE TEST CERTIFICATE	1	1	0
6	00CERT-LOAD LOAD TEST CERTIFICATES	1	1	0
7	00FREIGHT INBOUND / OUTBOUND FREIGHT PRE-PAY & ADD TO FINAL INVOICE NOTE: MATERIAL MUST BE ACCOMPANIED BY PAPERWORK INCLUDING THE PURCHASE ORDER, RIG NUMBER TO ENSURE PROPER PAYMENT	1	1	0

Phoenix Beattie Inspection Signature :

Received In Good Condition : Signature

Print Name

Date

All goods remain the property of Phoenix Beattie until paid for in full. Any damage or shortage on this delivery must be advised within 5 days.
Returns may be subject to a handling charge.

CERTIFICATE OF CONFORMITY

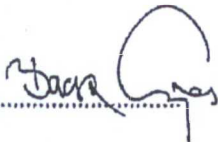
Supplier : CONTITECH RUBBER INDUSTRIAL KFT.
Equipment : 6 pcs. Choke and Kill Hose with installed couplings
Type : 3" x 10,67 m WP: 10000 psi
Supplier File Number : 412638
Date of Shipment : April. 2008
Customer : Phoenix Beattie Co.
Customer P.o. : 002491
Referenced Standards
/ Codes / Specifications : API Spec 16 C
Serial No.: 52754,52755,52776,52777,52778,52782

STATEMENT OF CONFORMITY

We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.

COUNTRY OF ORIGIN HUNGARY/EU

Signed :



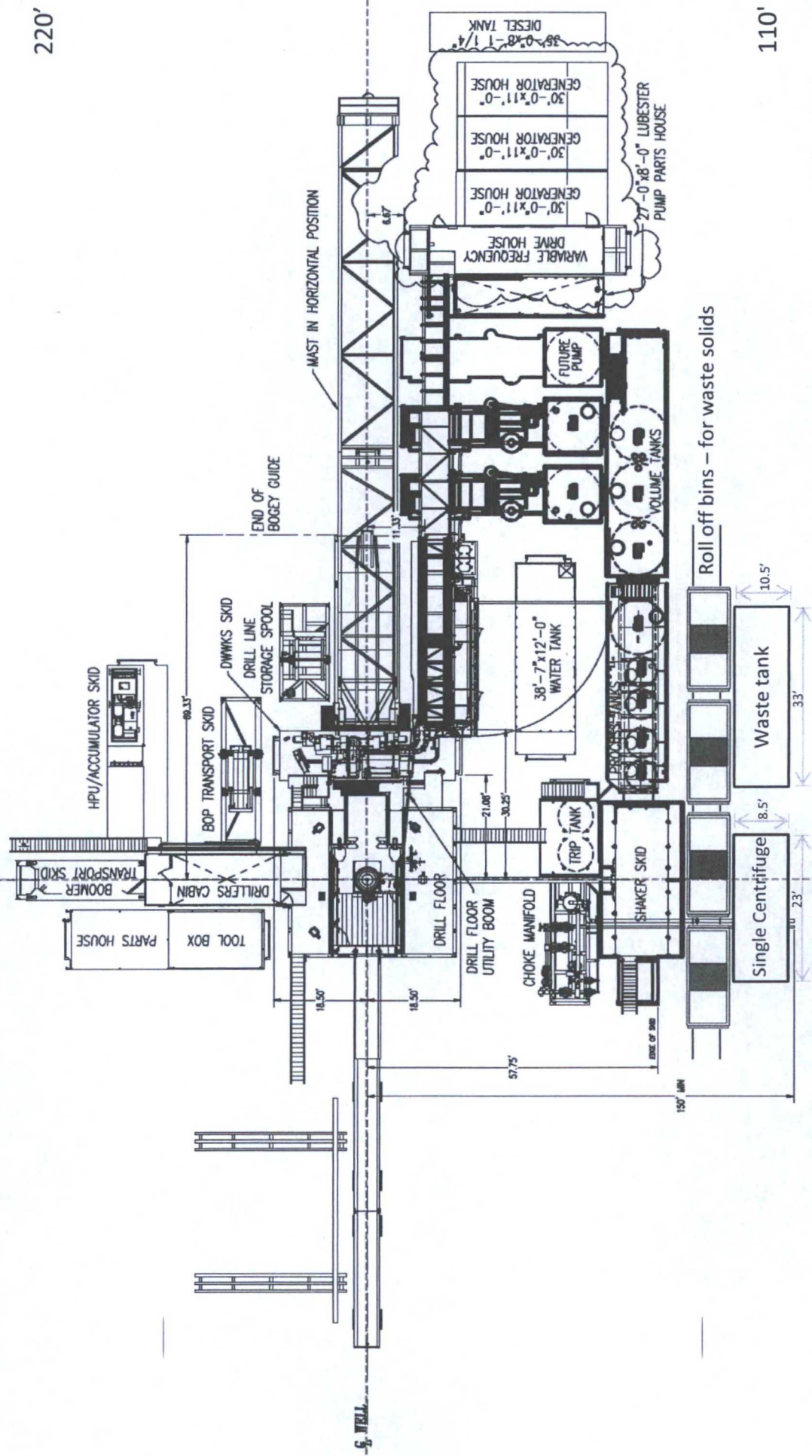
ContiTech Rubber
Industrial Kft.
Quality Control Dept.
(1)

Date: 04. April. 2008

Position: Q.C. Manager

Oxy Single Centrifuge Closed Loop System – New Mexico Flex III

May 28, 2013



220'

110'

260'

230'