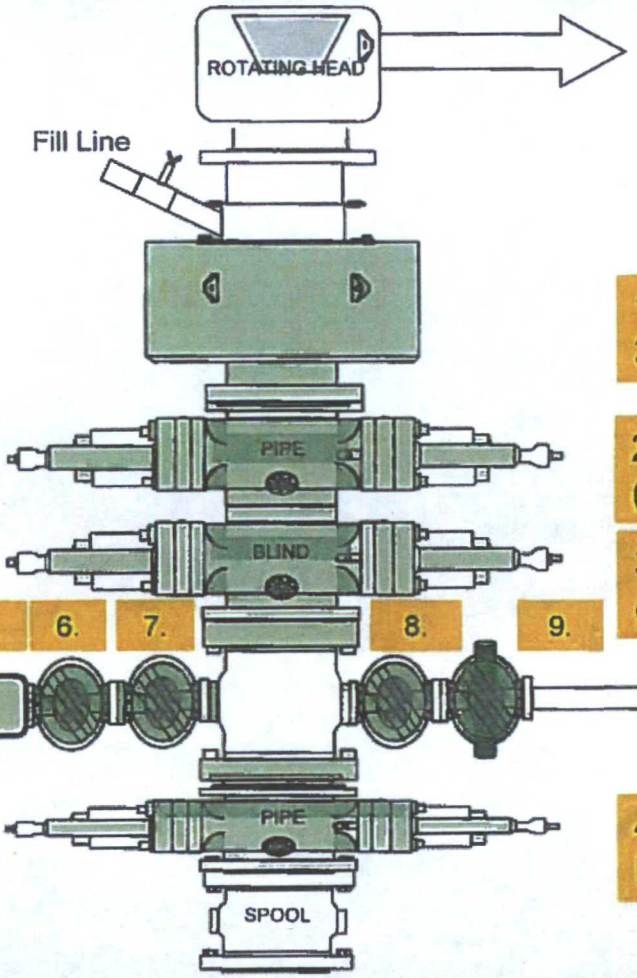
10M BOP Stack

Mud Cross Valves:

5. 10M Check Valve
6. Outside 10M Kill Line Valve
7. Inside 10M Kill Line
8. Outside10M Kill Line Valve
9. 10M HCR Valve

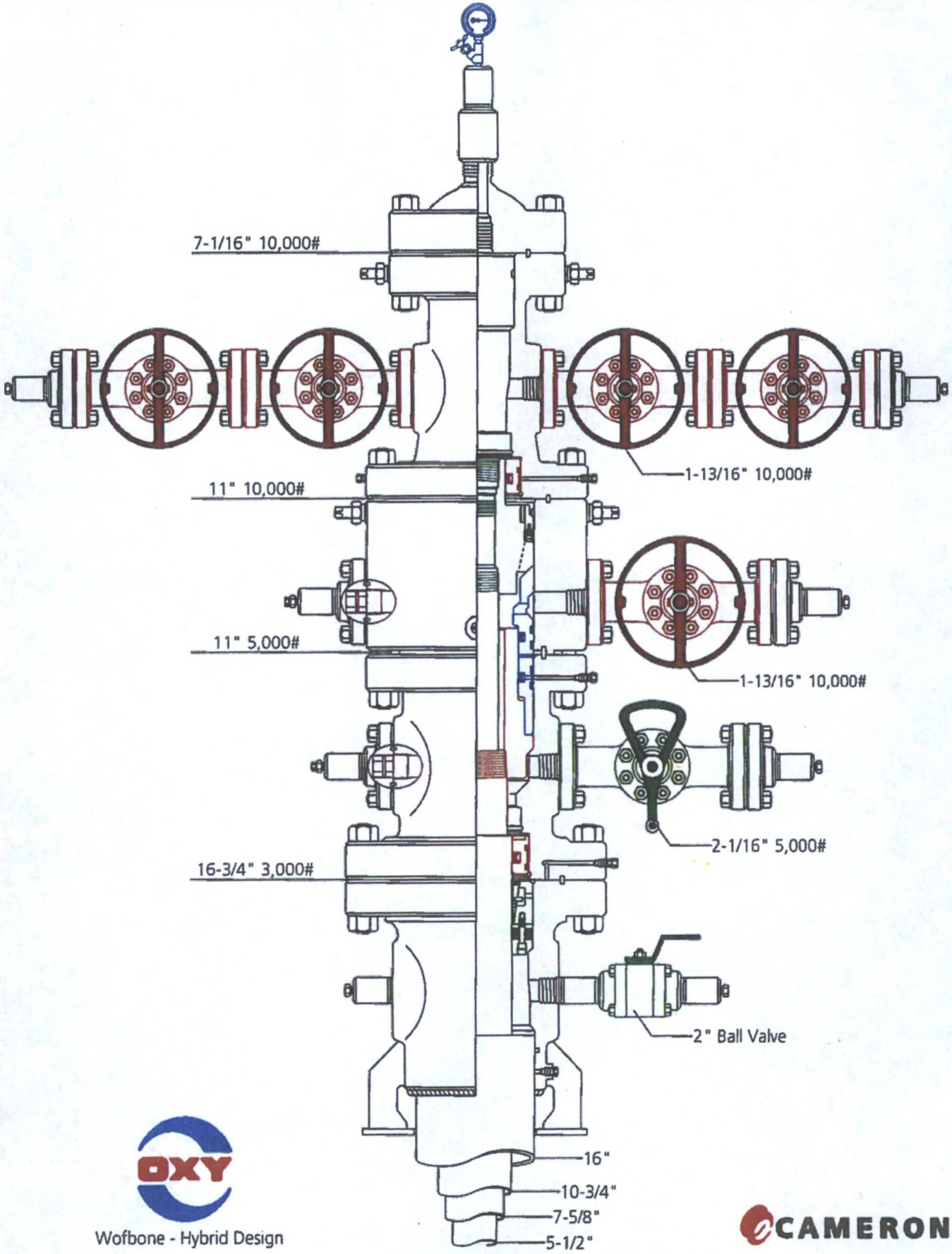
*Minimum ID = 2-1/16" on Kill Line side and 3" minimum ID on choke line side



1. 10,000 psi Annular (13-3/8" ID)
2. 10,000 psi Upper Pipe Ram (13-3/8" ID)
3. 10,000 psi Blind Ram (13-3/8" ID)
4. 10,000 psi Lower Pipe Ram (13-3/8" ID)

BOP-1

BOP-WH-2



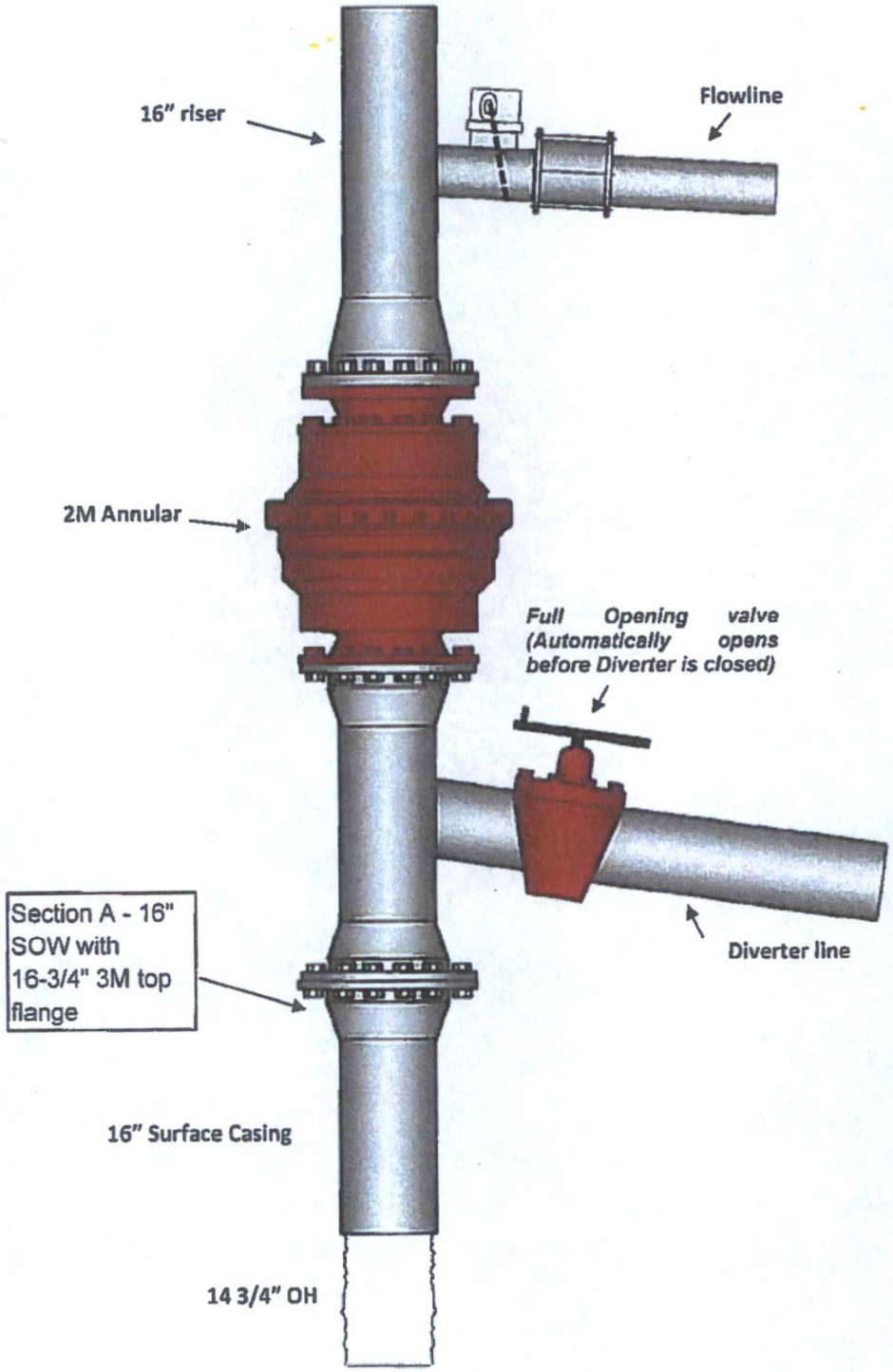
OXY

Wofbone - Hybrid Design

CAMERON

Name	Jeanette	Date	9-19 -14	Working Pressure	#	1175306

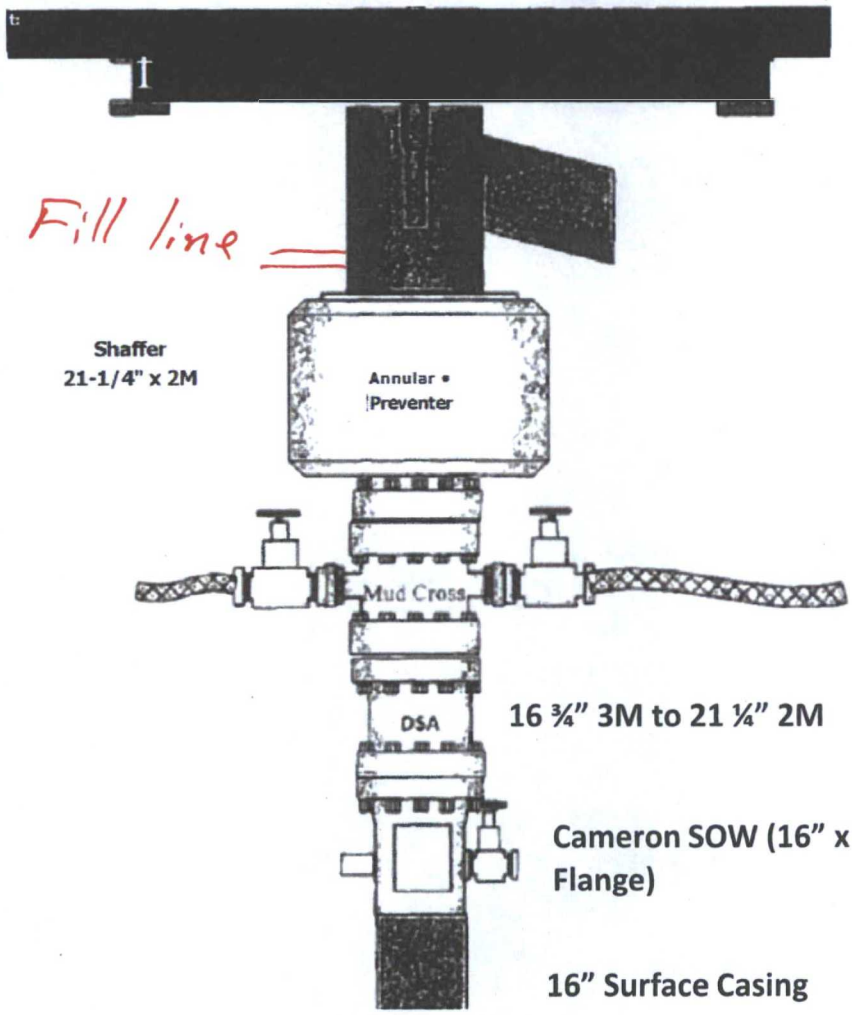
16" Casing Diverter Diagram



BOP STACK FOR 16" Surface Casing

21-1/4" 2000 psi BOP Stack

RKB-GRD = 25 ft



16 ¾" 3M to 21 ¼" 2M

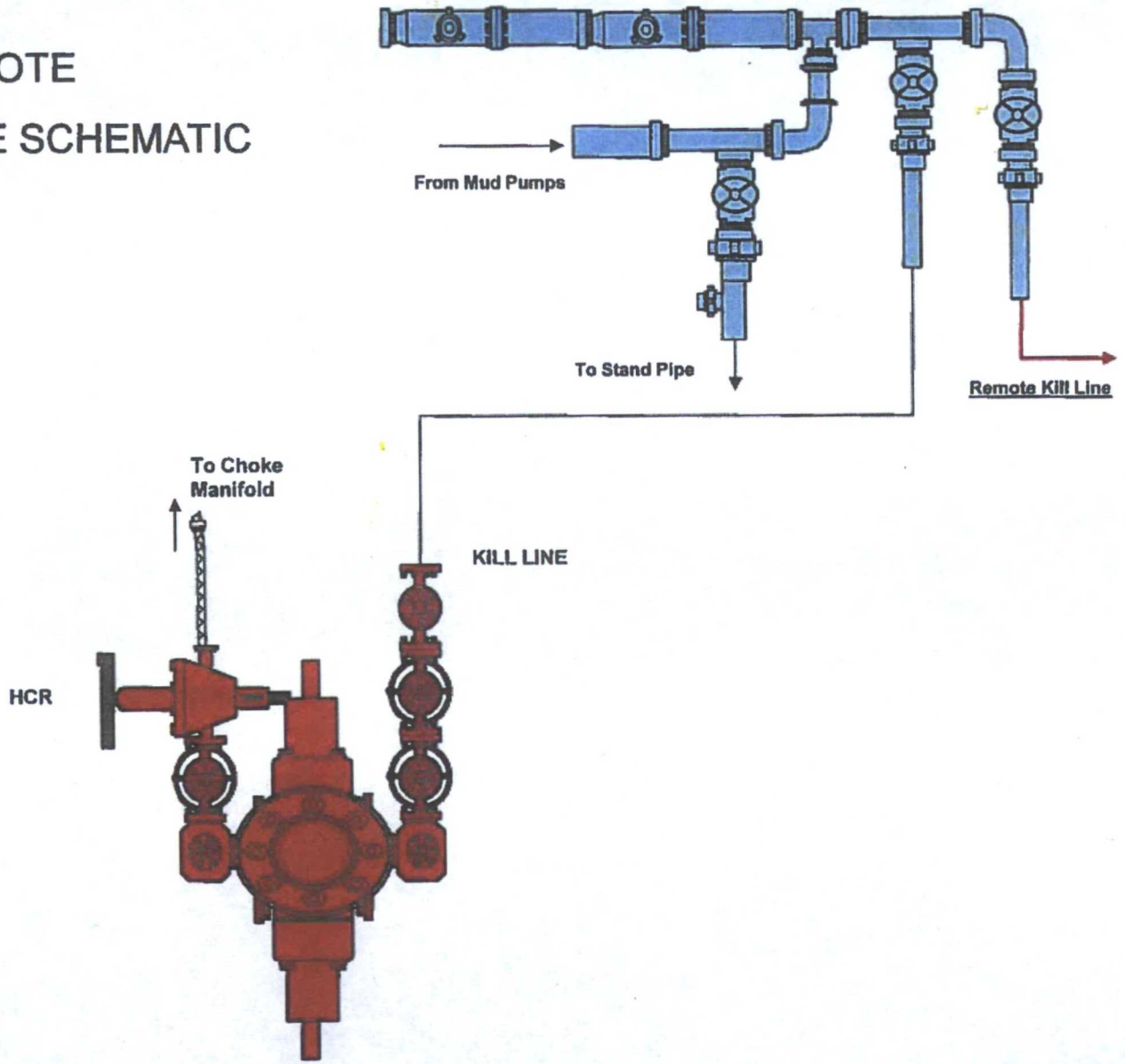
Cameron SOW (16" x 16 ¾" 3M Top Flange)

16" Surface Casing

Will use 10m manifold

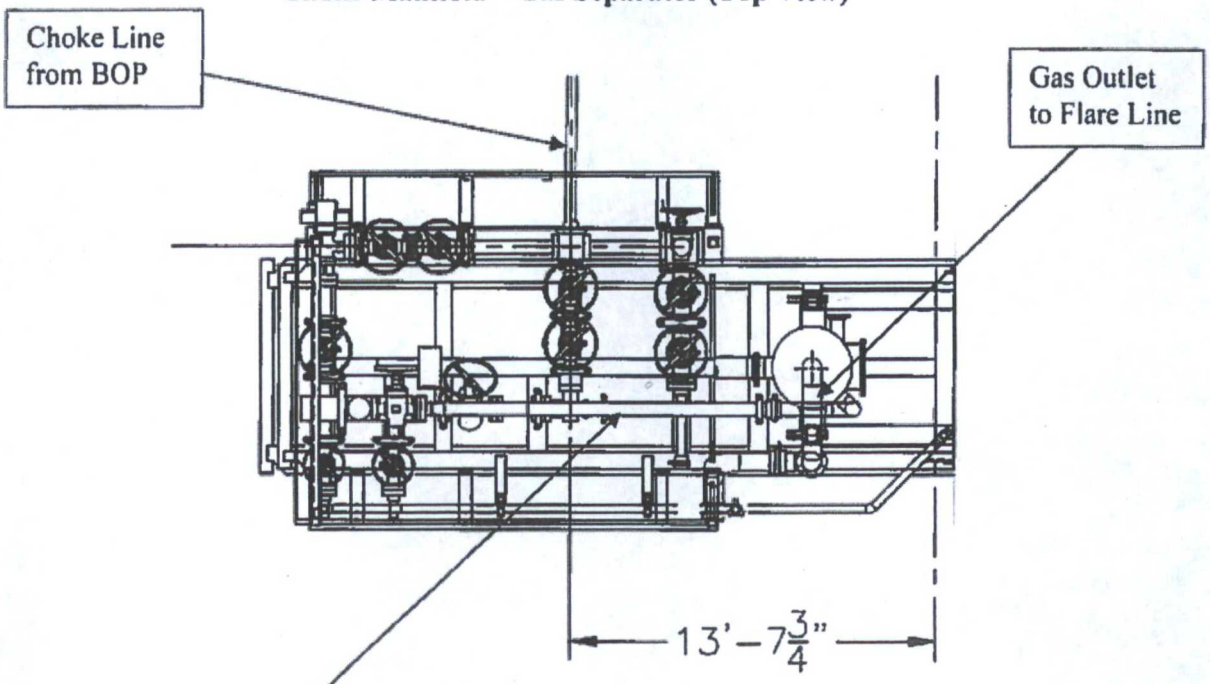
10M REMOTE

KILL LINE SCHEMATIC

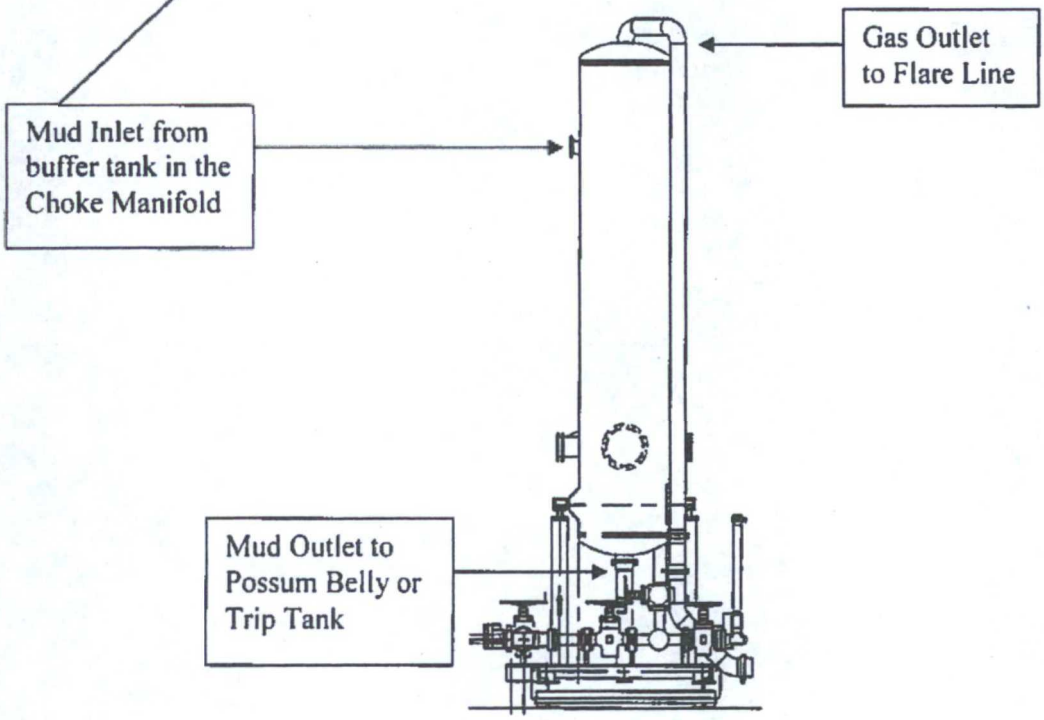


CM-2

Choke Manifold – Gas Separator (Top View)

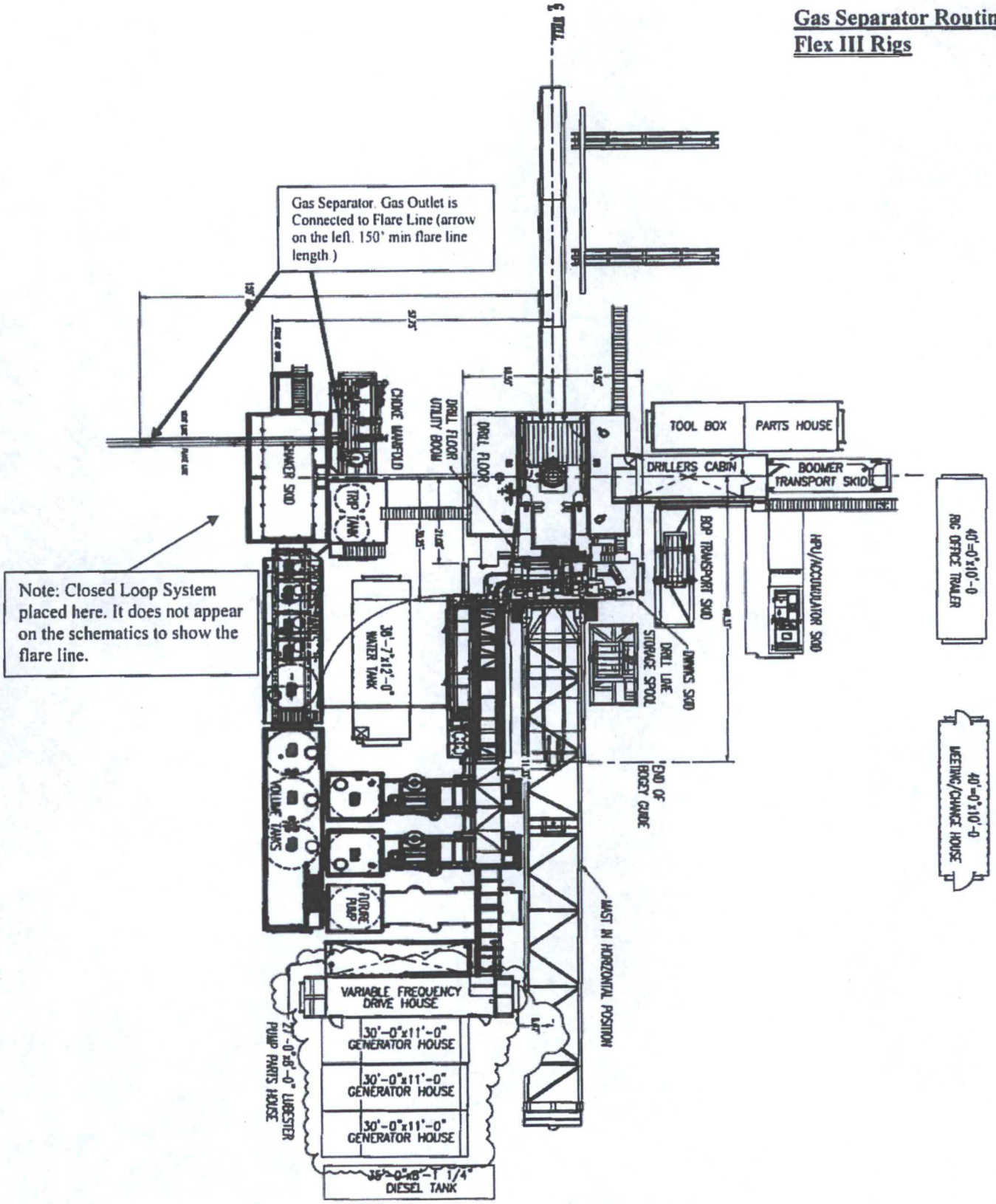


Choke Manifold – Gas Separator (Side View)

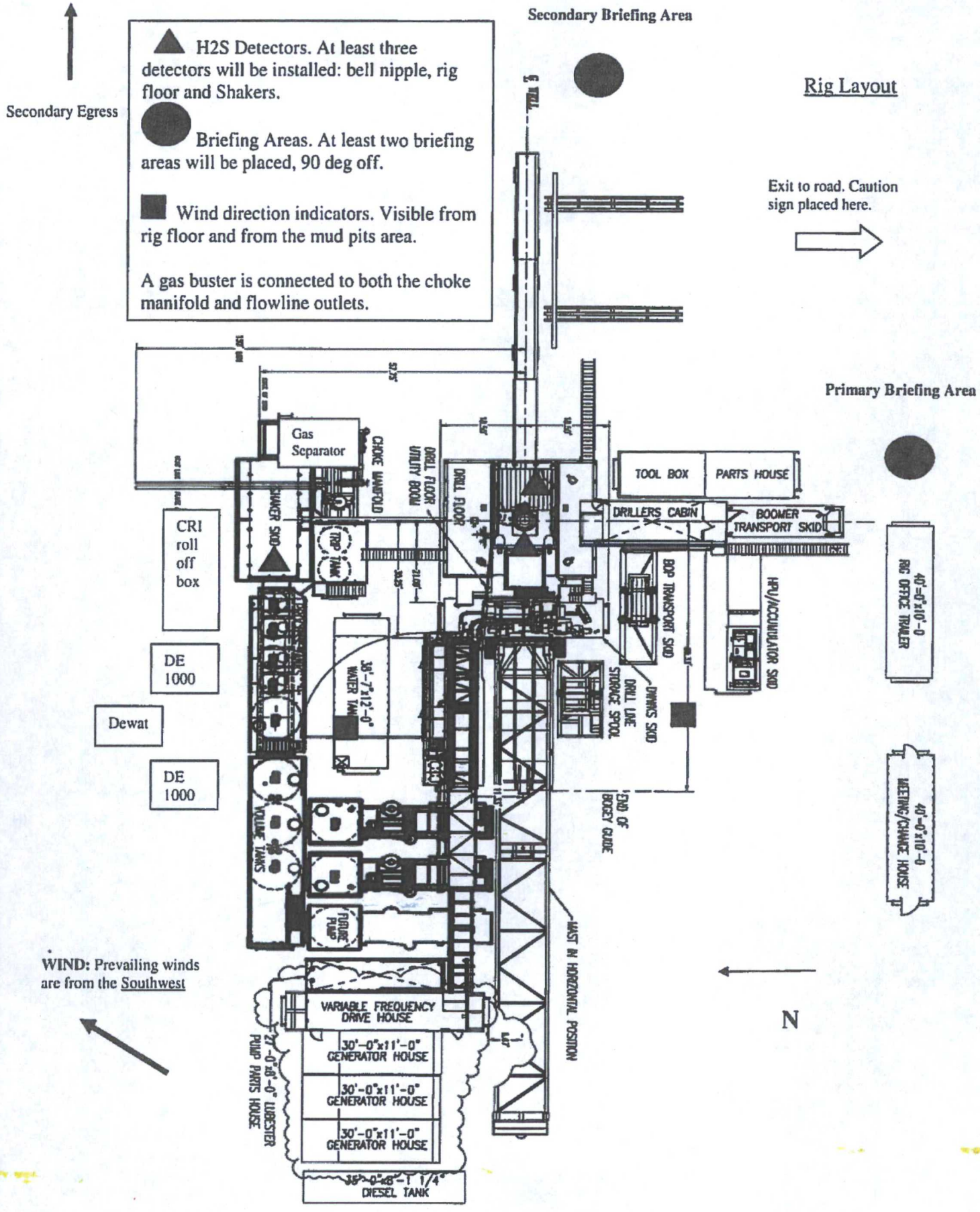


CM-4

Gas Separator Routing
Flex III Rigs



H25-2


Secondary Egress
▲ H2S Detectors. At least three detectors will be installed: bell nipple, rig floor and Shakers.
● Briefing Areas. At least two briefing areas will be placed, 90 deg off.
■ Wind direction indicators. Visible from rig floor and from the mud pits area.
A gas buster is connected to both the choke manifold and flowline outlets.
Secondary Briefing Area
Rig Layout
Exit to road. Caution sign placed here.
Primary Briefing Area
Gas Separator
CHOKE MANIFOLD
DRILL FLOOR UTILITY BOOM
DRILL FLOOR
SHAKER SKID
TRIP TANK
TOOL BOX
PARTS HOUSE
DRILLERS CABIN
BOOMER TRANSPORT SKID
CRI roll off box
DE 1000
Dewat
DE 1000
38'-7"x12'-0" WATER TANK
BOP TRANSPORT SKID
HPU/ACCUMULATOR SKID
DRILL LINE STORAGE SPOOL
DWKS SKID
40'-0"x10'-0 RIG OFFICE TRAILER
40'-0"x10'-0 MEETING/CHANGE HOUSE
END OF BOGEY GUIDE
MAST IN HORIZONTAL POSITION
VOLUME TANKS
FLARE PUMP
WIND: Prevailing winds are from the Southwest
N
VARIABLE FREQUENCY DRIVE HOUSE
30'-0"x11'-0" GENERATOR HOUSE
30'-0"x11'-0" GENERATOR HOUSE
30'-0"x11'-0" GENERATOR HOUSE
27'-0"x8'-0" PUMP PARTS HOUSE LUBESTER
35'-0"x8'-1 1/4" DIESEL TANK

DS-2

Database:	Midland District	**Local Co-ordinate Reference:**	Well Harley 17F 1H
Company:	OXY	**TVD Reference:**	KB @ 3445.3usft
Project:	Lea County, New Mexico	**MD Reference:**	KB @ 3445.3usft
Site:	Harley 17 Fed 1H	**North Reference:**	Grid
Well:	Harley 17F 1H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
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	Harley 17 Fed 1H				
Site Position:		**Northing:**	409,708.10 usft	**Latitude:**	32° 7' 27.136 N
From:	Map	**Easting:**	731,030.10 usft	**Longitude:**	103° 35' 13.429 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.40 °

Well	Harley 17F 1H					
Well Position	**+N/-S**	0.0 usft	**Northing:**	409,708.10 usft	**Latitude:**	32° 7' 27.136 N
	+E/-W	0.0 usft	**Easting:**	731,030.10 usft	**Longitude:**	103° 35' 13.429 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	0.0 usft	**Ground Level:**	3,420.3 usft

Wellbore	Wellbore #1				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	10/6/2014	7.18	60.01	48,223

Design	Plan #1				
Audit Notes:					
Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	12,914.1
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**	
	0.0	0.0	0.0	359.63	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
12,914.1	0.00	0.00	12,914.1	0.0	0.0	0.00	0.00	0.00	0.00	
14,039.1	90.00	359.63	13,630.3	716.2	-4.6	8.00	8.00	-0.03	359.63	
18,062.5	90.00	359.63	13,630.3	4,739.5	-30.2	0.00	0.00	0.00	0.00	17F 1H BHL

DS-3

Planning Report

Database:	Midland District	**Local Co-ordinate Reference:**	Well Harley 17F 1H
Company:	OXY	**TVD Reference:**	KB @ 3445 3usft
Project:	Lea County, New Mexico	**MD Reference:**	KB @ 3445 3usft
Site:	Harley 17 Fed 1H	**North Reference:**	Grid
Well:	Harley 17F 1H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
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

Database:	Midland District	**Local Co-ordinate Reference:**	Well Harley 17F 1H
Company:	OXY	**TVD Reference:**	KB @ 3445.3usft
Project:	Lea County, New Mexico	**MD Reference:**	KB @ 3445.3usft
Site:	Harley 17 Fed 1H	**North Reference:**	Grid
Well:	Harley 17F 1H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
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
10,200.0	0.00	0.00	10,200.0	0.0	0.0	0.0	0.00	0.00	0.00
10,300.0	0.00	0.00	10,300.0	0.0	0.0	0.0	0.00	0.00	0.00
10,400.0	0.00	0.00	10,400.0	0.0	0.0	0.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,500.0	0.0	0.0	0.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,600.0	0.0	0.0	0.0	0.00	0.00	0.00
10,700.0	0.00	0.00	10,700.0	0.0	0.0	0.0	0.00	0.00	0.00

DS-5

Planning Report

Database:	Midland District	**Local Co-ordinate Reference:**	Well Harley 17F 1H
Company:	OXY	**TVD Reference:**	KB @ 3445.3usft
Project:	Lea County, New Mexico	**MD Reference:**	KB @ 3445.3usft
Site:	Harley 17 Fed 1H	**North Reference:**	Grid
Well:	Harley 17F 1H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
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)
10,800.0	0.00	0.00	10,800.0	0.0	0.0	0.0	0.00	0.00	0.00
10,900.0	0.00	0.00	10,900.0	0.0	0.0	0.0	0.00	0.00	0.00
11,000.0	0.00	0.00	11,000.0	0.0	0.0	0.0	0.00	0.00	0.00
11,100.0	0.00	0.00	11,100.0	0.0	0.0	0.0	0.00	0.00	0.00
11,200.0	0.00	0.00	11,200.0	0.0	0.0	0.0	0.00	0.00	0.00
11,300.0	0.00	0.00	11,300.0	0.0	0.0	0.0	0.00	0.00	0.00
11,400.0	0.00	0.00	11,400.0	0.0	0.0	0.0	0.00	0.00	0.00
11,500.0	0.00	0.00	11,500.0	0.0	0.0	0.0	0.00	0.00	0.00
11,600.0	0.00	0.00	11,600.0	0.0	0.0	0.0	0.00	0.00	0.00
11,700.0	0.00	0.00	11,700.0	0.0	0.0	0.0	0.00	0.00	0.00
11,800.0	0.00	0.00	11,800.0	0.0	0.0	0.0	0.00	0.00	0.00
11,900.0	0.00	0.00	11,900.0	0.0	0.0	0.0	0.00	0.00	0.00
12,000.0	0.00	0.00	12,000.0	0.0	0.0	0.0	0.00	0.00	0.00
12,100.0	0.00	0.00	12,100.0	0.0	0.0	0.0	0.00	0.00	0.00
12,200.0	0.00	0.00	12,200.0	0.0	0.0	0.0	0.00	0.00	0.00
12,300.0	0.00	0.00	12,300.0	0.0	0.0	0.0	0.00	0.00	0.00
12,400.0	0.00	0.00	12,400.0	0.0	0.0	0.0	0.00	0.00	0.00
12,500.0	0.00	0.00	12,500.0	0.0	0.0	0.0	0.00	0.00	0.00
12,600.0	0.00	0.00	12,600.0	0.0	0.0	0.0	0.00	0.00	0.00
12,700.0	0.00	0.00	12,700.0	0.0	0.0	0.0	0.00	0.00	0.00
12,800.0	0.00	0.00	12,800.0	0.0	0.0	0.0	0.00	0.00	0.00
12,900.0	0.00	0.00	12,900.0	0.0	0.0	0.0	0.00	0.00	0.00
12,914.1	0.00	0.00	12,914.1	0.0	0.0	0.0	0.00	0.00	0.00
12,950.0	2.87	359.63	12,950.0	0.9	0.0	0.9	8.00	8.00	0.00
13,000.0	6.87	359.63	12,999.8	5.1	0.0	5.1	8.00	8.00	0.00
13,050.0	10.87	359.63	13,049.2	12.9	-0.1	12.9	8.00	8.00	0.00
13,100.0	14.87	359.63	13,097.9	24.0	-0.2	24.0	8.00	8.00	0.00
13,150.0	18.87	359.63	13,145.8	38.5	-0.2	38.5	8.00	8.00	0.00
13,200.0	22.87	359.63	13,192.5	56.3	-0.4	56.3	8.00	8.00	0.00
13,250.0	26.87	359.63	13,237.8	77.3	-0.5	77.3	8.00	8.00	0.00
13,300.0	30.87	359.63	13,281.6	101.5	-0.6	101.5	8.00	8.00	0.00
13,350.0	34.87	359.63	13,323.6	128.6	-0.8	128.6	8.00	8.00	0.00
13,400.0	38.87	359.63	13,363.6	158.6	-1.0	158.6	8.00	8.00	0.00
13,450.0	42.87	359.63	13,401.4	191.3	-1.2	191.3	8.00	8.00	0.00
13,500.0	46.87	359.63	13,436.8	226.6	-1.4	226.6	8.00	8.00	0.00
13,550.0	50.87	359.63	13,469.7	264.2	-1.7	264.2	8.00	8.00	0.00
13,600.0	54.87	359.63	13,499.9	304.1	-1.9	304.1	8.00	8.00	0.00
13,650.0	58.87	359.63	13,527.2	346.0	-2.2	346.0	8.00	8.00	0.00
13,700.0	62.87	359.63	13,551.5	389.6	-2.5	389.6	8.00	8.00	0.00
13,750.0	66.87	359.63	13,572.7	434.9	-2.8	434.9	8.00	8.00	0.00
13,800.0	70.87	359.63	13,590.8	481.5	-3.1	481.5	8.00	8.00	0.00
13,850.0	74.87	359.63	13,605.5	529.3	-3.4	529.3	8.00	8.00	0.00
13,900.0	78.87	359.63	13,616.8	578.0	-3.7	578.0	8.00	8.00	0.00
13,950.0	82.87	359.63	13,624.8	627.3	-4.0	627.3	8.00	8.00	0.00
14,000.0	86.87	359.63	13,629.2	677.1	-4.3	677.1	8.00	8.00	0.00
14,039.1	90.00	359.63	13,630.3	716.2	-4.6	716.2	8.00	8.00	0.00
14,100.0	90.00	359.63	13,630.3	777.1	-5.0	777.1	0.00	0.00	0.00
14,200.0	90.00	359.63	13,630.3	877.1	-5.6	877.1	0.00	0.00	0.00
14,300.0	90.00	359.63	13,630.3	977.1	-6.2	977.1	0.00	0.00	0.00
14,400.0	90.00	359.63	13,630.3	1,077.1	-6.9	1,077.1	0.00	0.00	0.00
14,500.0	90.00	359.63	13,630.3	1,177.1	-7.5	1,177.1	0.00	0.00	0.00
14,600.0	90.00	359.63	13,630.3	1,277.1	-8.1	1,277.1	0.00	0.00	0.00
14,700.0	90.00	359.63	13,630.3	1,377.1	-8.8	1,377.1	0.00	0.00	0.00
14,800.0	90.00	359.63	13,630.3	1,477.1	-9.4	1,477.1	0.00	0.00	0.00

Database:	Midland District	**Local Co-ordinate Reference:**	Well Harley 17F 1H
Company:	OXY	**TVD Reference:**	KB @ 3445.3usft
Project:	Lea County, New Mexico	**MD Reference:**	KB @ 3445.3usft
Site:	Harley 17 Fed 1H	**North Reference:**	Grid
Well:	Harley 17F 1H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
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)
14,900.0	90.00	359.63	13,630.3	1,577.1	-10.0	1,577.1	0.00	0.00	0.00
15,000.0	90.00	359.63	13,630.3	1,677.1	-10.7	1,677.1	0.00	0.00	0.00
15,100.0	90.00	359.63	13,630.3	1,777.1	-11.3	1,777.1	0.00	0.00	0.00
15,200.0	90.00	359.63	13,630.3	1,877.1	-12.0	1,877.1	0.00	0.00	0.00
15,300.0	90.00	359.63	13,630.3	1,977.1	-12.6	1,977.1	0.00	0.00	0.00
15,400.0	90.00	359.63	13,630.3	2,077.1	-13.2	2,077.1	0.00	0.00	0.00
15,500.0	90.00	359.63	13,630.3	2,177.1	-13.9	2,177.1	0.00	0.00	0.00
15,600.0	90.00	359.63	13,630.3	2,277.1	-14.5	2,277.1	0.00	0.00	0.00
15,700.0	90.00	359.63	13,630.3	2,377.0	-15.1	2,377.1	0.00	0.00	0.00
15,800.0	90.00	359.63	13,630.3	2,477.0	-15.8	2,477.1	0.00	0.00	0.00
15,900.0	90.00	359.63	13,630.3	2,577.0	-16.4	2,577.1	0.00	0.00	0.00
16,000.0	90.00	359.63	13,630.3	2,677.0	-17.1	2,677.1	0.00	0.00	0.00
16,100.0	90.00	359.63	13,630.3	2,777.0	-17.7	2,777.1	0.00	0.00	0.00
16,200.0	90.00	359.63	13,630.3	2,877.0	-18.3	2,877.1	0.00	0.00	0.00
16,300.0	90.00	359.63	13,630.3	2,977.0	-19.0	2,977.1	0.00	0.00	0.00
16,400.0	90.00	359.63	13,630.3	3,077.0	-19.6	3,077.1	0.00	0.00	0.00
16,500.0	90.00	359.63	13,630.3	3,177.0	-20.2	3,177.1	0.00	0.00	0.00
16,600.0	90.00	359.63	13,630.3	3,277.0	-20.9	3,277.1	0.00	0.00	0.00
16,700.0	90.00	359.63	13,630.3	3,377.0	-21.5	3,377.1	0.00	0.00	0.00
16,800.0	90.00	359.63	13,630.3	3,477.0	-22.2	3,477.1	0.00	0.00	0.00
16,900.0	90.00	359.63	13,630.3	3,577.0	-22.8	3,577.1	0.00	0.00	0.00
17,000.0	90.00	359.63	13,630.3	3,677.0	-23.4	3,677.1	0.00	0.00	0.00
17,100.0	90.00	359.63	13,630.3	3,777.0	-24.1	3,777.1	0.00	0.00	0.00
17,200.0	90.00	359.63	13,630.3	3,877.0	-24.7	3,877.1	0.00	0.00	0.00
17,300.0	90.00	359.63	13,630.3	3,977.0	-25.3	3,977.1	0.00	0.00	0.00
17,400.0	90.00	359.63	13,630.3	4,077.0	-26.0	4,077.1	0.00	0.00	0.00
17,500.0	90.00	359.63	13,630.3	4,177.0	-26.6	4,177.1	0.00	0.00	0.00
17,600.0	90.00	359.63	13,630.3	4,277.0	-27.3	4,277.1	0.00	0.00	0.00
17,700.0	90.00	359.63	13,630.3	4,377.0	-27.9	4,377.1	0.00	0.00	0.00
17,800.0	90.00	359.63	13,630.3	4,477.0	-28.5	4,477.1	0.00	0.00	0.00
17,900.0	90.00	359.63	13,630.3	4,577.0	-29.2	4,577.1	0.00	0.00	0.00
18,000.0	90.00	359.63	13,630.3	4,677.0	-29.8	4,677.1	0.00	0.00	0.00
18,062.5	90.00	359.63	13,630.3	4,739.5	-30.2	4,739.6	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
17F 1H BHL - plan hits target center - Point	0.00	0.00	13,630.3	4,739.5	-30.2	414,447.60	730,999.90	32° 8' 14.039 N	103° 35' 13.399 W
17F 1H FTP - plan hits target center - Point	0.00	0.00	13,630.3	716.2	-4.6	410,424.30	731,025.50	32° 7' 34.224 N	103° 35' 13.425 W
17F 1H LTP - plan misses target center by 0.1usft at 17912.5usft MD (13830.3 TVD, 4589.5 N, -29.2 E) - Point	0.00	0.00	13,630.3	4,589.5	-29.3	414,297.60	731,000.80	32° 8' 12.555 N	103° 35' 13.400 W

Pilot Hole - 1

Planning Report

Database:	Midland District	**Local Co-ordinate Reference:**	Well Harley 17F 1H
Company:	OXY	**TVD Reference:**	KB @ 3445.3usft
Project:	Lea County, New Mexico	**MD Reference:**	KB @ 3445.3usft
Site:	Harley 17 Fed 1H	**North Reference:**	Grid
Well:	Harley 17F 1H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Pilot Wellpath		
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	Harley 17 Fed 1H				
Site Position:		**Northing:**	409,708.10 usft	**Latitude:**	32° 7' 27.136 N
From:	Map	**Easting:**	731,030.10 usft	**Longitude:**	103° 35' 13.429 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.40 °

Well	Harley 17F 1H					
Well Position	**+N/-S**	0.0 usft	**Northing:**	409,708.10 usft	**Latitude:**	32° 7' 27.136 N
	+E/-W	0.0 usft	**Easting:**	731,030.10 usft	**Longitude:**	103° 35' 13.429 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	0.0 usft	**Ground Level:**	3,420.3 usft

Wellbore	Pilot Wellpath			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	10/6/2014	7.18	60.01	48,223

Design	Plan #1				
Audit Notes:					
Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**	
	0.0	0.0	0.0	0.00	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
14,350.0	0.00	0.00	14,350.0	0.0	0.0	0.00	0.00	0.00	0.00	

PH-2

Planning Report

Database:	Midland District	**Local Co-ordinate Reference:**	Well Harley 17F 1H
Company:	OXY	**TVD Reference:**	KB @ 3445.3usft
Project:	Lea County, New Mexico	**MD Reference:**	KB @ 3445.3usft
Site:	Harley 17 Fed 1H	**North Reference:**	Grid
Well:	Harley 17F 1H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Pilot Wellpath		
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

PH-3

Planning Report

Database:	Midland District	**Local Co-ordinate Reference:**	Well Harley 17F 1H
Company:	OXY	**TVD Reference:**	KB @ 3445.3usft
Project:	Lea County, New Mexico	**MD Reference:**	KB @ 3445.3usft
Site:	Harley 17 Fed 1H	**North Reference:**	Grid
Well:	Harley 17F 1H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Pilot Wellpath		
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
10,200.0	0.00	0.00	10,200.0	0.0	0.0	0.0	0.00	0.00	0.00
10,300.0	0.00	0.00	10,300.0	0.0	0.0	0.0	0.00	0.00	0.00
10,400.0	0.00	0.00	10,400.0	0.0	0.0	0.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,500.0	0.0	0.0	0.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,600.0	0.0	0.0	0.0	0.00	0.00	0.00
10,700.0	0.00	0.00	10,700.0	0.0	0.0	0.0	0.00	0.00	0.00

PH-4

Planning Report

Database:	Midland District	**Local Co-ordinate Reference:**	Well Harley 17F 1H
Company:	OXY	**TVD Reference:**	KB @ 3445.3usft
Project:	Lea County, New Mexico	**MD Reference:**	KB @ 3445.3usft
Site:	Harley 17 Fed 1H	**North Reference:**	Grid
Well:	Harley 17F 1H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Pilot Wellpath		
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)
10,800.0	0.00	0.00	10,800.0	0.0	0.0	0.0	0.00	0.00	0.00
10,900.0	0.00	0.00	10,900.0	0.0	0.0	0.0	0.00	0.00	0.00
11,000.0	0.00	0.00	11,000.0	0.0	0.0	0.0	0.00	0.00	0.00
11,100.0	0.00	0.00	11,100.0	0.0	0.0	0.0	0.00	0.00	0.00
11,200.0	0.00	0.00	11,200.0	0.0	0.0	0.0	0.00	0.00	0.00
11,300.0	0.00	0.00	11,300.0	0.0	0.0	0.0	0.00	0.00	0.00
11,400.0	0.00	0.00	11,400.0	0.0	0.0	0.0	0.00	0.00	0.00
11,500.0	0.00	0.00	11,500.0	0.0	0.0	0.0	0.00	0.00	0.00
11,600.0	0.00	0.00	11,600.0	0.0	0.0	0.0	0.00	0.00	0.00
11,700.0	0.00	0.00	11,700.0	0.0	0.0	0.0	0.00	0.00	0.00
11,800.0	0.00	0.00	11,800.0	0.0	0.0	0.0	0.00	0.00	0.00
11,900.0	0.00	0.00	11,900.0	0.0	0.0	0.0	0.00	0.00	0.00
12,000.0	0.00	0.00	12,000.0	0.0	0.0	0.0	0.00	0.00	0.00
12,100.0	0.00	0.00	12,100.0	0.0	0.0	0.0	0.00	0.00	0.00
12,200.0	0.00	0.00	12,200.0	0.0	0.0	0.0	0.00	0.00	0.00
12,300.0	0.00	0.00	12,300.0	0.0	0.0	0.0	0.00	0.00	0.00
12,400.0	0.00	0.00	12,400.0	0.0	0.0	0.0	0.00	0.00	0.00
12,500.0	0.00	0.00	12,500.0	0.0	0.0	0.0	0.00	0.00	0.00
12,600.0	0.00	0.00	12,600.0	0.0	0.0	0.0	0.00	0.00	0.00
12,700.0	0.00	0.00	12,700.0	0.0	0.0	0.0	0.00	0.00	0.00
12,800.0	0.00	0.00	12,800.0	0.0	0.0	0.0	0.00	0.00	0.00
12,900.0	0.00	0.00	12,900.0	0.0	0.0	0.0	0.00	0.00	0.00
13,000.0	0.00	0.00	13,000.0	0.0	0.0	0.0	0.00	0.00	0.00
13,100.0	0.00	0.00	13,100.0	0.0	0.0	0.0	0.00	0.00	0.00
13,200.0	0.00	0.00	13,200.0	0.0	0.0	0.0	0.00	0.00	0.00
13,300.0	0.00	0.00	13,300.0	0.0	0.0	0.0	0.00	0.00	0.00
13,400.0	0.00	0.00	13,400.0	0.0	0.0	0.0	0.00	0.00	0.00
13,500.0	0.00	0.00	13,500.0	0.0	0.0	0.0	0.00	0.00	0.00
13,600.0	0.00	0.00	13,600.0	0.0	0.0	0.0	0.00	0.00	0.00
13,700.0	0.00	0.00	13,700.0	0.0	0.0	0.0	0.00	0.00	0.00
13,800.0	0.00	0.00	13,800.0	0.0	0.0	0.0	0.00	0.00	0.00
13,900.0	0.00	0.00	13,900.0	0.0	0.0	0.0	0.00	0.00	0.00
14,000.0	0.00	0.00	14,000.0	0.0	0.0	0.0	0.00	0.00	0.00
14,100.0	0.00	0.00	14,100.0	0.0	0.0	0.0	0.00	0.00	0.00
14,200.0	0.00	0.00	14,200.0	0.0	0.0	0.0	0.00	0.00	0.00
14,300.0	0.00	0.00	14,300.0	0.0	0.0	0.0	0.00	0.00	0.00
14,350.0	0.00	0.00	14,350.0	0.0	0.0	0.0	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
17F 1H BHL	0.00	0.00	13,630.3	4,739.5	-30.2	414,447.60	730,999.90	32° 8' 14.039 N	103° 35' 13.399 W
- plan misses target center by 4739.6usft at 13630.3usft MD (13630.3 TVD, 0.0 N, 0.0 E)									
- Point									