

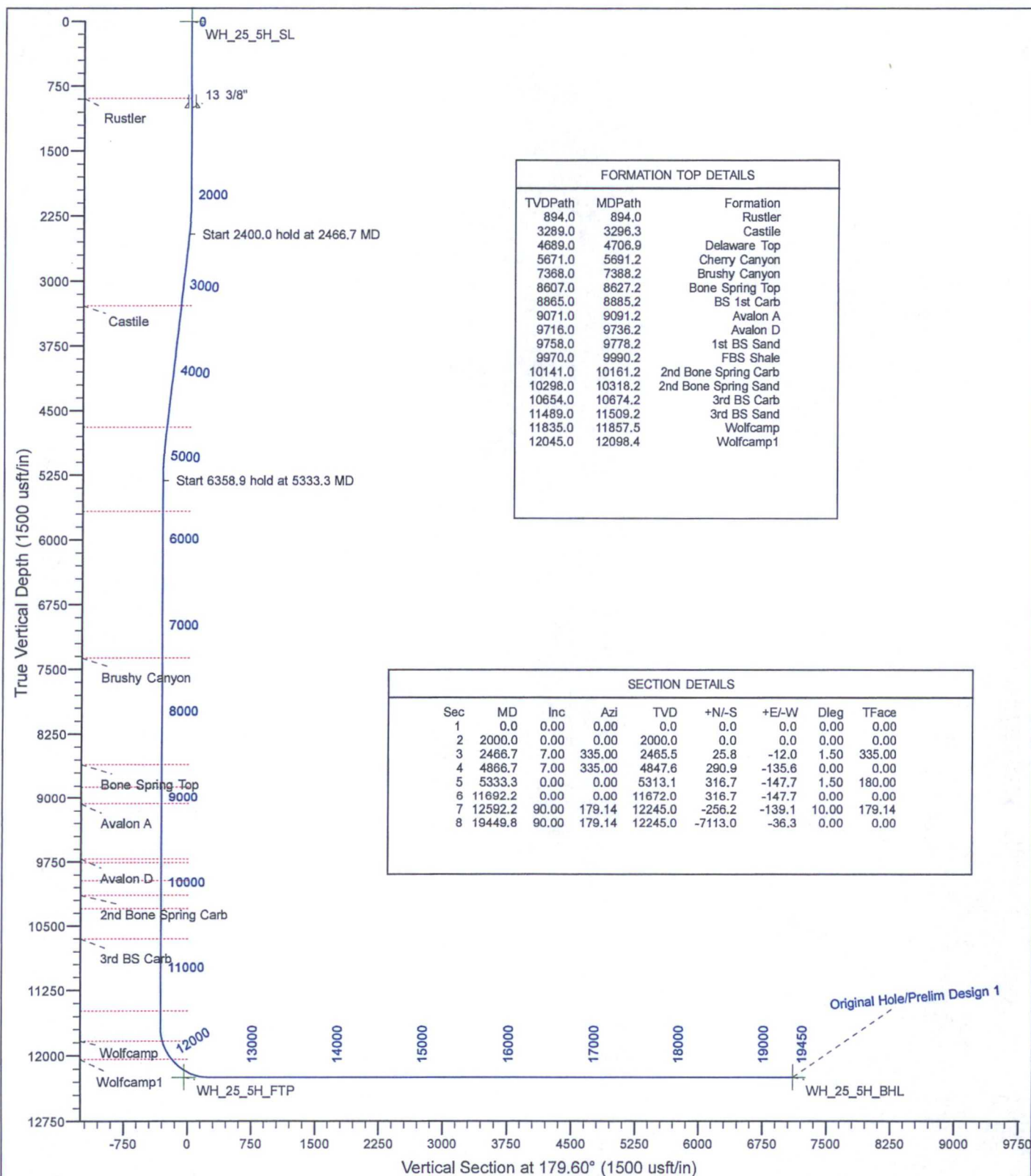
Attachment#1

ConocoPhillips

ConocoPhillips MCBU
Permian Delaware Hz New Mexico
WAR HAMMER 25 FEDERAL COM 5H - PS
War Hammer 25 Federal Com 5H - PS
Original Hole
Plan: Prelim Design 1 (War Hammer 25 Federal Com 5H - PS/Original Hole)
GRND+27 SKID @ 3160.0usft
US State Plane 1927 (Exact solution)
NAD 1927 (NADCON CONUS)
Clarke 1866
New Mexico East 3001



Azimuths to Grid North
True North: -0.38°
Magnetic North: 6.90°
Magnetic Field
Strength: 48058.0nT
Dip Angle: 59.94°
Date: 7/10/2015
Model: BGGM2015



HOBBS OCD

AUG 22 2016

RECEIVED

ConocoPhillips MCBU

Permian Delaware Hz New Mexico

WAR HAMMER 25 FEDERAL COM 6H - PS

War Hammer 25 Federal Com 6H - PS

Original Hole

Plan: Prelim Design 1

Standard Planning Report

13 July, 2015

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Site WAR HAMMER 25 FEDERAL COM 6H - PS
Company:	ConocoPhillips MCBU	TVD Reference:	GRND+27 SKID @ 3160.0usft
Project:	Permian Delaware Hz New Mexico	MD Reference:	GRND+27 SKID @ 3160.0usft
Site:	WAR HAMMER 25 FEDERAL COM 6H - PS	North Reference:	Grid
Well:	War Hammer 25 Federal Com 6H - PS	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Prelim Design 1		

Project	Permian Delaware Hz New Mexico, 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	WAR HAMMER 25 FEDERAL COM 6H - PS, Section 25 and Section 36		
Site Position:	Map	Northing:	371,631.28 usft
From:		Easting:	720,681.04 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 1' 11.027 N
		Longitude:	103° 37' 16.689 W
		Grid Convergence:	0.38 °

Well	War Hammer 25 Federal Com 6H - PS, Horizontal - Development		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 1' 11.027 N
		Longitude:	103° 37' 16.689 W
		Ground Level:	3,133.0 usft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination
	BGGM2015	7/10/2015	7.28
		Dip Angle	59.94
		Field Strength	48,088
		(nT)	

Design	Prelim Design 1		
Audit Notes:			
Version:	1	Phase:	PROTOTYPE
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
		Direction	179.60
		(°)	

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	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,033.3	8.00	302.00	3,031.6	19.7	-31.5	1.50	1.50	0.00	302.00	
6,218.3	8.00	302.00	6,185.6	254.6	-407.4	0.00	0.00	0.00	0.00	
6,751.7	0.00	0.00	6,717.2	274.3	-439.0	1.50	-1.50	0.00	180.00	
11,706.5	0.00	0.00	11,672.0	274.3	-439.0	0.00	0.00	0.00	0.00	
12,608.5	90.00	179.60	12,245.0	-298.6	-434.9	10.00	10.00	19.96	179.60	
19,397.7	90.00	179.60	12,245.0	-7,089.7	-387.1	0.00	0.00	0.00	0.00	WH_25_6H_BHL

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Site WAR HAMMER 25 FEDERAL COM 6H - PS
Company:	ConocoPhillips MCBU	TVD Reference:	GRND+27 SKID @ 3160.0usft
Project:	Permian Delaware Hz New Mexico	MD Reference:	GRND+27 SKID @ 3160.0usft
Site:	WAR HAMMER 25 FEDERAL COM 6H - PS	North Reference:	Grid
Well:	War Hammer 25 Federal Com 6H - PS	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Prelim Design 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	1.50	302.00	2,600.0	0.7	-1.1	-0.7	1.50	1.50	0.00
2,700.0	3.00	302.00	2,699.9	2.8	-4.4	-2.8	1.50	1.50	0.00
2,800.0	4.50	302.00	2,799.7	6.2	-10.0	-6.3	1.50	1.50	0.00
2,900.0	6.00	302.00	2,899.3	11.1	-17.7	-11.2	1.50	1.50	0.00
3,000.0	7.50	302.00	2,998.6	17.3	-27.7	-17.5	1.50	1.50	0.00
3,033.3	8.00	302.00	3,031.6	19.7	-31.5	-19.9	1.50	1.50	0.00
3,100.0	8.00	302.00	3,097.6	24.6	-39.4	-24.9	0.00	0.00	0.00
3,200.0	8.00	302.00	3,196.6	32.0	-51.2	-32.3	0.00	0.00	0.00
3,300.0	8.00	302.00	3,295.7	39.4	-63.0	-39.8	0.00	0.00	0.00
3,400.0	8.00	302.00	3,394.7	46.7	-74.8	-47.3	0.00	0.00	0.00
3,500.0	8.00	302.00	3,493.7	54.1	-86.6	-54.7	0.00	0.00	0.00
3,600.0	8.00	302.00	3,592.8	61.5	-98.4	-62.2	0.00	0.00	0.00
3,700.0	8.00	302.00	3,691.8	68.9	-110.2	-69.6	0.00	0.00	0.00
3,800.0	8.00	302.00	3,790.8	76.2	-122.0	-77.1	0.00	0.00	0.00
3,900.0	8.00	302.00	3,889.8	83.6	-133.8	-84.5	0.00	0.00	0.00
4,000.0	8.00	302.00	3,988.9	91.0	-145.6	-92.0	0.00	0.00	0.00
4,100.0	8.00	302.00	4,087.9	98.4	-157.4	-99.5	0.00	0.00	0.00
4,200.0	8.00	302.00	4,186.9	105.7	-169.2	-106.9	0.00	0.00	0.00
4,300.0	8.00	302.00	4,285.9	113.1	-181.0	-114.4	0.00	0.00	0.00
4,400.0	8.00	302.00	4,385.0	120.5	-192.8	-121.8	0.00	0.00	0.00
4,500.0	8.00	302.00	4,484.0	127.9	-204.6	-128.3	0.00	0.00	0.00
4,600.0	8.00	302.00	4,583.0	135.2	-216.4	-136.7	0.00	0.00	0.00
4,700.0	8.00	302.00	4,682.0	142.6	-228.2	-144.2	0.00	0.00	0.00
4,800.0	8.00	302.00	4,781.1	150.0	-240.0	-151.7	0.00	0.00	0.00
4,900.0	8.00	302.00	4,880.1	157.4	-251.8	-159.1	0.00	0.00	0.00
5,000.0	8.00	302.00	4,979.1	164.7	-263.6	-166.6	0.00	0.00	0.00
5,100.0	8.00	302.00	5,078.2	172.1	-275.4	-174.0	0.00	0.00	0.00
5,200.0	8.00	302.00	5,177.2	179.5	-287.2	-181.5	0.00	0.00	0.00

ConocoPhillips Planning Report

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Project:	Permian Delaware Hz New Mexico	MD Reference:	GRND+27 SKID @ 3160.0usft
Site:	WAR HAMMER 25 FEDERAL COM 6H - PS	North Reference:	Grid
Well:	War Hammer 25 Federal Com 6H - PS	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Prelim Design 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)
5,300.0	8.00	302.00	5,276.2	186.9	-299.0	-188.9	0.00	0.00	0.00
5,400.0	8.00	302.00	5,375.2	194.2	-310.9	-198.4	0.00	0.00	0.00
5,500.0	8.00	302.00	5,474.3	201.6	-322.7	-203.9	0.00	0.00	0.00
5,600.0	8.00	302.00	5,573.3	209.0	-334.5	-211.3	0.00	0.00	0.00
5,700.0	8.00	302.00	5,672.3	216.4	-346.3	-218.8	0.00	0.00	0.00
5,800.0	8.00	302.00	5,771.3	223.7	-358.1	-226.2	0.00	0.00	0.00
5,900.0	8.00	302.00	5,870.4	231.1	-369.9	-233.7	0.00	0.00	0.00
6,000.0	8.00	302.00	5,969.4	238.5	-381.7	-241.2	0.00	0.00	0.00
6,100.0	8.00	302.00	6,068.4	245.9	-393.5	-248.6	0.00	0.00	0.00
6,200.0	8.00	302.00	6,167.5	253.2	-405.3	-256.1	0.00	0.00	0.00
6,218.3	8.00	302.00	6,185.6	254.6	-407.4	-257.4	0.00	0.00	0.00
6,300.0	8.78	302.00	6,286.6	260.2	-416.3	-263.1	1.50	-1.50	0.00
6,400.0	5.28	302.00	6,386.0	265.7	-425.2	-268.7	1.50	-1.50	0.00
6,500.0	3.78	302.00	6,465.7	269.9	-431.9	-272.9	1.50	-1.50	0.00
6,600.0	2.28	302.00	6,565.6	272.7	-436.4	-275.7	1.50	-1.50	0.00
6,700.0	0.78	302.00	6,665.5	274.1	-438.7	-277.2	1.50	-1.50	0.00
6,751.7	0.00	0.00	6,717.2	274.3	-439.0	-277.4	1.50	-1.50	0.00
6,800.0	0.00	0.00	6,765.5	274.3	-439.0	-277.4	0.00	0.00	0.00
6,900.0	0.00	0.00	6,865.5	274.3	-439.0	-277.4	0.00	0.00	0.00
7,000.0	0.00	0.00	6,965.5	274.3	-439.0	-277.4	0.00	0.00	0.00
7,100.0	0.00	0.00	7,065.5	274.3	-439.0	-277.4	0.00	0.00	0.00
7,200.0	0.00	0.00	7,165.5	274.3	-439.0	-277.4	0.00	0.00	0.00
7,300.0	0.00	0.00	7,265.5	274.3	-439.0	-277.4	0.00	0.00	0.00
7,400.0	0.00	0.00	7,365.5	274.3	-439.0	-277.4	0.00	0.00	0.00
7,500.0	0.00	0.00	7,465.5	274.3	-439.0	-277.4	0.00	0.00	0.00
7,600.0	0.00	0.00	7,565.5	274.3	-439.0	-277.4	0.00	0.00	0.00
7,700.0	0.00	0.00	7,665.5	274.3	-439.0	-277.4	0.00	0.00	0.00
7,800.0	0.00	0.00	7,765.5	274.3	-439.0	-277.4	0.00	0.00	0.00
7,900.0	0.00	0.00	7,865.5	274.3	-439.0	-277.4	0.00	0.00	0.00
8,000.0	0.00	0.00	7,965.5	274.3	-439.0	-277.4	0.00	0.00	0.00
8,100.0	0.00	0.00	8,065.5	274.3	-439.0	-277.4	0.00	0.00	0.00
8,200.0	0.00	0.00	8,165.5	274.3	-439.0	-277.4	0.00	0.00	0.00
8,300.0	0.00	0.00	8,265.5	274.3	-439.0	-277.4	0.00	0.00	0.00
8,400.0	0.00	0.00	8,365.5	274.3	-439.0	-277.4	0.00	0.00	0.00
8,500.0	0.00	0.00	8,465.5	274.3	-439.0	-277.4	0.00	0.00	0.00
8,600.0	0.00	0.00	8,565.5	274.3	-439.0	-277.4	0.00	0.00	0.00
8,700.0	0.00	0.00	8,665.5	274.3	-439.0	-277.4	0.00	0.00	0.00
8,800.0	0.00	0.00	8,765.5	274.3	-439.0	-277.4	0.00	0.00	0.00
8,900.0	0.00	0.00	8,865.5	274.3	-439.0	-277.4	0.00	0.00	0.00
9,000.0	0.00	0.00	8,965.5	274.3	-439.0	-277.4	0.00	0.00	0.00
9,100.0	0.00	0.00	9,065.5	274.3	-439.0	-277.4	0.00	0.00	0.00
9,200.0	0.00	0.00	9,165.5	274.3	-439.0	-277.4	0.00	0.00	0.00
9,300.0	0.00	0.00	9,265.5	274.3	-439.0	-277.4	0.00	0.00	0.00
9,400.0	0.00	0.00	9,365.5	274.3	-439.0	-277.4	0.00	0.00	0.00
9,500.0	0.00	0.00	9,465.5	274.3	-439.0	-277.4	0.00	0.00	0.00
9,600.0	0.00	0.00	9,565.5	274.3	-439.0	-277.4	0.00	0.00	0.00
9,700.0	0.00	0.00	9,665.5	274.3	-439.0	-277.4	0.00	0.00	0.00
9,800.0	0.00	0.00	9,765.5	274.3	-439.0	-277.4	0.00	0.00	0.00
9,900.0	0.00	0.00	9,865.5	274.3	-439.0	-277.4	0.00	0.00	0.00
10,000.0	0.00	0.00	9,965.5	274.3	-439.0	-277.4	0.00	0.00	0.00
10,100.0	0.00	0.00	10,065.5	274.3	-439.0	-277.4	0.00	0.00	0.00
10,200.0	0.00	0.00	10,165.5	274.3	-439.0	-277.4	0.00	0.00	0.00
10,300.0	0.00	0.00	10,265.5	274.3	-439.0	-277.4	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Site WAR HAMMER 25 FEDERAL COM 6H - PS
Company:	ConocoPhillips MCBU	TVD Reference:	GRND+27 SKID @ 3160.0usft
Project:	Permian Delaware Hz New Mexico	MD Reference:	GRND+27 SKID @ 3160.0usft
Site:	WAR HAMMER 25 FEDERAL COM 6H - PS	North Reference:	Grid
Well:	War Hammer 25 Federal Com 6H - PS	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Prelim Design 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)
10,400.0	0.00	0.00	10,365.5	274.3	-439.0	-277.4	0.00	0.00	0.00
10,500.0	0.00	0.00	10,465.5	274.3	-439.0	-277.4	0.00	0.00	0.00
10,600.0	0.00	0.00	10,565.5	274.3	-439.0	-277.4	0.00	0.00	0.00
10,700.0	0.00	0.00	10,665.5	274.3	-439.0	-277.4	0.00	0.00	0.00
10,800.0	0.00	0.00	10,765.5	274.3	-439.0	-277.4	0.00	0.00	0.00
10,900.0	0.00	0.00	10,865.5	274.3	-439.0	-277.4	0.00	0.00	0.00
11,000.0	0.00	0.00	10,965.5	274.3	-439.0	-277.4	0.00	0.00	0.00
11,100.0	0.00	0.00	11,065.5	274.3	-439.0	-277.4	0.00	0.00	0.00
11,200.0	0.00	0.00	11,165.5	274.3	-439.0	-277.4	0.00	0.00	0.00
11,300.0	0.00	0.00	11,265.5	274.3	-439.0	-277.4	0.00	0.00	0.00
11,400.0	0.00	0.00	11,365.5	274.3	-439.0	-277.4	0.00	0.00	0.00
11,500.0	0.00	0.00	11,465.5	274.3	-439.0	-277.4	0.00	0.00	0.00
11,600.0	0.00	0.00	11,565.5	274.3	-439.0	-277.4	0.00	0.00	0.00
11,700.0	0.00	0.00	11,665.5	274.3	-439.0	-277.4	0.00	0.00	0.00
11,708.5	0.00	0.00	11,672.0	274.3	-439.0	-277.4	0.00	0.00	0.00
11,800.0	9.35	179.60	11,765.1	266.7	-438.9	-269.7	10.00	10.00	0.00
11,900.0	19.35	179.60	11,861.9	241.9	-438.7	-245.0	10.00	10.00	0.00
12,000.0	29.35	179.60	11,952.9	200.7	-438.4	-203.8	10.00	10.00	0.00
12,100.0	39.35	179.60	12,035.3	144.4	-438.0	-147.4	10.00	10.00	0.00
12,200.0	49.35	179.60	12,106.7	74.6	-437.6	-77.6	10.00	10.00	0.00
12,300.0	59.35	179.60	12,164.9	-6.6	-437.0	3.5	10.00	10.00	0.00
12,400.0	69.35	179.60	12,208.2	-96.6	-436.4	93.6	10.00	10.00	0.00
12,500.0	79.35	179.60	12,235.1	-192.8	-435.7	189.8	10.00	10.00	0.00
12,600.0	89.35	179.60	12,244.9	-292.2	-435.0	289.1	10.00	10.00	0.00
12,606.5	90.00	179.60	12,245.0	-298.6	-434.9	295.6	10.00	10.00	0.00
12,700.0	90.00	179.60	12,245.0	-392.2	-434.3	389.1	0.00	0.00	0.00
12,800.0	90.00	179.60	12,245.0	-492.2	-433.6	489.1	0.00	0.00	0.00
12,900.0	90.00	179.60	12,245.0	-592.2	-432.9	589.1	0.00	0.00	0.00
13,000.0	90.00	179.60	12,245.0	-692.2	-432.2	689.1	0.00	0.00	0.00
13,100.0	90.00	179.60	12,245.0	-792.2	-431.5	789.1	0.00	0.00	0.00
13,200.0	90.00	179.60	12,245.0	-892.2	-430.8	889.1	0.00	0.00	0.00
13,300.0	90.00	179.60	12,245.0	-992.2	-430.1	989.1	0.00	0.00	0.00
13,400.0	90.00	179.60	12,245.0	-1,092.2	-429.3	1,089.1	0.00	0.00	0.00
13,500.0	90.00	179.60	12,245.0	-1,192.2	-428.6	1,189.1	0.00	0.00	0.00
13,600.0	90.00	179.60	12,245.0	-1,292.2	-427.9	1,289.1	0.00	0.00	0.00
13,700.0	90.00	179.60	12,245.0	-1,392.2	-427.2	1,389.1	0.00	0.00	0.00
13,800.0	90.00	179.60	12,245.0	-1,492.2	-426.5	1,489.1	0.00	0.00	0.00
13,900.0	90.00	179.60	12,245.0	-1,592.2	-425.8	1,589.1	0.00	0.00	0.00
14,000.0	90.00	179.60	12,245.0	-1,692.1	-425.1	1,689.1	0.00	0.00	0.00
14,100.0	90.00	179.60	12,245.0	-1,792.1	-424.4	1,789.1	0.00	0.00	0.00
14,200.0	90.00	179.60	12,245.0	-1,892.1	-423.7	1,889.1	0.00	0.00	0.00
14,300.0	90.00	179.60	12,245.0	-1,992.1	-423.0	1,989.1	0.00	0.00	0.00
14,400.0	90.00	179.60	12,245.0	-2,092.1	-422.3	2,089.1	0.00	0.00	0.00
14,500.0	90.00	179.60	12,245.0	-2,192.1	-421.6	2,189.1	0.00	0.00	0.00
14,600.0	90.00	179.60	12,245.0	-2,292.1	-420.9	2,289.1	0.00	0.00	0.00
14,700.0	90.00	179.60	12,245.0	-2,392.1	-420.2	2,389.1	0.00	0.00	0.00
14,800.0	90.00	179.60	12,245.0	-2,492.1	-419.5	2,489.1	0.00	0.00	0.00
14,900.0	90.00	179.60	12,245.0	-2,592.1	-418.8	2,589.1	0.00	0.00	0.00
15,000.0	90.00	179.60	12,245.0	-2,692.1	-418.1	2,689.1	0.00	0.00	0.00
15,100.0	90.00	179.60	12,245.0	-2,792.1	-417.4	2,789.1	0.00	0.00	0.00
15,200.0	90.00	179.60	12,245.0	-2,892.1	-416.7	2,889.1	0.00	0.00	0.00
15,300.0	90.00	179.60	12,245.0	-2,992.1	-416.0	2,989.1	0.00	0.00	0.00
15,400.0	90.00	179.60	12,245.0	-3,092.1	-415.3	3,089.1	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Site WAR HAMMER 25 FEDERAL COM 6H - PS
Company:	ConocoPhillips MCBU	TVD Reference:	GRND+27 SKID @ 3160.0usft
Project:	Permian Delaware Hz New Mexico	MD Reference:	GRND+27 SKID @ 3160.0usft
Site:	WAR HAMMER 25 FEDERAL COM 6H - PS	North Reference:	Grid
Well:	War Hammer 25 Federal Com 6H - PS	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Prelim Design 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)
15,500.0	90.00	179.60	12,245.0	-3,192.1	-414.6	3,189.1	0.00	0.00	0.00
15,600.0	90.00	179.60	12,245.0	-3,292.1	-413.9	3,289.1	0.00	0.00	0.00
15,700.0	90.00	179.60	12,245.0	-3,392.1	-413.2	3,389.1	0.00	0.00	0.00
15,800.0	90.00	179.60	12,245.0	-3,492.1	-412.5	3,489.1	0.00	0.00	0.00
15,900.0	90.00	179.60	12,245.0	-3,592.1	-411.8	3,589.1	0.00	0.00	0.00
16,000.0	90.00	179.60	12,245.0	-3,692.1	-411.1	3,689.1	0.00	0.00	0.00
16,100.0	90.00	179.60	12,245.0	-3,792.1	-410.4	3,789.1	0.00	0.00	0.00
16,200.0	90.00	179.60	12,245.0	-3,892.1	-409.6	3,889.1	0.00	0.00	0.00
16,300.0	90.00	179.60	12,245.0	-3,992.1	-408.9	3,989.1	0.00	0.00	0.00
16,400.0	90.00	179.60	12,245.0	-4,092.1	-408.2	4,089.1	0.00	0.00	0.00
16,500.0	90.00	179.60	12,245.0	-4,192.1	-407.5	4,189.1	0.00	0.00	0.00
16,600.0	90.00	179.60	12,245.0	-4,292.1	-406.8	4,289.1	0.00	0.00	0.00
16,700.0	90.00	179.60	12,245.0	-4,392.1	-406.1	4,389.1	0.00	0.00	0.00
16,800.0	90.00	179.60	12,245.0	-4,492.1	-405.4	4,489.1	0.00	0.00	0.00
16,900.0	90.00	179.60	12,245.0	-4,592.1	-404.7	4,589.1	0.00	0.00	0.00
17,000.0	90.00	179.60	12,245.0	-4,692.1	-404.0	4,689.1	0.00	0.00	0.00
17,100.0	90.00	179.60	12,245.0	-4,792.1	-403.3	4,789.1	0.00	0.00	0.00
17,200.0	90.00	179.60	12,245.0	-4,892.1	-402.6	4,889.1	0.00	0.00	0.00
17,300.0	90.00	179.60	12,245.0	-4,992.1	-401.9	4,989.1	0.00	0.00	0.00
17,400.0	90.00	179.60	12,245.0	-5,092.1	-401.2	5,089.1	0.00	0.00	0.00
17,500.0	90.00	179.60	12,245.0	-5,192.1	-400.5	5,189.1	0.00	0.00	0.00
17,600.0	90.00	179.60	12,245.0	-5,292.1	-399.8	5,289.1	0.00	0.00	0.00
17,700.0	90.00	179.60	12,245.0	-5,392.1	-399.1	5,389.1	0.00	0.00	0.00
17,800.0	90.00	179.60	12,245.0	-5,492.1	-398.4	5,489.1	0.00	0.00	0.00
17,900.0	90.00	179.60	12,245.0	-5,592.1	-397.7	5,589.1	0.00	0.00	0.00
18,000.0	90.00	179.60	12,245.0	-5,692.1	-397.0	5,689.1	0.00	0.00	0.00
18,100.0	90.00	179.60	12,245.0	-5,792.0	-396.3	5,789.1	0.00	0.00	0.00
18,200.0	90.00	179.60	12,245.0	-5,892.0	-395.6	5,889.1	0.00	0.00	0.00
18,300.0	90.00	179.60	12,245.0	-5,992.0	-394.9	5,989.1	0.00	0.00	0.00
18,400.0	90.00	179.60	12,245.0	-6,092.0	-394.2	6,089.1	0.00	0.00	0.00
18,500.0	90.00	179.60	12,245.0	-6,192.0	-393.5	6,189.1	0.00	0.00	0.00
18,600.0	90.00	179.60	12,245.0	-6,292.0	-392.8	6,289.1	0.00	0.00	0.00
18,700.0	90.00	179.60	12,245.0	-6,392.0	-392.1	6,389.1	0.00	0.00	0.00
18,800.0	90.00	179.60	12,245.0	-6,492.0	-391.4	6,489.1	0.00	0.00	0.00
18,900.0	90.00	179.60	12,245.0	-6,592.0	-390.7	6,589.1	0.00	0.00	0.00
19,000.0	90.00	179.60	12,245.0	-6,692.0	-389.9	6,689.1	0.00	0.00	0.00
19,100.0	90.00	179.60	12,245.0	-6,792.0	-389.2	6,789.1	0.00	0.00	0.00
19,200.0	90.00	179.60	12,245.0	-6,892.0	-388.5	6,889.1	0.00	0.00	0.00
19,300.0	90.00	179.60	12,245.0	-6,992.0	-387.8	6,989.1	0.00	0.00	0.00
19,397.7	90.00	179.60	12,245.0	-7,089.7	-387.1	7,086.9	0.00	0.00	0.00

ConocoPhillips Planning Report

Database: EDM Central Planning
Company: ConocoPhillips MCBU
Project: Permian Delaware Hz New Mexico
Site: WAR HAMMER 25 FEDERAL COM 6H - PS
Well: War Hammer 25 Federal Com 6H - PS
Wellbore: Original Hole
Design: Prelim Design 1

Local Co-ordinate Reference: Site WAR HAMMER 25 FEDERAL COM 6H - PS
TVD Reference: GRND+27 SKID @ 3160.0usft
MD Reference: GRND+27 SKID @ 3160.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

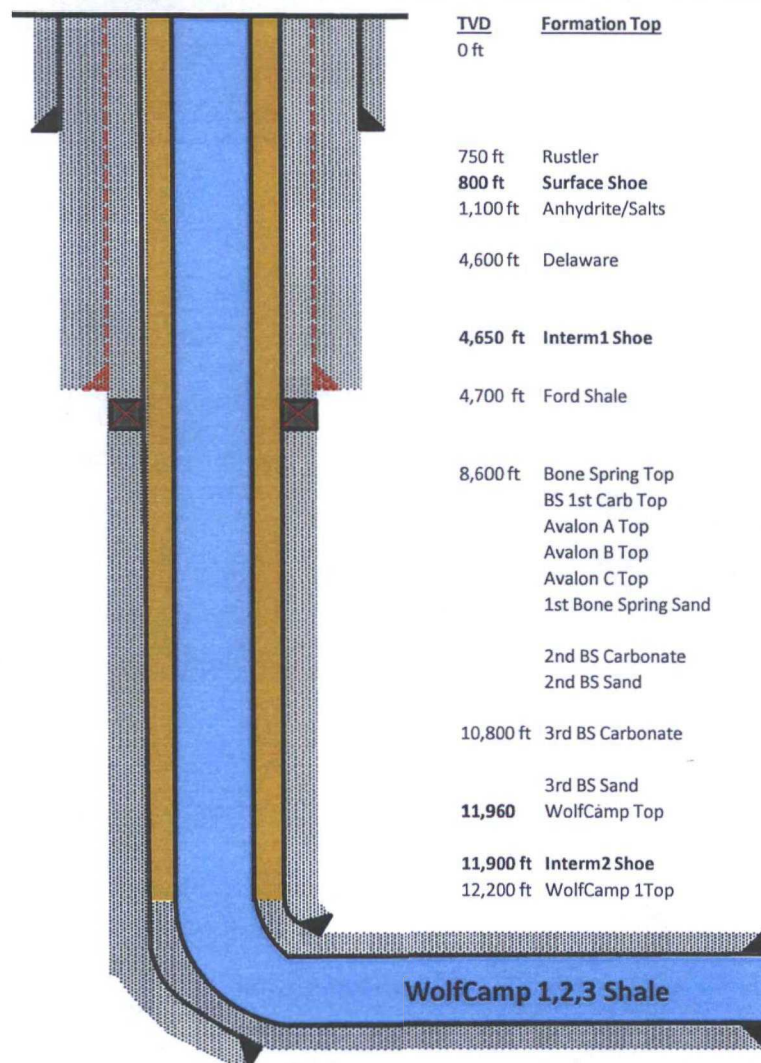
Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
WH_25_6H_BHL - plan hits target center - Point	0.00	0.00	12,245.0	-7,089.7	-387.1	364,541.55	720,293.89	32° 0' 0.893 N	103° 37' 21.727 W
WH_25_6H_FTP - plan misses target center by 104.0usft at 12291.3usft MD (12160.5 TVD, 0.8 N, -437.0 E) - Point	0.00	0.00	12,245.0	81.5	-437.5	371,692.77	720,243.59	32° 1' 11.664 N	103° 37' 21.765 W
WH_25_6H_SL - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	371,631.28	720,681.04	32° 1' 11.027 N	103° 37' 16.689 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
9,792.5	9,758.0	1st BS Sand		0.00	
10,688.5	10,654.0	3rd BS Carb		0.00	
4,707.0	4,689.0	Delaware Top		0.00	
10,332.5	10,298.0	2nd Bone Spring Sand		0.00	
11,523.5	11,489.0	3rd BS Sand		0.00	
3,293.3	3,289.0	Castilr		0.00	
10,175.5	10,141.0	2nd Bone Spring Carb		0.00	
5,698.7	5,671.0	Cherry Canyon		0.00	
8,899.5	8,865.0	BS 1st Carb		0.00	
9,750.5	9,716.0	Avalon D		0.00	
894.0	894.0	Rustler		0.00	
12,112.6	12,045.0	Wolfcamp1		0.00	
9,105.5	9,071.0	Avalon A		0.00	
11,871.7	11,835.0	Wolfcamp		0.00	
8,641.5	8,607.0	Bone Spring Top		0.00	
7,402.5	7,368.0	Brushy Canyon		0.00	
10,004.5	9,970.0	FBS Shale		0.00	

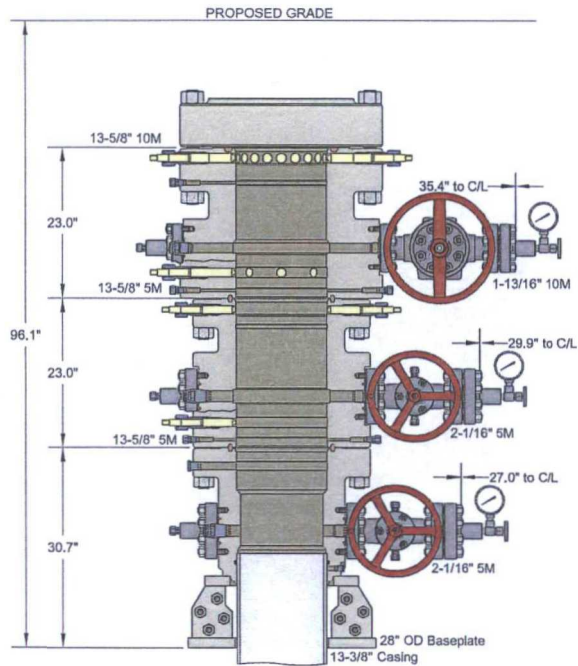
Attachment #2



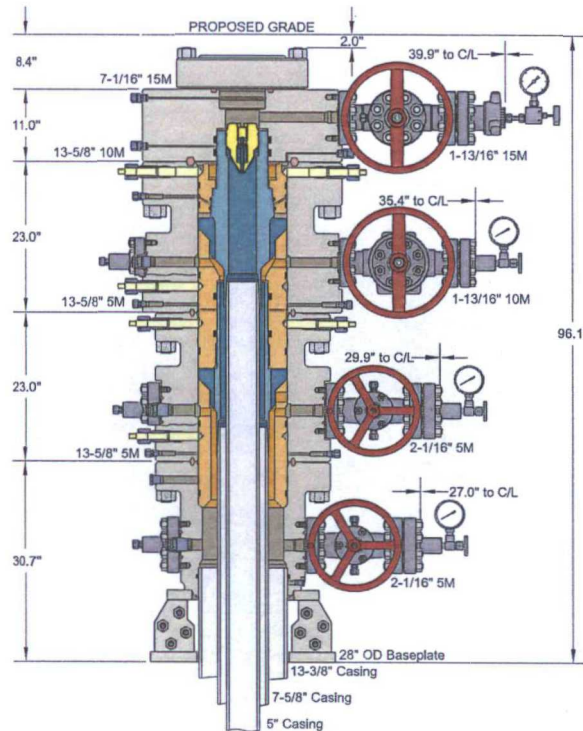
- Surface Section (Pre-set):
 - Objective: Protect fresh water horizons.
 - Drill 17-1/2" hole to +/- 800 ft. "Rustler"
 - Mud weight: 8.6 – 9.1 ppg FW-Native Mud
 - **Set 13-3/8" 54.5# J-55 BTC casing.**
 - Cement to surface.
- **Intermediate1 Section (Only for Contingency or Pre-set Option):**
 - **Objective: Isolate the Salado Salt and Delaware Sand interval.**
 - **Drill 12-1/4" hole to +/- 4,650 ft. "Ford Shale"**
 - **Mud weight: 10.0 ppg Brine.**
 - **Set 10-3/4" 45.5 J-55 Tenaris W511 casing.**
 - **Cement to surface.**
- Intermediate2 Section:
 - Objective: Isolate depleted/weak formations above BS3S/WC.
 - Drill 9-7/8" hole to +/- 11,960 ft.
 - **Mud weight: 8.6 – 9.2 ppg Brine or OBM w/ 25 ppb WBS**
 - **Set 7-5/8" 29.7# P-110 BTC casing.**
 - Cement to surface.
 - **2 -Stage Contingency with Packer/Stage Collars**
- Production Section:
 - Objective: Provide zonal isolation of production interval and provide medium for stimulation.
 - Drill 6-3/4" hole to +/-19,000ft – 20,000ft. "Production TD"
 - Mud Weight: 9.5 – 12.0 ppg OBM.
 - **Set 5" 18# P-110 TenBlue/TXP casing.**
 - Cement lap 500 ft above previous shoe (near KOP).

19,500 ft TD
~6,500 ft Lateral

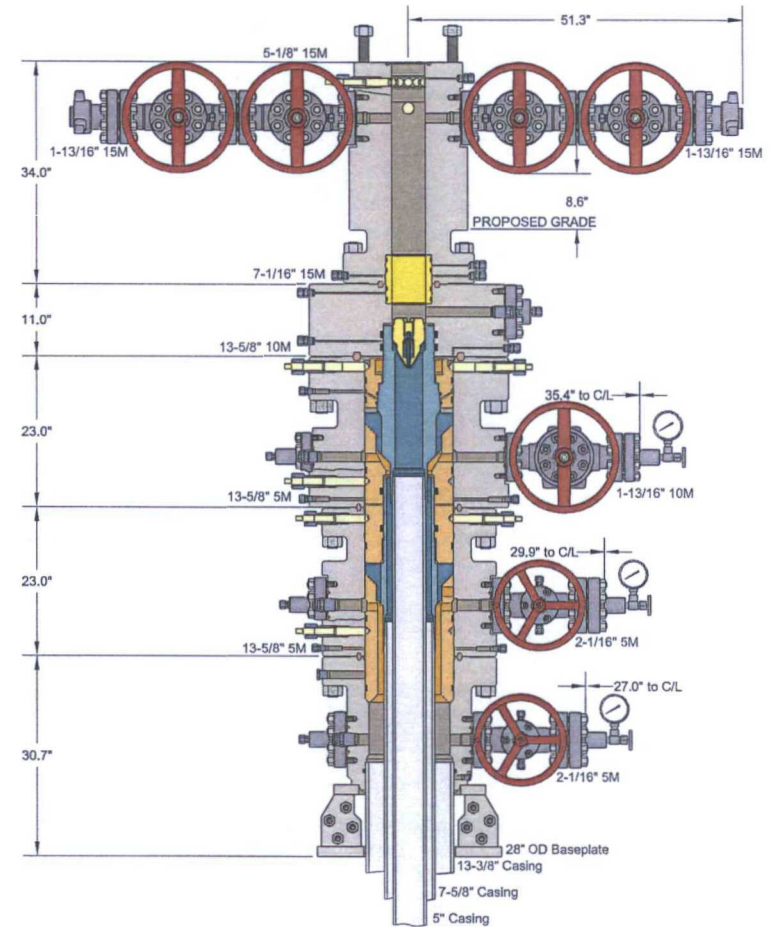
Attachment#3



SPUD CONFIGURATION



DRILL & SKID CONFIGURATION



COMPLETION CONFIGURATION

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CACTUS WELLHEAD LLC		CONOCOPHILLIPS 3 STRING CONFIGURATION	
13-3/8" x 7-5/8" x 5" 5M MBS2 Wellhead System		DRAWN	THH
With 13-5/8" 10M x 7-1/16" 15M DBLHPS DSPA And		APPRV	09JUN15
7-1/16" 15M x 5-1/8" 15M CMT-FB-EN Tubing Head, 34" Tall		DRAWING NO.	ODE0000491-A