

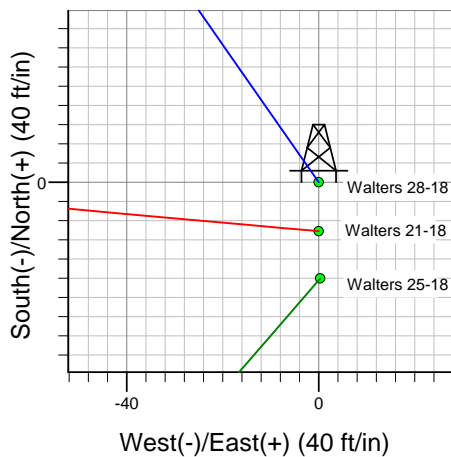
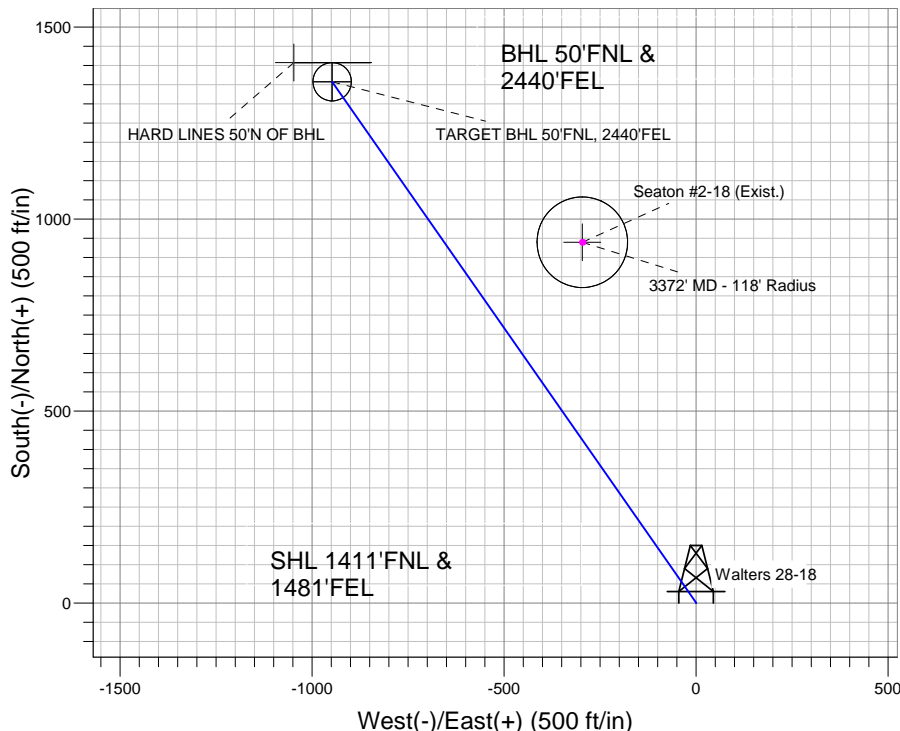
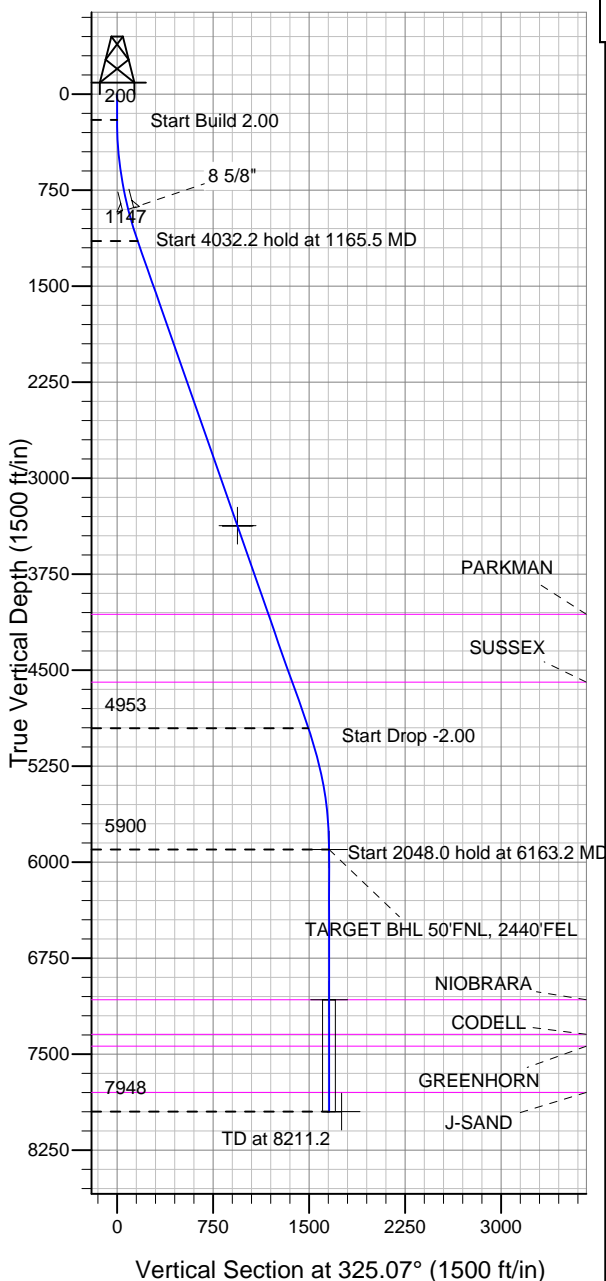
# ENSIGN

## Directional

### Well Name: Walters 28-18

Surface Location: Walters 17-18 Pad Sec.18-T2N-R65W  
 North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone  
 Ground Elevation: 4963.0  
 +N/-S +E/-W Northing Easting Latitude Longitude Slot  
 0.0 0.0 1295602.29 3222923.57 40.142071 -104.702609  
 Original Well Elev WELL @ 4977.0ft (Original Well Elev)

### Anadarko, Weld County CO



#### FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4063.0	4255.0	PARKMAN
4593.0	4816.6	SUSSEX
7073.0	7336.2	NIOBRARA
7343.0	7606.2	CODELL
7436.0	7699.2	GREENHORN
7798.0	8061.2	J-SAND



Azimuths to True North  
 Magnetic North: 8.83°

Magnetic Field  
 Strength: 53021.6snT  
 Dip Angle: 66.86°  
 Date: 4/6/2011  
 Model: IGRF2010

Well Name: Walters 28-18 Lat/Long: 40.142071 -104.702609

#### WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
3372' MD - 118' Radius	3370.0	939.5	-296.6	40.144650	-104.703670	Circle (Radius: 118.0)
TARGET BHL 50'FNL, 2440'FEL	5900.0	1357.4	-948.0	40.145797	-104.706000	Point
TARGET CIRCLE 50'FNL & 2440'FEL	7073.0	1357.4	-948.0	40.145797	-104.706000	Circle (Radius: 50.0)
HARD LINES 50'N OF BHL	7948.0	1407.4	-1048.0	40.145934	-104.706358	Polygon

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	1165.5	19.31	325.07	1147.3	132.1	-92.3	2.00	325.07	161.2	
4	5197.7	19.31	325.07	4952.7	1225.3	-855.7	0.00	0.00	1494.5	
5	6163.2	0.00	0.00	5900.0	1357.4	-948.0	2.00	180.00	1655.7	TARGET BHL 50'FNL, 2440'FEL
6	8211.2	0.00	0.00	7948.0	1357.4	-948.0	0.00	0.00	1655.7	

#### CASING DETAILS

TVD	MD	Name	Size
900.0	907.2	8 5/8"	8-5/8

Walters 17-18 Pad Sec.18-T2N-R65W  
 Walters 28-18  
 Plan #1 (4-01-11)  
 12:13, April 08 2011



## **Anadarko, Weld County CO**

**SEC.18-T2N-R65W**

**Walters 17-18 Pad Sec.18-T2N-R65W**

**Walters 28-18**

**Wellbore #1**

**Plan: Plan #1 (4-01-11)**

## **Standard Planning Report**

**08 April, 2011**



<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Walters 28-18
<b>Company:</b>	Anadarko, Weld County CO	<b>TVD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Project:</b>	SEC.18-T2N-R65W	<b>MD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Site:</b>	Walters 17-18 Pad Sec.18-T2N-R65W	<b>North Reference:</b>	True
<b>Well:</b>	Walters 28-18	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (4-01-11)		

<b>Project</b>	SEC.18-T2N-R65W, Weld County, Colorado		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		Using Well Reference Point
<b>Map Zone:</b>	Colorado Northern Zone		Using geodetic scale factor

Site						Walters 17-18 Pad Sec.18-T2N-R65W											
Site Position:						Northing:			1,295,602.30 ft			Latitude:			40.142071		
From:			Lat/Long			Easting:			3,222,923.57 ft			Longitude:			-104.702609		
Position Uncertainty:			0.0 ft			Slot Radius:			"			Grid Convergence:			0.52 °		

Well	Walters 28-18					
Well Position	+N/-S	0.0 ft	Northing:	1,295,602.29 ft	Latitude:	40.142071
	+E/-W	0.0 ft	Easting:	3,222,923.57 ft	Longitude:	-104.702609
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,963.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	4/6/2011	8.83	66.86	53,022

<b>Design</b>	Plan #1 (4-01-11)			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	325.07

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,165.5	19.31	325.07	1,147.3	132.1	-92.3	2.00	2.00	0.00	325.07	
5,197.7	19.31	325.07	4,952.7	1,225.3	-855.7	0.00	0.00	0.00	0.00	
6,163.2	0.00	0.00	5,900.0	1,357.4	-948.0	2.00	-2.00	0.00	180.00	TARGET BHL 50'FI
8,211.2	0.00	0.00	7,948.0	1,357.4	-948.0	0.00	0.00	0.00	0.00	

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Walters 28-18
<b>Company:</b>	Anadarko, Weld County CO	<b>TVD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Project:</b>	SEC.18-T2N-R65W	<b>MD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Site:</b>	Walters 17-18 Pad Sec.18-T2N-R65W	<b>North Reference:</b>	True
<b>Well:</b>	Walters 28-18	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (4-01-11)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
40.0	0.00	0.00	40.0	0.0	0.0	0.0	0.00	0.00	0.00
80.0	0.00	0.00	80.0	0.0	0.0	0.0	0.00	0.00	0.00
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	0.00
160.0	0.00	0.00	160.0	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
240.0	0.80	325.07	240.0	0.2	-0.2	0.3	2.00	2.00	0.00
280.0	1.60	325.07	280.0	0.9	-0.6	1.1	2.00	2.00	0.00
320.0	2.40	325.07	320.0	2.1	-1.4	2.5	2.00	2.00	0.00
360.0	3.20	325.07	359.9	3.7	-2.6	4.5	2.00	2.00	0.00
400.0	4.00	325.07	399.8	5.7	-4.0	7.0	2.00	2.00	0.00
440.0	4.80	325.07	439.7	8.2	-5.8	10.0	2.00	2.00	0.00
480.0	5.60	325.07	479.6	11.2	-7.8	13.7	2.00	2.00	0.00
520.0	6.40	325.07	519.3	14.6	-10.2	17.9	2.00	2.00	0.00
560.0	7.20	325.07	559.1	18.5	-12.9	22.6	2.00	2.00	0.00
600.0	8.00	325.07	598.7	22.9	-16.0	27.9	2.00	2.00	0.00
640.0	8.80	325.07	638.3	27.6	-19.3	33.7	2.00	2.00	0.00
680.0	9.60	325.07	677.8	32.9	-23.0	40.1	2.00	2.00	0.00
720.0	10.40	325.07	717.1	38.6	-26.9	47.1	2.00	2.00	0.00
760.0	11.20	325.07	756.4	44.7	-31.2	54.6	2.00	2.00	0.00
800.0	12.00	325.07	795.6	51.3	-35.8	62.6	2.00	2.00	0.00
840.0	12.80	325.07	834.7	58.4	-40.8	71.2	2.00	2.00	0.00
880.0	13.60	325.07	873.6	65.9	-46.0	80.3	2.00	2.00	0.00
907.2	14.14	325.07	900.0	71.2	-49.7	86.8	2.00	2.00	0.00
<b>8 5/8"</b>									
920.0	14.40	325.07	912.4	73.8	-51.5	90.0	2.00	2.00	0.00
960.0	15.20	325.07	951.1	82.2	-57.4	100.2	2.00	2.00	0.00
1,000.0	16.00	325.07	989.6	91.0	-63.5	111.0	2.00	2.00	0.00
1,040.0	16.80	325.07	1,028.0	100.2	-70.0	122.3	2.00	2.00	0.00
1,080.0	17.60	325.07	1,066.2	109.9	-76.8	134.1	2.00	2.00	0.00
1,120.0	18.40	325.07	1,104.3	120.1	-83.9	146.5	2.00	2.00	0.00
1,160.0	19.20	325.07	1,142.1	130.6	-91.2	159.3	2.00	2.00	0.00
1,165.5	19.31	325.07	1,147.3	132.1	-92.3	161.2	2.00	2.00	0.00
1,200.0	19.31	325.07	1,179.9	141.5	-98.8	172.6	0.00	0.00	0.00
1,240.0	19.31	325.07	1,217.6	152.3	-106.4	185.8	0.00	0.00	0.00
1,280.0	19.31	325.07	1,255.4	163.2	-114.0	199.0	0.00	0.00	0.00
1,320.0	19.31	325.07	1,293.1	174.0	-121.5	212.3	0.00	0.00	0.00
1,360.0	19.31	325.07	1,330.9	184.9	-129.1	225.5	0.00	0.00	0.00
1,400.0	19.31	325.07	1,368.6	195.7	-136.7	238.7	0.00	0.00	0.00
1,440.0	19.31	325.07	1,406.4	206.5	-144.3	251.9	0.00	0.00	0.00
1,480.0	19.31	325.07	1,444.1	217.4	-151.8	265.2	0.00	0.00	0.00
1,520.0	19.31	325.07	1,481.9	228.2	-159.4	278.4	0.00	0.00	0.00
1,560.0	19.31	325.07	1,519.6	239.1	-167.0	291.6	0.00	0.00	0.00
1,600.0	19.31	325.07	1,557.4	249.9	-174.5	304.8	0.00	0.00	0.00
1,640.0	19.31	325.07	1,595.1	260.8	-182.1	318.1	0.00	0.00	0.00
1,680.0	19.31	325.07	1,632.9	271.6	-189.7	331.3	0.00	0.00	0.00
1,720.0	19.31	325.07	1,670.6	282.5	-197.3	344.5	0.00	0.00	0.00
1,760.0	19.31	325.07	1,708.4	293.3	-204.8	357.7	0.00	0.00	0.00
1,800.0	19.31	325.07	1,746.1	304.1	-212.4	371.0	0.00	0.00	0.00
1,840.0	19.31	325.07	1,783.9	315.0	-220.0	384.2	0.00	0.00	0.00
1,880.0	19.31	325.07	1,821.6	325.8	-227.6	397.4	0.00	0.00	0.00
1,920.0	19.31	325.07	1,859.4	336.7	-235.1	410.7	0.00	0.00	0.00
1,960.0	19.31	325.07	1,897.1	347.5	-242.7	423.9	0.00	0.00	0.00
2,000.0	19.31	325.07	1,934.9	358.4	-250.3	437.1	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Walters 28-18
<b>Company:</b>	Anadarko, Weld County CO	<b>TVD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Project:</b>	SEC.18-T2N-R65W	<b>MD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Site:</b>	Walters 17-18 Pad Sec.18-T2N-R65W	<b>North Reference:</b>	True
<b>Well:</b>	Walters 28-18	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (4-01-11)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
2,040.0	19.31	325.07	1,972.6	369.2	-257.9	450.3	0.00	0.00	0.00
2,080.0	19.31	325.07	2,010.4	380.1	-265.4	463.6	0.00	0.00	0.00
2,120.0	19.31	325.07	2,048.1	390.9	-273.0	476.8	0.00	0.00	0.00
2,160.0	19.31	325.07	2,085.9	401.7	-280.6	490.0	0.00	0.00	0.00
2,200.0	19.31	325.07	2,123.6	412.6	-288.2	503.2	0.00	0.00	0.00
2,240.0	19.31	325.07	2,161.4	423.4	-295.7	516.5	0.00	0.00	0.00
2,280.0	19.31	325.07	2,199.1	434.3	-303.3	529.7	0.00	0.00	0.00
2,320.0	19.31	325.07	2,236.9	445.1	-310.9	542.9	0.00	0.00	0.00
2,360.0	19.31	325.07	2,274.6	456.0	-318.4	556.2	0.00	0.00	0.00
2,400.0	19.31	325.07	2,312.4	466.8	-326.0	569.4	0.00	0.00	0.00
2,440.0	19.31	325.07	2,350.1	477.6	-333.6	582.6	0.00	0.00	0.00
2,480.0	19.31	325.07	2,387.9	488.5	-341.2	595.8	0.00	0.00	0.00
2,520.0	19.31	325.07	2,425.6	499.3	-348.7	609.1	0.00	0.00	0.00
2,560.0	19.31	325.07	2,463.4	510.2	-356.3	622.3	0.00	0.00	0.00
2,600.0	19.31	325.07	2,501.1	521.0	-363.9	635.5	0.00	0.00	0.00
2,640.0	19.31	325.07	2,538.9	531.9	-371.5	648.7	0.00	0.00	0.00
2,680.0	19.31	325.07	2,576.6	542.7	-379.0	662.0	0.00	0.00	0.00
2,720.0	19.31	325.07	2,614.4	553.6	-386.6	675.2	0.00	0.00	0.00
2,760.0	19.31	325.07	2,652.1	564.4	-394.2	688.4	0.00	0.00	0.00
2,800.0	19.31	325.07	2,689.9	575.2	-401.8	701.7	0.00	0.00	0.00
2,840.0	19.31	325.07	2,727.6	586.1	-409.3	714.9	0.00	0.00	0.00
2,880.0	19.31	325.07	2,765.4	596.9	-416.9	728.1	0.00	0.00	0.00
2,920.0	19.31	325.07	2,803.1	607.8	-424.5	741.3	0.00	0.00	0.00
2,960.0	19.31	325.07	2,840.9	618.6	-432.0	754.6	0.00	0.00	0.00
3,000.0	19.31	325.07	2,878.6	629.5	-439.6	767.8	0.00	0.00	0.00
3,040.0	19.31	325.07	2,916.4	640.3	-447.2	781.0	0.00	0.00	0.00
3,080.0	19.31	325.07	2,954.1	651.2	-454.8	794.2	0.00	0.00	0.00
3,120.0	19.31	325.07	2,991.9	662.0	-462.3	807.5	0.00	0.00	0.00
3,160.0	19.31	325.07	3,029.6	672.8	-469.9	820.7	0.00	0.00	0.00
3,200.0	19.31	325.07	3,067.4	683.7	-477.5	833.9	0.00	0.00	0.00
3,240.0	19.31	325.07	3,105.1	694.5	-485.1	847.1	0.00	0.00	0.00
3,280.0	19.31	325.07	3,142.9	705.4	-492.6	860.4	0.00	0.00	0.00
3,320.0	19.31	325.07	3,180.6	716.2	-500.2	873.6	0.00	0.00	0.00
3,360.0	19.31	325.07	3,218.4	727.1	-507.8	886.8	0.00	0.00	0.00
3,400.0	19.31	325.07	3,256.1	737.9	-515.4	900.1	0.00	0.00	0.00
3,440.0	19.31	325.07	3,293.9	748.8	-522.9	913.3	0.00	0.00	0.00
3,480.0	19.31	325.07	3,331.6	759.6	-530.5	926.5	0.00	0.00	0.00
3,520.0	19.31	325.07	3,369.4	770.4	-538.1	939.7	0.00	0.00	0.00
3,520.7	19.31	325.07	3,370.0	770.6	-538.2	940.0	0.00	0.00	0.00
<b>3372' MD - 118' Radius</b>									
3,560.0	19.31	325.07	3,407.1	781.3	-545.7	953.0	0.00	0.00	0.00
3,600.0	19.31	325.07	3,444.9	792.1	-553.2	966.2	0.00	0.00	0.00
3,640.0	19.31	325.07	3,482.6	803.0	-560.8	979.4	0.00	0.00	0.00
3,680.0	19.31	325.07	3,520.4	813.8	-568.4	992.6	0.00	0.00	0.00
3,720.0	19.31	325.07	3,558.1	824.7	-575.9	1,005.9	0.00	0.00	0.00
3,760.0	19.31	325.07	3,595.9	835.5	-583.5	1,019.1	0.00	0.00	0.00
3,800.0	19.31	325.07	3,633.6	846.3	-591.1	1,032.3	0.00	0.00	0.00
3,840.0	19.31	325.07	3,671.4	857.2	-598.7	1,045.6	0.00	0.00	0.00
3,880.0	19.31	325.07	3,709.1	868.0	-606.2	1,058.8	0.00	0.00	0.00
3,920.0	19.31	325.07	3,746.9	878.9	-613.8	1,072.0	0.00	0.00	0.00
3,960.0	19.31	325.07	3,784.6	889.7	-621.4	1,085.2	0.00	0.00	0.00
4,000.0	19.31	325.07	3,822.4	900.6	-629.0	1,098.5	0.00	0.00	0.00
4,040.0	19.31	325.07	3,860.1	911.4	-636.5	1,111.7	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Walters 28-18
<b>Company:</b>	Anadarko, Weld County CO	<b>TVD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Project:</b>	SEC.18-T2N-R65W	<b>MD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Site:</b>	Walters 17-18 Pad Sec.18-T2N-R65W	<b>North Reference:</b>	True
<b>Well:</b>	Walters 28-18	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (4-01-11)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,080.0	19.31	325.07	3,897.9	922.3	-644.1	1,124.9	0.00	0.00	0.00
4,120.0	19.31	325.07	3,935.6	933.1	-651.7	1,138.1	0.00	0.00	0.00
4,160.0	19.31	325.07	3,973.4	943.9	-659.3	1,151.4	0.00	0.00	0.00
4,200.0	19.31	325.07	4,011.1	954.8	-666.8	1,164.6	0.00	0.00	0.00
4,240.0	19.31	325.07	4,048.9	965.6	-674.4	1,177.8	0.00	0.00	0.00
4,255.0	19.31	325.07	4,063.0	969.7	-677.2	1,182.8	0.00	0.00	0.00
<b>PARKMAN</b>									
4,280.0	19.31	325.07	4,086.6	976.5	-682.0	1,191.1	0.00	0.00	0.00
4,320.0	19.31	325.07	4,124.4	987.3	-689.6	1,204.3	0.00	0.00	0.00
4,360.0	19.31	325.07	4,162.1	998.2	-697.1	1,217.5	0.00	0.00	0.00
4,400.0	19.31	325.07	4,199.9	1,009.0	-704.7	1,230.7	0.00	0.00	0.00
4,440.0	19.31	325.07	4,237.6	1,019.9	-712.3	1,244.0	0.00	0.00	0.00
4,480.0	19.31	325.07	4,275.4	1,030.7	-719.8	1,257.2	0.00	0.00	0.00
4,520.0	19.31	325.07	4,313.1	1,041.5	-727.4	1,270.4	0.00	0.00	0.00
4,560.0	19.31	325.07	4,350.9	1,052.4	-735.0	1,283.6	0.00	0.00	0.00
4,600.0	19.31	325.07	4,388.6	1,063.2	-742.6	1,296.9	0.00	0.00	0.00
4,640.0	19.31	325.07	4,426.4	1,074.1	-750.1	1,310.1	0.00	0.00	0.00
4,680.0	19.31	325.07	4,464.1	1,084.9	-757.7	1,323.3	0.00	0.00	0.00
4,720.0	19.31	325.07	4,501.9	1,095.8	-765.3	1,336.5	0.00	0.00	0.00
4,760.0	19.31	325.07	4,539.6	1,106.6	-772.9	1,349.8	0.00	0.00	0.00
4,800.0	19.31	325.07	4,577.4	1,117.5	-780.4	1,363.0	0.00	0.00	0.00
4,816.6	19.31	325.07	4,593.0	1,121.9	-783.6	1,368.5	0.00	0.00	0.00
<b>SUSSEX</b>									
4,840.0	19.31	325.07	4,615.1	1,128.3	-788.0	1,376.2	0.00	0.00	0.00
4,880.0	19.31	325.07	4,652.9	1,139.1	-795.6	1,389.5	0.00	0.00	0.00
4,920.0	19.31	325.07	4,690.6	1,150.0	-803.2	1,402.7	0.00	0.00	0.00
4,960.0	19.31	325.07	4,728.4	1,160.8	-810.7	1,415.9	0.00	0.00	0.00
5,000.0	19.31	325.07	4,766.1	1,171.7	-818.3	1,429.1	0.00	0.00	0.00
5,040.0	19.31	325.07	4,803.9	1,182.5	-825.9	1,442.4	0.00	0.00	0.00
5,080.0	19.31	325.07	4,841.6	1,193.4	-833.4	1,455.6	0.00	0.00	0.00
5,120.0	19.31	325.07	4,879.4	1,204.2	-841.0	1,468.8	0.00	0.00	0.00
5,160.0	19.31	325.07	4,917.1	1,215.0	-848.6	1,482.0	0.00	0.00	0.00
5,197.7	19.31	325.07	4,952.7	1,225.3	-855.7	1,494.5	0.00	0.00	0.00
5,200.0	19.26	325.07	4,954.9	1,225.9	-856.2	1,495.3	2.00	-2.00	0.00
5,240.0	18.46	325.07	4,992.7	1,236.5	-863.6	1,508.2	2.00	-2.00	0.00
5,280.0	17.66	325.07	5,030.7	1,246.7	-870.7	1,520.6	2.00	-2.00	0.00
5,320.0	16.86	325.07	5,068.9	1,256.4	-877.5	1,532.5	2.00	-2.00	0.00
5,360.0	16.06	325.07	5,107.3	1,265.7	-884.0	1,543.8	2.00	-2.00	0.00
5,400.0	15.26	325.07	5,145.8	1,274.5	-890.1	1,554.6	2.00	-2.00	0.00
5,440.0	14.46	325.07	5,184.5	1,283.0	-896.0	1,564.9	2.00	-2.00	0.00
5,480.0	13.66	325.07	5,223.3	1,290.9	-901.6	1,574.6	2.00	-2.00	0.00
5,520.0	12.86	325.07	5,262.2	1,298.4	-906.8	1,583.8	2.00	-2.00	0.00
5,560.0	12.06	325.07	5,301.3	1,305.5	-911.8	1,592.4	2.00	-2.00	0.00
5,600.0	11.26	325.07	5,340.4	1,312.2	-916.4	1,600.5	2.00	-2.00	0.00
5,640.0	10.46	325.07	5,379.7	1,318.3	-920.7	1,608.0	2.00	-2.00	0.00
5,680.0	9.66	325.07	5,419.1	1,324.1	-924.7	1,615.0	2.00	-2.00	0.00
5,720.0	8.86	325.07	5,458.6	1,329.3	-928.4	1,621.5	2.00	-2.00	0.00
5,760.0	8.06	325.07	5,498.1	1,334.2	-931.8	1,627.3	2.00	-2.00	0.00
5,800.0	7.26	325.07	5,537.8	1,338.5	-934.8	1,632.7	2.00	-2.00	0.00
5,840.0	6.46	325.07	5,577.5	1,342.5	-937.6	1,637.5	2.00	-2.00	0.00
5,880.0	5.66	325.07	5,617.3	1,345.9	-940.0	1,641.7	2.00	-2.00	0.00
5,920.0	4.86	325.07	5,657.1	1,348.9	-942.1	1,645.4	2.00	-2.00	0.00
5,960.0	4.06	325.07	5,697.0	1,351.5	-943.9	1,648.5	2.00	-2.00	0.00
6,000.0	3.26	325.07	5,736.9	1,353.6	-945.4	1,651.0	2.00	-2.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Walters 28-18
<b>Company:</b>	Anadarko, Weld County CO	<b>TVD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Project:</b>	SEC.18-T2N-R65W	<b>MD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Site:</b>	Walters 17-18 Pad Sec.18-T2N-R65W	<b>North Reference:</b>	True
<b>Well:</b>	Walters 28-18	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (4-01-11)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,040.0	2.46	325.07	5,776.9	1,355.2	-946.5	1,653.0	2.00	-2.00	0.00
6,080.0	1.66	325.07	5,816.8	1,356.4	-947.3	1,654.5	2.00	-2.00	0.00
6,120.0	0.86	325.07	5,856.8	1,357.1	-947.8	1,655.3	2.00	-2.00	0.00
6,160.0	0.06	325.07	5,896.8	1,357.4	-948.0	1,655.7	2.00	-2.00	0.00
6,163.2	0.00	0.00	5,900.0	1,357.4	-948.0	1,655.7	2.00	-2.00	0.00
TARGET BHL 50'FNL, 2440'FEL									
6,200.0	0.00	0.00	5,936.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
6,240.0	0.00	0.00	5,976.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
6,280.0	0.00	0.00	6,016.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
6,320.0	0.00	0.00	6,056.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
6,360.0	0.00	0.00	6,096.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
6,400.0	0.00	0.00	6,136.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
6,440.0	0.00	0.00	6,176.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
6,480.0	0.00	0.00	6,216.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
6,520.0	0.00	0.00	6,256.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
6,560.0	0.00	0.00	6,296.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
6,600.0	0.00	0.00	6,336.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
6,640.0	0.00	0.00	6,376.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
6,680.0	0.00	0.00	6,416.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
6,720.0	0.00	0.00	6,456.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
6,760.0	0.00	0.00	6,496.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
6,800.0	0.00	0.00	6,536.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
6,840.0	0.00	0.00	6,576.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
6,880.0	0.00	0.00	6,616.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
6,920.0	0.00	0.00	6,656.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
6,960.0	0.00	0.00	6,696.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,736.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
7,040.0	0.00	0.00	6,776.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
7,080.0	0.00	0.00	6,816.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
7,120.0	0.00	0.00	6,856.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
7,160.0	0.00	0.00	6,896.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
7,200.0	0.00	0.00	6,936.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
7,240.0	0.00	0.00	6,976.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
7,280.0	0.00	0.00	7,016.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
7,320.0	0.00	0.00	7,056.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
7,336.2	0.00	0.00	7,073.0	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
NIOBRARA - TARGET CIRCLE 50'FNL & 2440'FEL									
7,360.0	0.00	0.00	7,096.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,136.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
7,440.0	0.00	0.00	7,176.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
7,480.0	0.00	0.00	7,216.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
7,520.0	0.00	0.00	7,256.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
7,560.0	0.00	0.00	7,296.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,336.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
7,606.2	0.00	0.00	7,343.0	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
CODELL									
7,640.0	0.00	0.00	7,376.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
7,680.0	0.00	0.00	7,416.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
7,699.2	0.00	0.00	7,436.0	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
GREENHORN									
7,720.0	0.00	0.00	7,456.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
7,760.0	0.00	0.00	7,496.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,536.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Walters 28-18
<b>Company:</b>	Anadarko, Weld County CO	<b>TVD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Project:</b>	SEC.18-T2N-R65W	<b>MD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Site:</b>	Walters 17-18 Pad Sec.18-T2N-R65W	<b>North Reference:</b>	True
<b>Well:</b>	Walters 28-18	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (4-01-11)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
7,840.0	0.00	0.00	7,576.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
7,880.0	0.00	0.00	7,616.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
7,920.0	0.00	0.00	7,656.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
7,960.0	0.00	0.00	7,696.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,736.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
8,040.0	0.00	0.00	7,776.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
8,061.2	0.00	0.00	7,798.0	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
J-SAND									
8,080.0	0.00	0.00	7,816.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
8,120.0	0.00	0.00	7,856.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
8,160.0	0.00	0.00	7,896.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
8,200.0	0.00	0.00	7,936.8	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
8,211.2	0.00	0.00	7,948.0	1,357.4	-948.0	1,655.7	0.00	0.00	0.00
HARD LINES 50'N OF BHL									

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
TARGET BHL 50'FNL	0.00	0.00	5,900.0	1,357.4	-948.0	1,296,951.05	3,221,963.43	40.145797	-104.706000
- plan hits target center									
- Point									
TARGET CIRCLE 50'	0.00	0.00	7,073.0	1,357.4	-948.0	1,296,951.05	3,221,963.43	40.145797	-104.706000
- plan hits target center									
- Circle (radius 50.0)									
HARD LINES 50'N OF	0.00	0.00	7,948.0	1,407.4	-1,048.0	1,297,000.15	3,221,863.00	40.145934	-104.706358
- plan misses target center by 111.8ft at 8211.2ft MD (7948.0 TVD, 1357.4 N, -948.0 E)									
- Polygon									
Point 1			7,948.0	0.0	0.0	1,297,000.15	3,221,863.00		
Point 2			7,948.0	0.0	200.0	1,297,001.95	3,222,062.98		
3372' MD - 118' Radius	0.00	0.00	3,370.0	939.5	-296.6	1,296,539.06	3,222,618.52	40.144650	-104.703670
- plan misses target center by 294.8ft at 3520.7ft MD (3370.0 TVD, 770.6 N, -538.2 E)									
- Circle (radius 118.0)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name		Casing Diameter (")	Hole Diameter (")
907.2	900.0	8 5/8"		8-5/8	12-1/4

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Walters 28-18
<b>Company:</b>	Anadarko, Weld County CO	<b>TVD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Project:</b>	SEC.18-T2N-R65W	<b>MD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Site:</b>	Walters 17-18 Pad Sec.18-T2N-R65W	<b>North Reference:</b>	True
<b>Well:</b>	Walters 28-18	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (4-01-11)		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,255.0	4,063.0	PARKMAN		0.00		
4,816.6	4,593.0	SUSSEX		0.00		
7,336.2	7,073.0	NIOBRARA		0.00		
7,606.2	7,343.0	CODELL		0.00		
7,699.2	7,436.0	GREENHORN		0.00		
8,061.2	7,798.0	J-SAND		0.00		



## **Directional**

### **Anadarko, Weld County CO**

**SEC.18-T2N-R65W**

**Walters 17-18 Pad Sec.18-T2N-R65W**

**Walters 28-18**

**Wellbore #1**

**Plan #1 (4-01-11)**

### **Anticollision Report**

**08 April, 2011**



<b>Company:</b>	Anadarko, Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Walters 28-18
<b>Project:</b>	SEC.18-T2N-R65W	<b>TVD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Reference Site:</b>	Walters 17-18 Pad Sec.18-T2N-R65W	<b>MD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Walters 28-18	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (4-01-11)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan #1 (4-01-11)		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	Stations	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 10,000.0ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma		

<b>Survey Tool Program</b>	<b>Date</b> 4/6/2011			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	8,211.2	Plan #1 (4-01-11) (Wellbore #1)	MWD	MWD - Standard

<b>Summary</b>						
<b>Site Name</b>	<b>Reference Measured Depth (ft)</b>	<b>Offset Measured Depth (ft)</b>	<b>Distance Between Centres (ft)</b>	<b>Distance Between Ellipses (ft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Offset Well - Wellbore - Design</b>						
Walters 17-18 Pad Sec.18-T2N-R65W						
Seaton #2-18 (Exist.) - Wellbore #1 - Design #1	3,521.1	3,372.4	294.8	267.6	10.852	CC, ES
Seaton #2-18 (Exist.) - Wellbore #1 - Design #1	3,700.0	3,541.2	300.6	272.2	10.575	SF
Walters 21-18 - Wellbore #1 - Plan #1 (4-01-11)	200.0	200.0	10.2	9.5	15.133	CC, ES
Walters 21-18 - Wellbore #1 - Plan #1 (4-01-11)	400.0	400.0	15.9	14.4	10.099	SF

<b>Offset Design</b> Walters 17-18 Pad Sec.18-T2N-R65W - Seaton #2-18 (Exist.) - Wellbore #1 - Design #1													<b>Offset Site Error:</b>	0.0 ft
<b>Survey Program:</b> 0-MWD													<b>Offset Well Error:</b>	0.0 ft
<b>Reference</b>	<b>Offset</b>	<b>Semi Major Axis</b>			<b>Distance</b>									
<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Reference (ft)</b>	<b>Offset (ft)</b>	<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre +N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Between Centres (ft)</b>	<b>Between Ellipses (ft)</b>	<b>Minimum Separation (ft)</b>	<b>Separation Factor</b>	<b>Warning</b>	
0.0	0.0	2.0	2.0	0.0	0.0	-17.52	939.5	-296.6	985.2					
100.0	100.0	102.0	102.0	0.1	0.1	-17.52	939.5	-296.6	985.2	985.0	0.23	4,297.410		
200.0	200.0	202.0	202.0	0.3	0.3	-17.52	939.5	-296.6	985.2	984.6	0.68	1,451.443		
300.0	300.0	302.0	302.0	0.6	0.6	17.45	939.5	-296.6	983.6	982.4	1.13	867.489		
400.0	399.8	401.8	401.8	0.8	0.8	17.57	939.5	-296.6	978.6	977.0	1.59	614.056		
500.0	499.5	501.5	501.5	1.0	1.0	17.78	939.5	-296.6	970.3	968.2	2.06	471.784		
600.0	598.7	600.7	600.7	1.3	1.2	18.07	939.5	-296.6	958.7	956.1	2.52	379.811		
700.0	697.5	699.5	699.5	1.7	1.5	18.46	939.5	-296.6	943.8	940.8	3.00	314.804		
800.0	795.6	797.6	797.6	2.0	1.7	18.95	939.5	-296.6	925.7	922.2	3.48	265.925		
900.0	893.1	895.1	895.1	2.5	1.9	19.56	939.5	-296.6	904.4	900.4	3.98	227.463		
1,000.0	989.6	991.6	991.6	3.0	2.1	20.30	939.5	-296.6	880.0	875.5	4.49	196.127		
1,100.0	1,085.3	1,087.3	1,087.3	3.5	2.3	21.18	939.5	-296.6	852.5	847.5	5.02	169.889		
1,165.5	1,147.3	1,149.3	1,149.3	3.9	2.5	21.85	939.5	-296.6	832.8	827.5	5.38	154.820		
1,200.0	1,179.9	1,181.9	1,181.9	4.1	2.5	22.14	939.5	-296.6	822.2	816.6	5.58	147.400		
1,300.0	1,274.3	1,276.3	1,276.3	4.8	2.8	23.04	939.5	-296.6	791.4	785.2	6.17	128.340		
1,400.0	1,368.6	1,370.6	1,370.6	5.4	3.0	24.00	939.5	-296.6	760.8	754.0	6.77	112.301		
1,500.0	1,463.0	1,465.0	1,465.0	6.1	3.2	25.05	939.5	-296.6	730.4	723.0	7.40	98.667		
1,600.0	1,557.4	1,559.4	1,559.4	6.8	3.4	26.18	939.5	-296.6	700.3	692.3	8.05	86.967		
1,700.0	1,651.8	1,653.8	1,653.8	7.4	3.6	27.41	939.5	-296.6	670.5	661.7	8.73	76.842		
1,800.0	1,746.1	1,748.1	1,748.1	8.1	3.8	28.76	939.5	-296.6	640.9	631.5	9.42	68.017		
1,900.0	1,840.5	1,842.5	1,842.5	8.8	4.0	30.23	939.5	-296.6	611.8	601.6	10.15	60.275		
2,000.0	1,934.9	1,936.9	1,936.9	9.4	4.2	31.84	939.5	-296.6	583.0	572.1	10.91	53.450		
2,100.0	2,029.3	2,031.3	2,031.3	10.1	4.5	33.61	939.5	-296.6	554.7	543.0	11.70	47.406		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	Anadarko, Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Walters 28-18
<b>Project:</b>	SEC.18-T2N-R65W	<b>TVD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Reference Site:</b>	Walters 17-18 Pad Sec.18-T2N-R65W	<b>MD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Walters 28-18	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (4-01-11)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Walters 17-18 Pad Sec.18-T2N-R65W - Seaton #2-18 (Exist.) - Wellbore #1 - Design #1												Offset Site Error:	0.0ft
Survey Program: 0-MWD												Offset Well Error:	0.0ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
2,200.0	2,123.6	2,125.6	2,125.6	10.8	4.7	35.56	939.5	-296.6	527.0	514.5	12.54	42.039	
2,300.0	2,218.0	2,220.0	2,220.0	11.4	4.9	37.72	939.5	-296.6	499.9	486.5	13.42	37.265	
2,400.0	2,312.4	2,314.4	2,314.4	12.1	5.1	40.11	939.5	-296.6	473.6	459.3	14.35	33.015	
2,500.0	2,406.8	2,408.8	2,408.8	12.8	5.3	42.77	939.5	-296.6	448.2	432.9	15.33	29.236	
2,600.0	2,501.1	2,503.1	2,503.1	13.5	5.5	45.72	939.5	-296.6	423.9	407.5	16.38	25.884	
2,700.0	2,595.5	2,597.5	2,597.5	14.1	5.7	49.00	939.5	-296.6	400.8	383.3	17.48	22.926	
2,800.0	2,689.9	2,691.9	2,691.9	14.8	5.9	52.64	939.5	-296.6	379.1	360.5	18.65	20.334	
2,900.0	2,784.3	2,786.3	2,786.3	15.5	6.2	56.67	939.5	-296.6	359.3	339.4	19.86	18.085	
3,000.0	2,878.6	2,880.6	2,880.6	16.2	6.4	61.11	939.5	-296.6	341.4	320.3	21.12	16.163	
3,100.0	2,973.0	2,975.0	2,975.0	16.8	6.6	65.97	939.5	-296.6	326.0	303.6	22.40	14.552	
3,200.0	3,067.4	3,069.4	3,069.4	17.5	6.8	71.22	939.5	-296.6	313.3	289.6	23.67	13.238	
3,300.0	3,161.7	3,163.7	3,163.7	18.2	7.0	76.83	939.5	-296.6	303.7	278.8	24.88	12.207	
3,400.0	3,256.1	3,258.1	3,258.1	18.9	7.2	82.69	939.5	-296.6	297.5	271.5	26.00	11.443	
3,500.0	3,350.5	3,352.5	3,352.5	19.6	7.4	88.72	939.5	-296.6	294.8	267.9	26.98	10.930	
3,521.1	3,370.4	3,372.4	3,372.4	19.7	7.5	90.00	939.5	-296.6	294.8	267.6	27.16	10.852 CC, ES	
3,600.0	3,444.9	3,446.9	3,446.9	20.2	7.6	94.77	939.5	-296.6	295.9	268.1	27.79	10.648	
3,700.0	3,539.2	3,541.2	3,541.2	20.9	7.8	100.72	939.5	-296.6	300.6	272.2	28.43	10.575 SF	
3,800.0	3,633.6	3,635.6	3,635.6	21.6	8.1	106.45	939.5	-296.6	308.9	280.0	28.90	10.687	
3,900.0	3,728.0	3,730.0	3,730.0	22.3	8.3	111.86	939.5	-296.6	320.3	291.1	29.22	10.961	
4,000.0	3,822.4	3,824.4	3,824.4	22.9	8.5	116.89	939.5	-296.6	334.6	305.2	29.43	11.370	
4,100.0	3,916.7	3,918.7	3,918.7	23.6	8.7	121.50	939.5	-296.6	351.5	321.9	29.56	11.892	
4,200.0	4,011.1	4,013.1	4,013.1	24.3	8.9	125.71	939.5	-296.6	370.5	340.9	29.63	12.505	
4,300.0	4,105.5	4,107.5	4,107.5	25.0	9.1	129.51	939.5	-296.6	391.4	361.8	29.68	13.188	
4,400.0	4,199.9	4,201.9	4,201.9	25.7	9.3	132.94	939.5	-296.6	413.9	384.2	29.73	13.924	
4,500.0	4,294.2	4,296.2	4,296.2	26.3	9.5	136.02	939.5	-296.6	437.8	408.0	29.79	14.698	
4,600.0	4,388.6	4,390.6	4,390.6	27.0	9.8	138.80	939.5	-296.6	462.8	432.9	29.86	15.498	
4,700.0	4,483.0	4,485.0	4,485.0	27.7	10.0	141.30	939.5	-296.6	488.7	458.8	29.96	16.313	
4,800.0	4,577.4	4,579.4	4,579.4	28.4	10.2	143.55	939.5	-296.6	515.5	485.4	30.09	17.134	
4,900.0	4,671.7	4,673.7	4,673.7	29.0	10.4	145.59	939.5	-296.6	542.9	512.7	30.24	17.955	
5,000.0	4,766.1	4,768.1	4,768.1	29.7	10.6	147.43	939.5	-296.6	571.0	540.6	30.42	18.770	
5,100.0	4,860.5	4,862.5	4,862.5	30.4	10.8	149.11	939.5	-296.6	599.6	568.9	30.63	19.576	
5,197.7	4,952.7	4,954.7	4,954.7	31.1	11.0	150.60	939.5	-296.6	627.9	597.0	30.86	20.350	
5,200.0	4,954.9	4,956.9	4,956.9	31.1	11.0	150.64	939.5	-296.6	628.6	597.7	30.86	20.368	
5,300.0	5,049.8	5,051.8	5,051.8	31.6	11.2	152.24	939.5	-296.6	656.4	625.3	31.07	21.127	
5,400.0	5,145.8	5,147.8	5,147.8	32.0	11.5	153.56	939.5	-296.6	681.5	650.2	31.31	21.765	
5,500.0	5,242.7	5,244.7	5,244.7	32.5	11.7	154.65	939.5	-296.6	703.8	672.3	31.58	22.288	
5,600.0	5,340.4	5,342.4	5,342.4	32.8	11.9	155.53	939.5	-296.6	723.2	691.3	31.86	22.702	
5,700.0	5,438.8	5,440.8	5,440.8	33.1	12.1	156.23	939.5	-296.6	739.5	707.4	32.13	23.013	
5,800.0	5,537.8	5,539.8	5,539.8	33.4	12.3	156.78	939.5	-296.6	752.7	720.3	32.41	23.225	
5,900.0	5,637.2	5,639.2	5,639.2	33.6	12.6	157.18	939.5	-296.6	762.7	730.1	32.68	23.343	
6,000.0	5,736.9	5,738.9	5,738.9	33.8	12.8	157.45	939.5	-296.6	769.6	736.7	32.93	23.370	
6,100.0	5,836.8	5,838.8	5,838.8	33.9	13.0	157.59	939.5	-296.6	773.3	740.1	33.17	23.311	
6,163.2	5,900.0	5,902.0	5,902.0	34.0	13.2	122.68	939.5	-296.6	773.9	740.6	33.32	23.228	
6,200.0	5,936.8	5,938.8	5,938.8	34.0	13.2	122.68	939.5	-296.6	773.9	740.5	33.45	23.139	
6,300.0	6,036.8	6,038.8	6,038.8	34.1	13.5	122.68	939.5	-296.6	773.9	740.1	33.80	22.896	
6,400.0	6,136.8	6,138.8	6,138.8	34.2	13.7	122.68	939.5	-296.6	773.9	739.7	34.16	22.656	
6,500.0	6,236.8	6,238.8	6,238.8	34.3	13.9	122.68	939.5	-296.6	773.9	739.4	34.52	22.421	
6,600.0	6,336.8	6,338.8	6,338.8	34.3	14.1	122.68	939.5	-296.6	773.9	739.0	34.88	22.189	
6,700.0	6,436.8	6,438.8	6,438.8	34.4	14.4	122.68	939.5	-296.6	773.9	738.7	35.24	21.962	
6,800.0	6,536.8	6,538.8	6,538.8	34.5	14.6	122.68	939.5	-296.6	773.9	738.3	35.60	21.738	
6,900.0	6,636.8	6,638.8	6,638.8	34.6	14.8	122.68	939.5	-296.6	773.9	737.9	35.97	21.517	
7,000.0	6,736.8	6,738.8	6,738.8	34.7	15.0	122.68	939.5	-296.6	773.9	737.6	36.33	21.300	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	Anadarko, Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Walters 28-18
<b>Project:</b>	SEC.18-T2N-R65W	<b>TVD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Reference Site:</b>	Walters 17-18 Pad Sec.18-T2N-R65W	<b>MD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Walters 28-18	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (4-01-11)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> Walters 17-18 Pad Sec.18-T2N-R65W - Seaton #2-18 (Exist.) - Wellbore #1 - Design #1												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-MWD												<b>Offset Well Error:</b>	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
7,100.0	6,836.8	6,838.8	6,838.8	34.8	15.3	122.68	939.5	-296.6	773.9	737.2	36.70	21.087	
7,200.0	6,936.8	6,938.8	6,938.8	34.9	15.5	122.68	939.5	-296.6	773.9	736.8	37.07	20.877	
7,300.0	7,036.8	7,038.8	7,038.8	35.0	15.7	122.68	939.5	-296.6	773.9	736.5	37.44	20.670	
7,400.0	7,136.8	7,138.8	7,138.8	35.1	15.9	122.68	939.5	-296.6	773.9	736.1	37.81	20.467	
7,500.0	7,236.8	7,238.8	7,238.8	35.2	16.2	122.68	939.5	-296.6	773.9	735.7	38.18	20.267	
7,600.0	7,336.8	7,338.8	7,338.8	35.3	16.4	122.68	939.5	-296.6	773.9	735.3	38.56	20.071	
7,700.0	7,436.8	7,438.8	7,438.8	35.4	16.6	122.68	939.5	-296.6	773.9	735.0	38.93	19.877	
7,800.0	7,536.8	7,538.8	7,538.8	35.5	16.8	122.68	939.5	-296.6	773.9	734.6	39.31	19.686	
7,900.0	7,636.8	7,638.8	7,638.8	35.6	17.1	122.68	939.5	-296.6	773.9	734.2	39.69	19.499	
8,000.0	7,736.8	7,738.8	7,738.8	35.7	17.3	122.68	939.5	-296.6	773.9	733.8	40.07	19.314	
8,100.0	7,836.8	7,838.8	7,838.8	35.8	17.5	122.68	939.5	-296.6	773.9	733.5	40.45	19.133	
8,200.0	7,936.8	7,938.8	7,938.8	35.9	17.7	122.68	939.5	-296.6	773.9	733.1	40.83	18.954	
8,211.2	7,948.0	7,950.0	7,950.0	35.9	17.8	122.68	939.5	-296.6	773.9	733.0	40.87	18.934	

<b>Company:</b>	Anadarko, Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Walters 28-18
<b>Project:</b>	SEC.18-T2N-R65W	<b>TVD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Reference Site:</b>	Walters 17-18 Pad Sec.18-T2N-R65W	<b>MD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Walters 28-18	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (4-01-11)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Walters 17-18 Pad Sec.18-T2N-R65W - Walters 21-18 - Wellbore #1 - Plan #1 (4-01-11)													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Reference	Offset	Semi Major Axis		Distance		Warning								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	180.00	-10.2	0.0	10.2	10.2	0.00	N/A		
100.0	100.0	100.0	100.0	0.1	0.1	180.00	-10.2	0.0	10.2	10.0	0.22	45.400		
200.0	200.0	200.0	200.0	0.3	0.3	180.00	-10.2	0.0	10.2	9.5	0.67	15.133 CC, ES		
300.0	300.0	300.0	300.0	0.6	0.6	-149.96	-10.2	0.0	11.7	10.5	1.13	10.350		
400.0	399.8	400.0	400.0	0.8	0.8	-153.18	-10.0	-1.7	15.9	14.4	1.58	10.099 SF		
500.0	499.5	499.9	499.7	1.0	1.0	-150.17	-9.6	-6.9	22.5	20.5	2.04	11.070		
600.0	598.7	599.6	599.0	1.3	1.2	-145.54	-8.8	-15.6	31.7	29.1	2.54	12.483		
700.0	697.5	698.9	697.6	1.7	1.5	-141.11	-7.7	-27.6	43.5	40.4	3.10	14.035		
800.0	795.6	797.8	795.3	2.0	1.8	-137.35	-6.3	-43.0	58.1	54.4	3.74	15.542		
900.0	893.1	896.1	891.8	2.5	2.2	-134.27	-4.7	-61.5	75.5	71.1	4.47	16.903		
1,000.0	989.6	993.8	987.2	3.0	2.6	-132.02	-2.8	-82.8	95.7	90.4	5.29	18.097		
1,100.0	1,085.3	1,091.3	1,082.2	3.5	3.1	-131.54	-0.8	-104.4	118.3	112.1	6.16	19.210		
1,165.5	1,147.3	1,154.7	1,144.1	3.9	3.3	-131.85	0.4	-118.4	134.3	127.5	6.74	19.914		
1,200.0	1,179.9	1,188.1	1,176.6	4.1	3.5	-132.21	1.1	-125.8	143.0	135.9	7.06	20.256		
1,300.0	1,274.3	1,284.9	1,271.0	4.8	4.0	-133.05	3.0	-147.2	168.2	160.2	7.98	21.068		
1,400.0	1,368.6	1,381.6	1,365.3	5.4	4.4	-133.68	4.9	-168.6	193.4	184.5	8.92	21.685		
1,500.0	1,463.0	1,478.4	1,459.6	6.1	4.9	-134.16	6.9	-190.0	218.7	208.8	9.86	22.171		
1,600.0	1,557.4	1,575.1	1,554.0	6.8	5.3	-134.54	8.8	-211.4	243.9	233.1	10.81	22.560		
1,700.0	1,651.8	1,671.9	1,648.3	7.4	5.8	-134.85	10.7	-232.7	269.2	257.5	11.77	22.878		
1,800.0	1,746.1	1,768.6	1,742.6	8.1	6.3	-135.10	12.6	-254.1	294.5	281.8	12.73	23.143		
1,900.0	1,840.5	1,865.3	1,836.9	8.8	6.7	-135.32	14.6	-275.5	319.8	306.1	13.69	23.366		
2,000.0	1,934.9	1,962.1	1,931.3	9.4	7.2	-135.50	16.5	-296.9	345.1	330.4	14.65	23.556		
2,100.0	2,029.3	2,058.8	2,025.6	10.1	7.6	-135.66	18.4	-318.3	370.4	354.7	15.61	23.721		
2,200.0	2,123.6	2,155.6	2,119.9	10.8	8.1	-135.80	20.3	-339.7	395.6	379.1	16.58	23.864		
2,300.0	2,218.0	2,252.3	2,214.3	11.4	8.6	-135.92	22.2	-361.1	420.9	403.4	17.55	23.990		
2,400.0	2,312.4	2,349.1	2,308.6	12.1	9.1	-136.03	24.2	-382.5	446.2	427.7	18.52	24.101		
2,500.0	2,406.8	2,445.8	2,402.9	12.8	9.5	-136.12	26.1	-403.9	471.5	452.0	19.48	24.200		
2,600.0	2,501.1	2,542.6	2,497.3	13.5	10.0	-136.21	28.0	-425.3	496.8	476.4	20.45	24.289		
2,700.0	2,595.5	2,639.3	2,591.6	14.1	10.5	-136.29	29.9	-446.7	522.1	500.7	21.43	24.370		
2,800.0	2,689.9	2,736.0	2,685.9	14.8	10.9	-136.36	31.9	-468.1	547.4	525.0	22.40	24.442		
2,900.0	2,784.3	2,832.8	2,780.2	15.5	11.4	-136.42	33.8	-489.5	572.7	549.4	23.37	24.508		
3,000.0	2,878.6	2,929.5	2,874.6	16.2	11.9	-136.48	35.7	-510.9	598.0	573.7	24.34	24.569		
3,100.0	2,973.0	3,026.3	2,968.9	16.8	12.3	-136.54	37.6	-532.3	623.3	598.0	25.31	24.624		
3,200.0	3,067.4	3,123.0	3,063.2	17.5	12.8	-136.59	39.6	-553.7	648.6	622.3	26.29	24.675		
3,300.0	3,161.7	3,219.8	3,157.6	18.2	13.3	-136.63	41.5	-575.0	673.9	646.7	27.26	24.722		
3,400.0	3,256.1	3,316.5	3,251.9	18.9	13.8	-136.68	43.4	-596.4	699.2	671.0	28.23	24.766		
3,500.0	3,350.5	3,413.3	3,346.2	19.6	14.2	-136.72	45.3	-617.8	724.5	695.3	29.21	24.806		
3,600.0	3,444.9	3,510.0	3,440.6	20.2	14.7	-136.75	47.2	-639.2	749.8	719.7	30.18	24.844		
3,700.0	3,539.2	3,606.8	3,534.9	20.9	15.2	-136.79	49.2	-660.6	775.1	744.0	31.16	24.879		
3,800.0	3,633.6	3,703.5	3,629.2	21.6	15.6	-136.82	51.1	-682.0	800.4	768.3	32.13	24.912		
3,900.0	3,728.0	3,800.2	3,723.5	22.3	16.1	-136.85	53.0	-703.4	825.8	792.6	33.11	24.942		
4,000.0	3,822.4	3,897.0	3,817.9	22.9	16.6	-136.88	54.9	-724.8	851.1	817.0	34.08	24.971		
4,100.0	3,916.7	3,993.7	3,912.2	23.6	17.1	-136.91	56.9	-746.2	876.4	841.3	35.06	24.998		
4,200.0	4,011.1	4,090.5	4,006.5	24.3	17.5	-136.93	58.8	-767.6	901.7	865.6	36.03	25.024		
4,300.0	4,105.5	4,187.2	4,100.9	25.0	18.0	-136.96	60.7	-789.0	927.0	890.0	37.01	25.048		
4,400.0	4,199.9	4,284.0	4,195.2	25.7	18.5	-136.98	62.6	-810.4	952.3	914.3	37.98	25.071		
4,500.0	4,294.2	4,380.7	4,289.5	26.3	18.9	-137.00	64.5	-831.8	977.6	938.6	38.96	25.092		
4,600.0	4,388.6	4,477.5	4,383.9	27.0	19.4	-137.02	66.5	-853.2	1,002.9	962.9	39.94	25.113		
4,700.0	4,483.0	4,574.2	4,478.2	27.7	19.9	-137.04	68.4	-874.6	1,028.2	987.3	40.91	25.132		
4,800.0	4,577.4	4,670.9	4,572.5	28.4	20.4	-137.06	70.3	-896.0	1,053.5	1,011.6	41.89	25.151		
4,900.0	4,671.7	4,767.7	4,666.8	29.0	20.8	-137.08	72.2	-917.3	1,078.8	1,035.9	42.86	25.168		
5,000.0	4,766.1	4,864.4	4,761.2	29.7	21.3	-137.10	74.2	-938.7	1,104.1	1,060.3	43.84	25.185		

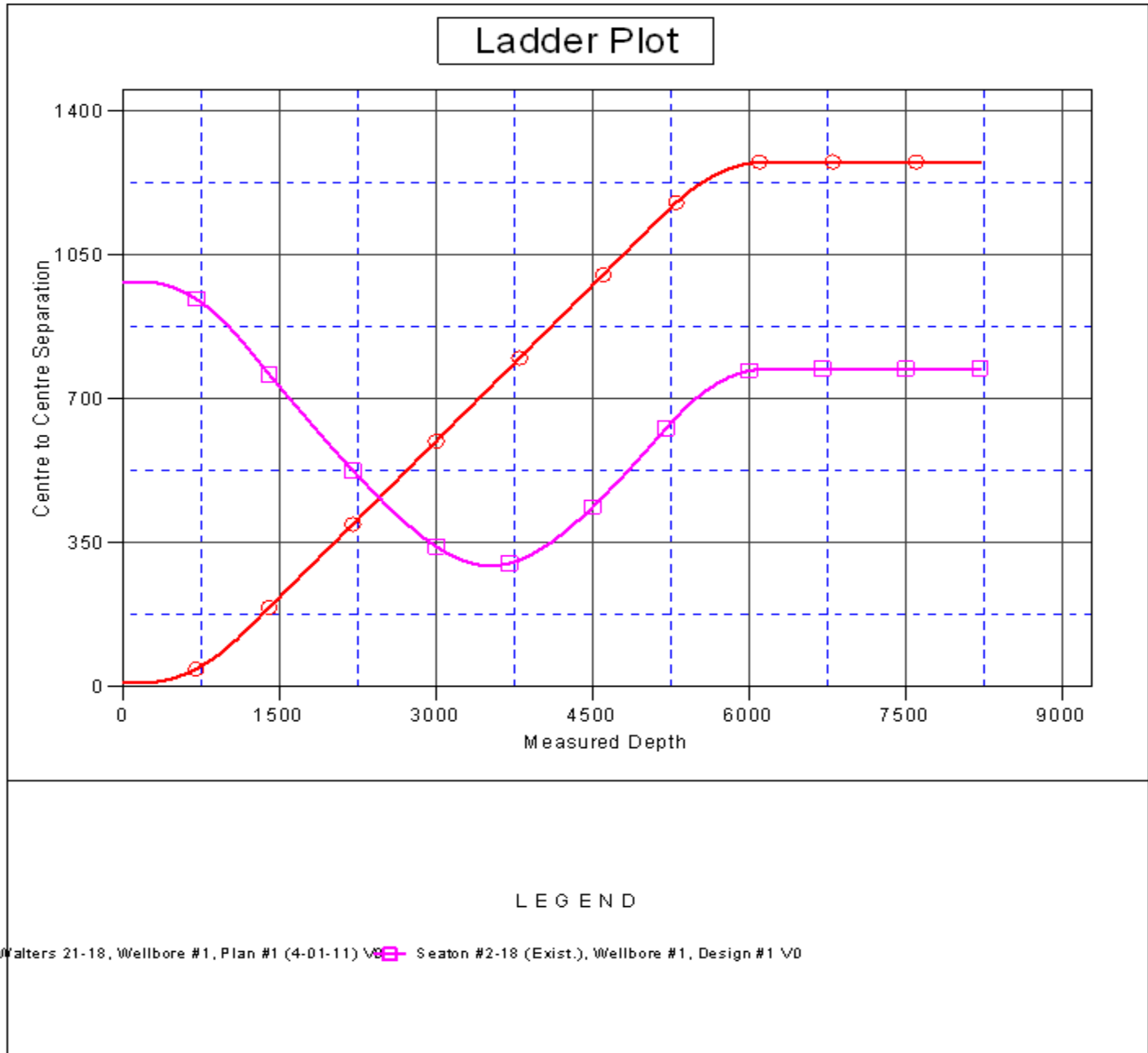
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	Anadarko, Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Walters 28-18
<b>Project:</b>	SEC.18-T2N-R65W	<b>TVD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Reference Site:</b>	Walters 17-18 Pad Sec.18-T2N-R65W	<b>MD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Walters 28-18	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (4-01-11)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Walters 17-18 Pad Sec.18-T2N-R65W - Walters 21-18 - Wellbore #1 - Plan #1 (4-01-11)												Offset Site Error:	0.0ft
Survey Program: 0-MWD												Offset Well Error:	0.0ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,100.0	4,860.5	4,961.2	4,855.5	30.4	21.8	-137.11	76.1	-960.1	1,129.4	1,084.6	44.82	25.201	
5,197.7	4,952.7	5,055.7	4,947.7	31.1	22.2	-137.13	78.0	-981.0	1,154.1	1,108.4	45.77	25.215	
5,200.0	4,954.9	5,057.9	4,949.8	31.1	22.2	-137.14	78.0	-981.5	1,154.7	1,108.9	45.79	25.216	
5,300.0	5,049.8	5,155.0	5,044.5	31.6	22.7	-137.43	79.9	-1,003.0	1,178.7	1,132.0	46.71	25.236	
5,400.0	5,145.8	5,253.3	5,140.6	32.0	23.1	-137.61	81.8	-1,023.7	1,200.2	1,152.7	47.51	25.263	
5,500.0	5,242.7	5,352.5	5,238.1	32.5	23.4	-137.81	83.4	-1,041.3	1,219.1	1,170.9	48.18	25.302	
5,600.0	5,340.4	5,452.1	5,336.8	32.8	23.7	-138.02	84.7	-1,055.6	1,235.4	1,186.6	48.76	25.338	
5,700.0	5,438.8	5,552.2	5,436.2	33.1	23.9	-138.25	85.6	-1,066.5	1,249.0	1,199.7	49.23	25.371	
5,800.0	5,537.8	5,652.5	5,536.3	33.4	24.1	-138.50	86.3	-1,074.0	1,259.9	1,210.3	49.60	25.403	
5,900.0	5,637.2	5,753.0	5,636.7	33.6	24.2	-138.75	86.7	-1,077.9	1,268.2	1,218.4	49.86	25.434	
6,000.0	5,736.9	5,853.3	5,736.9	33.8	24.3	-139.02	86.7	-1,078.6	1,273.8	1,223.8	50.04	25.456	
6,100.0	5,836.8	5,953.2	5,836.8	33.9	24.4	-139.17	86.7	-1,078.6	1,276.8	1,226.6	50.19	25.440	
6,163.2	5,900.0	6,016.4	5,900.0	34.0	24.5	-174.13	86.7	-1,078.6	1,277.3	1,227.1	50.28	25.405	
6,200.0	5,936.8	6,053.2	5,936.8	34.0	24.5	-174.13	86.7	-1,078.6	1,277.3	1,227.0	50.36	25.366	
6,300.0	6,036.8	6,153.2	6,036.8	34.1	24.6	-174.13	86.7	-1,078.6	1,277.3	1,226.8	50.58	25.254	
6,400.0	6,136.8	6,253.2	6,136.8	34.2	24.8	-174.13	86.7	-1,078.6	1,277.3	1,226.5	50.81	25.142	
6,500.0	6,236.8	6,353.2	6,236.8	34.3	24.9	-174.13	86.7	-1,078.6	1,277.3	1,226.3	51.04	25.029	
6,600.0	6,336.8	6,453.2	6,336.8	34.3	25.0	-174.13	86.7	-1,078.6	1,277.3	1,226.1	51.27	24.915	
6,700.0	6,436.8	6,553.2	6,436.8	34.4	25.1	-174.13	86.7	-1,078.6	1,277.3	1,225.8	51.50	24.801	
6,800.0	6,536.8	6,653.2	6,536.8	34.5	25.2	-174.13	86.7	-1,078.6	1,277.3	1,225.6	51.74	24.687	
6,900.0	6,636.8	6,753.2	6,636.8	34.6	25.4	-174.13	86.7	-1,078.6	1,277.3	1,225.4	51.98	24.573	
7,000.0	6,736.8	6,853.2	6,736.8	34.7	25.5	-174.13	86.7	-1,078.6	1,277.3	1,225.1	52.23	24.458	
7,100.0	6,836.8	6,953.2	6,836.8	34.8	25.6	-174.13	86.7	-1,078.6	1,277.3	1,224.9	52.47	24.344	
7,200.0	6,936.8	7,053.2	6,936.8	34.9	25.7	-174.13	86.7	-1,078.6	1,277.3	1,224.6	52.72	24.229	
7,300.0	7,036.8	7,153.2	7,036.8	35.0	25.9	-174.13	86.7	-1,078.6	1,277.3	1,224.4	52.97	24.113	
7,400.0	7,136.8	7,253.2	7,136.8	35.1	26.0	-174.13	86.7	-1,078.6	1,277.3	1,224.1	53.23	23.998	
7,500.0	7,236.8	7,353.2	7,236.8	35.2	26.1	-174.13	86.7	-1,078.6	1,277.3	1,223.9	53.48	23.883	
7,600.0	7,336.8	7,453.2	7,336.8	35.3	26.3	-174.13	86.7	-1,078.6	1,277.3	1,223.6	53.74	23.768	
7,700.0	7,436.8	7,553.2	7,436.8	35.4	26.4	-174.13	86.7	-1,078.6	1,277.3	1,223.3	54.00	23.653	
7,800.0	7,536.8	7,653.2	7,536.8	35.5	26.5	-174.13	86.7	-1,078.6	1,277.3	1,223.1	54.27	23.537	
7,900.0	7,636.8	7,753.2	7,636.8	35.6	26.7	-174.13	86.7	-1,078.6	1,277.3	1,222.8	54.54	23.422	
8,000.0	7,736.8	7,853.2	7,736.8	35.7	26.8	-174.13	86.7	-1,078.6	1,277.3	1,222.5	54.80	23.307	
8,100.0	7,836.8	7,953.2	7,836.8	35.8	26.9	-174.13	86.7	-1,078.6	1,277.3	1,222.3	55.08	23.192	
8,200.0	7,936.8	8,053.2	7,936.8	35.9	27.1	-174.13	86.7	-1,078.6	1,277.3	1,222.0	55.35	23.078	
8,211.2	7,948.0	8,064.4	7,948.0	35.9	27.1	-174.13	86.7	-1,078.6	1,277.3	1,222.0	55.38	23.065	

<b>Company:</b>	Anadarko, Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Walters 28-18
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<b>Reference Site:</b>	Walters 17-18 Pad Sec.18-T2N-R65W	<b>MD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Walters 28-18	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (4-01-11)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 4977.0ft (Original Well Elev) Coordinates are relative to: Walters 28-18  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -105.500000 °  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.52°



<b>Company:</b>	Anadarko, Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Walters 28-18
<b>Project:</b>	SEC.18-T2N-R65W	<b>TVD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Reference Site:</b>	Walters 17-18 Pad Sec.18-T2N-R65W	<b>MD Reference:</b>	WELL @ 4977.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Walters 28-18	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Plan #1 (4-01-11)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 4977.0ft (Original Well Elev) Coordinates are relative to: Walters 28-18  
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.52°

