

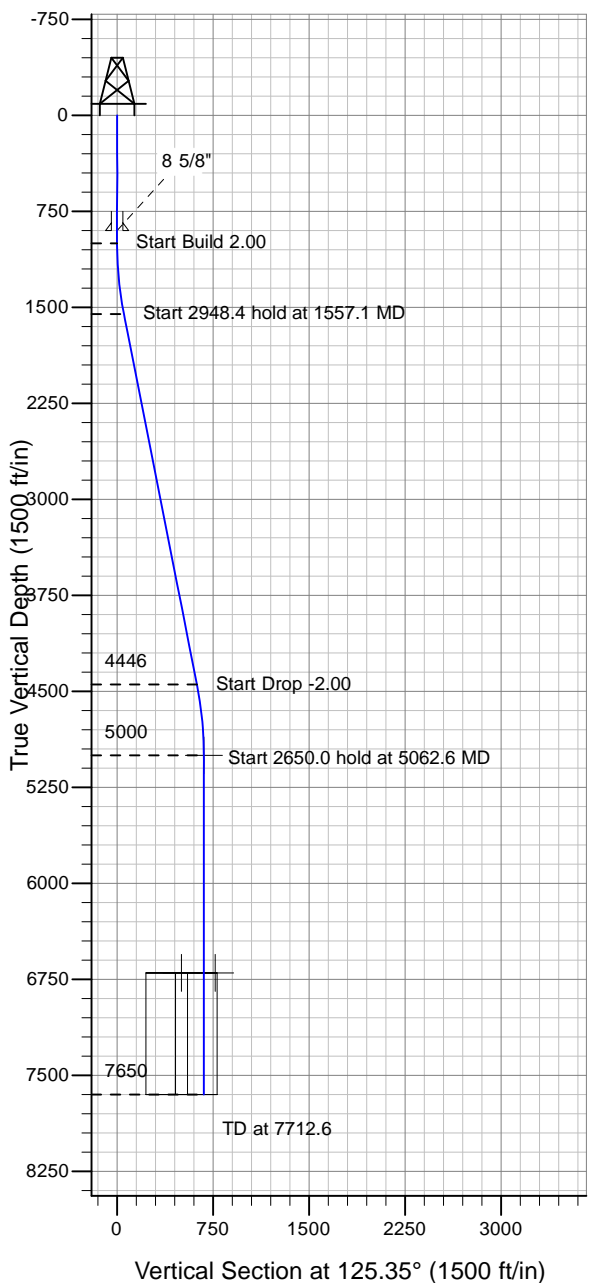
# ENSIGN

## Directional

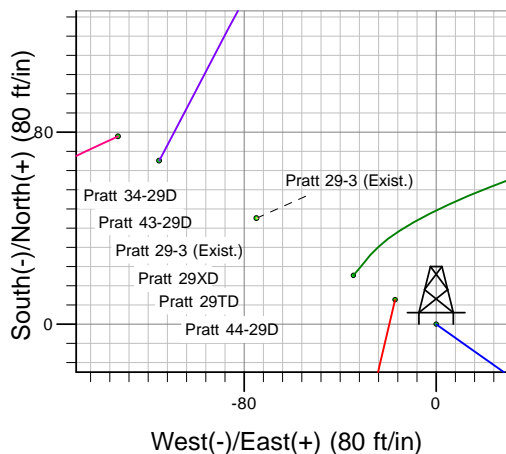
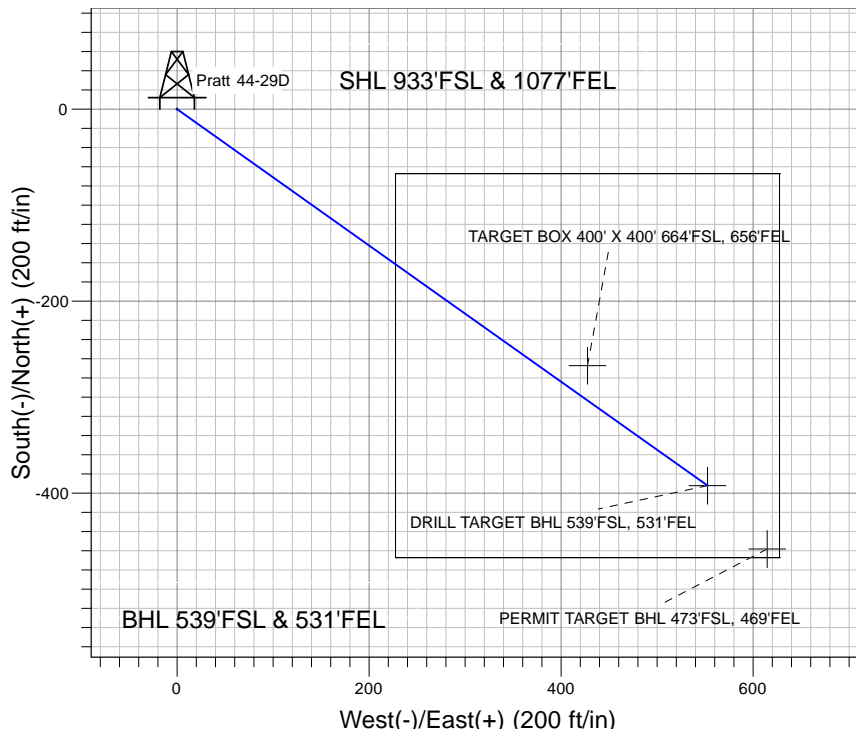
### Well Name: Pratt 44-29D

Surface Location: Pratt 34-29D Pad Sec.29-T1N-R68W  
 North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone  
 Ground Elevation: 5181.0

+N/-S+E/-W Northing Easting Latitude Longitude Slot  
 0.0 0.01249510.71 3133881.59 40° 1' 2.291 N 105° 1' 19.164 W  
 Original Well Elev WELL @ 5194.0ft (Original Well Elev)



### Synergy Resources



Pratt 34-29D Pad Sec.29-T1N-R68W  
 Pratt 44-29D  
 Plan #2 (6-3-10)  
 16:00, June 03 2010



Azimuths to True North  
 Magnetic North: 9.11°

Magnetic Field  
 Strength: 53015.6snT  
 Dip Angle: 66.73°  
 Date: 5/4/2010  
 Model: IGRF2010

### WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
DRILL TARGET BHL 539'FSL, 531'FEL	5000.0	-392.1	552.8	40° 0' 58.416 N	105° 1' 12.059 W	Point
PERMIT TARGET BHL 473'FSL, 469'FEL	6700.0	-458.1	614.8	40° 0' 57.764 N	105° 1' 11.262 W	Point
TARGET BOX 400' X 400' 664'FSL, 656'FEL	6700.0	-267.1	427.8	40° 0' 59.651 N	105° 1' 13.666 W	Rectangle (Sides: L400.0 W400.0)

### 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	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1557.1	11.14	125.35	1553.6	-31.2	44.0	2.00	125.35	54.0	
4	4505.5	11.14	125.35	4446.4	-360.9	508.8	0.00	0.00	623.7	
5	5062.6	0.00	0.00	5000.0	-392.1	552.8	2.00	180.00	677.7	DRILL TARGET BHL 539'FSL, 531'FEL
6	7712.6	0.00	0.00	7650.0	-392.1	552.8	0.00	0.00	677.7	



## **Synergy Resources**

**SEC.29-T1N-R68W**

**Pratt 34-29D Pad Sec.29-T1N-R68W**

**Pratt 44-29D**

**Wellbore #1**

**Plan: Plan #2 (6-3-10)**

## **Standard Planning Report**

**03 June, 2010**

<b>Database:</b>	EDM den0-adp01 Server Data	<b>Local Co-ordinate Reference:</b>	Well Pratt 44-29D
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Project:</b>	SEC.29-T1N-R68W	<b>MD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Site:</b>	Pratt 34-29D Pad Sec.29-T1N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 44-29D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 (6-3-10)		

<b>Project</b>	SEC.29-T1N-R68W, 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		
<b>Map Zone:</b>	Colorado Northern Zone		Using geodetic scale factor

Site Pratt 34-29D Pad Sec.29-T1N-R68W					
Site Position:		Northing:	1,249,588.32 ft	Latitude:	40° 1' 3.065 N
From:	Lat/Long	Easting:	3,133,748.69ft	Longitude:	105° 1' 20.867 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.31 °

Well	Pratt 44-29D					
Well Position	+N/-S	-78.3 ft	Northing:	1,249,510.71 ft	Latitude:	40° 1' 2.291 N
	+E/-W	132.5 ft	Easting:	3,133,881.59 ft	Longitude:	105° 1' 19.164 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,181.0 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	5/4/2010	9.11	66.73	53,016

<b>Design</b>	Plan #2 (6-3-10)			
<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	125.35

<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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,557.1	11.14	125.35	1,553.6	-31.2	44.0	2.00	2.00	0.00	125.35	
4,505.5	11.14	125.35	4,446.4	-360.9	508.8	0.00	0.00	0.00	0.00	
5,062.6	0.00	0.00	5,000.0	-392.1	552.8	2.00	-2.00	0.00	180.00	DRILL TARGET BH-
7,712.6	0.00	0.00	7,650.0	-392.1	552.8	0.00	0.00	0.00	0.00	

<b>Database:</b>	EDM den0-adp01 Server Data	<b>Local Co-ordinate Reference:</b>	Well Pratt 44-29D
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Project:</b>	SEC.29-T1N-R68W	<b>MD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Site:</b>	Pratt 34-29D Pad Sec.29-T1N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 44-29D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 (6-3-10)		

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	0.00	0.00	240.0	0.0	0.0	0.0	0.00	0.00	0.00
280.0	0.00	0.00	280.0	0.0	0.0	0.0	0.00	0.00	0.00
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
360.0	0.00	0.00	360.0	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
440.0	0.00	0.00	440.0	0.0	0.0	0.0	0.00	0.00	0.00
480.0	0.00	0.00	480.0	0.0	0.0	0.0	0.00	0.00	0.00
520.0	0.00	0.00	520.0	0.0	0.0	0.0	0.00	0.00	0.00
560.0	0.00	0.00	560.0	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
640.0	0.00	0.00	640.0	0.0	0.0	0.0	0.00	0.00	0.00
680.0	0.00	0.00	680.0	0.0	0.0	0.0	0.00	0.00	0.00
720.0	0.00	0.00	720.0	0.0	0.0	0.0	0.00	0.00	0.00
760.0	0.00	0.00	760.0	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
840.0	0.00	0.00	840.0	0.0	0.0	0.0	0.00	0.00	0.00
880.0	0.00	0.00	880.0	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
<b>8 5/8"</b>									
920.0	0.00	0.00	920.0	0.0	0.0	0.0	0.00	0.00	0.00
960.0	0.00	0.00	960.0	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
1,040.0	0.80	125.35	1,040.0	-0.2	0.2	0.3	2.00	2.00	0.00
1,080.0	1.60	125.35	1,080.0	-0.6	0.9	1.1	2.00	2.00	0.00
1,120.0	2.40	125.35	1,120.0	-1.5	2.0	2.5	2.00	2.00	0.00
1,160.0	3.20	125.35	1,159.9	-2.6	3.6	4.5	2.00	2.00	0.00
1,200.0	4.00	125.35	1,199.8	-4.0	5.7	7.0	2.00	2.00	0.00
1,240.0	4.80	125.35	1,239.7	-5.8	8.2	10.0	2.00	2.00	0.00
1,280.0	5.60	125.35	1,279.6	-7.9	11.2	13.7	2.00	2.00	0.00
1,320.0	6.40	125.35	1,319.3	-10.3	14.6	17.9	2.00	2.00	0.00
1,360.0	7.20	125.35	1,359.1	-13.1	18.4	22.6	2.00	2.00	0.00
1,400.0	8.00	125.35	1,398.7	-16.1	22.7	27.9	2.00	2.00	0.00
1,440.0	8.80	125.35	1,438.3	-19.5	27.5	33.7	2.00	2.00	0.00
1,480.0	9.60	125.35	1,477.8	-23.2	32.7	40.1	2.00	2.00	0.00
1,520.0	10.40	125.35	1,517.1	-27.2	38.4	47.1	2.00	2.00	0.00
1,557.1	11.14	125.35	1,553.6	-31.2	44.0	54.0	2.00	2.00	0.00
1,560.0	11.14	125.35	1,556.4	-31.6	44.5	54.6	0.00	0.00	0.00
1,600.0	11.14	125.35	1,595.7	-36.0	50.8	62.3	0.00	0.00	0.00
1,640.0	11.14	125.35	1,634.9	-40.5	57.1	70.0	0.00	0.00	0.00
1,680.0	11.14	125.35	1,674.2	-45.0	63.4	77.7	0.00	0.00	0.00
1,720.0	11.14	125.35	1,713.4	-49.5	69.7	85.5	0.00	0.00	0.00
1,760.0	11.14	125.35	1,752.7	-53.9	76.0	93.2	0.00	0.00	0.00
1,800.0	11.14	125.35	1,791.9	-58.4	82.3	100.9	0.00	0.00	0.00
1,840.0	11.14	125.35	1,831.2	-62.9	88.6	108.7	0.00	0.00	0.00
1,880.0	11.14	125.35	1,870.4	-67.3	94.9	116.4	0.00	0.00	0.00
1,920.0	11.14	125.35	1,909.7	-71.8	101.2	124.1	0.00	0.00	0.00
1,960.0	11.14	125.35	1,948.9	-76.3	107.5	131.9	0.00	0.00	0.00
2,000.0	11.14	125.35	1,988.1	-80.8	113.9	139.6	0.00	0.00	0.00

<b>Database:</b>	EDM den0-adp01 Server Data	<b>Local Co-ordinate Reference:</b>	Well Pratt 44-29D
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Project:</b>	SEC.29-T1N-R68W	<b>MD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Site:</b>	Pratt 34-29D Pad Sec.29-T1N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 44-29D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 (6-3-10)		

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	11.14	125.35	2,027.4	-85.2	120.2	147.3	0.00	0.00	0.00
2,080.0	11.14	125.35	2,066.6	-89.7	126.5	155.0	0.00	0.00	0.00
2,120.0	11.14	125.35	2,105.9	-94.2	132.8	162.8	0.00	0.00	0.00
2,160.0	11.14	125.35	2,145.1	-98.6	139.1	170.5	0.00	0.00	0.00
2,200.0	11.14	125.35	2,184.4	-103.1	145.4	178.2	0.00	0.00	0.00
2,240.0	11.14	125.35	2,223.6	-107.6	151.7	186.0	0.00	0.00	0.00
2,280.0	11.14	125.35	2,262.9	-112.1	158.0	193.7	0.00	0.00	0.00
2,320.0	11.14	125.35	2,302.1	-116.5	164.3	201.4	0.00	0.00	0.00
2,360.0	11.14	125.35	2,341.4	-121.0	170.6	209.1	0.00	0.00	0.00
2,400.0	11.14	125.35	2,380.6	-125.5	176.9	216.9	0.00	0.00	0.00
2,440.0	11.14	125.35	2,419.9	-129.9	183.2	224.6	0.00	0.00	0.00
2,480.0	11.14	125.35	2,459.1	-134.4	189.5	232.3	0.00	0.00	0.00
2,520.0	11.14	125.35	2,498.3	-138.9	195.8	240.1	0.00	0.00	0.00
2,560.0	11.14	125.35	2,537.6	-143.4	202.1	247.8	0.00	0.00	0.00
2,600.0	11.14	125.35	2,576.8	-147.8	208.4	255.5	0.00	0.00	0.00
2,640.0	11.14	125.35	2,616.1	-152.3	214.7	263.3	0.00	0.00	0.00
2,680.0	11.14	125.35	2,655.3	-156.8	221.0	271.0	0.00	0.00	0.00
2,720.0	11.14	125.35	2,694.6	-161.2	227.3	278.7	0.00	0.00	0.00
2,760.0	11.14	125.35	2,733.8	-165.7	233.6	286.4	0.00	0.00	0.00
2,800.0	11.14	125.35	2,773.1	-170.2	239.9	294.2	0.00	0.00	0.00
2,840.0	11.14	125.35	2,812.3	-174.7	246.2	301.9	0.00	0.00	0.00
2,880.0	11.14	125.35	2,851.6	-179.1	252.6	309.6	0.00	0.00	0.00
2,920.0	11.14	125.35	2,890.8	-183.6	258.9	317.4	0.00	0.00	0.00
2,960.0	11.14	125.35	2,930.1	-188.1	265.2	325.1	0.00	0.00	0.00
3,000.0	11.14	125.35	2,969.3	-192.6	271.5	332.8	0.00	0.00	0.00
3,040.0	11.14	125.35	3,008.5	-197.0	277.8	340.6	0.00	0.00	0.00
3,080.0	11.14	125.35	3,047.8	-201.5	284.1	348.3	0.00	0.00	0.00
3,120.0	11.14	125.35	3,087.0	-206.0	290.4	356.0	0.00	0.00	0.00
3,160.0	11.14	125.35	3,126.3	-210.4	296.7	363.7	0.00	0.00	0.00
3,200.0	11.14	125.35	3,165.5	-214.9	303.0	371.5	0.00	0.00	0.00
3,240.0	11.14	125.35	3,204.8	-219.4	309.3	379.2	0.00	0.00	0.00
3,280.0	11.14	125.35	3,244.0	-223.9	315.6	386.9	0.00	0.00	0.00
3,320.0	11.14	125.35	3,283.3	-228.3	321.9	394.7	0.00	0.00	0.00
3,360.0	11.14	125.35	3,322.5	-232.8	328.2	402.4	0.00	0.00	0.00
3,400.0	11.14	125.35	3,361.8	-237.3	334.5	410.1	0.00	0.00	0.00
3,440.0	11.14	125.35	3,401.0	-241.7	340.8	417.8	0.00	0.00	0.00
3,480.0	11.14	125.35	3,440.3	-246.2	347.1	425.6	0.00	0.00	0.00
3,520.0	11.14	125.35	3,479.5	-250.7	353.4	433.3	0.00	0.00	0.00
3,560.0	11.14	125.35	3,518.7	-255.2	359.7	441.0	0.00	0.00	0.00
3,600.0	11.14	125.35	3,558.0	-259.6	366.0	448.8	0.00	0.00	0.00
3,640.0	11.14	125.35	3,597.2	-264.1	372.3	456.5	0.00	0.00	0.00
3,680.0	11.14	125.35	3,636.5	-268.6	378.6	464.2	0.00	0.00	0.00
3,720.0	11.14	125.35	3,675.7	-273.0	385.0	472.0	0.00	0.00	0.00
3,760.0	11.14	125.35	3,715.0	-277.5	391.3	479.7	0.00	0.00	0.00
3,800.0	11.14	125.35	3,754.2	-282.0	397.6	487.4	0.00	0.00	0.00
3,840.0	11.14	125.35	3,793.5	-286.5	403.9	495.1	0.00	0.00	0.00
3,880.0	11.14	125.35	3,832.7	-290.9	410.2	502.9	0.00	0.00	0.00
3,920.0	11.14	125.35	3,872.0	-295.4	416.5	510.6	0.00	0.00	0.00
3,960.0	11.14	125.35	3,911.2	-299.9	422.8	518.3	0.00	0.00	0.00
4,000.0	11.14	125.35	3,950.5	-304.3	429.1	526.1	0.00	0.00	0.00
4,040.0	11.14	125.35	3,989.7	-308.8	435.4	533.8	0.00	0.00	0.00
4,080.0	11.14	125.35	4,028.9	-313.3	441.7	541.5	0.00	0.00	0.00
4,120.0	11.14	125.35	4,068.2	-317.8	448.0	549.3	0.00	0.00	0.00
4,160.0	11.14	125.35	4,107.4	-322.2	454.3	557.0	0.00	0.00	0.00

<b>Database:</b>	EDM den0-adp01 Server Data	<b>Local Co-ordinate Reference:</b>	Well Pratt 44-29D
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Project:</b>	SEC.29-T1N-R68W	<b>MD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Site:</b>	Pratt 34-29D Pad Sec.29-T1N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 44-29D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 (6-3-10)		

## 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)
4,200.0	11.14	125.35	4,146.7	-326.7	460.6	564.7	0.00	0.00	0.00
4,240.0	11.14	125.35	4,185.9	-331.2	466.9	572.4	0.00	0.00	0.00
4,280.0	11.14	125.35	4,225.2	-335.7	473.2	580.2	0.00	0.00	0.00
4,320.0	11.14	125.35	4,264.4	-340.1	479.5	587.9	0.00	0.00	0.00
4,360.0	11.14	125.35	4,303.7	-344.6	485.8	595.6	0.00	0.00	0.00
4,400.0	11.14	125.35	4,342.9	-349.1	492.1	603.4	0.00	0.00	0.00
4,440.0	11.14	125.35	4,382.2	-353.5	498.4	611.1	0.00	0.00	0.00
4,480.0	11.14	125.35	4,421.4	-358.0	504.7	618.8	0.00	0.00	0.00
4,505.5	11.14	125.35	4,446.4	-360.9	508.8	623.7	0.00	0.00	0.00
4,520.0	10.85	125.35	4,460.7	-362.5	511.0	626.5	2.00	-2.00	0.00
4,560.0	10.05	125.35	4,500.0	-366.7	516.9	633.8	2.00	-2.00	0.00
4,600.0	9.25	125.35	4,539.4	-370.5	522.4	640.5	2.00	-2.00	0.00
4,640.0	8.45	125.35	4,578.9	-374.1	527.4	646.6	2.00	-2.00	0.00
4,680.0	7.65	125.35	4,618.6	-377.3	532.0	652.2	2.00	-2.00	0.00
4,720.0	6.85	125.35	4,658.2	-380.3	536.1	657.3	2.00	-2.00	0.00
4,760.0	6.05	125.35	4,698.0	-382.9	539.8	661.8	2.00	-2.00	0.00
4,800.0	5.25	125.35	4,737.8	-385.1	543.0	665.7	2.00	-2.00	0.00
4,840.0	4.45	125.35	4,777.6	-387.1	545.8	669.1	2.00	-2.00	0.00
4,880.0	3.65	125.35	4,817.5	-388.7	548.1	671.9	2.00	-2.00	0.00
4,920.0	2.85	125.35	4,857.5	-390.0	549.9	674.2	2.00	-2.00	0.00
4,960.0	2.05	125.35	4,897.4	-391.0	551.3	675.9	2.00	-2.00	0.00
5,000.0	1.25	125.35	4,937.4	-391.7	552.2	677.1	2.00	-2.00	0.00
5,040.0	0.45	125.35	4,977.4	-392.0	552.7	677.7	2.00	-2.00	0.00
5,062.6	0.00	0.00	5,000.0	-392.1	552.8	677.7	2.00	-2.00	0.00
DRILL TARGET BHL 539'FSL, 531'FEL									
5,080.0	0.00	0.00	5,017.4	-392.1	552.8	677.7	0.00	0.00	0.00
5,120.0	0.00	0.00	5,057.4	-392.1	552.8	677.7	0.00	0.00	0.00
5,160.0	0.00	0.00	5,097.4	-392.1	552.8	677.7	0.00	0.00	0.00
5,200.0	0.00	0.00	5,137.4	-392.1	552.8	677.7	0.00	0.00	0.00
5,240.0	0.00	0.00	5,177.4	-392.1	552.8	677.7	0.00	0.00	0.00
5,280.0	0.00	0.00	5,217.4	-392.1	552.8	677.7	0.00	0.00	0.00
5,320.0	0.00	0.00	5,257.4	-392.1	552.8	677.7	0.00	0.00	0.00
5,360.0	0.00	0.00	5,297.4	-392.1	552.8	677.7	0.00	0.00	0.00
5,400.0	0.00	0.00	5,337.4	-392.1	552.8	677.7	0.00	0.00	0.00
5,440.0	0.00	0.00	5,377.4	-392.1	552.8	677.7	0.00	0.00	0.00
5,480.0	0.00	0.00	5,417.4	-392.1	552.8	677.7	0.00	0.00	0.00
5,520.0	0.00	0.00	5,457.4	-392.1	552.8	677.7	0.00	0.00	0.00
5,560.0	0.00	0.00	5,497.4	-392.1	552.8	677.7	0.00	0.00	0.00
5,600.0	0.00	0.00	5,537.4	-392.1	552.8	677.7	0.00	0.00	0.00
5,640.0	0.00	0.00	5,577.4	-392.1	552.8	677.7	0.00	0.00	0.00
5,680.0	0.00	0.00	5,617.4	-392.1	552.8	677.7	0.00	0.00	0.00
5,720.0	0.00	0.00	5,657.4	-392.1	552.8	677.7	0.00	0.00	0.00
5,760.0	0.00	0.00	5,697.4	-392.1	552.8	677.7	0.00	0.00	0.00
5,800.0	0.00	0.00	5,737.4	-392.1	552.8	677.7	0.00	0.00	0.00
5,840.0	0.00	0.00	5,777.4	-392.1	552.8	677.7	0.00	0.00	0.00
5,880.0	0.00	0.00	5,817.4	-392.1	552.8	677.7	0.00	0.00	0.00
5,920.0	0.00	0.00	5,857.4	-392.1	552.8	677.7	0.00	0.00	0.00
5,960.0	0.00	0.00	5,897.4	-392.1	552.8	677.7	0.00	0.00	0.00
6,000.0	0.00	0.00	5,937.4	-392.1	552.8	677.7	0.00	0.00	0.00
6,040.0	0.00	0.00	5,977.4	-392.1	552.8	677.7	0.00	0.00	0.00
6,080.0	0.00	0.00	6,017.4	-392.1	552.8	677.7	0.00	0.00	0.00
6,120.0	0.00	0.00	6,057.4	-392.1	552.8	677.7	0.00	0.00	0.00
6,160.0	0.00	0.00	6,097.4	-392.1	552.8	677.7	0.00	0.00	0.00
6,200.0	0.00	0.00	6,137.4	-392.1	552.8	677.7	0.00	0.00	0.00

<b>Database:</b>	EDM den0-adp01 Server Data	<b>Local Co-ordinate Reference:</b>	Well Pratt 44-29D
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Project:</b>	SEC.29-T1N-R68W	<b>MD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Site:</b>	Pratt 34-29D Pad Sec.29-T1N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 44-29D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 (6-3-10)		

### 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)
6,240.0	0.00	0.00	6,177.4	-392.1	552.8	677.7	0.00	0.00	0.00
6,280.0	0.00	0.00	6,217.4	-392.1	552.8	677.7	0.00	0.00	0.00
6,320.0	0.00	0.00	6,257.4	-392.1	552.8	677.7	0.00	0.00	0.00
6,360.0	0.00	0.00	6,297.4	-392.1	552.8	677.7	0.00	0.00	0.00
6,400.0	0.00	0.00	6,337.4	-392.1	552.8	677.7	0.00	0.00	0.00
6,440.0	0.00	0.00	6,377.4	-392.1	552.8	677.7	0.00	0.00	0.00
6,480.0	0.00	0.00	6,417.4	-392.1	552.8	677.7	0.00	0.00	0.00
6,520.0	0.00	0.00	6,457.4	-392.1	552.8	677.7	0.00	0.00	0.00
6,560.0	0.00	0.00	6,497.4	-392.1	552.8	677.7	0.00	0.00	0.00
6,600.0	0.00	0.00	6,537.4	-392.1	552.8	677.7	0.00	0.00	0.00
6,640.0	0.00	0.00	6,577.4	-392.1	552.8	677.7	0.00	0.00	0.00
6,680.0	0.00	0.00	6,617.4	-392.1	552.8	677.7	0.00	0.00	0.00
6,720.0	0.00	0.00	6,657.4	-392.1	552.8	677.7	0.00	0.00	0.00
6,760.0	0.00	0.00	6,697.4	-392.1	552.8	677.7	0.00	0.00	0.00
6,762.6	0.00	0.00	6,700.0	-392.1	552.8	677.7	0.00	0.00	0.00
PERMIT TARGET BHL 473'FSL, 469'FEL - TARGET BOX 400' X 400' 664'FSL, 656'FEL									
6,800.0	0.00	0.00	6,737.4	-392.1	552.8	677.7	0.00	0.00	0.00
6,840.0	0.00	0.00	6,777.4	-392.1	552.8	677.7	0.00	0.00	0.00
6,880.0	0.00	0.00	6,817.4	-392.1	552.8	677.7	0.00	0.00	0.00
6,920.0	0.00	0.00	6,857.4	-392.1	552.8	677.7	0.00	0.00	0.00
6,960.0	0.00	0.00	6,897.4	-392.1	552.8	677.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,937.4	-392.1	552.8	677.7	0.00	0.00	0.00
7,040.0	0.00	0.00	6,977.4	-392.1	552.8	677.7	0.00	0.00	0.00
7,080.0	0.00	0.00	7,017.4	-392.1	552.8	677.7	0.00	0.00	0.00
7,120.0	0.00	0.00	7,057.4	-392.1	552.8	677.7	0.00	0.00	0.00
7,160.0	0.00	0.00	7,097.4	-392.1	552.8	677.7	0.00	0.00	0.00
7,200.0	0.00	0.00	7,137.4	-392.1	552.8	677.7	0.00	0.00	0.00
7,240.0	0.00	0.00	7,177.4	-392.1	552.8	677.7	0.00	0.00	0.00
7,280.0	0.00	0.00	7,217.4	-392.1	552.8	677.7	0.00	0.00	0.00
7,320.0	0.00	0.00	7,257.4	-392.1	552.8	677.7	0.00	0.00	0.00
7,360.0	0.00	0.00	7,297.4	-392.1	552.8	677.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,337.4	-392.1	552.8	677.7	0.00	0.00	0.00
7,440.0	0.00	0.00	7,377.4	-392.1	552.8	677.7	0.00	0.00	0.00
7,480.0	0.00	0.00	7,417.4	-392.1	552.8	677.7	0.00	0.00	0.00
7,520.0	0.00	0.00	7,457.4	-392.1	552.8	677.7	0.00	0.00	0.00
7,560.0	0.00	0.00	7,497.4	-392.1	552.8	677.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,537.4	-392.1	552.8	677.7	0.00	0.00	0.00
7,640.0	0.00	0.00	7,577.4	-392.1	552.8	677.7	0.00	0.00	0.00
7,680.0	0.00	0.00	7,617.4	-392.1	552.8	677.7	0.00	0.00	0.00
7,712.6	0.00	0.00	7,650.0	-392.1	552.8	677.7	0.00	0.00	0.00

<b>Database:</b>	EDM den0-adp01 Server Data	<b>Local Co-ordinate Reference:</b>	Well Pratt 44-29D
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Project:</b>	SEC.29-T1N-R68W	<b>MD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Site:</b>	Pratt 34-29D Pad Sec.29-T1N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 44-29D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 (6-3-10)		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
PERMIT TARGET BH	0.00	0.00	6,700.0	-458.1	614.8	1,249,055.96	3,134,498.83	40° 0' 57.764 N	105° 1' 11.262 W
- plan misses target center by 90.5ft at 6762.6ft MD (6700.0 TVD, -392.1 N, 552.8 E)									
- Point									
TARGET BOX 400' X	0.00	0.00	6,700.0	-267.1	427.8	1,249,245.93	3,134,310.81	40° 0' 59.651 N	105° 1' 13.666 W
- plan misses target center by 176.8ft at 6762.6ft MD (6700.0 TVD, -392.1 N, 552.8 E)									
- Rectangle (sides W400.0 H400.0 D950.0)									
DRILL TARGET BHL	0.00	0.00	5,000.0	-392.1	552.8	1,249,121.61	3,134,436.48	40° 0' 58.416 N	105° 1' 12.059 W
- plan hits target center									
- Point									

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





## **Synergy Resources**

**SEC.29-T1N-R68W**

**Pratt 34-29D Pad Sec.29-T1N-R68W**

**Pratt 44-29D**

**Wellbore #1**

**Plan #2 (6-3-10)**

## **Anticollision Report**

**03 June, 2010**

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well Pratt 44-29D
<b>Project:</b>	SEC.29-T1N-R68W	<b>TVD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Reference Site:</b>	Pratt 34-29D Pad Sec.29-T1N-R68W	<b>MD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 44-29D	<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>	EDM den0-adp01 Server Data
<b>Reference Design:</b>	Plan #2 (6-3-10)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan #2 (6-3-10)		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD Interval 100.0ft	<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 2,000.0ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma		

Survey Tool Program		Date	6/3/2010		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	7,712.6	Plan #2 (6-3-10) (Wellbore #1)	MWD	MWD - Standard	

Summary						
Site Name	Reference Measured Depth	Offset Measured Depth	Distance Between Centres	Distance Between Ellipses	Separation Factor	Warning
Offset Well - Wellbore - Design	(ft)	(ft)	(ft)	(ft)		
Pratt 34-29D Pad Sec.29-T1N-R68W						
Pratt 29TD - Wellbore #1 - Plan #1 (5-4-10)	1,000.0	998.0	19.9	15.7	4.697	CC, ES
Pratt 29TD - Wellbore #1 - Plan #1 (5-4-10)	1,100.0	1,098.0	21.6	17.0	4.640	SF
Pratt 29XD - Wellbore #1 - Plan #1 (5-4-10)	395.3	393.4	39.5	38.0	25.865	CC
Pratt 29XD - Wellbore #1 - Plan #1 (5-4-10)	400.0	398.1	39.5	37.9	25.503	ES
Pratt 29XD - Wellbore #1 - Plan #1 (5-4-10)	700.0	697.3	46.1	43.2	15.792	SF

Offset Design      Pratt 34-29D Pad Sec.29-T1N-R68W - Pratt 29TD - Wellbore #1 - Plan #1 (5-4-10)													Offset Site Error:      0.0 ft	
Survey Program: 0-MWD													Offset Well Error:      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		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
							+N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-59.16	10.2	-17.1	20.0					
100.0	100.0	98.0	98.0	0.1	0.1	-59.16	10.2	-17.1	19.9	19.7	0.19	102.788		
200.0	200.0	198.0	198.0	0.3	0.3	-59.16	10.2	-17.1	19.9	19.3	0.64	31.064		
300.0	300.0	298.0	298.0	0.5	0.5	-59.16	10.2	-17.1	19.9	18.8	1.09	18.254		
400.0	400.0	398.0	398.0	0.8	0.8	-59.16	10.2	-17.1	19.9	18.4	1.54	12.924		
500.0	500.0	498.0	498.0	1.0	1.0	-59.16	10.2	-17.1	19.9	17.9	1.99	10.004		
600.0	600.0	598.0	598.0	1.2	1.2	-59.16	10.2	-17.1	19.9	17.5	2.44	8.160		
700.0	700.0	698.0	698.0	1.4	1.4	-59.16	10.2	-17.1	19.9	17.0	2.89	6.890		
800.0	800.0	798.0	798.0	1.7	1.7	-59.16	10.2	-17.1	19.9	16.6	3.34	5.962		
900.0	900.0	898.0	898.0	1.9	1.9	-59.16	10.2	-17.1	19.9	16.1	3.79	5.254		
1,000.0	1,000.0	998.0	998.0	2.1	2.1	-59.16	10.2	-17.1	19.9	15.7	4.24	4.697	CC, ES	
1,100.0	1,100.0	1,098.0	1,098.0	2.3	2.3	175.85	10.2	-17.1	21.6	17.0	4.66	4.640	SF	
1,200.0	1,199.8	1,197.8	1,197.8	2.5	2.6	176.65	10.2	-17.1	26.9	21.8	5.07	5.298		
1,300.0	1,299.5	1,297.8	1,297.8	2.7	2.8	174.88	8.6	-17.5	35.0	29.6	5.45	6.431		
1,400.0	1,398.7	1,397.5	1,397.4	3.0	2.9	170.04	3.6	-18.6	45.8	40.0	5.81	7.892		
1,500.0	1,497.5	1,496.7	1,496.2	3.2	3.1	164.47	-4.7	-20.6	59.7	53.5	6.19	9.649		
1,600.0	1,595.7	1,595.3	1,594.0	3.5	3.3	159.22	-16.3	-23.3	76.7	70.1	6.61	11.598		
1,700.0	1,693.8	1,693.3	1,690.8	3.9	3.6	154.01	-31.0	-26.8	94.7	87.6	7.10	13.334		
1,800.0	1,791.9	1,790.6	1,786.4	4.2	3.8	148.81	-48.9	-31.0	113.7	106.1	7.66	14.846		
1,900.0	1,890.0	1,887.1	1,880.5	4.6	4.1	143.74	-69.6	-35.8	134.1	125.8	8.28	16.192		
2,000.0	1,988.1	1,982.6	1,972.9	5.0	4.5	138.90	-93.2	-41.4	156.3	147.3	8.97	17.428		
2,100.0	2,086.3	2,079.1	2,065.9	5.3	4.9	134.81	-118.3	-47.3	179.8	170.1	9.70	18.540		

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well Pratt 44-29D
<b>Project:</b>	SEC.29-T1N-R68W	<b>TVD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Reference Site:</b>	Pratt 34-29D Pad Sec.29-T1N-R68W	<b>MD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 44-29D	<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>	EDM den0-adp01 Server Data
<b>Reference Design:</b>	Plan #2 (6-3-10)	<b>Offset TVD Reference:</b>	Offset Datum

Pratt 34-29D Pad Sec.29-T1N-R68W - Pratt 29TD - Wellbore #1 - Plan #1 (5-4-10)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
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	2,184.4	2,175.6	2,158.9	5.7	5.3	131.67	-143.4	-53.2	203.9	193.5	10.44	19.530		
2,300.0	2,282.5	2,272.1	2,251.9	6.1	5.8	129.19	-168.5	-59.0	228.6	217.4	11.20	20.408		
2,400.0	2,380.6	2,368.6	2,344.9	6.6	6.2	127.19	-193.6	-64.9	253.5	241.5	11.97	21.184		
2,500.0	2,478.7	2,465.1	2,437.9	7.0	6.7	125.55	-218.7	-70.8	278.7	266.0	12.74	21.871		
2,600.0	2,576.8	2,561.6	2,530.9	7.4	7.2	124.19	-243.8	-76.7	304.1	290.5	13.53	22.481		
2,700.0	2,675.0	2,658.1	2,623.9	7.8	7.6	123.03	-268.9	-82.6	329.6	315.3	14.31	23.026		
2,800.0	2,773.1	2,754.6	2,716.8	8.2	8.1	122.04	-294.0	-88.5	355.2	340.1	15.11	23.513		
2,900.0	2,871.2	2,851.1	2,809.8	8.6	8.6	121.18	-319.1	-94.4	380.9	365.0	15.90	23.952		
3,000.0	2,969.3	2,947.6	2,902.8	9.1	9.1	120.43	-344.2	-100.3	406.7	389.9	16.70	24.348		
3,100.0	3,067.4	3,044.1	2,995.8	9.5	9.6	119.77	-369.3	-106.2	432.5	415.0	17.50	24.707		
3,200.0	3,165.5	3,140.6	3,088.8	9.9	10.2	119.18	-394.4	-112.1	458.4	440.0	18.31	25.033		
3,300.0	3,263.6	3,237.1	3,181.8	10.3	10.7	118.66	-419.5	-118.0	484.3	465.2	19.12	25.331		
3,400.0	3,361.8	3,333.6	3,274.8	10.8	11.2	118.19	-444.6	-123.9	510.2	490.3	19.93	25.604		
3,500.0	3,459.9	3,430.1	3,367.7	11.2	11.7	117.76	-469.7	-129.8	536.2	515.5	20.74	25.855		
3,600.0	3,558.0	3,526.5	3,460.7	11.6	12.2	117.38	-494.8	-135.7	562.2	540.6	21.55	26.086		
3,700.0	3,656.1	3,623.0	3,553.7	12.0	12.7	117.02	-519.9	-141.6	588.2	565.9	22.37	26.300		
3,800.0	3,754.2	3,719.5	3,646.7	12.5	13.3	116.70	-545.0	-147.4	614.3	591.1	23.18	26.498		
3,900.0	3,852.3	3,816.0	3,739.7	12.9	13.8	116.41	-570.1	-153.3	640.3	616.3	24.00	26.682		
4,000.0	3,950.5	3,912.5	3,832.7	13.3	14.3	116.13	-595.2	-159.2	666.4	641.6	24.82	26.853		
4,100.0	4,048.6	4,009.0	3,925.7	13.8	14.8	115.88	-620.3	-165.1	692.5	666.9	25.64	27.013		
4,200.0	4,146.7	4,105.5	4,018.6	14.2	15.4	115.65	-645.4	-171.0	718.6	692.1	26.45	27.163		
4,300.0	4,244.8	4,202.0	4,111.6	14.6	15.9	115.43	-670.4	-176.9	744.7	717.4	27.28	27.303		
4,400.0	4,342.9	4,298.5	4,204.6	15.1	16.4	115.23	-695.5	-182.8	770.8	742.7	28.10	27.435		
4,500.0	4,441.0	4,395.0	4,297.6	15.5	16.9	115.04	-720.6	-188.7	796.9	768.0	28.92	27.558		
4,600.0	4,539.4	4,491.6	4,390.7	15.9	17.5	115.21	-745.8	-194.6	822.4	792.7	29.74	27.659		
4,700.0	4,638.4	4,601.1	4,496.4	16.1	18.0	115.14	-773.6	-201.1	846.2	815.7	30.47	27.773		
4,800.0	4,737.8	4,723.7	4,615.9	16.4	18.4	114.93	-800.4	-207.4	866.0	834.9	31.08	27.863		
4,900.0	4,837.5	4,848.1	4,738.2	16.6	18.8	114.67	-822.5	-212.6	881.6	850.0	31.62	27.882		
5,000.0	4,937.4	4,974.1	4,862.9	16.7	19.2	114.33	-839.6	-216.6	892.8	860.7	32.07	27.835		
5,100.0	5,037.4	5,101.2	4,989.5	16.9	19.4	-120.75	-851.5	-219.4	899.7	867.2	32.45	27.722		
5,200.0	5,137.4	5,229.1	5,117.2	17.0	19.6	-121.05	-857.8	-220.9	903.3	870.5	32.78	27.556		
5,300.0	5,237.4	5,347.4	5,235.4	17.1	19.8	-121.10	-859.0	-221.2	903.9	870.8	33.08	27.328		
5,400.0	5,337.4	5,447.4	5,335.4	17.3	19.9	-121.10	-859.0	-221.2	903.9	870.6	33.35	27.107		
5,500.0	5,437.4	5,547.4	5,435.4	17.4	20.0	-121.10	-859.0	-221.2	903.9	870.3	33.61	26.891		
5,600.0	5,537.4	5,647.4	5,535.4	17.5	20.1	-121.10	-859.0	-221.2	903.9	870.0	33.89	26.675		
5,700.0	5,637.4	5,747.4	5,635.4	17.7	20.2	-121.10	-859.0	-221.2	903.9	869.7	34.16	26.460		
5,800.0	5,737.4	5,847.4	5,735.4	17.8	20.3	-121.10	-859.0	-221.2	903.9	869.5	34.44	26.246		
5,900.0	5,837.4	5,947.4	5,835.4	18.0	20.5	-121.10	-859.0	-221.2	903.9	869.2	34.72	26.032		
6,000.0	5,937.4	6,047.4	5,935.4	18.1	20.6	-121.10	-859.0	-221.2	903.9	868.9	35.01	25.819		
6,100.0	6,037.4	6,147.4	6,035.4	18.2	20.7	-121.10	-859.0	-221.2	903.9	868.6	35.30	25.607		
6,200.0	6,137.4	6,247.4	6,135.4	18.4	20.8	-121.10	-859.0	-221.2	903.9	868.3	35.59	25.397		
6,300.0	6,237.4	6,347.4	6,235.4	18.5	20.9	-121.10	-859.0	-221.2	903.9	868.0	35.89	25.187		
6,400.0	6,337.4	6,447.4	6,335.4	18.7	21.1	-121.10	-859.0	-221.2	903.9	867.7	36.19	24.979		
6,500.0	6,437.4	6,547.4	6,435.4	18.8	21.2	-121.10	-859.0	-221.2	903.9	867.4	36.49	24.772		
6,600.0	6,537.4	6,647.4	6,535.4	19.0	21.3	-121.10	-859.0	-221.2	903.9	867.1	36.80	24.566		
6,700.0	6,637.4	6,747.4	6,635.4	19.2	21.4	-121.10	-859.0	-221.2	903.9	866.8	37.10	24.362		
6,800.0	6,737.4	6,847.4	6,735.4	19.3	21.6	-121.10	-859.0	-221.2	903.9	866.5	37.41	24.159		
6,900.0	6,837.4	6,947.4	6,835.4	19.5	21.7	-121.10	-859.0	-221.2	903.9	866.2	37.73	23.958		
7,000.0	6,937.4	7,047.4	6,935.4	19.6	21.8	-121.10	-859.0	-221.2	903.9	865.9	38.05	23.759		
7,100.0	7,037.4	7,147.4	7,035.4	19.8	22.0	-121.10	-859.0	-221.2	903.9	865.5	38.36	23.561		
7,200.0	7,137.4	7,247.4	7,135.4	19.9	22.1	-121.10	-859.0	-221.2	903.9	865.2	38.69	23.365		
7,300.0	7,237.4	7,347.4	7,235.4	20.1	22.2	-121.10	-859.0	-221.2	903.9	864.9	39.01	23.170		

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well Pratt 44-29D
<b>Project:</b>	SEC.29-T1N-R68W	<b>TVD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Reference Site:</b>	Pratt 34-29D Pad Sec.29-T1N-R68W	<b>MD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 44-29D	<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>	EDM den0-adp01 Server Data
<b>Reference Design:</b>	Plan #2 (6-3-10)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> Pratt 34-29D Pad Sec.29-T1N-R68W - Pratt 29TD - Wellbore #1 - Plan #1 (5-4-10)												<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
7,400.0	7,337.4	7,447.4	7,335.4	20.3	22.4	-121.10	-859.0	-221.2	903.9	864.6	39.34	22.978	
7,500.0	7,437.4	7,547.4	7,435.4	20.4	22.5	-121.10	-859.0	-221.2	903.9	864.2	39.67	22.787	
7,600.0	7,537.4	7,647.4	7,535.4	20.6	22.7	-121.10	-859.0	-221.2	903.9	863.9	40.00	22.598	
7,700.0	7,637.4	7,747.4	7,635.4	20.8	22.8	-121.10	-859.0	-221.2	903.9	863.6	40.33	22.411	
7,712.6	7,650.0	7,760.0	7,648.0	20.8	22.8	-121.10	-859.0	-221.2	903.9	863.5	40.38	22.387	

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well Pratt 44-29D
<b>Project:</b>	SEC.29-T1N-R68W	<b>TVD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Reference Site:</b>	Pratt 34-29D Pad Sec.29-T1N-R68W	<b>MD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 44-29D	<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>	EDM den0-adp01 Server Data
<b>Reference Design:</b>	Plan #2 (6-3-10)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Pratt 34-29D Pad Sec.29-T1N-R68W - Pratt 29XD - Wellbore #1 - Plan #1 (5-4-10)													Offset Site Error: 0.0 ft	
Survey Program: 0-MWDD													Offset Well Error: 0.0 ft	
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		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
							+N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-59.38	20.4	-34.5	40.1					
100.0	100.0	98.0	98.0	0.1	0.1	-59.38	20.4	-34.5	40.0	39.8	0.19	206.785		
200.0	200.0	198.0	198.0	0.3	0.3	-59.38	20.4	-34.5	40.0	39.4	0.64	62.493		
300.0	300.0	298.2	298.2	0.5	0.5	-56.99	21.7	-33.4	39.8	38.7	1.09	36.504		
395.3	395.3	393.4	393.3	0.8	0.8	-50.00	25.4	-30.3	39.5	38.0	1.53	25.865 CC		
400.0	400.0	398.1	398.0	0.8	0.8	-49.53	25.6	-30.0	39.5	37.9	1.55	25.503 ES		
500.0	500.0	498.1	497.6	1.0	1.0	-37.28	32.0	-24.3	40.2	38.2	2.01	19.954		
600.0	600.0	598.1	596.9	1.2	1.3	-21.53	38.9	-15.3	41.8	39.3	2.47	16.960		
700.0	700.0	697.3	695.1	1.4	1.6	-3.72	46.0	-3.0	46.1	43.2	2.92	15.792 SF		
800.0	800.0	795.4	791.7	1.7	1.9	13.31	53.2	12.6	55.0	51.6	3.40	16.186		
900.0	900.0	892.4	886.6	1.9	2.3	27.29	60.5	31.2	69.0	65.1	3.91	17.628		
1,000.0	1,000.0	989.3	980.8	2.1	2.8	37.58	67.9	52.3	87.4	82.9	4.48	19.519		
1,100.0	1,100.0	1,086.7	1,075.6	2.3	3.2	-81.55	75.4	73.7	107.5	102.6	4.89	21.978		
1,200.0	1,199.8	1,184.5	1,170.8	2.5	3.7	-78.73	83.0	95.1	127.7	122.4	5.34	23.891		
1,300.0	1,299.5	1,282.6	1,266.1	2.7	4.1	-77.93	90.5	116.7	147.3	141.4	5.83	25.241		
1,400.0	1,398.7	1,380.8	1,361.6	3.0	4.6	-78.44	98.1	138.2	166.2	159.8	6.37	26.075		
1,500.0	1,497.5	1,478.9	1,457.1	3.2	5.1	-79.86	105.7	159.8	184.5	177.5	6.97	26.454		
1,600.0	1,595.7	1,577.0	1,552.4	3.5	5.6	-82.01	113.2	181.3	202.5	194.8	7.65	26.471		
1,700.0	1,693.8	1,675.0	1,647.7	3.9	6.1	-84.13	120.8	202.8	220.7	212.4	8.37	26.365		
1,800.0	1,791.9	1,773.0	1,743.1	4.2	6.5	-85.92	128.3	224.3	239.2	230.1	9.12	26.226		
1,900.0	1,890.0	1,871.0	1,838.4	4.6	7.0	-87.46	135.9	245.8	257.9	248.0	9.89	26.075		
2,000.0	1,988.1	1,969.1	1,933.7	5.0	7.5	-88.79	143.4	267.4	276.7	266.0	10.67	25.923		
2,100.0	2,086.3	2,067.1	2,029.1	5.3	8.0	-89.95	151.0	288.9	295.7	284.2	11.47	25.778		
2,200.0	2,184.4	2,165.1	2,124.4	5.7	8.5	-90.97	158.5	310.4	314.7	302.4	12.27	25.641		
2,300.0	2,282.5	2,263.1	2,219.7	6.1	9.0	-91.88	166.1	331.9	333.9	320.8	13.09	25.514		
2,400.0	2,380.6	2,361.1	2,315.1	6.6	9.5	-92.68	173.6	353.4	353.1	339.2	13.90	25.398		
2,500.0	2,478.7	2,459.2	2,410.4	7.0	9.9	-93.41	181.2	374.9	372.4	357.6	14.72	25.290		
2,600.0	2,576.8	2,557.2	2,505.7	7.4	10.4	-94.06	188.7	396.5	391.7	376.1	15.55	25.192		
2,700.0	2,675.0	2,655.2	2,601.1	7.8	10.9	-94.65	196.3	418.0	411.1	394.7	16.38	25.102		
2,800.0	2,773.1	2,753.2	2,696.4	8.2	11.4	-95.19	203.8	439.5	430.5	413.3	17.21	25.020		
2,900.0	2,871.2	2,851.2	2,791.7	8.6	11.9	-95.68	211.4	461.0	449.9	431.9	18.04	24.944		
3,000.0	2,969.3	2,949.3	2,887.1	9.1	12.4	-96.13	218.9	482.5	469.4	450.5	18.87	24.874		
3,100.0	3,067.4	3,047.3	2,982.4	9.5	12.9	-96.54	226.5	504.1	488.9	469.2	19.71	24.809		
3,200.0	3,165.5	3,145.3	3,077.7	9.9	13.4	-96.93	234.1	525.6	508.4	487.9	20.54	24.750		
3,300.0	3,263.6	3,243.3	3,173.1	10.3	13.8	-97.28	241.6	547.1	527.9	506.6	21.38	24.695		
3,400.0	3,361.8	3,341.4	3,268.4	10.8	14.3	-97.61	249.2	568.6	547.5	525.3	22.22	24.644		
3,500.0	3,459.9	3,439.4	3,363.7	11.2	14.8	-97.92	256.7	590.1	567.1	544.0	23.06	24.597		
3,600.0	3,558.0	3,537.4	3,459.0	11.6	15.3	-98.20	264.3	611.6	586.7	562.8	23.89	24.552		
3,700.0	3,656.1	3,635.4	3,554.4	12.0	15.8	-98.47	271.8	633.2	606.3	581.5	24.73	24.511		
3,800.0	3,754.2	3,733.4	3,649.7	12.5	16.3	-98.72	279.4	654.7	625.9	600.3	25.58	24.473		
3,900.0	3,852.3	3,831.5	3,745.0	12.9	16.8	-98.96	286.9	676.2	645.5	619.1	26.42	24.436		
4,000.0	3,950.5	3,929.5	3,840.4	13.3	17.3	-99.18	294.5	697.7	665.2	637.9	27.26	24.403		
4,100.0	4,048.6	4,027.5	3,935.7	13.8	17.8	-99.39	302.0	719.2	684.8	656.7	28.10	24.371		
4,200.0	4,146.7	4,125.5	4,031.0	14.2	18.2	-99.59	309.6	740.7	704.5	675.5	28.94	24.341		
4,300.0	4,244.8	4,223.6	4,126.4	14.6	18.7	-99.77	317.1	762.3	724.1	694.3	29.78	24.313		
4,400.0	4,342.9	4,321.6	4,221.7	15.1	19.2	-99.95	324.7	783.8	743.8	713.2	30.63	24.286		
4,500.0	4,441.0	4,419.6	4,317.0	15.5	19.7	-100.12	332.2	805.3	763.5	732.0	31.47	24.261		
4,600.0	4,539.4	4,517.7	4,412.4	15.9	20.2	-100.53	339.8	826.8	782.9	750.6	32.29	24.244		
4,700.0	4,638.4	4,615.9	4,507.9	16.1	20.7	-100.70	347.4	848.4	801.7	768.7	33.00	24.294		
4,800.0	4,737.8	4,714.0	4,603.4	16.4	21.2	-100.62	354.9	869.9	819.8	786.2	33.64	24.371		
4,900.0	4,837.5	4,812.0	4,698.7	16.6	21.7	-100.32	362.5	891.4	837.4	803.2	34.21	24.478		
5,000.0	4,937.4	4,909.7	4,793.7	16.7	22.2	-99.80	370.0	912.9	854.6	819.9	34.71	24.618		

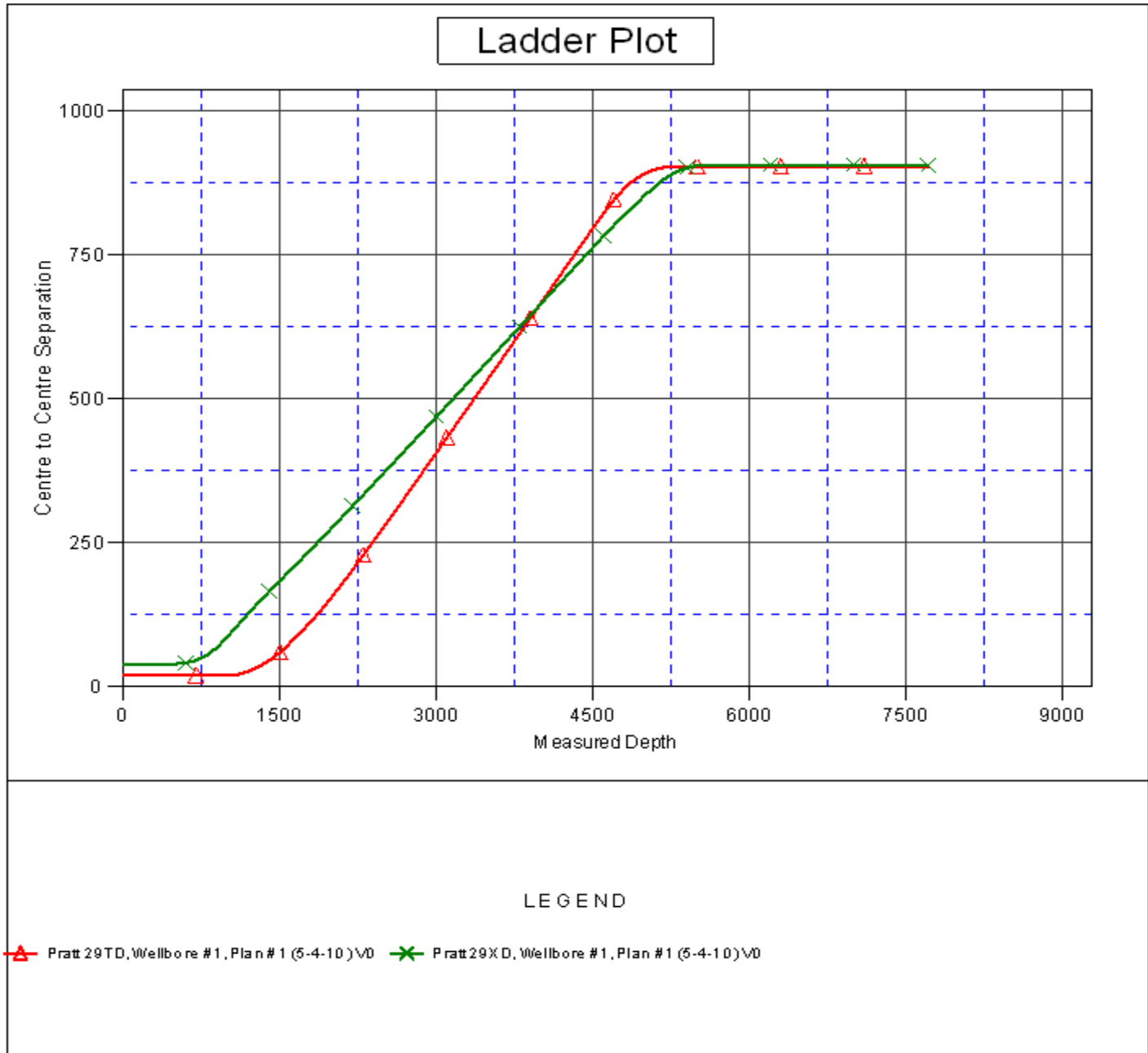
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well Pratt 44-29D
<b>Project:</b>	SEC.29-T1N-R68W	<b>TVD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Reference Site:</b>	Pratt 34-29D Pad Sec.29-T1N-R68W	<b>MD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 44-29D	<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>	EDM den0-adp01 Server Data
<b>Reference Design:</b>	Plan #2 (6-3-10)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Pratt 34-29D Pad Sec.29-T1N-R68W - Pratt 29XD - Wellbore #1 - Plan #1 (5-4-10)													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)	Semi Major Axis 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	5,037.4	5,023.0	4,904.1	16.9	22.7	26.50	378.4	936.9	870.9	835.8	35.13	24.794	
5,200.0	5,137.4	5,149.5	5,028.4	17.0	23.1	27.57	386.2	959.2	884.5	849.1	35.44	24.958	
5,300.0	5,237.4	5,278.0	5,155.5	17.1	23.4	28.37	392.3	976.4	895.1	859.3	35.75	25.039	
5,400.0	5,337.4	5,407.9	5,284.8	17.3	23.7	28.92	396.5	988.4	902.3	866.3	36.04	25.035	
5,500.0	5,437.4	5,538.6	5,415.3	17.4	23.9	29.20	398.8	994.9	906.3	869.9	36.33	24.945	
5,600.0	5,537.4	5,658.7	5,535.4	17.5	24.0	29.26	399.2	996.0	907.0	870.4	36.61	24.774	
5,700.0	5,637.4	5,758.7	5,635.4	17.7	24.1	29.26	399.2	996.0	907.0	870.1	36.88	24.592	
5,800.0	5,737.4	5,858.7	5,735.4	17.8	24.2	29.26	399.2	996.0	907.0	869.8	37.16	24.408	
5,900.0	5,837.4	5,958.7	5,835.4	18.0	24.4	29.26	399.2	996.0	907.0	869.5	37.44	24.224	
6,000.0	5,937.4	6,058.7	5,935.4	18.1	24.5	29.26	399.2	996.0	907.0	869.3	37.73	24.042	
6,100.0	6,037.4	6,158.7	6,035.4	18.2	24.6	29.26	399.2	996.0	907.0	869.0	38.01	23.859	
6,200.0	6,137.4	6,258.7	6,135.4	18.4	24.7	29.26	399.2	996.0	907.0	868.7	38.30	23.678	
6,300.0	6,237.4	6,358.7	6,235.4	18.5	24.8	29.26	399.2	996.0	907.0	868.4	38.60	23.498	
6,400.0	6,337.4	6,458.7	6,335.4	18.7	24.9	29.26	399.2	996.0	907.0	868.1	38.90	23.318	
6,500.0	6,437.4	6,558.7	6,435.4	18.8	25.1	29.26	399.2	996.0	907.0	867.8	39.20	23.140	
6,600.0	6,537.4	6,658.7	6,535.4	19.0	25.2	29.26	399.2	996.0	907.0	867.5	39.50	22.962	
6,700.0	6,637.4	6,758.7	6,635.4	19.2	25.3	29.26	399.2	996.0	907.0	867.2	39.80	22.786	
6,800.0	6,737.4	6,858.7	6,735.4	19.3	25.4	29.26	399.2	996.0	907.0	866.9	40.11	22.611	
6,900.0	6,837.4	6,958.7	6,835.4	19.5	25.6	29.26	399.2	996.0	907.0	866.6	40.42	22.437	
7,000.0	6,937.4	7,058.7	6,935.4	19.6	25.7	29.26	399.2	996.0	907.0	866.2	40.74	22.264	
7,100.0	7,037.4	7,158.7	7,035.4	19.8	25.8	29.26	399.2	996.0	907.0	865.9	41.05	22.092	
7,200.0	7,137.4	7,258.7	7,135.4	19.9	25.9	29.26	399.2	996.0	907.0	865.6	41.37	21.922	
7,300.0	7,237.4	7,358.7	7,235.4	20.1	26.1	29.26	399.2	996.0	907.0	865.3	41.69	21.754	
7,400.0	7,337.4	7,458.7	7,335.4	20.3	26.2	29.26	399.2	996.0	907.0	865.0	42.02	21.586	
7,500.0	7,437.4	7,558.7	7,435.4	20.4	26.3	29.26	399.2	996.0	907.0	864.6	42.34	21.420	
7,600.0	7,537.4	7,658.7	7,535.4	20.6	26.5	29.26	399.2	996.0	907.0	864.3	42.67	21.255	
7,700.0	7,637.4	7,758.7	7,635.4	20.8	26.6	29.26	399.2	996.0	907.0	864.0	43.00	21.092	
7,712.6	7,650.0	7,771.3	7,648.0	20.8	26.6	29.26	399.2	996.0	907.0	863.9	43.04	21.072	

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well Pratt 44-29D
<b>Project:</b>	SEC.29-T1N-R68W	<b>TVD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Reference Site:</b>	Pratt 34-29D Pad Sec.29-T1N-R68W	<b>MD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 44-29D	<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>	EDM den0-adp01 Server Data
<b>Reference Design:</b>	Plan #2 (6-3-10)	<b>Offset TVD Reference:</b>	Offset Datum

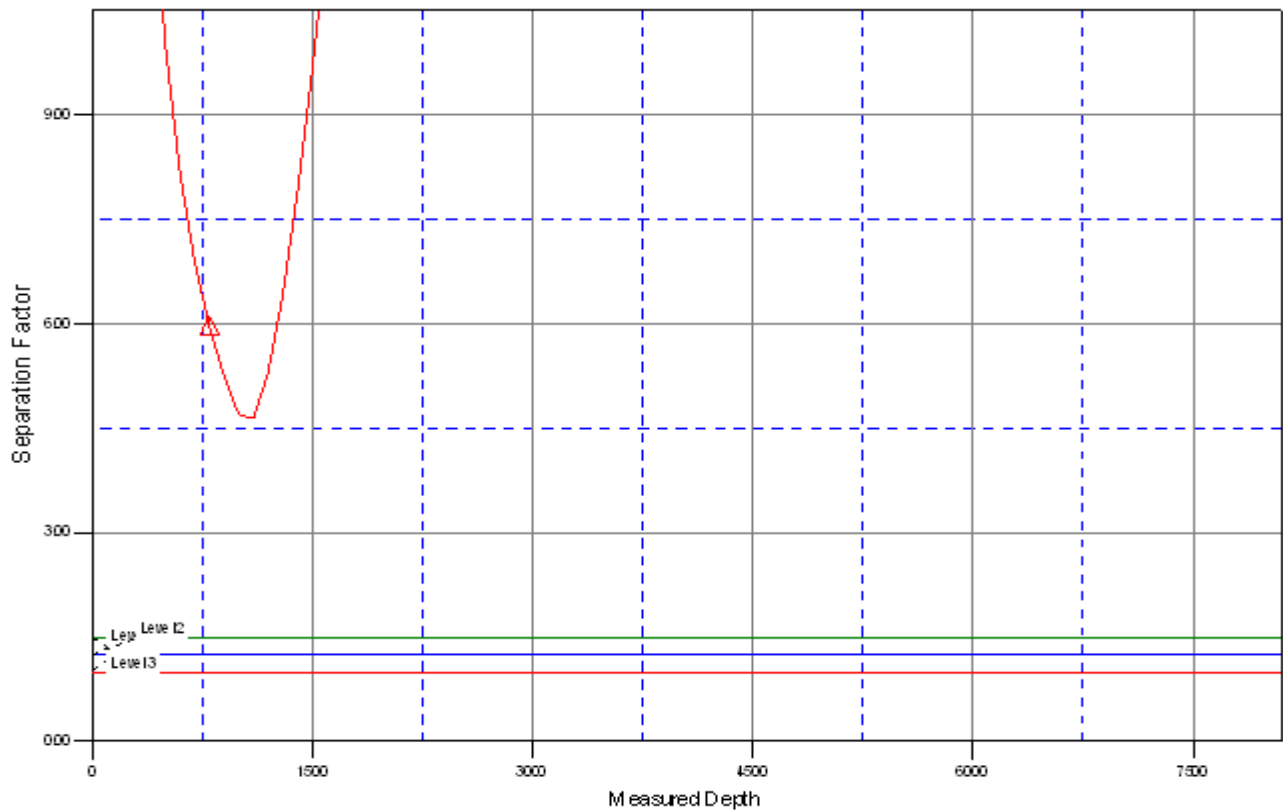
Reference Depths are relative to WELL @ 5194.0ft (Original Well Elev) Coordinates are relative to: Pratt 44-29D  
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone  
Central Meridian is 105° 30' 0.000 W ° Grid Convergence at Surface is: 0.31°



<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well Pratt 44-29D
<b>Project:</b>	SEC.29-T1N-R68W	<b>TVD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Reference Site:</b>	Pratt 34-29D Pad Sec.29-T1N-R68W	<b>MD Reference:</b>	WELL @ 5194.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 44-29D	<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>	EDM den0-adp01 Server Data
<b>Reference Design:</b>	Plan #2 (6-3-10)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 5194.0ft (Original Well Elev) Coordinates are relative to: Pratt 44-29D  
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone  
Central Meridian is 105° 30' 0.000 W ° Grid Convergence at Surface is: 0.31°

## Separation Factor Plot



### LEGEND

▲ Pratt 29TD, Wellbore #1, Plan #1 (5-4-10) \VD    ✕ Pratt 29XD, Wellbore #1, Plan #1 (5-4-10) \VD